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## AEROSPACE (SOCIETY OF BRITISH AEROSPACE COMPANIES – SBAC)

### Scope and membership of the umbrella agreement

SBAC represents the companies operating in the aerospace industry in the UK. This sector carries out a wide range of activities including the manufacture of commercial and military aircraft, ordnance, satellite equipment, etc.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kilowatt hours (kWh<sub>p</sub>). The sector agreement is an absolute energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2001 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010)
<b>Original (kgC)</b>	28,752,427	28,062,259	27,555,264	27,121,118	26,601,912	26,299,325
<b>At TP1 (kWh<sub>p</sub>)</b>	648,242,765	637,700,258	624,258,112	618,500,243	604,834,257	595,927,925
<b>2004 Review*</b>	-	-	-	1%	1%	1%
<b>At TP2 (kWh<sub>p</sub>)</b>	1,277,548,645	-	1,241,016,220	1,212,547,147	1,186,897,160	1,165,986,038
<b>At TP3 (kWh<sub>p</sub>)</b>	2,120,380,884	-	-	1,964,992,584	1,937,705,692	1,892,975,800
<b>2008 Review*</b>	-	-	-	-	-	14.2%
<b>At TP4</b>	2,357,707,711	-	-	-	1,949,472,737	1,633,094,446
<b>At TP5</b>	2,662,482,337	-	-	-	-	1,923,086,629

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 57 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 73 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 16 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 1,506,620,937 kWh<sub>p</sub>. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (tightening) of –416,465,692 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>1</sup> baseline for all target periods to date.

	Equivalent baseline (2001)			Performance		
	Energy (kWh <sub>p</sub> )	Production	SEC	Energy (kWh <sub>p</sub> )	Production	SEC
TP1	648,242,765	N/A	N/A	593,956,008	N/A	N/A
TP2	1,277,548,645	N/A	N/A	1,129,236,627	N/A	N/A
TP3	2,120,380,884	N/A	N/A	1,726,406,139	N/A	N/A
TP4	2,357,707,711	N/A	N/A	1,644,882,924	N/A	N/A
TP5	2,662,482,337	N/A	N/A	1,806,881,495	N/A	N/A

### Adjustment for overlap with EU ETS

Twelve Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Eleven Target Units had their targets tightened due to double counting and one Target Unit had its target eased. Overall, there was an EU ETS excess of 91 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the sector target of –508,205,356 kWh<sub>p</sub>. This is included within the adjusted target described above.

### Commentary

The sector performance of 1,806,881,495 kWh<sub>p</sub> is above the CCA adjusted target of 1,506,620,937 kWh<sub>p</sub> and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (2001) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

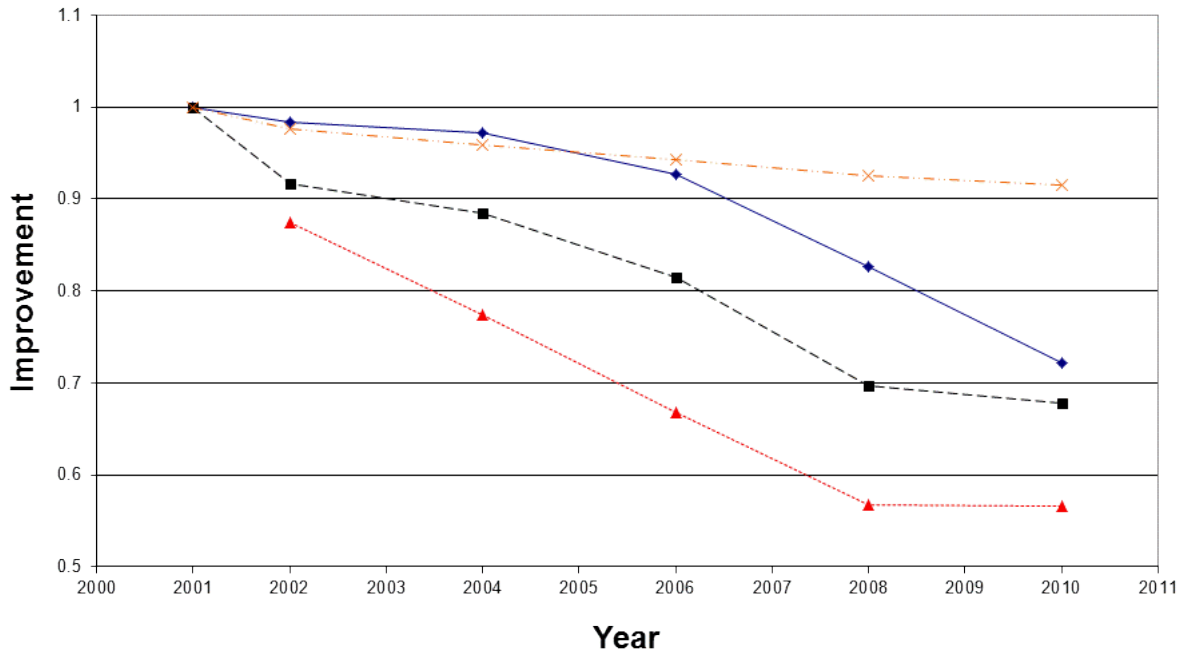
	Improvement in energy use compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.6%	8.4%
TP2	2.9%	12%
TP3	7.3%	19%
TP4	17%	30%
TP5	28%	32%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>1</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**

**SBAC TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared to the equivalent base year position.

**Absolute energy/CO<sub>2</sub>**

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2001) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)



	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP1</b>	-0.2	-15	N/A
<b>TP2</b>	-0.5	-27	N/A
<b>TP3</b>	-1.4	-71	N/A
<b>TP4</b>	-2.6	-128	N/A
<b>TP5</b>	-3.1	-153	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## AGRICULTURAL SUPPLY (AGRICULTURAL INDUSTRIES CONFEDERATION - AIC)

### Scope and membership of the umbrella agreement

The AIC (formerly UKASTA) agreement covers the majority of UK animal feed production.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	163.7	160.2	157.0	154.5	153.3	152.1
<b>At TP1</b>	170.7	167.0	163.6	161.1	159.8	158.6
<b>2004 Review*</b>	-	-	-	3.0%	3.5%	4.0%
<b>At TP2</b>	172.4	168.7	165.2	157.8	155.8	153.7
<b>At TP3</b>	169.6	-	-	154.9	153.1	151.1
<b>2008 Review*</b>	-	-	-	-	-	7.0%
<b>At TP4</b>	173.2	-	-	-	156.6	143.7
<b>At TP5</b>	179.9	-	-	-	-	140.9

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 31 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 38 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 7 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described previously, the final sector target for the TP5 was 141.6 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 0.8 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>2</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /te)
TP1	3,390,170,196	19,857,252	170.7	3,248,544,075	20,519,724	158.3
TP2	3,297,955,281	19,125,693	172.4	3,292,906,057	21,200,430	155.3
TP3	3,149,218,854	18,565,750	169.6	3,030,854,982	21,129,330	143.4
TP4	2,926,072,291	16,897,614	173.2	2,806,866,147	19,333,799	145.2
TP5	2,997,405,589	16,660,379	179.9	2,879,937,740	20,663,141	139.4

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. Overall there was an EU ETS surplus of 4 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of 0.9 kWh<sub>p</sub>/t. This is included within the adjusted target described above.

### Commentary

The sector performance of 139.4 kWh<sub>p</sub>/t is below the CCA adjusted target of 141.6 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

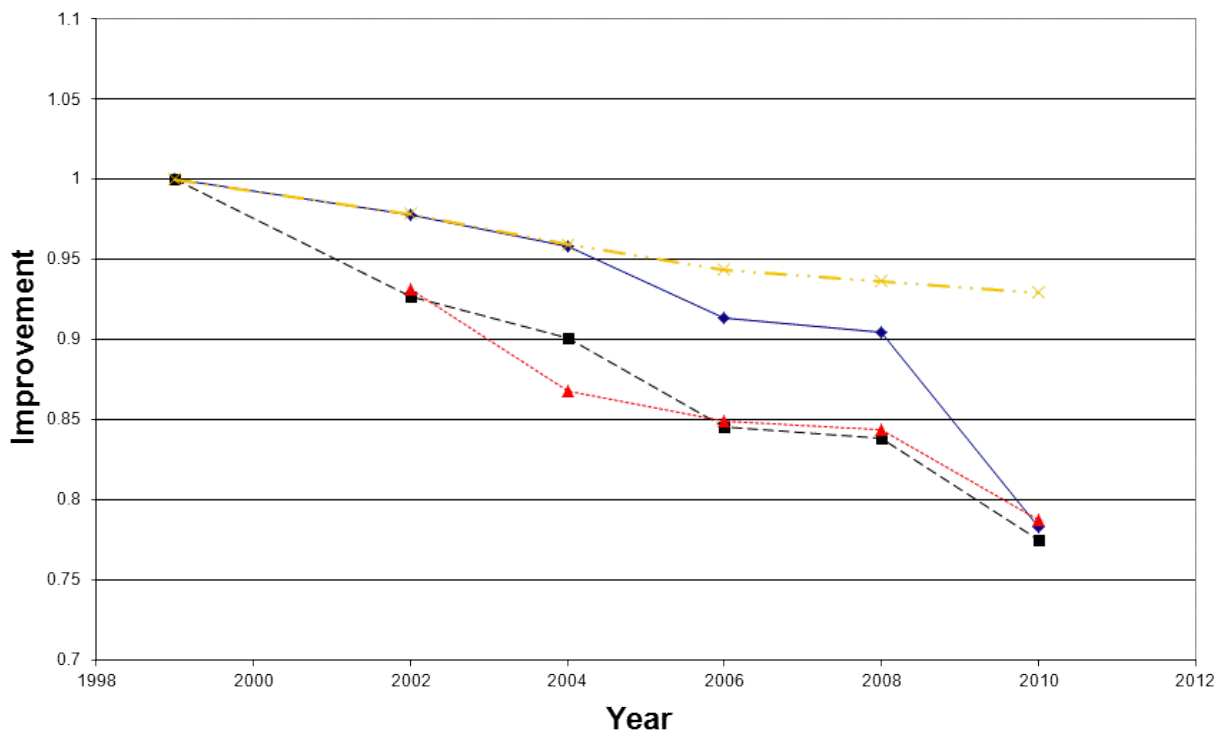
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>2</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	2.2%	7.3%
TP2	4.2%	9.9%
TP3	8.7%	15%
TP4	9.6%	16%
TP5	22%	23%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

**Graph of performance and current targets relative to the base year**  
**UKASTA TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.9	-46
TP2	-1.3	-74
TP3	-2.0	-114
TP4	-2.0	-109
TP5	-3.0	-171

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.5	-23	3
TP2	-0.02	-1	11
TP3	-0.4	-24	14
TP4	-0.4	-24	14
TP5	-0.4	-24	24

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

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## ALUMINIUM (THE ALUMINIUM FEDERATION - ALFED)

### Scope and membership of the umbrella agreement

The Aluminium Sector has a number of sub-sectors (i.e. primary, secondary, rolling, extruding, aluminium finishing, magnesium and titanium). The primary aluminium producers are the largest energy consumers. Greenhouse gases other than CO<sub>2</sub> are included in the sector emissions.

This sector has a Target Unit with an installation in the EU ETS.

### Targets

The targets for this sector are given in variable carbon measured as a ratio of actual carbon relative to a reference performance. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002) Variable Carbon	TP2(2004) Variable Carbon	TP3(2006) Variable Carbon	TP4(2008) Variable Carbon	TP5(2010) Variable Carbon
<b>Original</b>	1	0.726	0.705	0.695	0.690	0.678
<b>At TP1</b>	1	0.709	0.688	0.678	0.673	0.661
<b>2004 Review*</b>	-	-	-	5.6%	4.6%	5.7%
<b>At TP2</b>	1	-	0.680	0.676	0.664	0.659
<b>At TP3</b>	1	-	-	0.673	0.666	0.662
<b>2008 Review*</b>	-	-	-	-	-	8.5%
<b>At TP4</b>	1	-	-	-	0.666	0.606
<b>At TP5</b>	1	--	-	-	-	0.706

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 19 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 347 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 328 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 0.100.

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 0.785. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 0.079.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>3</sup> baseline for all target periods to date.

	Equivalent baseline (1990)			Performance		
	Energy (kWh)	Production	Carbon ratio	Energy (kWh)	Production	Carbon ratio
<b>TP1</b>	23,701,434,745	N/A	1	17,318,057,079	N/A	0.681
<b>TP2</b>	25,124,015,910	N/A	1	17,468,250,618	N/A	0.646
<b>TP3*</b>	22,926,222,886	N/A	1	19,119,879,952	N/A	0.620
<b>TP4</b>	27,607,259,748	N/A	1	16,816,058,550	N/A	0.611
<b>TP5</b>	16,742,535,118	N/A	1	10,355,443,611	N/A	0.719

\* Reported sector energy use has been changed as a result of an audit subsequent to TP3.

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. The total net effect of double counting was an excess of 159 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the sector target equivalent to -0.04. This is included within the adjusted target described above.

<sup>3</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



### Commentary

The sector performance of 0.719 is below the CCA adjusted target of 0.785 and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period.

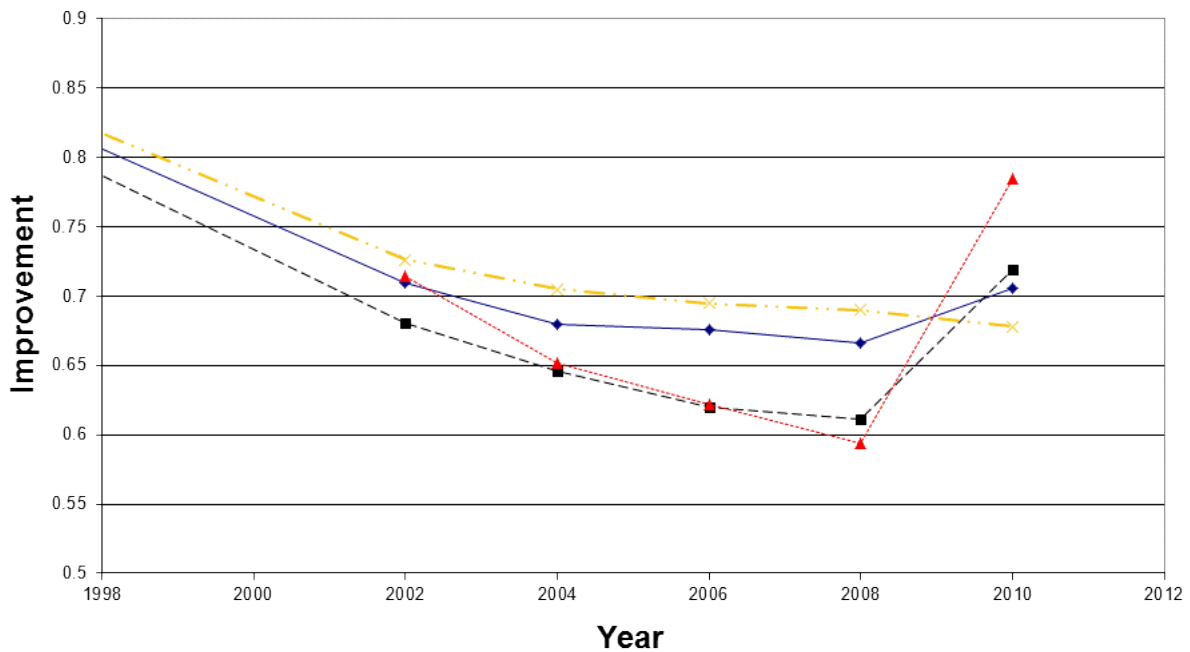
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	29%	32%
TP2	32%	35%
TP3	33%	38%
TP4	33%	39%
TP5	29%	28%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

**Graph of performance and current targets relative to the base year**

**AIFed TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-29.2	-2,559
TP2	-42.2	-3,409
TP3	-47.4	-3,378
TP4	-54.3	-3,874
TP5	-29.5	-2,346

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-23.0	-2,017	N/A
TP2	-27.6	-2,227	N/A
TP3	-32.6	-2,323	N/A
TP4	-38.9	-2,772	N/A
TP5	-23.0	-1,827	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

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## BREWING (BRITISH BEER & PUB ASSOCIATION - BBPA)

### Scope and membership of the umbrella agreement

The UK brewing industry is principally represented by the British Beer & Pub Association (BBPA). The BBPA agreement covers over 98% of UK beer production.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per hectolitre of product (kWh<sub>p</sub>/hl). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /hl)	TP1(2002) (kWh <sub>p</sub> /hl)	TP2(2004) (kWh <sub>p</sub> /hl)	TP3(2006) (kWh <sub>p</sub> /hl)	TP4(2008) (kWh <sub>p</sub> /hl)	TP5(2010) (kWh <sub>p</sub> /hl)
<b>Original</b>	64.44	62.50	61.11	59.72	58.33	56.94
<b>At TP1</b>	63.57	62.19	60.80	59.42	58.04	56.65
<b>2004 Review*</b>	-	-	-	2.0%	2.0%	3.5%
<b>At TP2</b>	63.53	-	60.77	58.20	56.84	54.64
<b>At TP3</b>	63.47	-	-	58.14	56.79	54.59
<b>2008 Review*</b>	-	-	-	-	-	7.5%
<b>At TP4</b>	63.43	-	-	-	56.81	50.50
<b>At TP5</b>	63.43	-	-	-	-	50.50

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

The sector operates a collective trading arrangement that, for this target period, encompassed all Target Units within the sector.

- Allowances equivalent to 77 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 77 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 1.64 kWh<sub>p</sub>/hl.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 47.48 kWh<sub>p</sub>/hl. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -3.02 kWh<sub>p</sub>/hl.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>4</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (hl)	SEC (kWh <sub>p</sub> /hl)	Energy (kWh)	Production (hl)	SEC (kWh <sub>p</sub> /hl)
<b>TP1</b>	3,736,825,734	58,781,700	63.57	3,533,012,620	59,378,413	59.50
<b>TP2</b>	3,734,327,427	58,781,885	63.53	3,343,414,659	58,326,371	57.32
<b>TP3</b>	3,726,452,308	58,709,549	63.47	2,913,091,240	56,554,369	51.51
<b>TP4</b>	3,729,210,569	58,793,319	63.43	2,692,974,685	53,106,557	50.71
<b>TP5</b>	3,729,210,569	58,793,319	63.43	2,261,344,145	47,622,527	47.48

### Adjustment for overlap with EU ETS

Sixteen Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Thirteen Target Units had their targets tightened due to double counting. Three Target Units had their targets eased. Overall, there was an EU ETS surplus of 117 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA target of -13.56 kWh<sub>p</sub>/hl. This is included within the adjusted target described above.

### Commentary

The sector performance of 47.48 kWh<sub>p</sub>/hl is below the CCA adjusted target of 47.48 kWh<sub>p</sub>/hl and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance.)

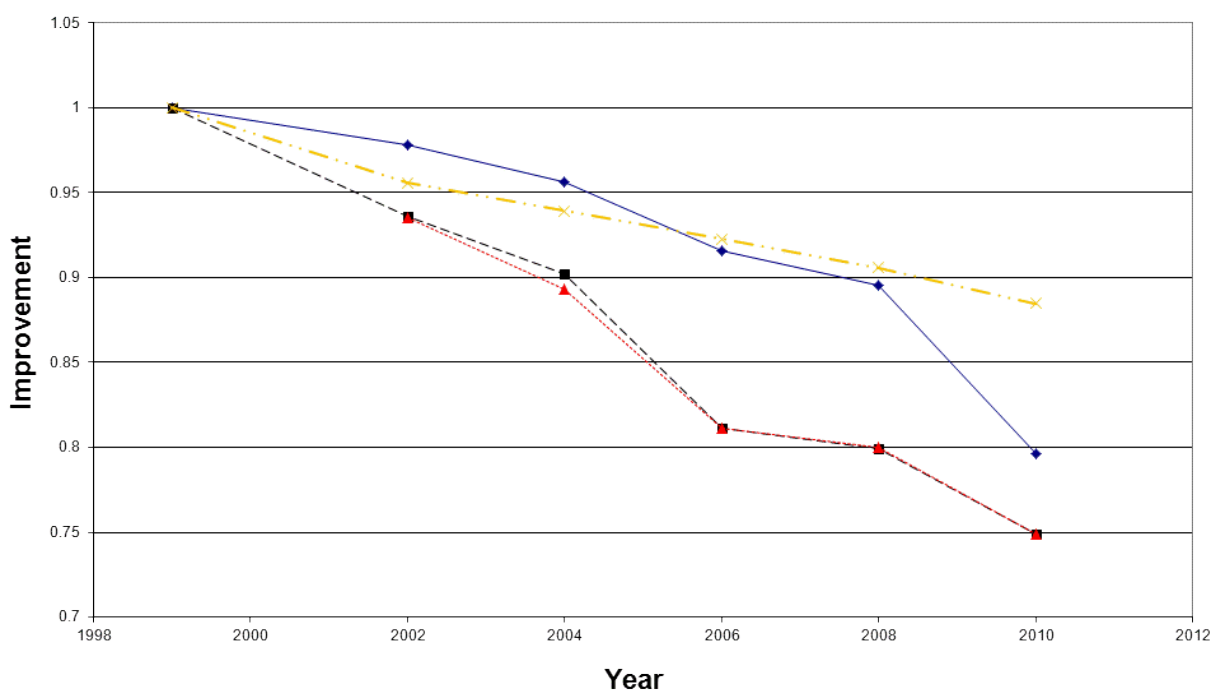
<sup>4</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	2.2%	6.4%
TP2	4.4%	9.8%
TP3	8.4%	19%
TP4	10%	20%
TP5	20%	25%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

BBPA TP5 Performance



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput had remained constant at the relevant target period throughput level. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.9	-44
TP2	-1.3	-66
TP3	-2.4	-123
TP4	-2.4	-122
TP5	-2.7	-138

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.7	-37	1
TP2	-1.4	-71	-1
TP3	-2.9	-148	-4
TP4	-3.7	-187	-10
TP5	-5.3	-266	-19

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## CALCIUM CARBONATE (BRITISH CALCIUM CARBONATE FEDERATION - BCCF)

### Scope and membership of the umbrella agreement

The BCCF represents the calcium carbonate sector in the UK that specialises in the processing and supply of this material in a purified form for agricultural, industrial, pharmaceutical and food applications. This Climate Change Agreement (CCA) represents those facilities covered by an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline kWh <sub>p</sub> /t	TP1(2002)	TP2(2004)	TP3(2006) kWh <sub>p</sub> /t	TP4(2008) kWh <sub>p</sub> /t	TP5(2010) kWh <sub>p</sub> /t
<b>Original</b>	160.21	-	-	153.80	150.60	144.19
<b>At TP3*</b>	160.01	-	-	153.61	150.41	144.01
<b>2008 Review**</b>	-	-	-	-	-	1.5%
<b>At TP4</b>	155.86	-	-	-	146.51	138.17
<b>AtTP5</b>	137.87	-	-	-	-	122.21

\* Note - The targets and baseline at TP3 differ from the original values (i.e. agreed when the umbrella agreement was established) due to a baseline correction.

\*\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the review.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 1 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 2 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 1 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 2.81 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

### Other adjustments

N/A

### Final adjusted CCA sector target for TP5

As a consequence of the adjustments described, the final sector target for TP5 was 125.02 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>5</sup> baseline for this target period.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /t)
<b>TP3</b>	408,619,112	2,553,668	160.01	374,370,804	2,496,501	149.96
<b>TP4</b>	398,022,901	2,553,668	155.86	339,207,372	2,353,645	144.12
<b>TP5</b>	338,107,043	2,452,347	137.87	271,370,878	2,148,466	126.31

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 126.31 kWh<sub>p</sub>/t is above the CCA adjusted target of 125.02 kWh<sub>p</sub>/t and, therefore, the sector has not met its target. All the facilities reporting have been recertified because they met their individual targets, either outright or through trading.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

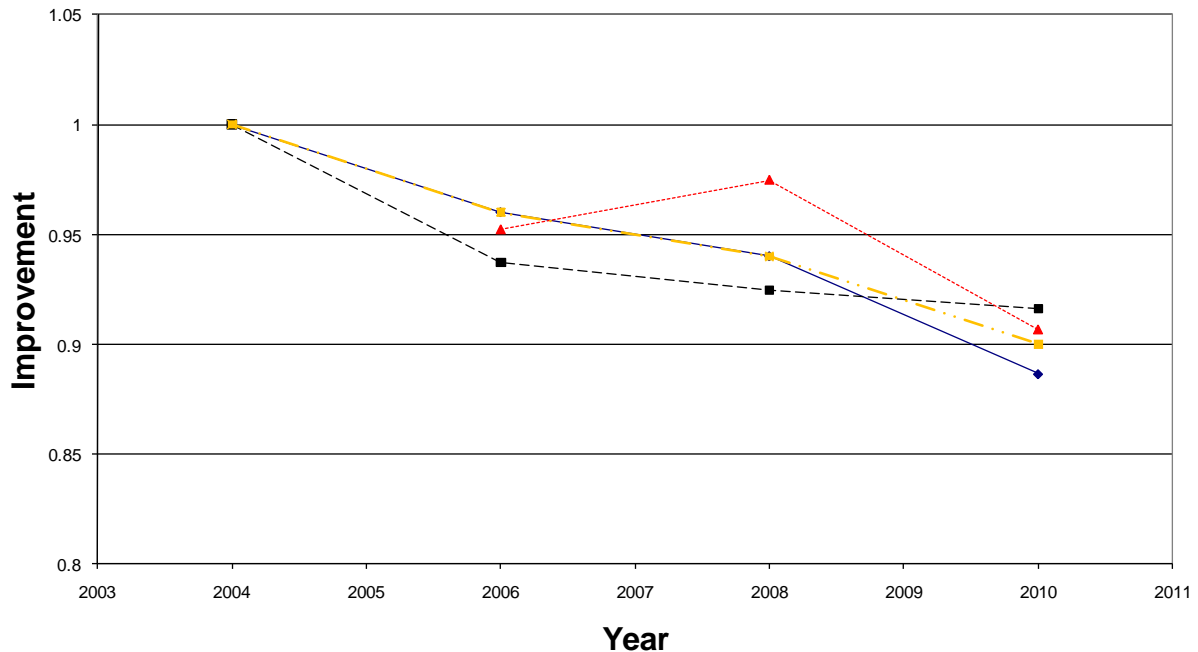
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP3</b>	4.0%	6.3%
<b>TP4</b>	6.0%	7.5%
<b>TP5</b>	11%	8.4%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>5</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**

**BCCF TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP3	-0.1	-4.5
TP4	-0.1	-4.9
TP5	-0.1	-4.4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP3	-0.1	-6	-2
TP4	-0.2	-11	-8
TP5	-0.2	-12	-12

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## CEMENT (THE MINERAL PRODUCTS ASSOCIATION - MPA)

### Scope and membership of the umbrella agreement

The cement industry climate change agreement, formerly administered by the British Cement Association, is now administered by the Mineral Products Association, MPA. The agreement covers the production of Portland cement from all works in the UK that have the ability to manufacture Portland Cement clinker.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per kilogram of cement (kWh<sub>p</sub>/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /kg)	TP1(2002) (kWh <sub>p</sub> /kg)	TP2(2004) (kWh <sub>p</sub> /kg)	TP3(2006) (kWh <sub>p</sub> /kg)	TP4(2008) (kWh <sub>p</sub> /kg)	TP5(2010) (kWh <sub>p</sub> /kg)
<b>Original</b>	1.678	1.457	1.408	1.298	1.282	1.249
<b>At TP1</b>	1.685	1.463	1.414	1.303	1.287	1.253
<b>2004 Review*</b>	-	-	-	0%	0%	1.5%
<b>At TP2</b>	1.685	-	1.414	1.303	1.287	1.234
<b>At TP3</b>	1.686	-	-	1.304	1.287	1.236
<b>2008 Review*</b>	-	-	-	-	-	4.53%
<b>At TP4</b>	1.686	-	-	-	1.287	1.180
<b>At TP5</b>	1.686	-	-	-	-	1.180

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 116 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 780 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 664 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 0.902 kWh<sub>p</sub>/kg. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -0.278 kWh<sub>p</sub>/kg.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>6</sup> baseline for all target periods to date.

	Equivalent baseline (1990)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /kg)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /kg)
<b>TP1</b>	23,150,776,000	13,742,000	1.685	16,216,052,805	11,537,195	1.406
<b>TP2</b>	23,150,776,000	13,742,000	1.685	15,658,781,217	11,784,936	1.329
<b>TP3</b>	23,173,627,351	13,740,837	1.686	14,965,180,535	12,248,279	1.222
<b>TP4</b>	23,173,627,351	13,740,837	1.686	11,798,936,137	10,562,155	1.117
<b>TP5</b>	23,173,627,351	13,740,837	1.686	7,337,693,971	7,894,315	0.929

### Adjustment for overlap with EU ETS

Five Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All five Target Units had their targets tightened. After calculating the EU ETS performance, there was a gap of 1,213 ktCO<sub>2</sub> in the overlap between the schemes which resulted in an adjustment (tightening) to the CCA target of -0.615 kWh<sub>p</sub>/kg. This is included within the adjusted target described above.

### Commentary

The sector performance of 0.929 kWh<sub>p</sub>/kg is above the CCA adjusted target of 0.902 kWh<sub>p</sub>/kg and, therefore, the sector has not met its adjusted target. However, all facilities reporting have been recertified because they have met their individual targets through trading.

The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

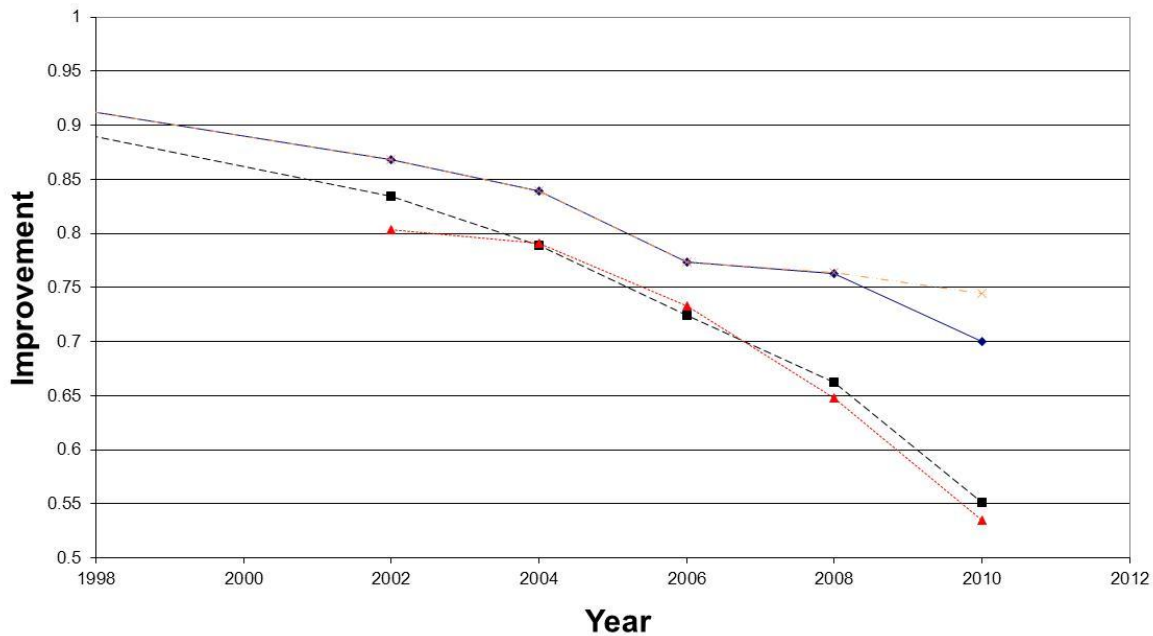
<sup>6</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	13%	17%
TP2	16%	21%
TP3	23%	28%
TP4	24%	34%
TP5	30%	45%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### MPA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period are less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-12	-880
TP2	-15	-1,136
TP3	-20	-1,553
TP4	-22	-1,563
TP5	-22	-1,492

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-25	-1,900	-16
TP2	-27	-2,030	-14
TP3	-30	-2,240	-11
TP4	-41	-2,956	-23
TP5	-57	-3,954	-43

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## CERAMICS - NON-FLETTON BRICK SUB-SECTOR (BRITISH CERAMIC CONFEDERATION - BCC-01)

### Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	998	976	953	937	916	903
<b>At TP1</b>	1,020	1,003	985	968	949	938
<b>2004 Review*</b>	-	-	-	0.5%	0.5%	1.1%
<b>At TP2</b>	1,021	-	981	963	944	928
<b>At TP3</b>	987	-	-	959	940	924
<b>2008 Review*</b>	-	-	-	-	-	0%
<b>At TP4</b>	968	-	-	-	938	922
<b>At TP5</b>	992	-	-	-	-	925

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 2 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 528 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 527 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 993 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 68 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>7</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	6,458,346,292	6,329,230	1,020	6,082,185,157	6,193,693	982
<b>TP2</b>	6,447,847,970	6,316,708	1,021	6,053,698,015	6,368,491	951
<b>TP3</b>	6,217,555,177	6,300,403	987	5,365,580,575	5,671,401	946
<b>TP4</b>	6,020,468,960	6,216,638	968	4,806,226,746	5,038,518	954
<b>TP5</b>	6,003,120,443	6,048,597	922	3,001,110,425	2,971,374	1010

### Adjustment for overlap with EU ETS

Eighteen Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All eighteen Target Units had their targets tightened due to double counting. Overall, there was an EU ETS excess of 488 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA target of -876 kWh<sub>p</sub>/t. This is included within the adjusted target described.

### Commentary

The sub-sector performance of 1010 kWh<sub>p</sub>/t is above the CCA adjusted target of 993 kWh<sub>p</sub>/t and, therefore, the sub-sector has not met its target. However, all the facilities reporting have been recertified as they met their individual targets, either outright or through trading.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

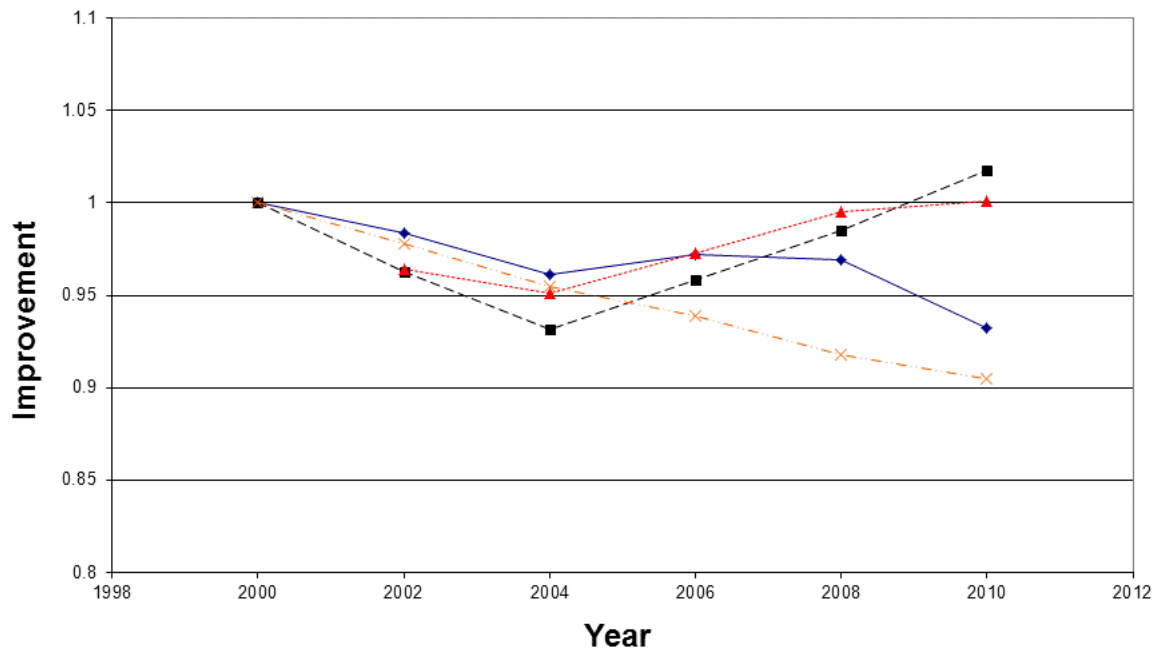
<sup>7</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.7%	3.8%
TP2	3.9%	6.9%
TP3	2.8%	4.1%
TP4	3.1%	1.5%
TP5	6.8%	-1.8%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

BCC01 TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.9	-45
TP2	-1.6	-84
TP3	-0.8	-44
TP4	-0.3	-14
TP5	0.2	10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-1.4	-71	-2
TP2	-1.4	-74	1
TP3	-3.1	-162	-10
TP4	-4.4	-229	-19
TP5	-11	-563	-51

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## CERAMICS - FLETTON BRICK SUB-SECTOR (BRITISH CERAMIC CONFEDERATION - BCC-02)

### Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sub-sector are expressed in primary kWh per 1,000 bricks (kWh<sub>p</sub>/1,000). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /1,000)	TP1(2002) (kWh <sub>p</sub> /1,000)	TP2(2004) (kWh <sub>p</sub> /1,000)	TP3(2006) (kWh <sub>p</sub> /1,000)	TP4(2008) (kWh <sub>p</sub> /1,000)	TP5(2010) (kWh <sub>p</sub> /1,000)
Original	716	710	699	686	672	659
At TP1	775	768	756	742	727	713
2004 Review*	-	-	-	-11.5%	-11.5%	-11.5%
At TP2	775	-	756	828	811	795
At TP3	768	-	-	828	811	795
2008 Review*	-	-	-	-	-	0%
AT TP4	768	-	-	-	811	795
At TP5	775	-	-	-	-	795

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 13 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 13 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 970 kWh<sub>p</sub>/1000. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (easing) of 175 kWh<sub>p</sub>/1000.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>8</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /1,000)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /1,000)
<b>TP1</b>	250,771,080	323,680	775	280,477,146	324,699	864
<b>TP2</b>	250,771,080	323,680	775	354,153,766	326,351	1085
<b>TP3</b>	248,657,890	323,689	768	336,596,872	307,986	1093
<b>TP4</b>	248,657,890	323,689	768	188,939,538	234,133	807
<b>TP5</b>	250,778,053	323,689	775	131,553,755	135,627	970

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust their targets for double counting between these two schemes.

The Target Units had its target tightened. Overall there was an EU ETS surplus of 8 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of – 321 kWh<sub>p</sub>/1000. This is included within the adjusted target described.

### Commentary

The sub-sector performance of 970 kWh<sub>p</sub>/1,000 is below the CCA adjusted target of 970 kWh<sub>p</sub>/1,000 and, therefore, the sub-sector has met its target. The single facility in this sub-sector has been recertified as it has met its target.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

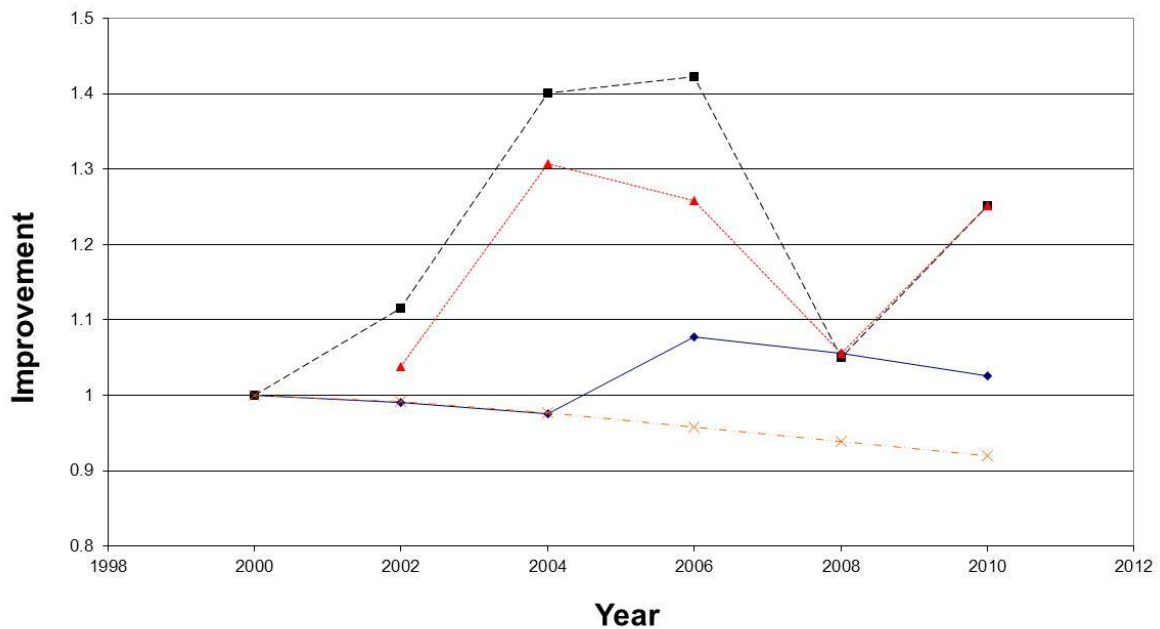
<sup>8</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	0.9%	-11%
TP2	2.5%	-40%
TP3	-7.7%	-42%
TP4	-5.6%	-5%
TP5	-2.6%	-25%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BCC02 TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP1</b>	0.1	6
<b>TP2</b>	0.4	20
<b>TP3</b>	0.4	19
<b>TP4</b>	0.03	2
<b>TP5</b>	0.1	5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP1</b>	0.1	6	0
<b>TP2</b>	0.4	20	1
<b>TP3</b>	0.3	17	-5
<b>TP4</b>	-0.2	-11	-28
<b>TP5</b>	-0.4	-22	-58

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## CERAMICS - REFRACTORIES SUB-SECTOR (BRITISH CERAMIC CONFEDERATION - BCC-03)

### Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	3,290	3,196	3,145	3,073	3,033	2,974
<b>At TP1</b>	3,665	3,616	3,599	3,559	3,502	3,436
<b>2004 Review*</b>	-	-	-	0.5%	0.5%	1.1%
<b>At TP2</b>	3,924	-	3,843	3,786	3,725	3,655
<b>At TP3</b>	3,753	-	-	3,691	3,637	3,578
<b>2008 Review*</b>	-	-	-	-	-	0%
<b>At TP4</b>	3,657	-	-	-	3,546	3,483
<b>At TP5</b>	4,846	-	-	-	-	4,678

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 6 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 30 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 24 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 5,347 kWh<sub>p</sub>/t. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (easing) of 669 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>9</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	1,786,154,983	487,368	3,665	1,444,652,751	383,318	3,769
<b>TP2</b>	1,915,049,883	488,082	3,924	1,425,440,064	333,524	4,274
<b>TP3</b>	1,789,795,353	476,873	3,753	1,346,340,639	306,467	4,393
<b>TP4</b>	1,702,800,311	465,616	3,657	1,193,034,173	267,303	4,463
<b>TP5</b>	1,207,146,826	249,089	4,846	923,677,749	188,590	4,898

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Units had its target tightened. Overall there was an EU ETS surplus of 1 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of – 28 kWh<sub>p</sub>/t. This is included within the adjusted target described.

### Commentary

The sub-sector performance of 4,898 kWh<sub>p</sub>/t is below the CCA adjusted target of 5,347 kWh<sub>p</sub>/t and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

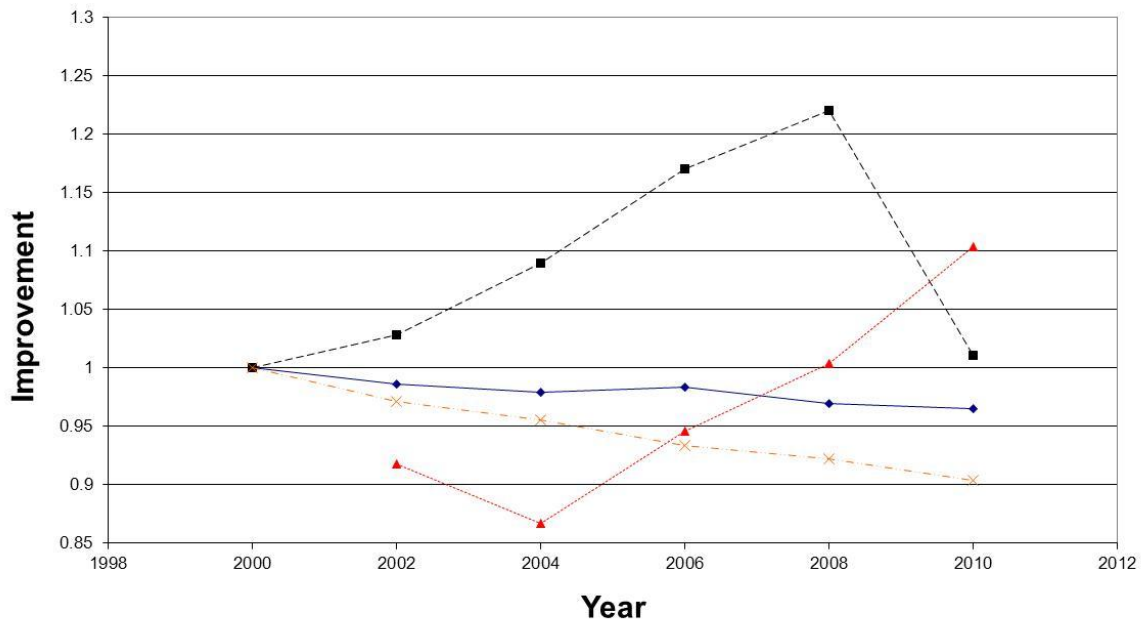
<sup>9</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.3%	-2.8%
TP2	2.1%	-8.9%
TP3	1.7%	-17%
TP4	3.0%	-22%
TP5	3.5%	-1.1%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BCC03 TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	0.1	7
TP2	0.4	21
TP3	0.7	36
TP4	0.8	40
TP5	0.04	2

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	Energy (PJ)	Energy (PJ)
TP1	-1.2	-62	-21
TP2	-1.8	-89	-32
TP3	-1.6	-81	-36
TP4	-1.8	-93	-43
TP5	-1.0	-52	-24

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## CERAMICS - WHITEWARES SUB-SECTOR (BRITISH CERAMIC CONFEDERATION - BCC-04)

### Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWhp/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWhp/t)	TP1(2002) (kWhp/t)	TP2(2004) (kWhp/t)	TP3(2006) (kWhp/t)	TP4(2008) (kWhp/t)	TP5(2010) (kWhp/t)
<b>Original</b>	9,971	9,701	9,098	8,979	8,935	8,787
<b>At TP1</b>	10,764	10,362	9,767	9,637	9,509	9,385
<b>2004 Review*</b>	-	-	-	6.7%	6.7%	6.9%
<b>At TP2</b>	10,833	-	9,215	9,046	8,924	8,789
<b>At TP3</b>	9,476	-	-	8,143	8,043	7,935
<b>2008 Review*</b>	-	-	-	-	-	2.93%
<b>At TP4</b>	9,346	-	-	-	7,903	7,558
<b>At TP5</b>	11,160	-	-	-	-	8,582

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 1 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 11 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 9 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 275 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

**Other adjustments**

No other adjustments were made.

**Final adjusted CCA sector target for the TP5**

As a consequence of the adjustments, the final sector target for the TP5 was 8,857 kWh<sub>p</sub>/t.

**Sector performance recorded**

The following table shows the sector performance against the equivalent<sup>10</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	3,008,111,786	279,463	10,764	2,689,636,559	284,887	9,441
<b>TP2</b>	2,985,138,257	275,571	10,833	2,196,929,837	248,338	8,847
<b>TP3</b>	2,467,593,027	260,394	9,476	1,760,223,036	237,678	7,406
<b>TP4</b>	2,379,681,949	254,632	9,346	1,442,935,537	212,670	6,785
<b>TP5</b>	2,191,909,642	196,413	11,160	1,082,911,069	186,361	5,811

**Commentary**

The sub-sector performance of 5,811 kWh<sub>p</sub>/t is below the CCA adjusted target of 8,857 kWh<sub>p</sub>/t and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

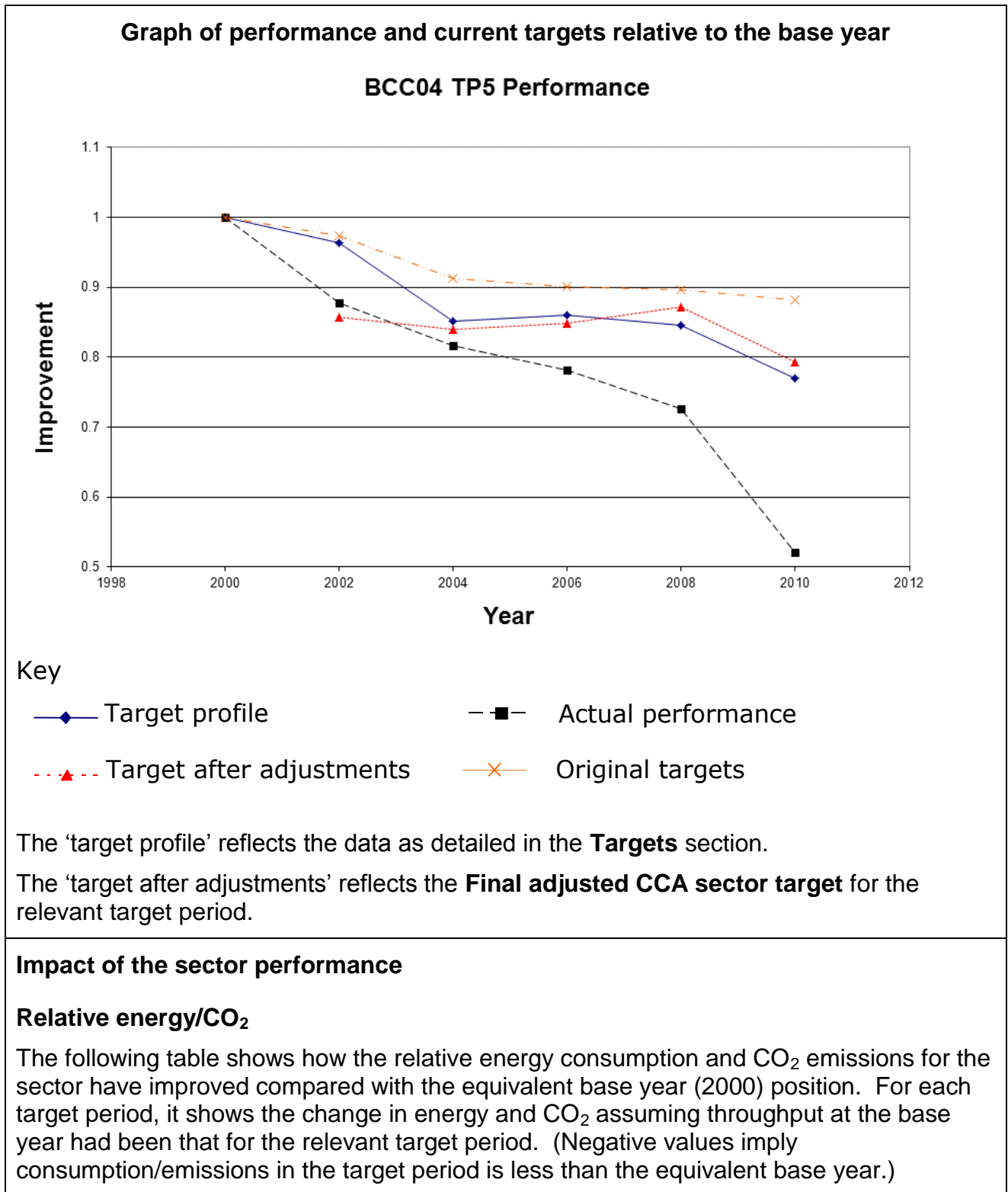
**Adjustment for overlap with EU ETS**

No Target Units reporting at TP5 are part of EU ETS, so no adjustments were required.

	Improvement in SEC compared with Equivalent Baseline at each Target Perio	
	Target Improvement	Actual Improvement
<b>TP1</b>	3.7%	12%
<b>TP2</b>	15%	18%
<b>TP3</b>	14%	22%
<b>TP4</b>	15%	27%
<b>TP5</b>	23%	48%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>10</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-1.4	-68
TP2	-1.8	-88
TP3	-1.8	-90
TP4	-2.0	-99
TP5	-3.6	-182

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-1.2	-58	2
TP2	-2.8	-141	-10
TP3	-2.6	-130	-9
TP4	-3.4	-171	-16
TP5	-4.0	-202	-5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## CERAMICS - MATERIALS SUB-SECTOR (BRITISH CERAMIC CONFEDERATION - BCC-05)

### Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	1,264	1,234	1,204	1,174	1,155	1,137
<b>At TP1</b>	985	960	937	915	900	888
<b>2004 Review*</b>	-	-	-	12.3%	12.5%	12.7%
<b>At TP2</b>	1,053	-	902	858	842	829
<b>At TP3</b>	827	-	-	770	756	744
<b>2008 Review*</b>	-	-	-	-	-	3.48%
<b>At TP4</b>	989	-	-	-	789	749
<b>At TP5</b>	1,301	-	-	-	-	724

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 28 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 28 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 736 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (easing) of 13 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>11</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	519,839,262	527,970	985	502,703,897	576,909	871
<b>TP2</b>	578,907,261	549,812	1,053	459,689,951	583,383	788
<b>TP3</b>	419,351,980	506,951	827	392,461,607	565,212	694
<b>TP4</b>	871,537,851	881,445	989	526,057,903	746,617	705
<b>TP5</b>	1,130,377,557	869,046	1,301	391,270,135	607,194	644

### Adjustment for overlap with EU ETS

Three Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All three Target Units had their targets tightened. Overall there was an EU ETS surplus of 26 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -225 kWh<sub>p</sub>/t. This is included within the adjusted target described.

### Commentary

The sub-sector performance of 644 kWh<sub>p</sub>/t is below the CCA adjusted target of 736 kWh<sub>p</sub>/t, and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

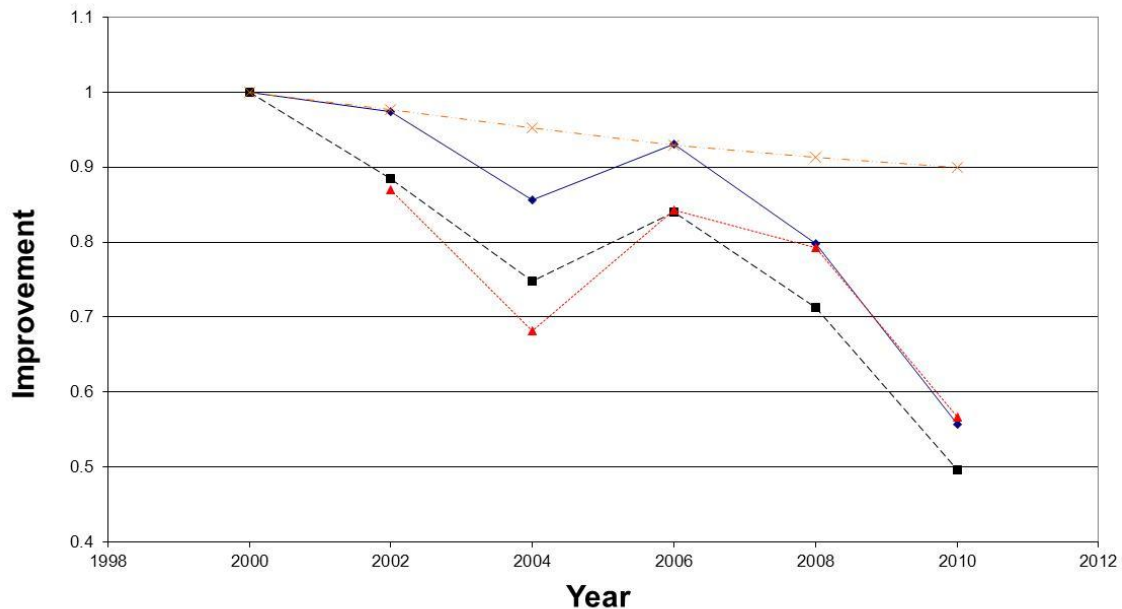
<sup>11</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	2.5%	11%
TP2	14%	25%
TP3	6.9%	16%
TP4	20%	29%
TP5	44%	50%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BCC05 TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

### Impact of the sector performance

#### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.2	-12
TP2	-0.6	-28
TP3	-0.3	-14
TP4	-0.8	-40
TP5	-1.4	-77

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

#### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	Energy (PJ)	Energy (PJ)
TP1	-0.1	-3	9
TP2	-0.4	-22	6
TP3	-0.1	-5	11
TP4	-1.2	-65	-15
TP5	-2.7	-143	-30

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## CHEMICAL (CHEMICAL INDUSTRIES ASSOCIATION - CIA)

### Scope and membership of the umbrella agreement

The chemicals sector covers a range of activities from continuous bulk chemical operations to small batch production of speciality chemicals. The agreement is operated through CIABATA, a wholly owned subsidiary of the Chemical Industries Association.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed as an energy efficiency improvement ratio. The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010)
<b>Original</b>	1	0.877	0.850	0.835	0.822	0.817
<b>At TP1</b>	1	0.908	0.879	0.864	0.850	0.845
<b>2004 Review*</b>	-	-	-	3.6%	3.5%	4.0%
<b>At TP2</b>	1	-	0.879	0.832	0.819	0.810
<b>At TP3</b>	1	-	-	0.820	0.808	0.801
<b>2008 Review*</b>	-	-	-	-	-	0%
<b>At TP4</b>	1	-	-	-	0.806	0.799
<b>At TP5</b>	1	-	-	-	-	0.810

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The sector targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews. The 2008 review also includes agreement to remove the facility to apply the NOVEM method asymmetrically at target unit level – based on TP4 throughput levels, this rule change is equivalent to a target tightening of 127 ktCO<sub>2</sub> (35ktC) or 1.2%.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 348 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 2,026 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 1,678 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change

(tightening) of -0.004 units.

A double counting adjustment was made (see details below).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 0.800. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -0.010.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>12</sup> baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (TJ)	Production	Energy Efficiency Ratio (EER)	Energy (TJ)	Production	Energy Efficiency Ratio (EER)
<b>TP1</b>	322,823	N/A	1	288,073	N/A	0.855
<b>TP2</b>	308,449	N/A	1	279,203	N/A	0.805
<b>TP3</b>	269,979	N/A	1	230,377	N/A	0.799
<b>TP4</b>	261,510	N/A	1	203,898	N/A	0.814
<b>TP5</b>	275,522	N/A	1	200,696	N/A	0.794

### Adjustment for overlap with EU ETS

67 Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

58 Target Units had their targets tightened due to double counting and 9 had their targets eased. Overall, there was an EU ETS surplus of 1,737 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA target of -0.13. This is included within the adjusted target described above.

### Commentary

The sector performance of 0.794 is below the CCA adjusted target of 0.800 and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

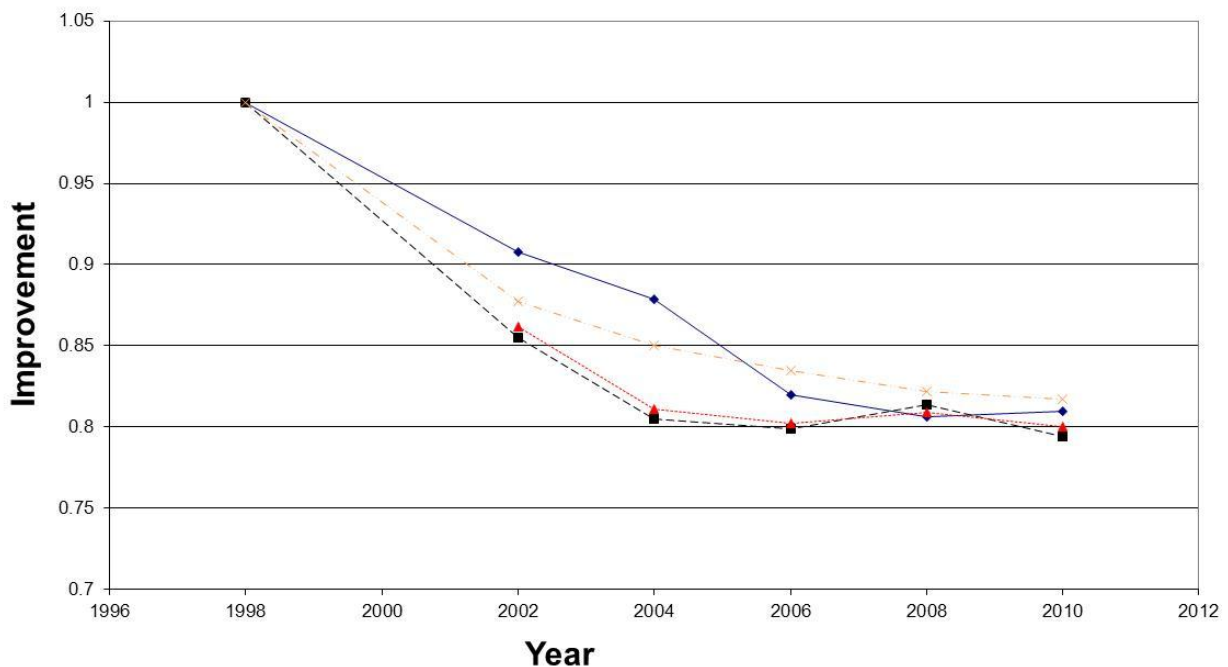
<sup>12</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in EER compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	9.2%	15%
TP2	12%	20%
TP3	18%	20%
TP4	19%	19%
TP5	19%	21%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### CIA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-49	-2,500
TP2	-68	-3,524
TP3	-58	-2,977
TP4	-47	-2,398
TP5	-52	-2,686

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	Energy (PJ)	Energy (PJ)
TP1	-35	-2,000	N/A
TP2	-29	-1,520	N/A
TP3	-40	-2,031	N/A
TP4	-58	-2,958	N/A
TP5	-75	-3,855	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## CLEVELAND POTASH LTD (CPL)

### Scope and membership of the umbrella agreement

This agreement is a single company agreement with Cleveland Potash Ltd, covering the production of potassium chloride from Sylvinite (potassium chloride ore), containing a mixture of potassium chloride, sodium chloride, clay and anhydrite, by sub-surface mining followed by separation and purification. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4).

This sector has Target Units with installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
Original	735.47	-	-	-	706.05	661.92
At TP4	735.47	-	-	-	706.05	661.92
At TP5	735.47	-	-	-	-	661.92

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 105 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 105 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 1,235.43 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (easing) of 573.51 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>13</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP4</b>	662,742,306	901,113	735.47	613,010,690	765,182	801.13
<b>TP5</b>	662,742,306	901,113	735.47	508,401,825	420,055	1,210.32

### Adjustment for overlap with EU ETS

The Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

There was an EU ETS excess of 63 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -853.54 kWh<sub>p</sub>/t.

### Commentary

The sector performance of 1,210.32 kWh<sub>p</sub>/t is below the CCA adjusted target of 1,235.43 kWh<sub>p</sub>/t and, therefore, the sector has met its target. The facility has been recertified as the sector has met its target.

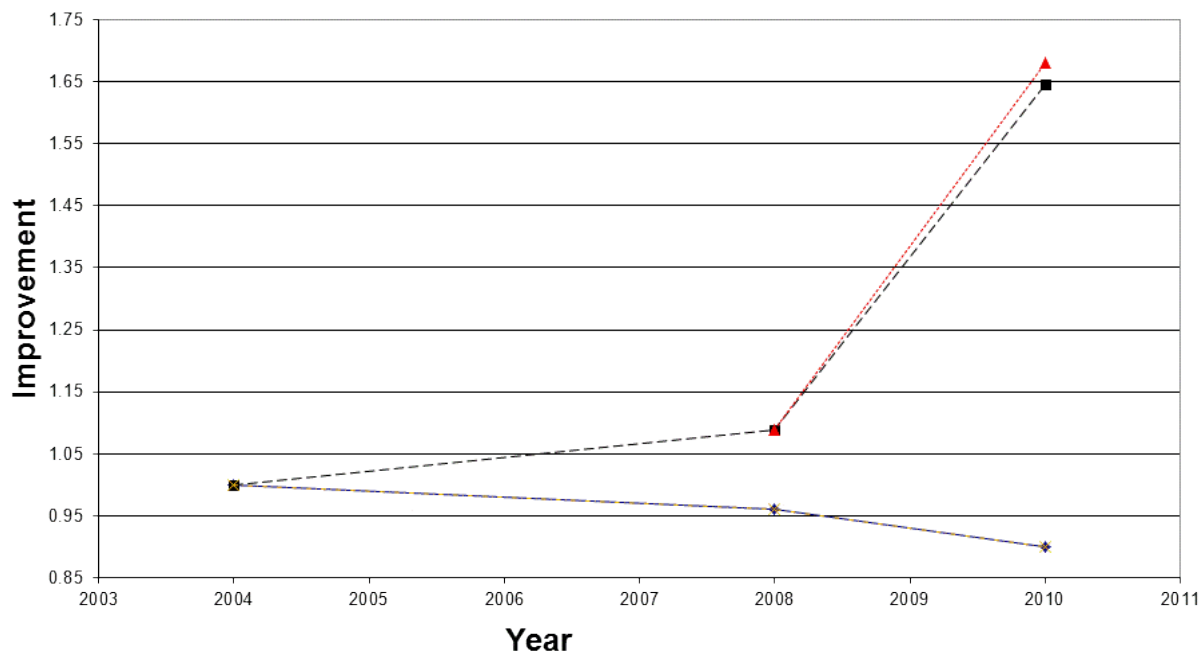
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP4</b>	4.0%	-8.9%
<b>TP5</b>	10%	-65%

<sup>13</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**  
**CPL TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The ‘target profile’ reflects the data as detailed in the **Targets** section.

The ‘target after adjustments’ reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP4	0.2	9
TP5	0.7	35

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**Absolute energy/CO<sub>2</sub>**

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP4</b>	-0.2	-9	-15%
<b>TP5</b>	-0.6	-27	-53%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## COLD STORES (FOOD STORAGE AND DISTRIBUTION FEDERATION - FSDF)

### Scope and membership of the umbrella agreement

This sector consists of logistics companies that own cold storage facilities whose predominant function is temperature-controlled storage below ambient temperature. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per metre cubed (kWh<sub>p</sub>/m<sup>3</sup>). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2006 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /m <sup>3</sup> )	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008) (kWh <sub>p</sub> /m <sup>3</sup> )	TP5(2010) (kWh <sub>p</sub> /m <sup>3</sup> )
<b>Original</b>	93.43	N/A	N/A	N/A	88.76	82.22
<b>At TP4</b>	102.37	N/A	N/A	N/A	98.16	90.09
<b>At TP5</b>	141.41	-	-	-	-	124.23

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 12.5 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 24.5 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 12 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 3.551 kWh<sub>p</sub>/m<sup>3</sup> (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 127.78 kWh<sub>p</sub>/m<sup>3</sup>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>14</sup> baseline for all target periods to date.

	Equivalent baseline (2006)			Performance		
	Energy (kWh <sub>p</sub> )	Production (m <sup>3</sup> )	SEC (kWh <sub>p</sub> /m <sup>3</sup> )	Energy (kWh <sub>p</sub> )	Production (m <sup>3</sup> )	SEC (kWh <sub>p</sub> /m <sup>3</sup> )
<b>TP4</b>	1,945,435,070	19,003,534	102.37	1,856,586,095	19,067,412	97.37
<b>TP5</b>	2,868,435,245	20,285,054	141.41	2,545,225,320	20,590,669	123.61

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 123.61 kWh<sub>p</sub>/m<sup>3</sup> is below the CCA adjusted target of 127.78 kWh<sub>p</sub>/m<sup>3</sup>, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2006) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

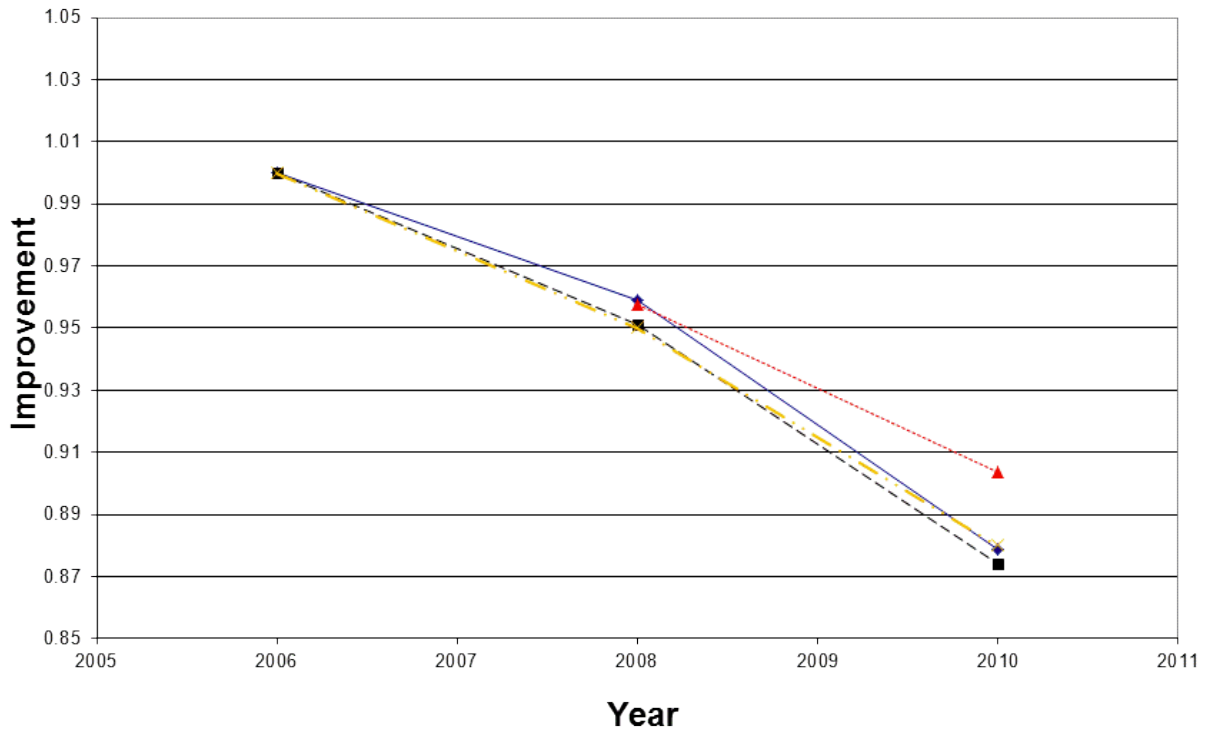
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP4</b>	4.1%	4.9%
<b>TP5</b>	12%	13%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>14</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

### Graph of performance and current targets relative to the base year

#### CSDF TP5 Performance



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base-year (2006) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP4</b>	-0.3	-16
<b>TP5</b>	-1.3	-61

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2006) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP4</b>	-0.3	-15	0.3
<b>TP5</b>	-1.2	-54	1.5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.



## CRAFT BAKING (NATIONAL ASSOCIATION OF MASTER BAKERS – NAMB/SAMB)

### Scope and membership of the umbrella agreement

The Master Bakers sector is represented by the National Association of Master Bakers (NAMB) throughout the UK, except for Scotland where the Scottish Association of Master Bakers (SAMB) represents the sector. The agreement covers the craft baking industry, which is generally distinguished from industrial bakeries by a smaller scale of operation, a greater range of products produced by individual sites and the linking of bakery operations with dedicated high-street shops.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh per £k added value (kWh<sub>p</sub>/£k). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /£k)	TP1(2002) (kWh <sub>p</sub> /£k)	TP2(2004) (kWh <sub>p</sub> /£k)	TP3(2006) (kWh <sub>p</sub> /£k)	TP4(2008) (kWh <sub>p</sub> /£k)	TP5(2010) (kWh <sub>p</sub> /£k)
<b>Original</b>	1,664.4	1,643.3	1,614.0	1,590.9	1,561.6	1,532.2
<b>At TP1</b>	1,678.9	1,659.1	1,631.2	1,608.8	1,580.7	1,552.7
<b>2004 Review*</b>	-	-	-	18.0%	20.0%	22.1%
<b>At TP2</b>	1,679.0	-	1,632.7	1,320.0	1,265.0	1,210.0
<b>At TP3</b>	1,657.3	-	-	1,233.4	1,182.3	1,130.9
<b>2008 Review*</b>	-	-	-	-	-	2.0%
<b>At TP4</b>	1,663.5	-	-	-	1,197.7	1,122.5
<b>TP5</b>	1,648.6	-	-	-	-	1,067.7

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 16 ktCO<sub>2</sub> were purchased

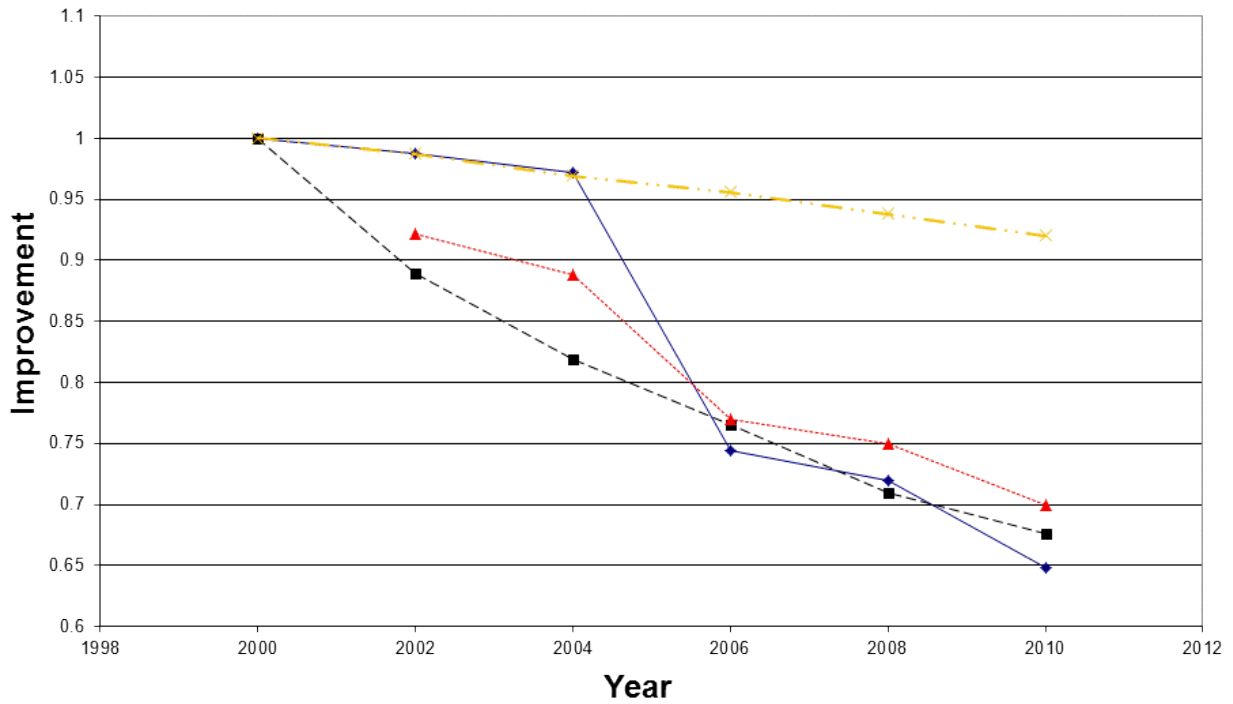
Overall there was a net purchase of 16 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 84.8 kWh<sub>p</sub>/£k (Note - figures rounded for presentation).

<b>Other adjustments</b>						
N/A						
<b>Final adjusted CCA sector target for the TP5</b>						
As a consequence of the adjustments described, the final sector target for the TP5 was 1,152.5 kWh/£k added value.						
<b>Sector performance recorded</b>						
The following table shows the sector performance against the equivalent <sup>15</sup> baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (£k)	SEC (kWh/£k)	Energy (kWh)	Production (£k)	SEC (kWh/£k)
TP1	1,180,917,147	703,388	1,678.9	1,235,688,419	827,193	1,493.8
TP2	1,195,096,773	711,777	1,679.0	1,363,756,706	991,595	1,375.3
TP3	1,137,375,882	686,298	1,657.3	1,325,256,615	1,045,156	1,268.0
TP4	1,055,836,555	634,717	1,663.5	1,310,009,664	1,110,241	1,179.9
TP5	1,082,925,024	656,875	1,648.6	1,215,953,994	1,090,478	1,115.1
<b>Adjustment for overlap with EU ETS</b>						
No target units reporting at TP5 are part of EU ETS, so no adjustments were required.						
<b>Commentary</b>						
<p>The sector performance of 1,115.1 kWh/£k added value is below the CCA adjusted target of 1,152.5 kWh/£k added value and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.</p> <p>The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).</p>						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
TP1	1.2%			11%		
TP2	2.8%			18%		
TP3	26%			23%		
TP4	28%			29%		
TP5	35%			32%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

<sup>15</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

NAMB TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.6	-27
TP2	-1.1	-52
TP3	-1.5	-71
TP4	-1.9	-93
TP5	-2.1	-101

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	0.2	9	18
TP2	0.6	29	39
TP3	0.7	33	52
TP4	0.9	44	75
TP5	0.5	23	66

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## DAIRY PROCESSING (DAIRY UK)

### Scope and membership of the umbrella agreement

The agreement with the dairy industry is with Dairy Energy Savings Ltd (established by Dairy UK, formerly the Dairy Industry Association). The agreement covers the majority of the UK production of dairy produce from raw milk and raw-milk products.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	553.16	469.57	458.89	454.41	449.65	444.76
<b>At TP1</b>	552.86	478.22	466.88	462.03	456.81	451.46
<b>2004 Review*</b>	-	-	-	2.25%	3.5%	4.5%
<b>At TP2</b>	554.85	-	484.52	470.18	459.20	449.48
<b>At TP3</b>	525.94	-	-	457.88	447.10	437.52
<b>2008 Review*</b>	-	-	-	-	-	7.25%
<b>At TP4</b>	511.31	-	-	-	453.63	410.72
<b>At TP5</b>	540.42	-	-	-	-	418.88

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 9 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 93 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 84 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 429.59 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (easing) of 10.71 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>16</sup> baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (kWh)	Production (t)	SEC (kWhp/t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	5,035,411,314	9,107,919	552.86	4,738,092,300	10,329,975	458.67
<b>TP2</b>	4,709,490,251	8,487,856	554.85	4,606,223,806	10,049,414	458.36
<b>TP3</b>	4,228,213,890	8,039,301	525.94	4,169,236,378	9,938,564	419.50
<b>TP4</b>	4,150,745,904	8,117,841	511.31	3,937,516,187	9,818,787	401.02
<b>TP5</b>	4,147,716,299	7,675,055	540.42	3,773,467,871	9,679,268	389.85

### Adjustment for overlap with EU ETS

Twelve Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Ten Target Units had their targets tightened due to double counting and two had their targets eased. Overall, there was an EU ETS excess of 65 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA target of –35.76 kWh<sub>p</sub>/t. This is included within the adjusted target described.

### Commentary

The sector performance of 389.85 kWh<sub>p</sub>/t is below the CCA adjusted target of 429.59 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance).

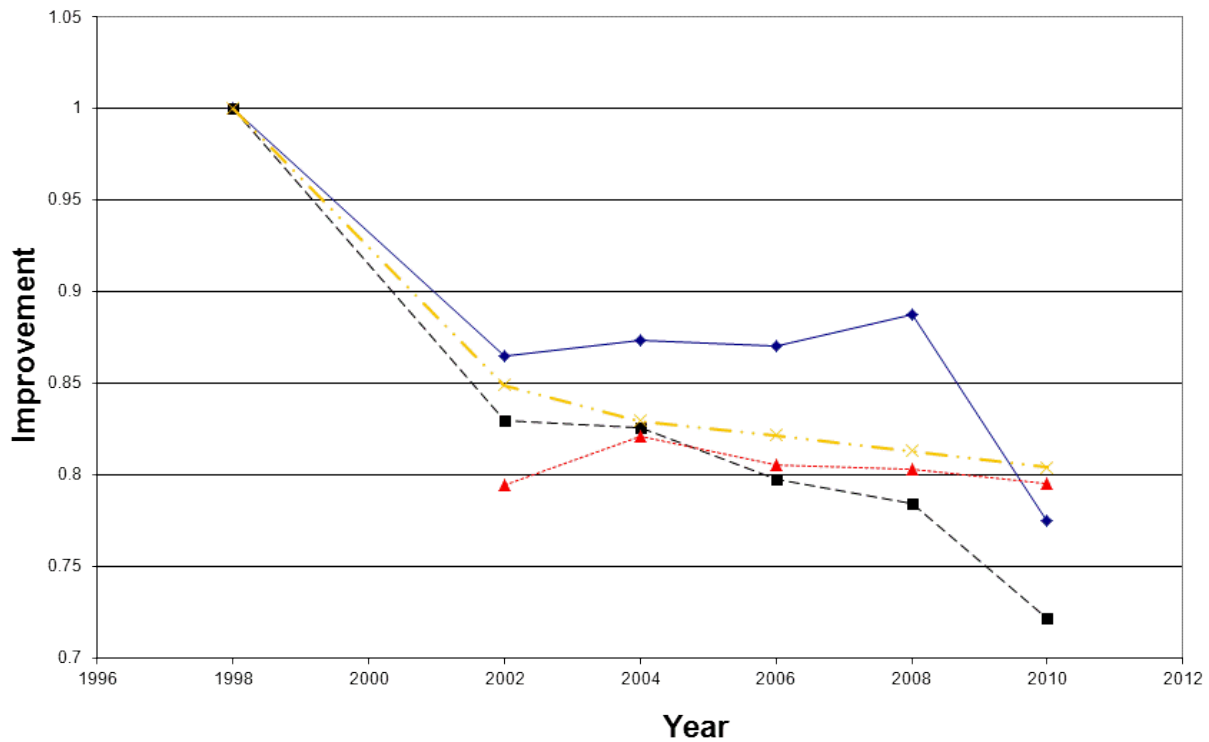
<sup>16</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	14%	17%
TP2	13%	17%
TP3	13%	20%
TP4	11%	22%
TP5	22%	28%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### Dairy TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-3.5	-190
TP2	-3.5	-186
TP3	-3.8	-202
TP4	-3.9	-206
TP5	-5.2	-273

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-1.1	-58	13
TP2	-0.4	-20	18
TP3	-0.2	-11	24
TP4	-0.8	-40	21
TP5	-1.3	-70	26

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## EGG PROCESSING (BRITISH EGG PRODUCTS ASSOCIATION - BEPA)

### Scope and membership of the umbrella agreement

The BEPA agreement covers all the major producers of egg products. Production includes liquid and frozen egg, mayonnaise, boiled eggs and other cooked-egg products. This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per kilogram of product (kWh<sub>p</sub>/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent baseline for this sector as originally agreed and at each target period (TP) to date. (Participants have different baselines from 1995, which is used here as the nominal baseline year.)

	Baseline (kWh <sub>p</sub> /kg)	TP1(2002) (kWh <sub>p</sub> /kg)	TP2(2004) (kWh <sub>p</sub> /kg)	TP3(2006) (kWh <sub>p</sub> /kg)	TP4(2008) (kWh <sub>p</sub> /kg)	TP5(2010) (kWh <sub>p</sub> /kg)
<b>Original</b>	1.119	1.041	1.022	1.007	0.990	0.970
<b>At TP1</b>	1.245	1.118	1.096	1.079	1.061	1.038
<b>2004 Review*</b>	-	-	-	11.7%	16.1%	17.2%
<b>At TP2</b>	1.024	-	0.946	0.822	0.764	0.738
<b>At TP3</b>	1.033	-	-	0.829	0.771	0.744
<b>2008 Review*</b>	-	-	-	-	-	7.0%
<b>At TP4</b>	1.052	-	-	-	0.784	0.704
<b>At TP5</b>	1.021	-	-	-	-	0.683

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

N/A

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 0.683 kWh<sub>p</sub>/kg.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>17</sup> baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)
<b>TP1</b>	87,104,013	69,981,317	1.245	76,870,542	95,611,282	0.804
<b>TP2</b>	72,159,168	70,433,832	1.024	74,059,388	93,372,494	0.793
<b>TP3</b>	72,222,021	69,900,837	1.033	81,163,635	107,904,837	0.752
<b>TP4</b>	68,224,883	64,849,091	1.052	79,139,997	97,136,220	0.815
<b>TP5</b>	66,204,105	64,849,091	1.021	86,033,803	132,341,751	0.650

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 0.650 kWh<sub>p</sub>/kg is below the CCA adjusted target of 0.683 kWh<sub>p</sub>/kg and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

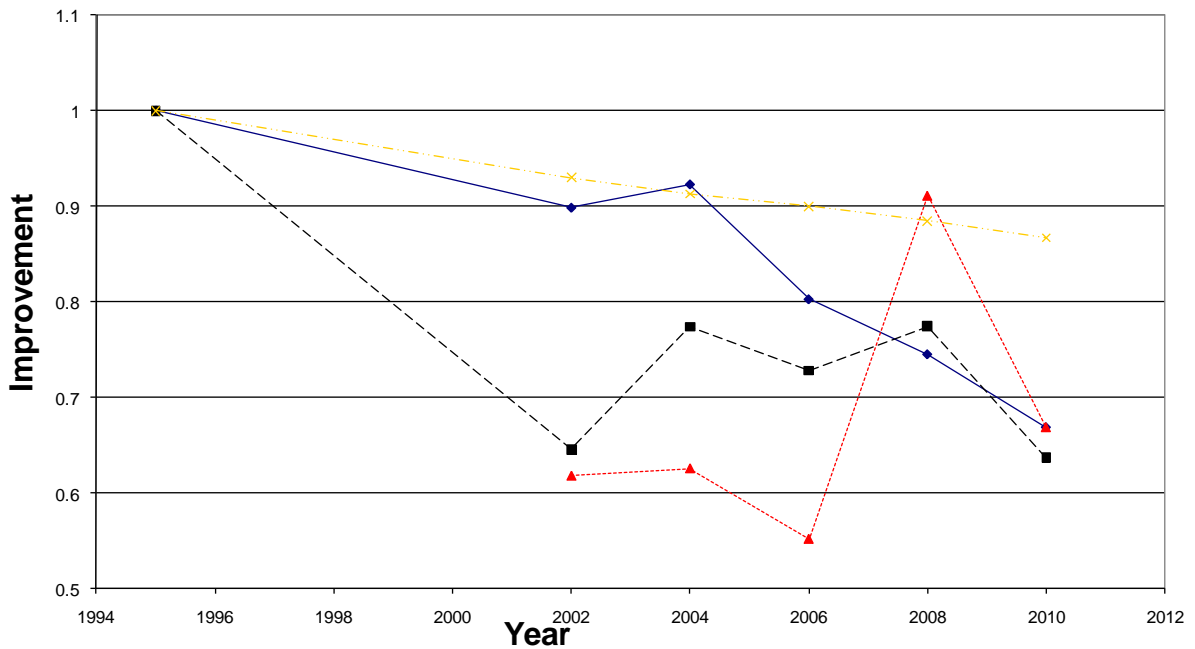
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	10%	35%
<b>TP2</b>	8%	23%
<b>TP3</b>	20%	27%
<b>TP4</b>	25%	23%
<b>TP5</b>	33%	36%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>17</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BEPA TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.2	-8
TP2	-0.1	-4
TP3	-0.1	-5
TP4	-0.1	-4
TP5	-0.2	-9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/ emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.04	-1.8	37
TP2	0.01	0.3	33
TP3	0.03	1.6	54
TP4	0.04	2.0	50
TP5	0.07	3.5	104

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## EGG PRODUCTION (NATIONAL FARMERS UNION – NFU)

### Scope and membership of the umbrella agreement

The NFU egg agreement covers sites undertaking the production of eggs from birds under cage, barn and free-range production systems. The agreement was developed with the close involvement of the British Egg Industry Council.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per dozen eggs (kWh<sub>p</sub>/doz). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> / doz)	TP1(2002) (kWh <sub>p</sub> / doz)	TP2(2004) (kWh <sub>p</sub> / doz)	TP3(2006) (kWh <sub>p</sub> / doz)	TP4(2008) (kWh <sub>p</sub> / doz)	TP5(2010) (kWh <sub>p</sub> / doz)
<b>Original</b>	0.410	0.390	0.380	0.370	0.362	0.354
<b>At TP1</b>	0.410	0.390	0.380	0.370	0.362	0.354
<b>2004 Review*</b>	-	-	-	32.0%	34.2%	36.6%
<b>At TP2</b>	0.480	-	0.440	0.291	0.275	0.260
<b>At TP3</b>	0.449	-	-	0.273	0.258	0.243
<b>2008 Review*</b>	-	-	-	-	-	0%
<b>At TP4</b>	0.515	-	-	-	0.315	0.297
<b>At TP5</b>	0.515	-	-	-	-	0.294

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 2 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 7 ktCO<sub>2</sub> were purchased

Overall, there was a net purchase of 4 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 0.029 kWh<sub>p</sub>/doz (Note – figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 0.323kWh<sub>p</sub>/doz.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>18</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (doz)	SEC (kWh <sub>p</sub> /doz)	Energy (kWh)	Production (doz)	SEC (kWh <sub>p</sub> /doz)
<b>TP1*</b>	349,642,976	804,715,349	0.434	293,815,082	873,972,712	0.336
<b>TP2</b>	296,220,626	617,543,595	0.480	271,323,266	883,576,085	0.307
<b>TP3</b>	258,165,758	575,195,504	0.449	235,153,204	804,275,538	0.292
<b>TP4</b>	305,997,977	594,577,431	0.515	218,551,400	781,344,070	0.280
<b>TP5</b>	300,223,569	583,403,836	0.515	209,090,624	796,098,467	0.263

\* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 0.263kWh<sub>p</sub>/doz is below the CCA adjusted target of 0.323 kWh<sub>p</sub>/doz, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Change in SEC compared with Equivalent Baseline at each Target period	
	Target Improvement	Actual Improvement
<b>TP1</b>	4.9%	18%
<b>TP2</b>	8.2%	36%
<b>TP3</b>	39%	35%
<b>TP4</b>	39%	46%
<b>TP5</b>	43%	49%

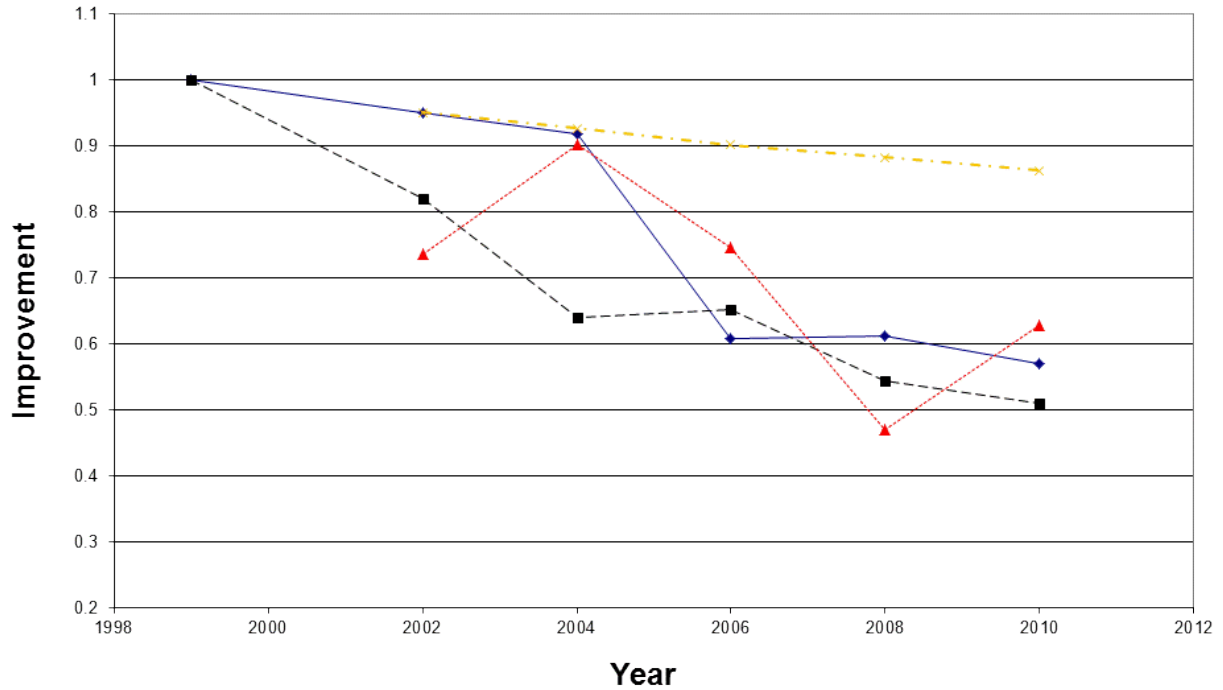
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

\* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

<sup>18</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary

Graph of performance and current targets relative to the base year

NFU Eggs TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput had remained constant at the target period throughput level. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Annual Change in Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.3	-15
TP2	-0.5	-27
TP3	-0.5	-22
TP4	-0.7	-32
TP5	-0.7	-36

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Annual Change in Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.2	-10	8
TP2	-0.1	-4	43
TP3	-0.1	-4	40
TP4	-0.3	-15	31
TP5	-0.3	-16	36

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## FOOD & DRINK (FOOD & DRINK FEDERATION - FDF)

### Scope and membership of the umbrella agreement

The FDF agreement covers a substantial proportion of the UK food and drink manufacturing industry, though some specific sectors of the industry are covered by other agreements.

This sector has Target Units that have installations in the EU ETS.

### Targets

The targets for this sector are given in primary kWh per tonne of throughput (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	1,043.7	962.7	942.8	922.9	911.6	899.6
<b>At TP1</b>	1,046.5	959.3	935.0	915.0	903.3	890.9
<b>2004 Review*</b>	-	-	-	2%	2.5%	3%
<b>At TP2</b>	1,045.9	-	945.3	910.1	895.2	875.8
<b>At TP3</b>	1,044.6	-	-	908.4	903.5	883.8
<b>2008 Review*</b>	-	-	-	-	-	4.5%
<b>At TP4</b>	1018.7	-	-	-	882.2	828.5
<b>At TP5</b>	1035.7	-	-	-	-	859.2

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 441 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 671 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 230 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 860.5 kWh/t. This includes adjustment for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (tightening) of 1.3 kWh/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>19</sup> baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh/t)	Energy (kWh)	Production (tonnes)	SEC (kWh/t)
<b>TP1</b>	36,724,520,644	35,090,995	1,046.6	35,405,926,764	37,501,136	944.1
<b>TP2</b>	36,106,722,124	34,521,949	1,045.9	35,222,598,428	37,534,208	938.4
<b>TP3</b>	33,432,358,654	32,006,215	1,044.6	32,558,910,722	36,483,474	892.4
<b>TP4</b>	31,937,311,336	31,351,145	1,018.7	31,768,383,398	37,196,303	854.1
<b>TP5</b>	31,098,223,334	30,026,894	1,035.7	30,135,587,818	37,000,107	814.5

### Adjustment for overlap with EU ETS

30 Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Twenty three Target Units had their targets tightened due to double counting and seven had their targets eased.

Overall, there was an EU ETS surplus of 221 kt CO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA sector target of 33.8 kWh/t. This is included within the adjusted target described.

### Commentary

The sector performance of 814.5 kWh<sub>p</sub>/t is below the CCA adjusted target of 860.5 kWh/t kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

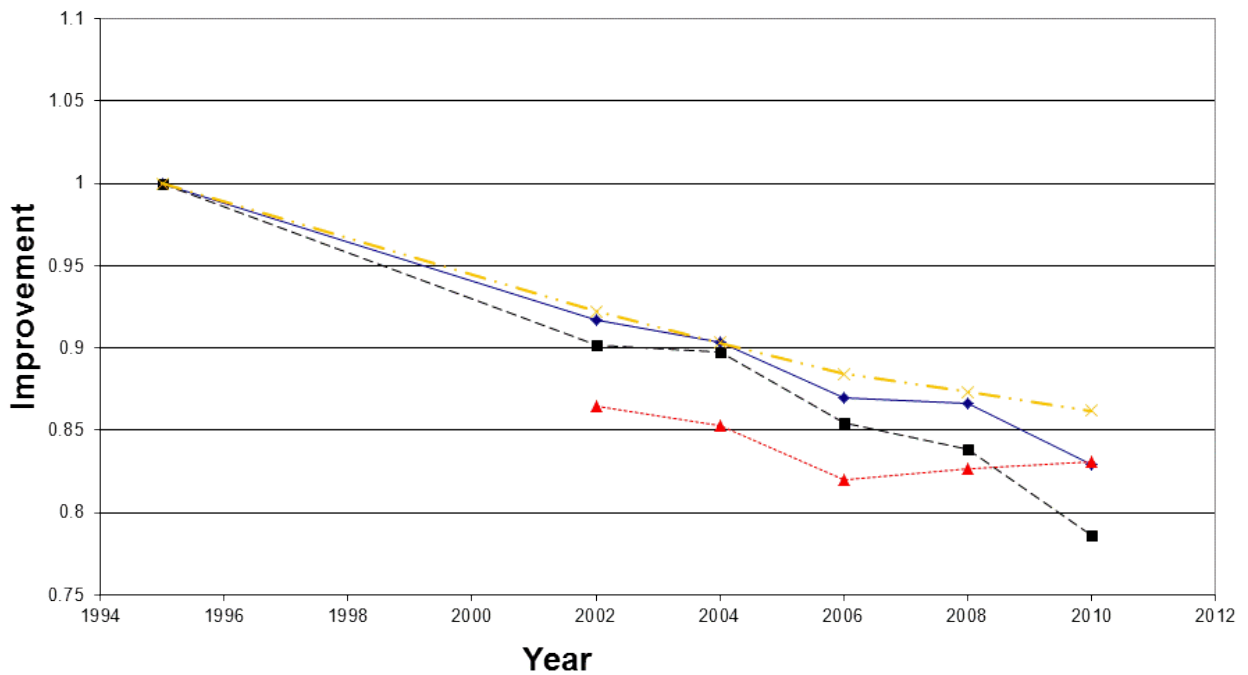
<sup>19</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	8.3%	9.8%
TP2	9.6%	10%
TP3	13%	14%
TP4	13%	16%
TP5	17%	21%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### FDF TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-14	-620
TP2	-15	-732
TP3	-20	-1,000
TP4	-22	-1,102
TP5	-29	-1449

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-4.7	-160	7
TP2	-3.2	-161	9
TP3	-3.1	-157	14
TP4	-0.6	-30	19
TP5	-3.5	-170	23

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## FOUNDRIES (T2010)

### Scope and membership of the umbrella agreement

Target 2010 is a company set up by the foundry industry to represent it for the purposes of the Climate Change Agreement (CCA). The sector covers ferrous and non-ferrous foundries in the UK.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	6,622	6,566	6,420	6,259	6,100	5,941
<b>At TP1</b>	6,622	6,507	6,371	6,229	6,078	5,901
<b>2004 Review*</b>	-	-	-	0%	0%	0%
<b>At TP2</b>	6,773	-	6,520	6,372	6,221	6,043
<b>At TP3</b>	6,764	-	-	6,385	6,239	6,068
<b>2008 Review*</b>	-	-	-	-	-	1.0%
<b>At TP4</b>	7,442	-	-	-	6,881	6,621
<b>At TP5</b>	7,380	-	-	-	-	6,568

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 38 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 85 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 47 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 559 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

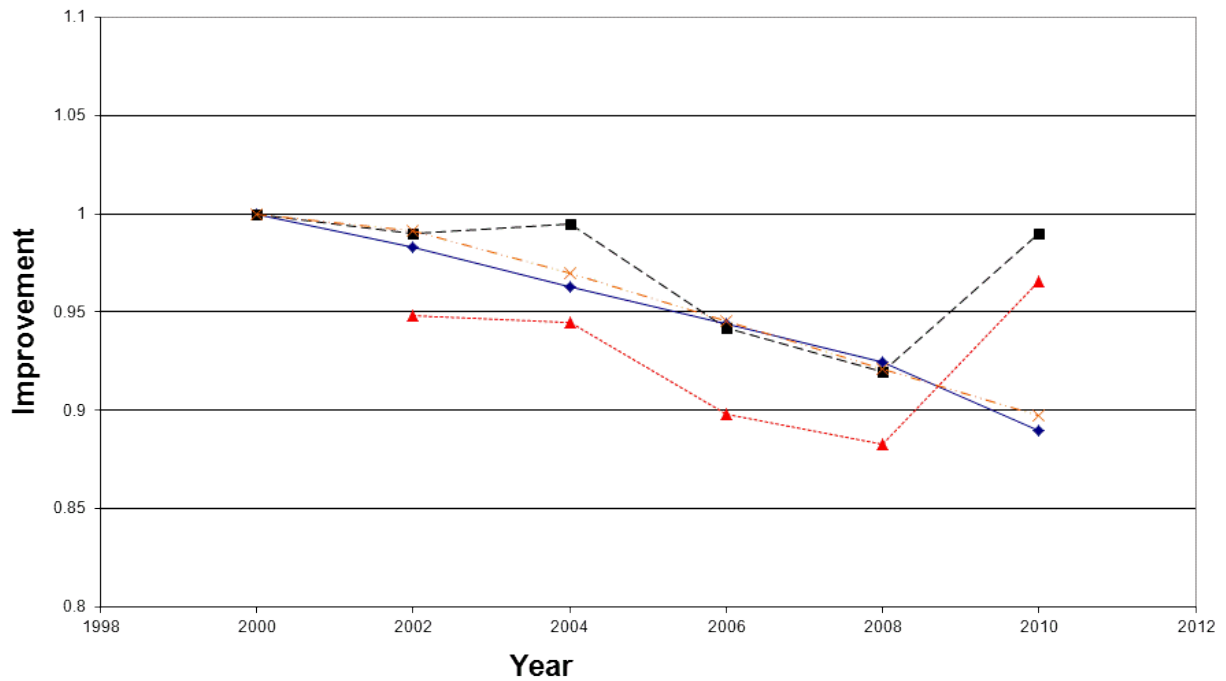
N/A

<b>Final adjusted CCA sector target for the TP5</b>						
As a consequence of the adjustments described, the final sector target for the TP5 was 7,127 kWh <sub>p</sub> /t.						
<b>Sector performance recorded</b>						
The following table shows the sector performance against the equivalent <sup>20</sup> baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	8,383,063,050	1,266,027	6,622	7,676,413,049	1,171,224	6,554
<b>TP2</b>	7,427,272,587	1,096,659	6,773	6,836,488,394	1,014,934	6,736
<b>TP3</b>	5,863,361,042	866,812	6,764	5,452,151,638	855,708	6,372
<b>TP4</b>	4,365,661,077	586,644	7,442	4,148,987,927	606,285	6,843
<b>TP5</b>	4,196,205,714	568,569	7,380	3,457,011,730	473,262	7,127
<b>Adjustment for overlap with EU ETS</b>						
No target units reporting at TP5 are part of EU ETS, so no adjustments were required.						
<b>Commentary</b>						
The sector performance of 7,305 kWh <sub>p</sub> /t is above the CCA adjusted target of 7,127 kWh <sub>p</sub> /t and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base-year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
<b>TP1</b>	1.7%			1.0%		
<b>TP2</b>	3.7%			0.5%		
<b>TP3</b>	5.6%			5.8%		
<b>TP4</b>	7.5%			8.0%		
<b>TP5</b>	11%			1.0%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

<sup>20</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

T2010 TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base-year (2000) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.3	-16
TP2	-0.1	-7
TP3	-1.2	-62
TP4	-1.3	-65
TP5	-0.1	-6

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base-year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-2.5	-139	-7
TP2	-2.1	-114	-7
TP3	-1.5	-76	-1
TP4	-0.8	-39	3
TP5	-2.7	-131	-17

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## GEOTEXTILES (BRITISH NON-WOVEN MANUFACTURERS' ASSOCIATION - BNMA)

### Scope and membership of the umbrella agreement

The BNMA represents three companies, Terram, Tensar International and ABG, which specialise in the manufacture of geotextiles that are used to stabilise structures such as embankments or roads. This Climate Change Agreement (CCA) is an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002)	TP2(2004)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
Original	3,535.09	N/A	N/A	3,464.39	3,287.63	3,181.58
At TP3	3,535.09	N/A	N/A	3,464.39	3,287.63	3,181.58
2008 Review*	-	-	-	-	-	0%
At TP4	3,471.42	-	-	-	3,228.41	3,124.27
At TP5	3,453.28	-	-	-	-	3,107.94

\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 1 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 1 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 218.19 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 3,326.13 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>21</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> /t)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> /t)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)
<b>TP3</b>	131,812,924	37,287	3,535.09	131,092,217	38,212	3,430.66
<b>TP4</b>	138,117,197	39,787	3,471.42	105,493,094	38,414	2,746.19
<b>TP5</b>	138,117,197	39,996	3,453.28	91,544,170	30,519	2,999.60

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 2,999.60 kWh<sub>p</sub>/t is below the CCA adjusted target of 3,326.13 kWh<sub>p</sub>/t, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

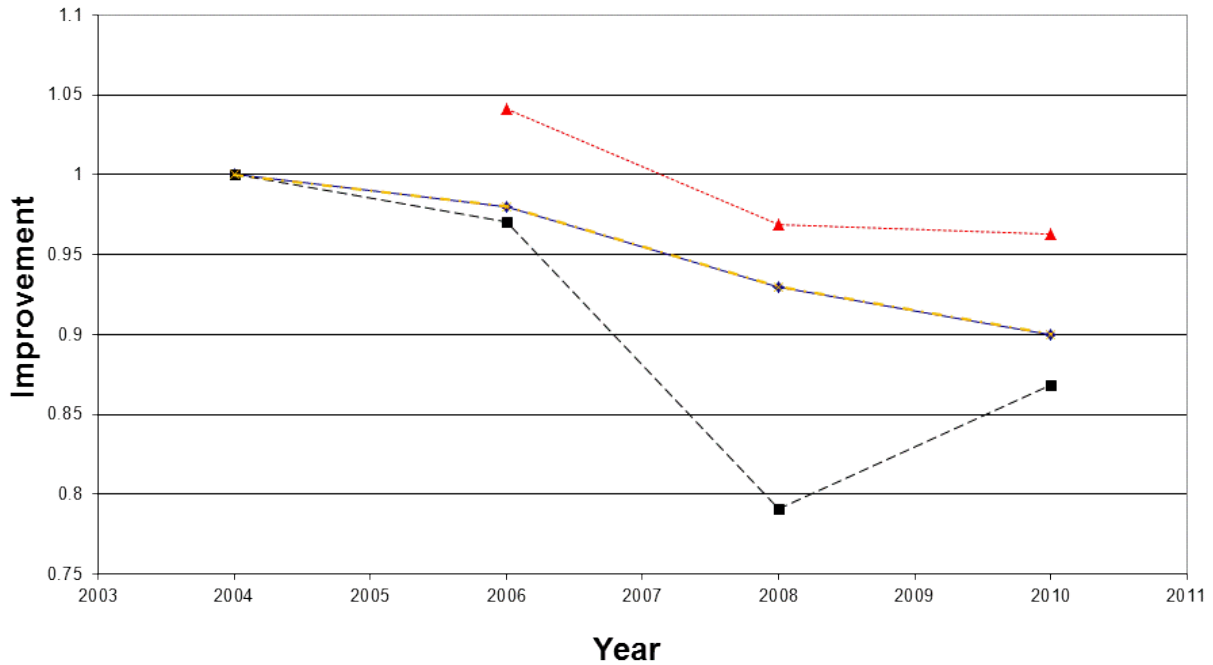
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP3</b>	2.0%	3.0%
<b>TP4</b>	7.0%	21%
<b>TP5</b>	10%	13%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>21</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**  
**BNMA TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP3</b>	-0.01	-0.7
<b>TP4</b>	-0.10	-5
<b>TP5</b>	-0.05	-2

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP3</b>	-0.003	-0.1	2
<b>TP4</b>	-0.12	-6	-3
<b>TP5</b>	-0.17	-8	-24

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## GLASS (BRITISH GLASS MANUFACTURERS' CONFEDERATION - BGMC)

### Scope and membership of the umbrella agreement

British Glass represents the glass manufacturing industry in the UK, including all processes manufacturing molten glass from raw materials ('batch').

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary MWh per tonne of glass packed/processed (MWh<sub>p</sub>/t packed). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (MWh <sub>p</sub> /t packed)	TP1(2002) (MWh <sub>p</sub> /t packed)	TP2(2004) (MWh <sub>p</sub> /t packed)	TP3(2006) (MWh <sub>p</sub> /t packed)	TP4(2008) (MWh <sub>p</sub> /t packed)	TP5(2010) (MWh <sub>p</sub> /t packed)
<b>Original</b>	3.87	3.76	3.66	3.56	3.48	3.51
<b>At TP1</b>	3.82	3.67	3.57	3.49	3.41	3.41
<b>2004 Review*</b>	-	-	-	1.0%	2.0%	3.5%
<b>At TP2</b>	3.69	-	3.48	3.38	3.26	3.22
<b>At TP3</b>	3.47	-	-	3.18	3.03	2.97
<b>2008 Review*</b>	-	-	-	-	-	0.76%
<b>At TP4</b>	3.34	-	-	-	2.94	2.86
<b>At TP5</b>	3.32	-	-	-	-	2.84

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 715 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 715 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 3.18 MWh<sub>p</sub>/t packed. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (easing) of 0.34 MWh<sub>p</sub>/t packed.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>22</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (MWh)	Production (t)	SEC (MWh/t)	Energy (MWh)	Production (t)	SEC (MWh/t)
<b>TP1</b>	10,791,920	2,825,520	3.82	10,584,079	3,122,034	3.39
<b>TP2</b>	10,201,009	2,762,995	3.69	10,460,867	3,200,623	3.27
<b>TP3</b>	10,289,692	2,964,901	3.47	10,321,979	3,314,355	3.11
<b>TP4</b>	9,702,314	2,901,879	3.34	10,362,337	3,397,075	3.05
<b>TP5</b>	9,582,846	2,887,783	3.32	9,614,332	3,055,947	3.15

### Adjustment for overlap with EU ETS

Eleven Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

One Target Unit had its target eased due to double counting. The other ten Target Units had their targets tightened. Overall there was an EU ETS surplus of 520 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of 0.91 MWh/t packed. This is included within the adjusted target described previously.

### Commentary

The sector performance of 3.15 MWh<sub>p</sub>/t packed is below the CCA adjusted target of 3.18 MWh<sub>p</sub>/t packed and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

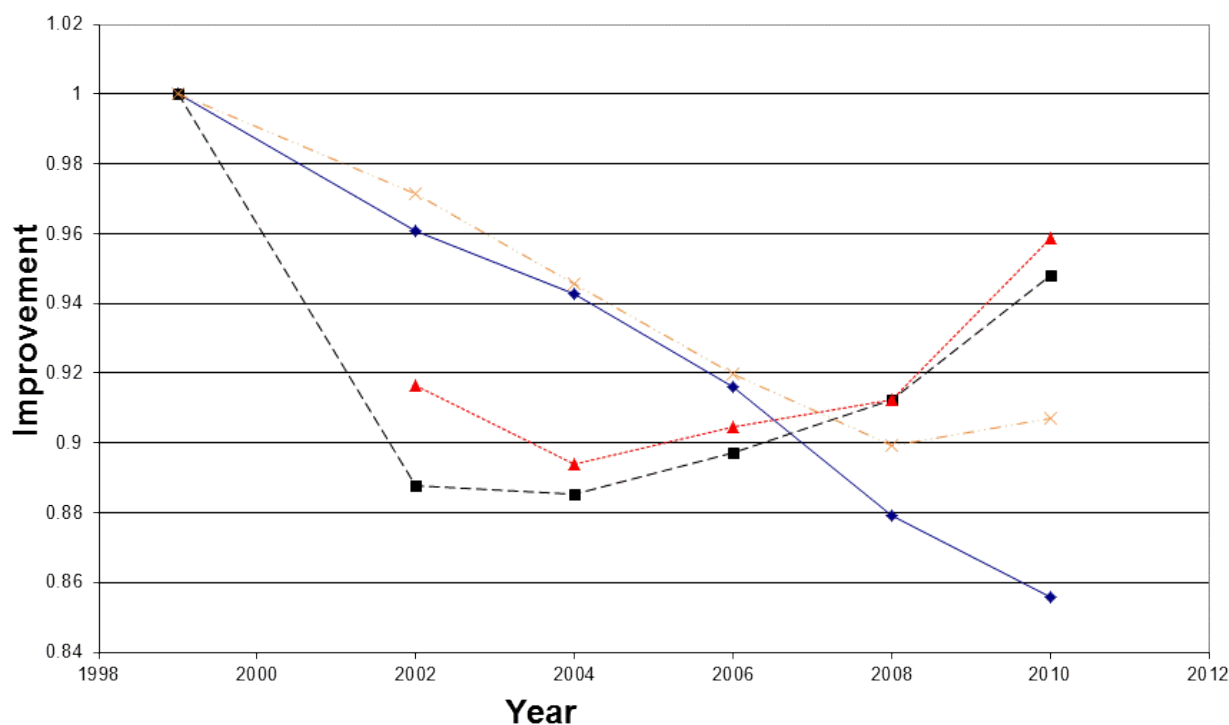
<sup>22</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	3.9%	11%
TP2	5.7%	11%
TP3	8.4%	10%
TP4	12%	8.8%
TP5	14%	5.2%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BGMC TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-4.8	-250
TP2	-4.9	-253
TP3	-4.3	-226
TP4	-3.6	-186
TP5	-1.9	-98

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.8	-39	10
TP2	0.9	49	16
TP3	0.1	6	12
TP4	2.4	124	17
TP5	0.1	6	6

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



## GLASS MANIPULATOR (BRITISH GLASS MANUFACTURERS' CONFEDERATION - BGMC)

### Scope and membership of the umbrella agreement

British Glass represents the glass manufacturing industry in the UK, including all processes manufacturing molten glass from raw materials ('batch').

This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4). A facility belongs to the Glass Manipulator sector if it is a facility where glass products or chemicals using glass as a base material are produced from raw materials, pre-formed glass or cullet for use as reflective additives in road markings or as toughened glass for the automotive market.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne of glass packed/processed (kWh<sub>p</sub>/t packed). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2005 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t packed)	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008) (kWh <sub>p</sub> /t packed)	TP5(2010) (kWh <sub>p</sub> /t packed)
Original	4,911	N/A	N/A	N/A	4,665	4,419
At TP4	4,911	N/A	N/A	N/A	4,665	4,419
At TP5	4,911	-	-	-	-	4,419

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 2 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 2 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 408 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 4,827 kWh<sub>p</sub>/t packed.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>23</sup> baseline for all target periods to date.

	Equivalent baseline (2005)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP4</b>	132,347,369	26,951	4,911	135,142,274	28,819	4,689
<b>TP5</b>	132,347,369	26,951	4,911	126,142,889	27,186	4,640

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 4,640 kWh<sub>p</sub>/t packed is below the CCA adjusted target of 4,827 kWh<sub>p</sub>/t packed, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2005) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

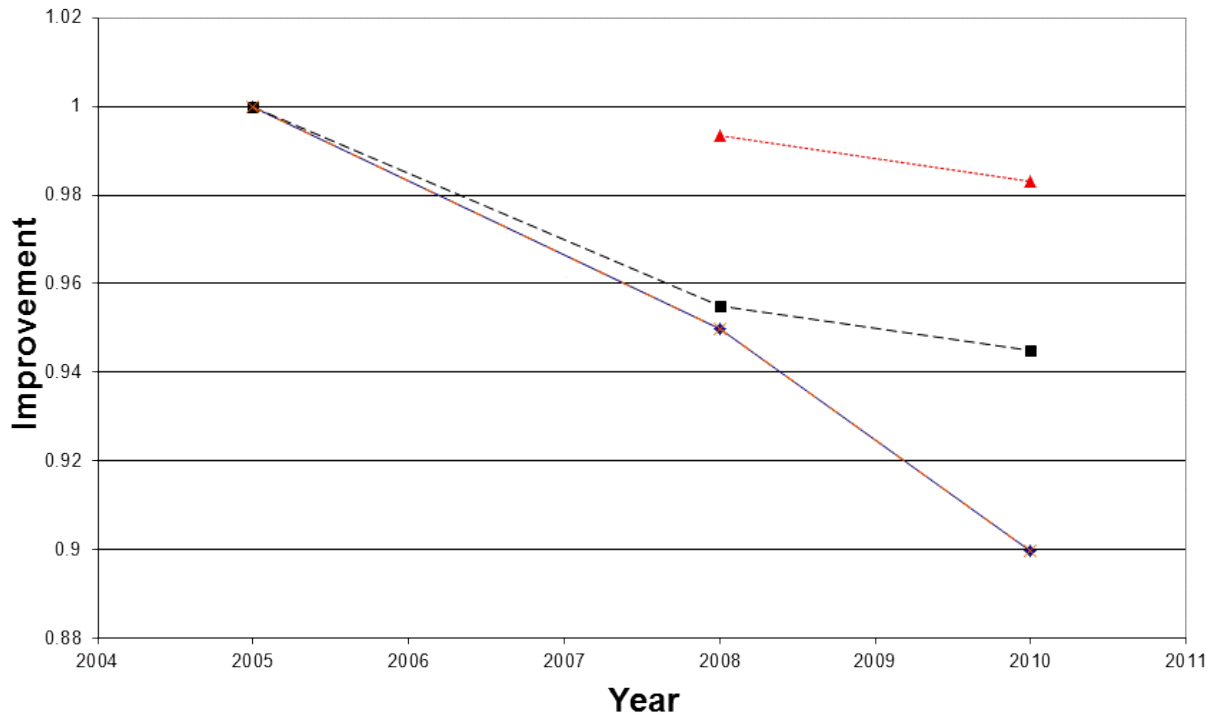
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP4</b>	5.0%	4.5%
<b>TP5</b>	10%	5.5%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>23</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BGMC-EI TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base-year (2005) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP4</b>	-0.02	-1
<b>TP5</b>	-0.03	-1

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2005) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP4</b>	0.01	0.5	7
<b>TP5</b>	-0.02	-1	1

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## GYPSUM PRODUCTS (GYPSUM PRODUCTS DEVELOPMENT ASSOCIATION - GPDA)

### Scope and membership of the umbrella agreement

The GPDA represents the three major manufacturers of gypsum products in the UK: British Gypsum, Lafarge Plasterboard Ltd and Knauf Drywall.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed as 'at an assumed level of throughput'. The sector association has agreed a procedure with DECC for this. Though the target appears to be an absolute one, it is in fact a relative target. Original and current target period targets for this sector are shown below in primary kWh (kWh<sub>p</sub>). These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput. There was a new entrant for TP3 and this explains the relatively large change in Baseline energy in the table below.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> )	TP1(2002) (kWh <sub>p</sub> )	TP2(2004) (kWh <sub>p</sub> )	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>	1,942,733,308	1,921,418,337	1,907,567,050	1,883,290,011	1,851,558,442	1,826,834,050
<b>At TP1</b>	1,998,569,890	1,976,700,401	1,962,244,655	1,937,132,444	1,904,519,248	1,878,921,483
<b>2004 Review*</b>	-	-	-	0%	0%	1%
<b>At TP2</b>	1,998,569,890	-	1,962,244,655	1,937,132,444	1,904,519,248	1,860,132,268
<b>At TP3</b>	2,339,833,736	-	-	2,263,287,620	2,283,802,752	2,256,292,086
<b>2008 Review*</b>	-	-	-	-	-	1%
<b>At TP4</b>	2,375,726,480	-	-	-	2,237,218,448	2,106,661,439
<b>At TP5</b>	2,355,581,587	-	-	-	-	2,106,661,439

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

Allowances equivalent to 323 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 323 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (tightening) of -136,835,135 kWh<sub>p</sub>.

A double counting adjustment was made (see details below).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 1,861,389,130 kWh<sub>p</sub>. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -245,272,310 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>24</sup> baseline for all target periods to date.

	Equivalent baseline (2000)		Performance	
	Energy (kWh <sub>p</sub> )	Production	Energy (kWh <sub>p</sub> )	Production
<b>TP1</b>	1,998,569,890	Not applicable	2,110,100,697	Not applicable
<b>TP2</b>	1,998,569,890	Not applicable	2,266,915,806	Not applicable
<b>TP3</b>	2,339,833,736	Not applicable	2,696,808,251	Not applicable
<b>TP4</b>	2,375,726,480	Not applicable	2,616,693,779	Not applicable
<b>TP5</b>	2,355,581,587	Not applicable	1,968,869,425	Not applicable

Note: TP3 figures for this and subsequent tables differ from TP3 report due to data correction

### Adjustment for overlap with EU ETS

Four Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All four Target Units had their targets tightened. Overall there was an EU ETS surplus of 343 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -1,852,251,156 kWh<sub>p</sub>. This is included within the adjusted target described above.

### Commentary

The sector performance of 1,968,869,425 kWh<sub>p</sub> is above the CCA adjusted target of 1,861,389,130 kWh<sub>p</sub> and, therefore, the sector has not met its target. However, all the facilities reporting have been recertified as they met their individual targets through trading.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

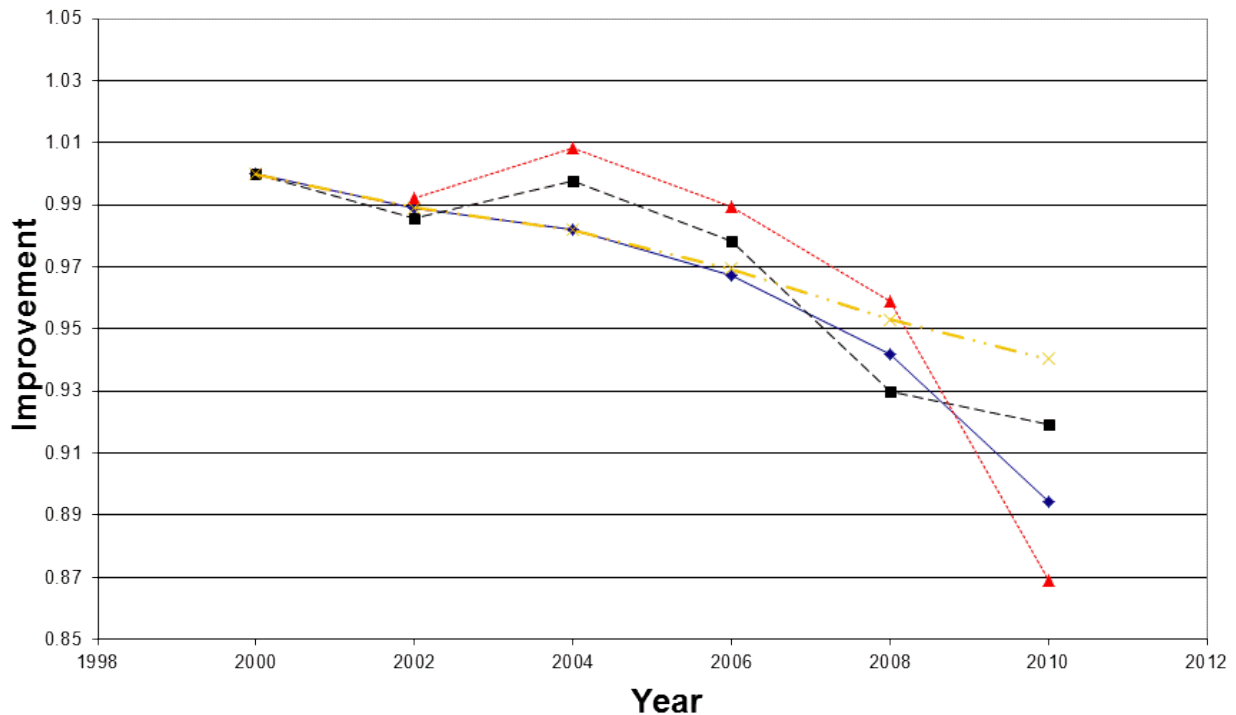
<sup>24</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.1%	1.4%
TP2	1.8%	0.2%
TP3	3.3%	2.1%
TP4	5.8%	7.0%
TP5	11%	8.1%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### GPDA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.1	-6
TP2	-0.02	-1
TP3	-0.2	-11
TP4	-0.7	-36
TP5	-0.6	-32

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	0.4	21	Not relevant
TP2	1.0	50	Not relevant
TP3	1.3	66	Not relevant
TP4	0.9	45	Not relevant
TP5	-1.4	-72	Not relevant

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.



<b>HEAT TREATMENT (SURFACE ENGINEERING ASSOCIATION - SEAHT)</b>																																																
<p><b>Scope and membership of the umbrella agreement</b></p> <p>SEA represents the metal-finishing sector, carrying out processes including electroplating and anodising. SEA is a subsidiary of the British Jewellery and Giftware and Finishing Federation, which is the formal signatory to the agreement.</p> <p>This Climate Change Agreement (SEAHT) is an Energy Intensity CCA covering companies that specialise in heat treatment of metallic components. This CCA reported for the first time at Target Period 3 (TP3).</p> <p>This sector has no Target Units that have installations in EU ETS.</p>																																																
<p><b>Targets</b></p> <p>The targets for this sector are given in primary kWh at a given level of throughput (kWh<sub>p</sub>). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.</p> <p>The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.</p> <table border="1"> <thead> <tr> <th></th> <th>Baseline (kWh<sub>p</sub>)</th> <th>TP1(2002)</th> <th>TP2(2004)</th> <th>TP3(2006) (kWh<sub>p</sub>)</th> <th>TP4(2008) (kWh<sub>p</sub>)</th> <th>TP5(2010) (kWh<sub>p</sub>)</th> </tr> </thead> <tbody> <tr> <td><b>Original</b></td> <td>627,139,631</td> <td>N/A</td> <td>N/A</td> <td>620,868,235</td> <td>614,596,839</td> <td>576,968,461</td> </tr> <tr> <td><b>At TP3*</b></td> <td>656,629,723</td> <td>N/A</td> <td>N/A</td> <td>650,063,426</td> <td>643,497,129</td> <td>604,099,346</td> </tr> <tr> <td><b>2008 Review**</b></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5.31%</td> </tr> <tr> <td><b>At TP4</b></td> <td>1,150,543,824</td> <td>-</td> <td>-</td> <td>-</td> <td>1,128,298,074</td> <td>998,732,594</td> </tr> <tr> <td><b>At TP5</b></td> <td>1,301,448,923</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1,053,727,516</td> </tr> </tbody> </table> <p>*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) because there has been one exit from the agreement.</p> <p>** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.</p>								Baseline (kWh <sub>p</sub> )	TP1(2002)	TP2(2004)	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )	<b>Original</b>	627,139,631	N/A	N/A	620,868,235	614,596,839	576,968,461	<b>At TP3*</b>	656,629,723	N/A	N/A	650,063,426	643,497,129	604,099,346	<b>2008 Review**</b>	-	-	-	-	-	5.31%	<b>At TP4</b>	1,150,543,824	-	-	-	1,128,298,074	998,732,594	<b>At TP5</b>	1,301,448,923	-	-	-	-	1,053,727,516
	Baseline (kWh <sub>p</sub> )	TP1(2002)	TP2(2004)	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )																																										
<b>Original</b>	627,139,631	N/A	N/A	620,868,235	614,596,839	576,968,461																																										
<b>At TP3*</b>	656,629,723	N/A	N/A	650,063,426	643,497,129	604,099,346																																										
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<b>At TP5</b>	1,301,448,923	-	-	-	-	1,053,727,516																																										
<p><b>Additional adjustments to the TP5 sector target</b></p> <p><b>Carbon trading</b></p> <p>☐ Allowances equivalent to 12 ktCO<sub>2</sub> were purchased</p> <p>Overall there was a net purchase of 12 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 70,721,728 kWh<sub>p</sub> (Note - figures rounded for presentation).</p> <p><b>Other adjustments</b></p> <p>Adjustments were carried out at the sector level, equivalent to a sector target change (tightening) of -185,618,687 kWh<sub>p</sub>.</p>																																																

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 938,830,557 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>25</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC
<b>TP3</b>	656,629,723	N/A	N/A	630,617,772	N/A	N/A
<b>TP4</b>	1,150,543,824	N/A	N/A	1,139,343,232	N/A	N/A
<b>TP5</b>	1,301,448,923	N/A	N/A	914,153,654	N/A	N/A

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 914,153,654 kWh<sub>p</sub> is below the CCA adjusted target of 938,830,557 kWh<sub>p</sub> and therefore the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

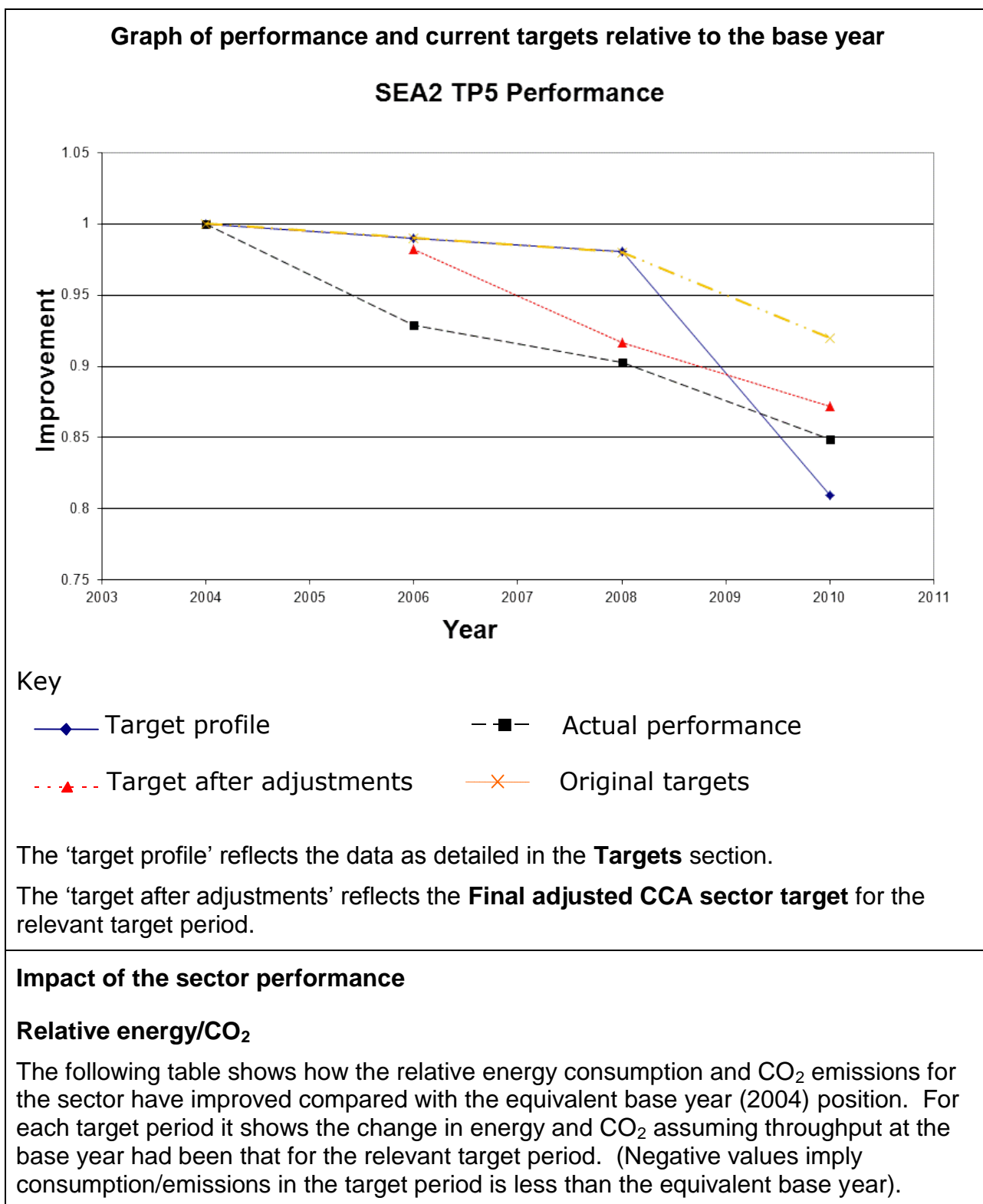
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP3</b>	1.0%	7.1%
<b>TP4</b>	1.9%	9.8%
<b>TP5</b>	19%	15%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>25</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP3</b>	-0.2	-9
<b>TP4</b>	-0.4	-22
<b>TP5</b>	-0.6	-29

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP3</b>	-0.1	-5	3
<b>TP4</b>	-0.04	-2	10
<b>TP5</b>	-0.1	-68	-17

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## HORTICULTURE EI (NATIONAL FARMERS UNION – NFU)

### Scope and membership of the umbrella agreement

The NFU horticulture energy intensive (EI) agreement covers sites where (in controlled, environment-protected structures) horticultural crops are grown, harvested and receive primary preparation for market including planting/seeding, heating, lighting, ventilating, irrigating, fertilising, cooling, preparing and sterilising of growing media, grading and conveying.

This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA that reported for the first time at Target Period 3 (TP3).

This sector has Target Units with installations in EU ETS. The sector has provided information to show performance both in the presence and absence of adjustments applied due to EU ETS.

### Targets

The targets for this sector are expressed in primary kWh/m<sup>2</sup>. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh/m <sup>2</sup> )	TP1(2002) (kWh/m <sup>2</sup> )	TP2(2004) (kWh/m <sup>2</sup> )	TP3(2006) (kWh/m <sup>2</sup> )	TP4(2008) (kWh/m <sup>2</sup> )	TP5(2010) (kWh/m <sup>2</sup> )
<b>Original</b>	491.5	N/A	N/A	471.9	452.2	432.6
<b>At TP3*</b>	499.8	N/A	N/A	479.8	459.8	439.8
<b>2008 Review**</b>	-	-	-	-	-	9.0%
<b>At TP4</b>	511.9	-	-	-	468.8	409.9
<b>At TP5</b>	500.0	-	-	-	-	399.1

\*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to baseline corrections.

\*\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 55 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 17 ktCO<sub>2</sub> were purchased

Overall, there was a net ring-fencing of 38 ktCO<sub>2</sub>, equivalent to a sector target change (tightening) of  $-44.0 \text{ kWh/m}^2$  (Note – figures rounded for presentation).

#### Other adjustments

EU ETS adjustments were also made, but the effect of these adjustments is reported separately below.

### Final adjusted CCA sector target for the TP5 (without adjustments for EU ETS)

As a consequence of the adjustments described (i.e without adjustments for EU ETS), the final sector target for the TP5 was  $355.1 \text{ kWh/m}^2$ .

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>26</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh)	Production (m <sup>2</sup> )	SEC (kWh/m <sup>2</sup> )	Energy (kWh)	Production (m <sup>2</sup> )	SEC (kWh/m <sup>2</sup> )
TP3	1,769,843,334	3,541,118	499.8	1,498,338,041	3,670,282	408.2
TP4	2,128,587,794	4,158,526	511.9	1,614,316,429	4,268,324	378.2
TP5	2,121,330,597	4,242,406	500.0	1,597,560,367	4,478,694	356.7

### Adjustment for overlap with EU ETS

Two Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

One Target Unit had its target eased due to double counting, and the other had its target tightened. Overall, there was an EU ETS surplus of 8 ktCO<sub>2</sub> that resulted in an adjustment (tightening) to the CCA target of  $-9.4 \text{ kWh/m}^2$ .

### Commentary

The sector performance of  $356.7 \text{ kWh/m}^2$  is above the CCA adjusted target of  $355.1 \text{ kWh/m}^2$  and, therefore, the sector did not meet its CCA target (before adjustments for EU ETS).

The adjustment for overlap with EU ETS changed the CCA target to  $345.7 \text{ kWh}_p/\text{t}$  and, therefore, the sector also did not meet its final adjusted target for TP5. However, all but one of the facilities reporting have been recertified, either because they met their individual targets outright, or through trading.

<sup>26</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

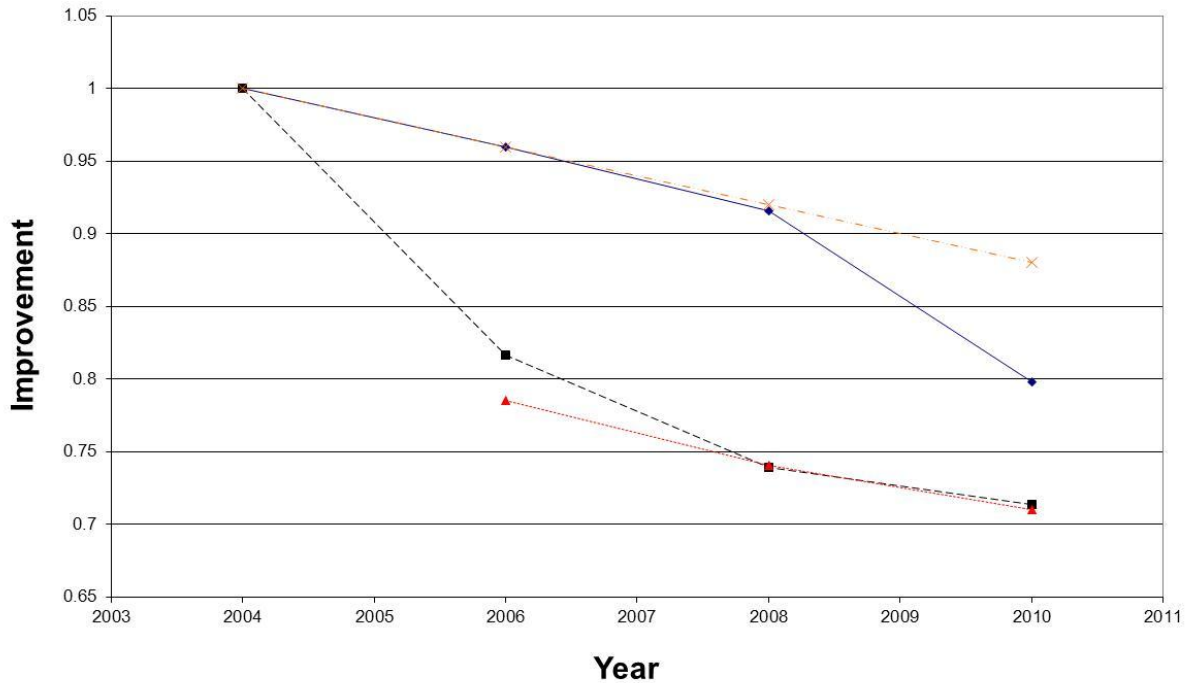
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.  
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<b>Improvement in SEC compared with Equivalent Baseline at each Target Period</b>		
	<b>Target Improvement</b>	<b>Actual Improvement</b>
<b>TP3</b>	4.0%	18%
<b>TP4</b>	12%	26%
<b>TP5</b>	20%	29%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year

NFU4 (EI) TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been the same as that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP3	-1.2	-67
TP4	-2.1	-112
TP5	-2.3	-124



NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP3</b>	-1.0	-54	4
<b>TP4</b>	-1.9	-101	3
<b>TP5</b>	-1.9	-101	6

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

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## INDUSTRIAL GASES (BRITISH COMPRESSED GAS ASSOCIATION - BCGA)

### Scope and membership of the umbrella agreement

BCGA represents the companies in the UK that produce and supply compressed gases to industry and the health sector. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kWh <sub>p</sub> /t	TP1(2002)	TP2(2004)	TP3(2006) kWh <sub>p</sub> /t	TP4(2008) kWh <sub>p</sub> /t	TP5(2010) kWh <sub>p</sub> /t
<b>Original</b>	1,182.77	-	-	1,135.46	1,088.15	1,005.36
<b>At TP3*</b>	1,203.78	-	-	1,155.63	1,107.48	1,023.21
<b>2008 Review**</b>	-	-	-	-	-	0%
<b>At TP4</b>	1,203.78	-	-	-	1,084.01	1,023,21
<b>At TP5</b>	1,075.82	-	-	-	-	809.34

\* Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to a baseline correction.

\*\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 99 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 99 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 171.49 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 980.83 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>27</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
TP3	3,193,307,582	2,652,729	1,203.78	3,133,030,121	2,594,818	1,207.42
TP4	3,193,307,582	2,652,729	1,203.78	3,062,406,916	2,522,441	1,214.06
TP5	4,650,016,102	4,322,301	1,075.82	3,834,688,459	3,479,096	1,102.21

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 1,102.21 kWh<sub>p</sub>/t is above the CCA adjusted target of 980.83 kWh<sub>p</sub>/t, and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, because they all met their individual targets through trading.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

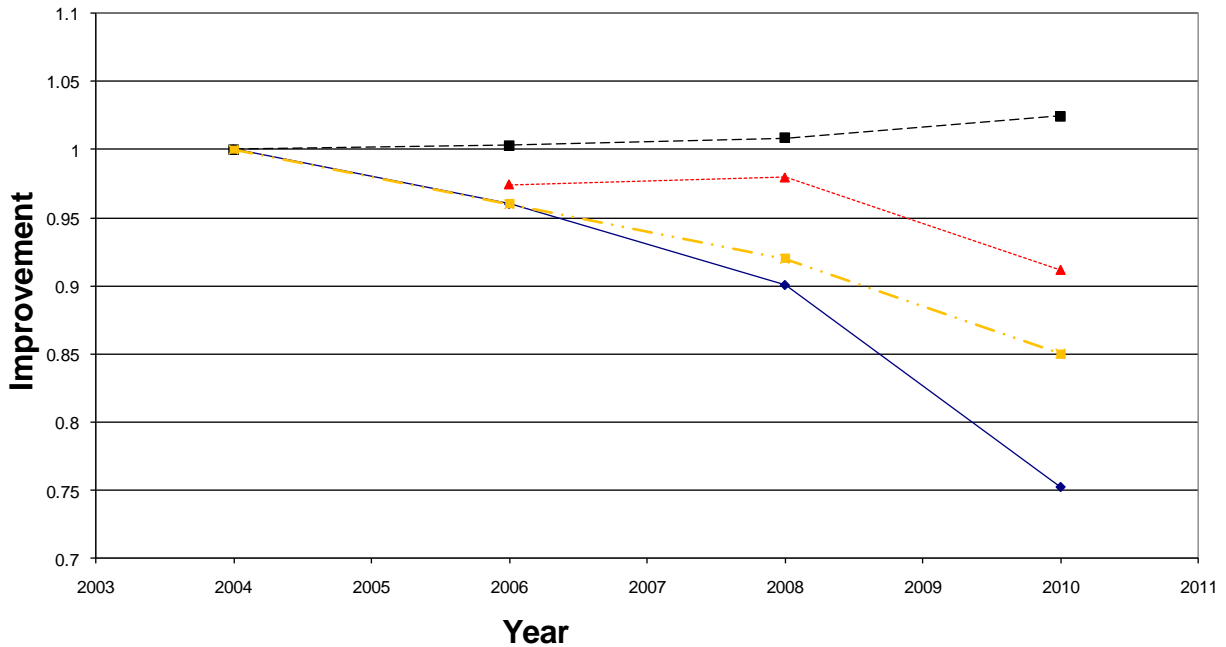
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP3	4.0%	-0.3%
TP4	9.9%	-0.9%
TP5	25%	-2%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>27</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**

**BCGA TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base-year (2004) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP3	0.03	2
TP4	0.09	4
TP5	0.3	15

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP3	-0.2	-10	-2
TP4	-0.5	-22	-5
TP5	-2.9	-136	-20

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## KAOLIN AND BALL CLAY (KAOLIN AND BALL CLAY ASSOCIATION - KaBCA)

### Scope and membership of the umbrella agreement

KABCA represents the UK producers of kaolin and ball clay. The sector extracts, purifies and supplies kaolin for a number of industrial sectors. This Climate Change Agreement (CCA) represents facilities covered by an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh (kWh<sub>p</sub>). The sector agreement is an absolute energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline (kWh <sub>p</sub> )	TP1(2002)	TP2(2004)	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>	1,728,116,780	N/A	N/A	1,666,016,799	1,631,110,930	1,597,272,280
<b>At TP3</b>	1,728,116,780	N/A	N/A	1,618,553,349*	1,631,110,930	1,597,272,280
<b>2008 Review**</b>	-	-	-	-	-	37%
<b>At TP4</b>	1,728,116,780	-	-	-	1,280,669,579	1,189,808,606
<b>At TP5</b>	1,532,786,372	-	-	-	-	953,330,711

\*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to a throughput baseline correction.

\*\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 54 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 54 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 period was 900,626,125 kWh<sub>p</sub>. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -52,704,586 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>28</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /tonne)	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /tonne)
TP3	1,728,116,780	N/A	N/A	1,543,745,201	N/A	N/A
TP4	1,728,116,780	N/A	N/A	1,172,413,718	N/A	N/A
TP5	1,532,786,372	N/A	N/A	880,501,224	N/A	N/A

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

Overall there was an EU ETS surplus of 64 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -359,347,400 kWh<sub>p</sub>. This is included within the adjusted target described above.

### Commentary

The sector performance of 880,501,224 kWh<sub>p</sub> is below the CCA adjusted target of 900,626,125 kWh<sub>p</sub> and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP3	6.3%	11%
TP4	26%	32%
TP5	38%	43%

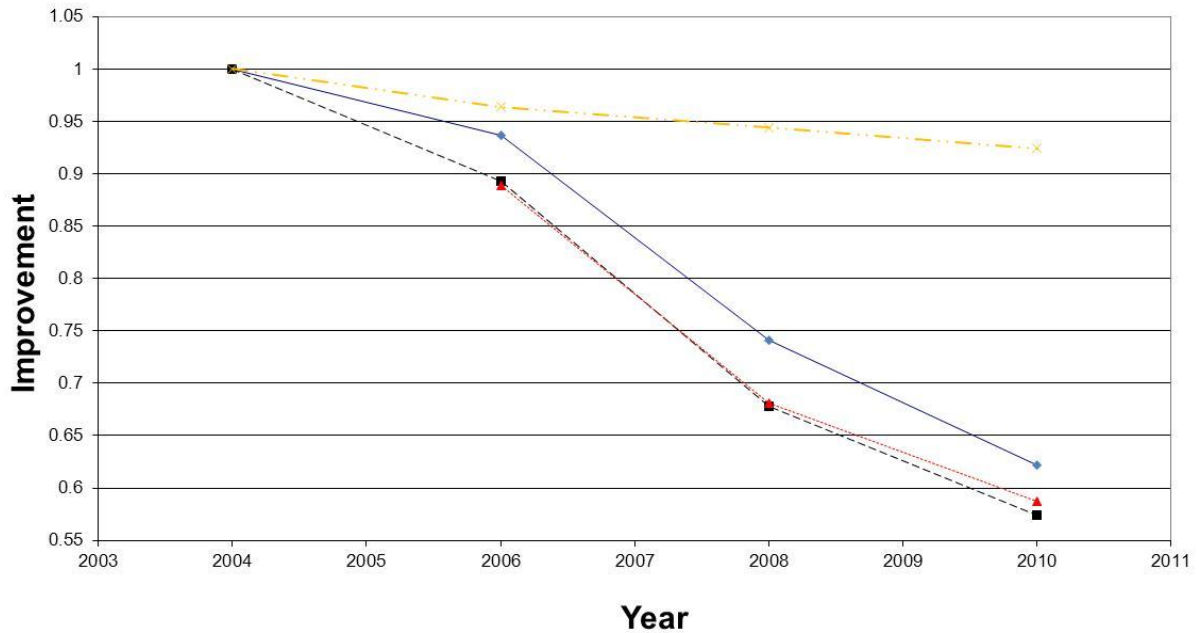
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>28</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



### Graph of performance and current targets relative to the base year

#### KABCA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

#### Impact of the sector performance

##### Relative energy/CO<sub>2</sub>

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year position.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP3</b>	-0.7	-33	2
<b>TP4</b>	-2.0	-99	-7
<b>TP5</b>	-2.3	-116	-9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## LAUNDRIES (TEXTILE SERVICES ASSOCIATION - TSA)

### Scope and membership of the umbrella agreement

TSA represents the laundries sector in the UK. For the purposes of Climate Change Agreements (CCAs), members of this sector provide laundering services of textiles by washing with water, drying and smoothing but do not provide these laundering services to the domestic and self-service markets. Sites carrying out laundering activities that are not the core business of the site (but merely support services for another core business) are not included. This CCA is an Energy Intensity CCA, which reported for the first time at Target Period 5 (TP5).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2008 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	2,109	N/A	N/A	N/A	N/A	1,951
<b>At TP5</b>	2,107	N/A	N/A	N/A	N/A	1,949

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 7.8 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 8.0 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 0.2 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 1.592 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 1,950 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>29</sup> baseline for all target periods to date.

	Equivalent baseline (2008)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP5</b>	1,525,325,934	723,997	2,107	1,449,205,823	743,652	1,949

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 1,949 kWh<sub>p</sub>/t is below the CCA adjusted target of 1,950 kWh<sub>p</sub>/t, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2008) position at each target period.

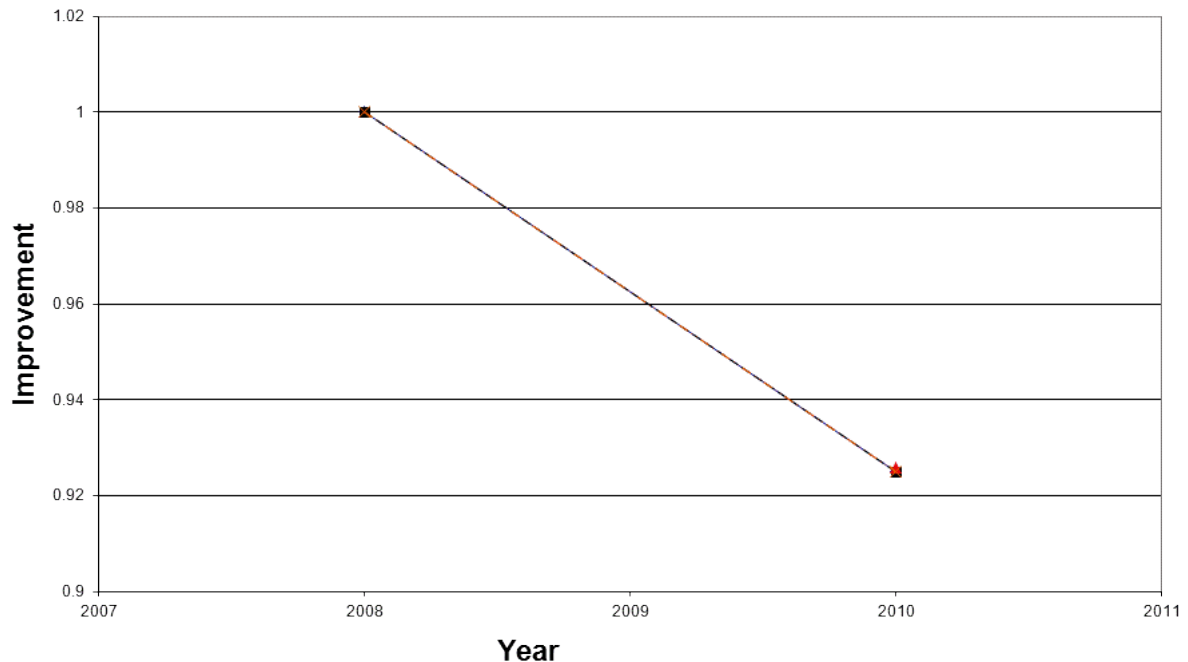
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP5</b>	7.5%	7.5%

<sup>29</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

### Graph of performance and current targets relative to the base year

#### TSA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

### Impact of the sector performance

#### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year (2008) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP5	-0.4	-22

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2008) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP5</b>	-0.3	-14	3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

## LEATHER (UK LEATHER FEDERATION - UKLF)

### Scope and membership of the umbrella agreement

UKLF represents the leather industry in the UK, carrying out various activities from tanning of hides to production of finished leather.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh per m<sup>2</sup> (kWh<sub>p</sub>/m<sup>2</sup>). The target sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /m <sup>2</sup> )	TP1(2002) (kWh <sub>p</sub> /m <sup>2</sup> )	TP2(2004) (kWh <sub>p</sub> /m <sup>2</sup> )	TP3(2006) (kWh <sub>p</sub> /m <sup>2</sup> )	TP4(2008) (kWh <sub>p</sub> /m <sup>2</sup> )	TP5(2010) (kWh <sub>p</sub> /m <sup>2</sup> )
<b>Original</b>	11.62	11.39	11.16	10.93	10.70	10.48
<b>At TP1</b>	11.28	11.06	10.84	10.61	10.39	10.17
<b>2004 Review*</b>	-	-	-	0%	0%	10%
<b>At TP2</b>	11.09	-	10.63	10.41	10.18	8.96
<b>At TP3</b>	10.49	-	-	9.82	9.60	8.44
<b>2008 Review*</b>	-	-	-	-	-	4.0%
<b>At TP4</b>	9.46	-	-	-	8.70	7.35
<b>At TP5</b>	9.46	-	-	-	-	7.40

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 2 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 2 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 0.92 kWh<sub>p</sub>/m<sup>2</sup> (Note - figures rounded for presentation).

#### Other adjustments

N/A.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 8.32 kWh<sub>p</sub>/m<sup>2</sup>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>30</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (m <sup>2</sup> )	SEC (kWh <sub>p</sub> /m <sup>2</sup> )	Energy (kWh)	Production (m <sup>2</sup> )	SEC (kWh <sub>p</sub> /m <sup>2</sup> )
<b>TP1</b>	218,266,128	19,349,834	11.28	187,029,418	17,897,552	10.45
<b>TP2</b>	217,735,493	19,627,339	11.09	186,850,211	16,868,029	11.08
<b>TP3</b>	159,009,858	15,164,954	10.49	115,401,056	13,190,506	8.75
<b>TP4</b>	143,181,101	15,133,233	9.46	97,550,127	12,841,884	7.60
<b>TP5</b>	137,639,059	14,553,867	9.46	97,443,856	12,998,221	7.50

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS and Climate Change Agreements and so no adjustment is required.

### Commentary

The sector performance of 7.50 kWh<sub>p</sub>/m<sup>2</sup> is below the CCA target of 8.32 kWh<sub>p</sub>/m<sup>2</sup>, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

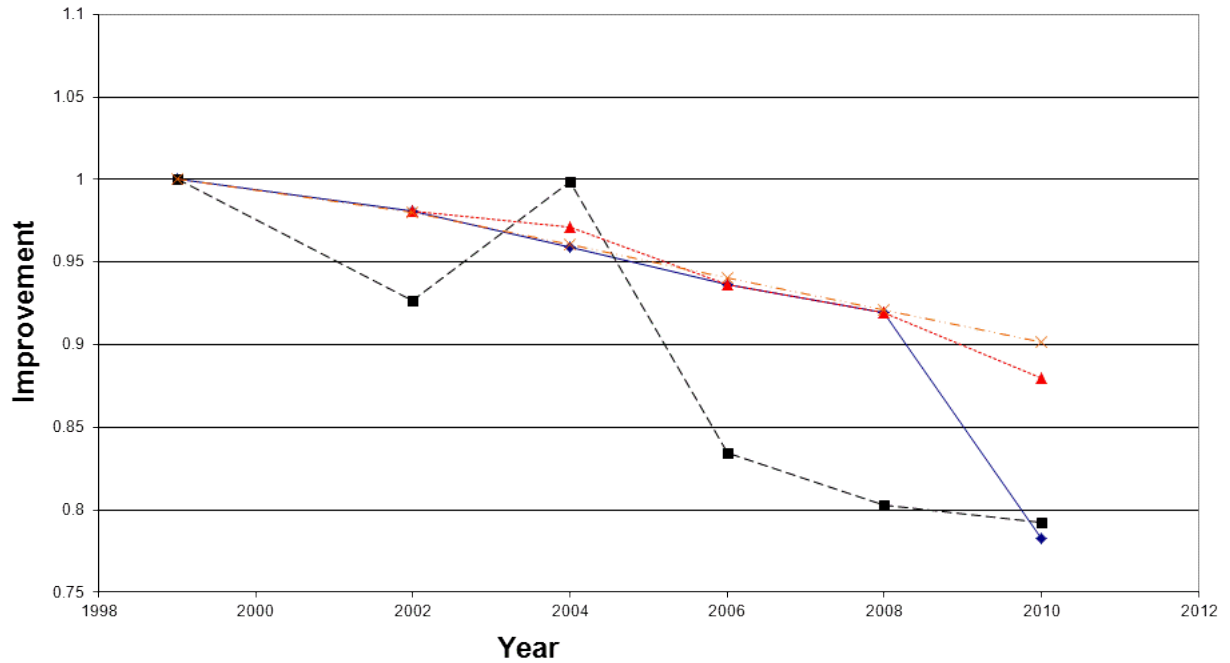
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	2.0%	7.4%
<b>TP2</b>	4.1%	0.2%
<b>TP3</b>	6.4%	17%
<b>TP4</b>	8.0%	20%
<b>TP5</b>	22%	21%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>30</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



**Graph of performance and current targets relative to the base year**  
**BLC TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.05	-3.0
TP2	-0.00	-0.1
TP3	-0.08	-4.2
TP4	-0.09	-4.4
TP5	-0.09	-4.6

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.1	-6	-8
TP2	-0.1	-6	-14
TP3	-0.2	-8	-13
TP4	-0.2	-8	-15
TP5	-0.2	-7	-11

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## LIME (BRITISH LIME ASSOCIATION - BLA)

### Scope and membership of the umbrella agreement

The agreement embraces the vast majority of UK merchant lime production and some captive production.

This sector has Target Units with installations in EU ETS

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
Original	1,018	956	952	949	940	938
At TP1	1,042	976	970	964	952	949
2004 Review*	-	-	-	0%	-0.48%	1.0%
At TP2	1,054	-	987	982	975	957
At TP3	1,029	-	-	963	955	939
2008 Review*	-	-	-	-	-	2%
At TP4	1,029	-	-	-	955	920
At TP5	1,029	-	-	-	-	920

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

Allowances equivalent to 303 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 303 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 905 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (tightening) of -15 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>31</sup> baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	3,223,208,000	3,093,645	1,042	2,566,775,022	2,649,535	969
<b>TP2</b>	3,261,848,000	3,093,986	1,054	2,774,600,000	2,966,092	935
<b>TP3</b>	3,408,219,788	3,313,623	1,029	2,966,810,861	3,294,315	901
<b>TP4</b>	3,408,219,788	3,313,623	1,029	2,889,567,487	3,073,022	940
<b>TP5</b>	3,408,219,788	3,313,623	1,029	2,179,180,840	2,414,877	902

### Adjustment for overlap with EU ETS

Eight Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All eight Target Units had their targets tightened. After calculating the EU ETS performance, there was a gap of 311 ktCO<sub>2</sub> in the overlap between the schemes which resulted in an adjustment (tightening) to the CCA target of -536 kWh<sub>p</sub>/t.. This is included within the adjusted target described above.

### Commentary

The sector performance of 902 kWh<sub>p</sub>/t is below the CCA adjusted target of 905 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

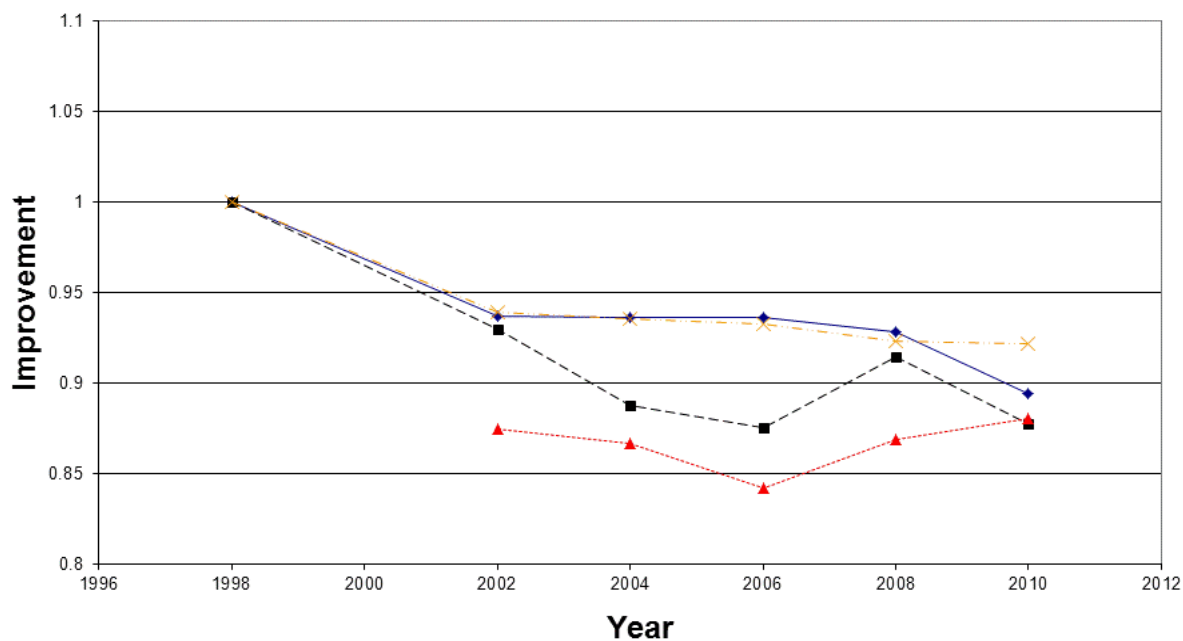
<sup>31</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	6.3%	7.0%
TP2	6.4%	11%
TP3	6.4%	12%
TP4	7.2%	8.6%
TP5	11%	12%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BLA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.7	-51
TP2	-1.3	-91
TP3	-1.5	-99
TP4	-1.0	-64
TP5	-1.1	-73

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-2.4	-174	-14
TP2	-1.8	-125	-4
TP3	-1.6	-104	-1
TP4	-1.9	-121	-7
TP5	-4.4	-296	-27

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## MALTSTERS (MALTSTERS ASSOCIATION OF GREAT BRITAIN - MAGB)

### Scope and membership of the umbrella agreement

The MAGB agreement covers the vast majority of the UK Malting industry.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne of malt produced (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	1,304.84	1,283.30	1,263.25	1,243.20	1,223.15	1,203.10
<b>At TP1</b>	1,312.39	1,290.74	1,270.58	1,250.42	1,230.26	1,210.11
<b>2004 Review*</b>	-	-	-	0.2%	0.6%	1.1%
<b>At TP2</b>	1,313.32	-	1,271.44	1,248.65	1,223.24	1,197.84
<b>At TP3</b>	1,313.60	-	-	1248.43	1222.83	1,197.23
<b>2008 Review*</b>	-	-	-	-	-	4.24%
<b>At TP4</b>	1,299.97	-	-	-	1,220.90	1,146.45
<b>At TP5</b>	1,299.97	-	-	-	-	1,146.45

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 12 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 30 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 18 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 1,157.01 kWh<sub>p</sub>/t. This includes adjustments for EU ETS (see details on following page) and is equivalent to a sector target change (easing) of 10.56 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>32</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
TP1	1,965,367,485	1,497,544	1,312.39	1,926,046,075	1,557,911	1,236.30
TP2	1,954,393,095	1,488,127	1,313.32	1,956,790,709	1,635,882	1,196.17
TP3	1,819,417,258	1,385,066	1,313.60	1,706,779,189	1,468,716	1,162.09
TP4	1,756,802,256	1,351,414	1,299.97	1,766,153,778	1,485,035	1,189.30
TP5	1,756,801,678	1,351,414	1,299.97	1,645,231,637	1,417,009	1,161.06

### Adjustment for overlap with EU ETS

Two Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Both Target Units had their targets tightened due to double counting. Overall there was an EU ETS surplus of 15 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of - 56.61 kWh<sub>p</sub>/t. This is included within the adjusted target described above.

### Commentary

The sector performance of 1,161.06 kWh<sub>p</sub>/t is above the CCA adjusted target of 1,157.01 kWh<sub>p</sub>/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance.)

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.7%	5.8%
TP2	3.2%	8.9%
TP3	5.0%	11.5%
TP4	6.1%	8.5%
TP5	12%	11%

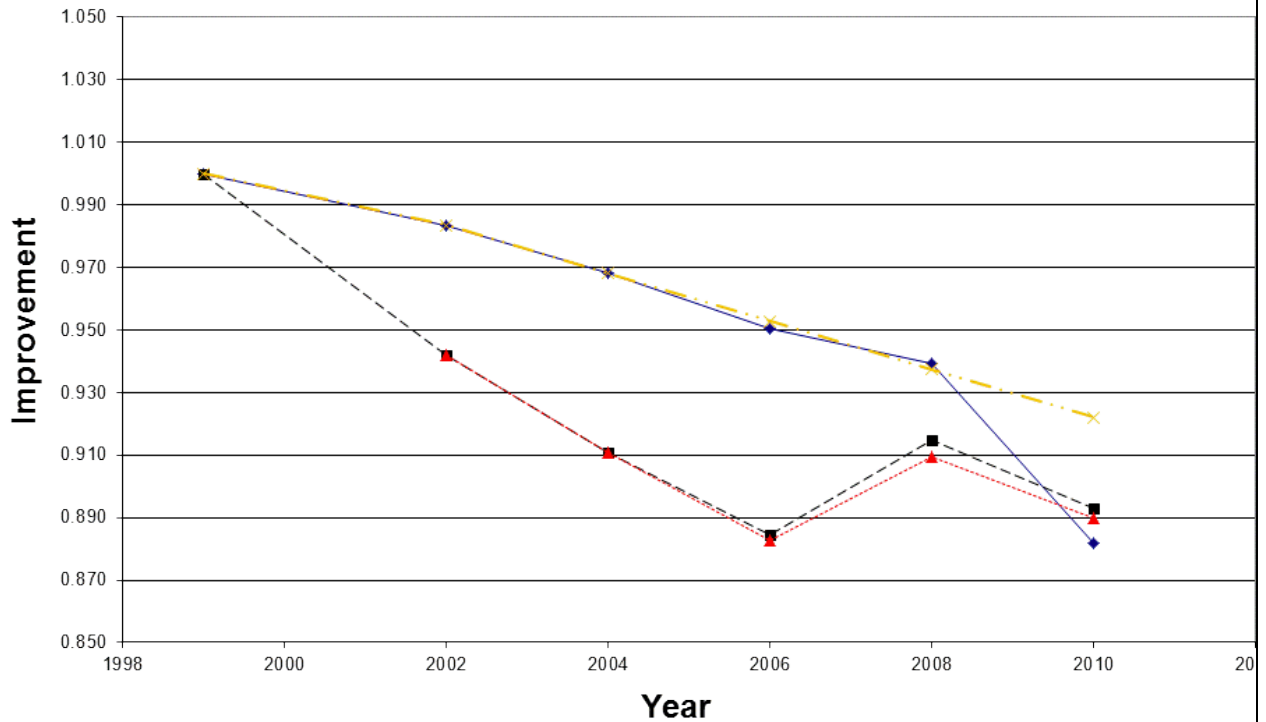
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>32</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Graph of performance and current targets relative to the base year

MAGB TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.4	-22
TP2	-0.7	-36
TP3	-0.8	-42
TP4	-0.6	-31
TP5	-0.7	-37

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.1	-7	4
TP2	0.01	0.5	10
TP3	-0.4	-21	6
TP4	0.03	2	10
TP5	-0.4	-21	5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## METAL FORMING (CONFEDERATION OF BRITISH METALFORMING - CBM)

### Scope and membership of the umbrella agreement

CBM represents the forging and metal forming industry in the UK. Members of the industry produce a wide range of products, chiefly for the automotive and aerospace industries.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
Original	12,537	12,361	12,186	12,010	11,835	11,659
At TP1	2,757	2,719	2,680	2,642	2,603	2,564
2004 Review*	-	-	-	16%	17.3%	20%
At TP2	2,691		2,616	2,166	2,101	2,002
At TP3	2,645			2,129	2,066	1,968
2008 Review*	-	-	-	-	-	0.0%
At TP4	2,476	-	-	-	1,945	1,840
At TP5	1,874	-	-	-	-	1,402

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 78 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 78 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 325 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 1,727 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>33</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (tonnes)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	2,486,933,514	901,903	2,757	2,351,370,405	947,977	2,480
<b>TP2</b>	2,543,308,537	945,225	2,691	2,396,000,688	1,083,432	2,211
<b>TP3</b>	2,463,073,486	931,212	2,645	2,255,614,392	1,013,793	2,225
<b>TP4</b>	2,627,385,080	1,061,138	2,476	2,280,367,291	1,252,522	1,821
<b>TP5</b>	2,636,551,572	1,406,583	1,874	2,042,524,778	1,365,743	1,496

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 1,496 kWh<sub>p</sub>/t is below the CCA adjusted target of 1,727 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

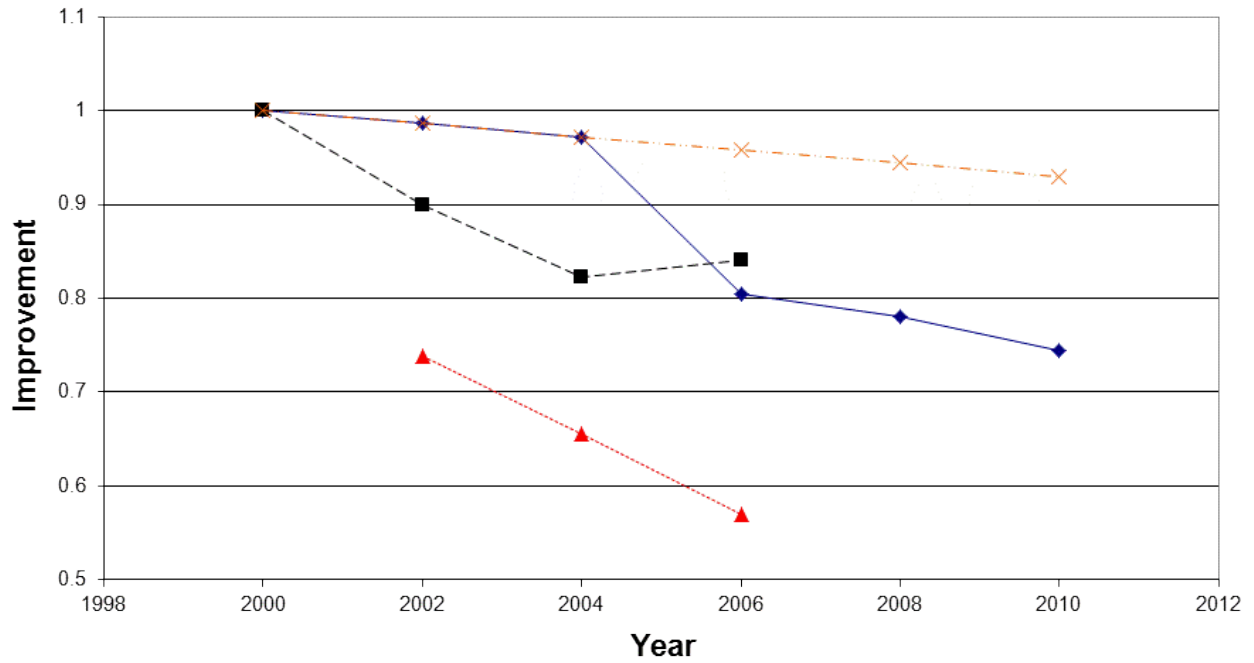
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	1.4%	10%
<b>TP2</b>	2.8%	18%
<b>TP3</b>	20%	16%
<b>TP4</b>	21%	26%
<b>TP5</b>	25%	20%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>33</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**  
**CBM TP3 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.9	-46
TP2	-1.9	-92
TP3	-1.5	-76
TP4	-3.0	-145
TP5	-1.9	-91

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.5	-23	5
TP2	-0.5	-26	15
TP3	-0.7	-37	9
TP4	-1.2	-61	18
TP5	-2.1	-105	-3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## METAL PACKAGING (METAL PACKAGING MANUFACTURERS ASSOCIATION - MPMA)

### Scope and membership of the umbrella agreement

MPMA represents the manufacturers of various metal packing products in the UK, including beverage and food cans and closures (eg bottle tops).

This sector has no Target Units that have installations in EU ETS.

### Targets

The sector target is expressed in terms of kilograms of carbon (kgC), at a particular level of production. This target assumes no growth in production and static product mix. The sector agreement is a relative carbon agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kgC)	TP1(2002) (kgC)	TP2(2004) (kgC)	TP3(2006) (kgC)	TP4(2008) (kgC)	TP5(2010) (kgC)
<b>Original</b>	82,838,675	79,525,128	78,282,548	77,039,968	76,211,581	75,383,194
<b>At TP1</b>	80,303,988	77,091,828	75,887,268	74,682,709	73,879,669	73,076,629
<b>2004 Review*</b>	-	-	-	1%	1%	2%
<b>At TP2</b>	78,780,759	-	74,575,260	72,533,445	71,753,515	70,256,681
<b>At TP3</b>	78,180,018	-	-	71,980,343	71,206,361	69,720,940
<b>2008 Review*</b>	-	-	-	-	-	4.5%
<b>At TP4</b>	78,430,366	-	-	-	71,434,377	66,796,711
<b>At TP5</b>	77,420,339	-	-	-	-	65,936,503

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 18 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 8 ktCO<sub>2</sub> were purchased

Overall, there was a net ring-fencing of 10 ktCO<sub>2</sub>, equivalent to a sector target change (tightening) of – 2,675,751 kgC (Note – figures rounded for presentation).

### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 5,703,537 kgC.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 68,964,289 kgC.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>34</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Carbon (kg)	Production (units)	SCC (kgC/unit)	Carbon (kg)	Production (units)	SCC (kgC/unit)
TP1	80,303,988	28,943,205,391	0.00277	75,296,282	29,837,802,567	0.00252
TP2	78,780,759	25,225,035,496	0.00312	73,102,420	27,154,323,918	0.00269
TP3	78,180,018	25,233,963,496	0.00310	71,516,687	27,671,401,730	0.00258
TP4	78,430,366	25,151,391,903	0.00312	70,061,393	30,217,997,662	0.00232
TP5	77,420,339	25,240,878,005	0.00307	64,595,639	30,372,172,706	0.00213

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 64,595,639 kgC is below the CCA adjusted target of 68,964,289 kgC and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SCC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	4.0%	6%
TP2	5.3%	13%
TP3	7.9%	14%
TP4	8.9%	19%
TP5	15%	23%

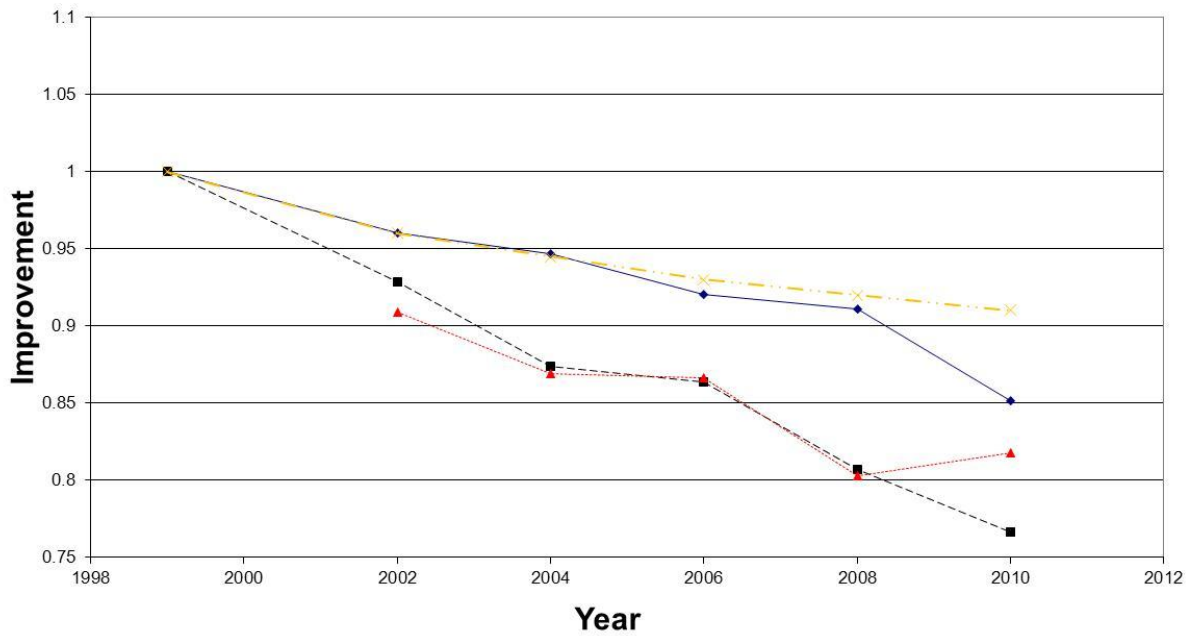
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>34</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



### Graph of performance and current targets relative to the base year

#### MPMA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.6	-28
TP2	-0.8	-39
TP3	-0.9	-41
TP4	-1.3	-61
TP5	-1.5	-72

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.4	-18	3
TP2	-0.4	-21	8
TP3	-0.5	-24	10
TP4	-0.6	-31	20
TP5	-1.0	-47	20

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## MINERAL WOOL PRODUCERS (MINESCO - EURISOL)

### Scope and membership of the umbrella agreement

The Mineral Wool Energy Savings Company (MINESCO) represents the mineral wool insulation manufacturers' trade association, Eurisol, for the CCA. The member companies produce glass wool and rock wool insulation material for building fabric, pipe insulation, specialist applications and high-temperature industrial protection.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	5,344	4,874	4,691	4,610	4,512	4,485
<b>At TP1</b>	5,341	4,954	4,767	4,682	4,582	4,551
<b>2004 Review*</b>	-	-	-	0%	0%	1%
<b>At TP2</b>	5,347	-	4,773	4,688	4,587	4,511
<b>At TP3</b>	5,347	-	-	4,688	4,587	4,511
<b>2008 Review*</b>	-	-	-	-	-	4.48%
<b>At TP4</b>	5,347	-	-	-	4,587	4,309
<b>At TP5</b>	5,347	-	-	-	-	4,309

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

Allowances equivalent to 186 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 186 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 3,923 kWh<sub>p</sub>/t. This includes adjustments for EU ETS (see details on following page) and is equivalent to a sector target change (tightening) of -386 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>35</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
TP1	1,209,693,772	226,492	5,341	1,167,690,221	240,205	4,861
TP2	1,215,243,163	227,263	5,347	1,257,977,062	290,055	4,337
TP3	1,215,243,163	227,263	5,347	1,432,213,254	350,789	4,083
TP4	1,215,243,163	227,263	5,347	1,418,685,947	358,020	3,963
TP5	1,215,243,163	227,263	5,347	1,429,567,486	366,401	3,902

### Adjustment for overlap with EUETS

Six Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All six Target Units had their targets tightened due to double counting. Overall there was an EU ETS surplus of 215 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -2,833 kWh<sub>p</sub>/t. This is included within the adjusted target described above.

### Commentary

The sector performance of 3,902 kWh<sub>p</sub>/t is below the CCA adjusted target of 3,923 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All facilities have been recertified as a consequence of the sector meeting its target.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

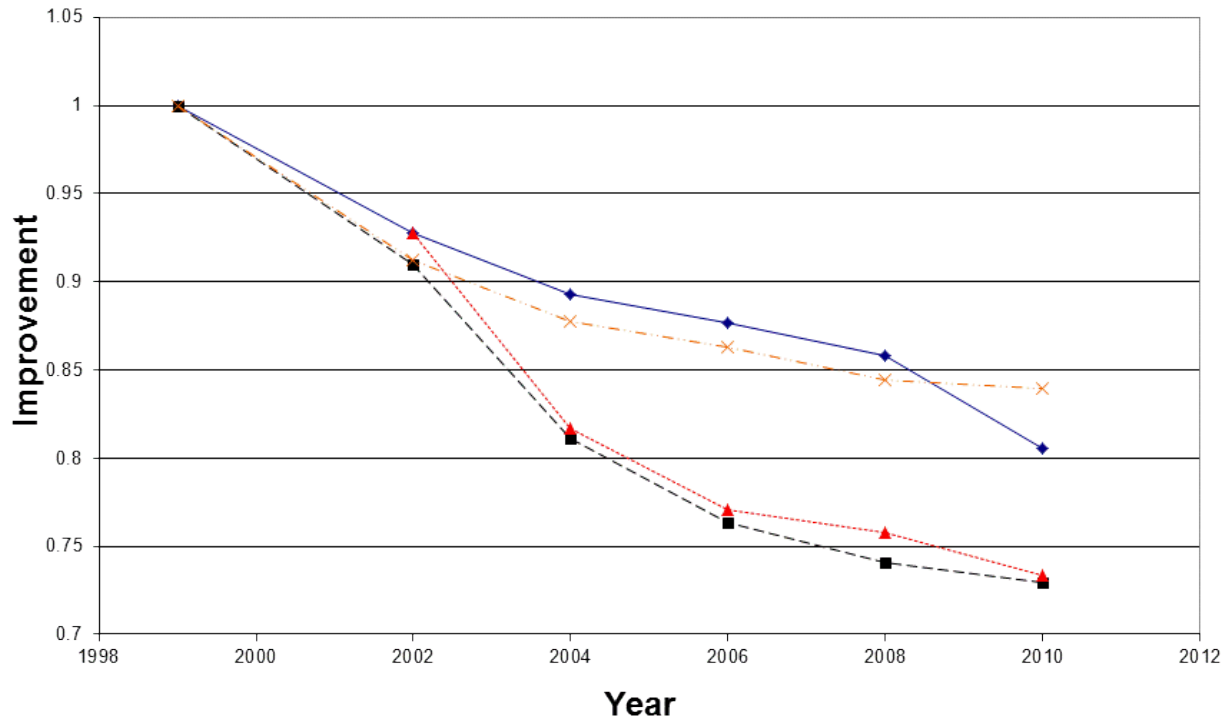
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	7.3%	9.0%
TP2	11%	19%
TP3	12%	24%
TP4	14%	26%
TP5	19%	27%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>35</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

Minesco TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- - - x - - - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.4	-24
TP2	-1.1	-63
TP3	-1.6	-94
TP4	-1.8	-104
TP5	-1.9	-110

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	% Change in Throughput(%)
TP1	-0.2	-9	6
TP2	0.2	9	28
TP3	0.8	46	54
TP4	0.7	43	58
TP5	0.8	44	61

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## MOTOR MANUFACTURERS (SOCIETY OF MOTOR MANUFACTURERS AND TRADERS - SMMT)

### Scope and membership of the umbrella agreement

SMMT represents the major motor manufacturing companies in the UK, including manufacturers of cars, vans, commercial vehicles and automotive components.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per vehicle (kWh<sub>p</sub>/vehicle). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /vehicle)	TP1(2002) (kWh <sub>p</sub> /vehicle)	TP2(2004) (kWh <sub>p</sub> /vehicle)	TP3(2006) (kWh <sub>p</sub> /vehicle)	TP4(2008) (kWh <sub>p</sub> /vehicle)	TP5(2010) (kWh <sub>p</sub> /vehicle)
<b>Original</b>	3,298	3,036	2,962	2,881	2,839	2,792
<b>At TP1</b>	3,403	3,147	3,069	2,980	2,930	2,876
<b>2004 Review*</b>	-	-	-	3%	3%	4%
<b>At TP2</b>	3,873	-	3,569	3,372	3,316	3,225
<b>At TP3</b>	4,340	-	-	3,821	3,886	3,778
<b>2008 Review*</b>	-	-	-	-	-	32.9%
<b>At TP4</b>	5,639	-	-	-	4,595	3,153
<b>At TP5</b>	6,057	-	-	-	-	3,045

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 79 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 320 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 241 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 2,831 kWh<sub>p</sub>/vehicle. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (tightening) of -213 kWh<sub>p</sub>/vehicle.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>36</sup> baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (Vehicles)	SEC (kWh/vehicle)	Energy (kWh)	Production (Vehicles)	SEC (kWh/vehicle)
<b>TP1</b>	4,994,721,611	1,467,581	3,403	4,799,434,116	1,708,788	2,809
<b>TP2</b>	5,128,820,799	1,324,202	3,873	5,069,356,816	1,875,030	2,704
<b>TP3*</b>	5,307,447,471	1,222,787	4,340	4,365,319,869	1,709,737	2,553
<b>TP4</b>	5,642,683,580	1,000,733	5,639	4,395,976,322	1,774,216	2,478
<b>TP5</b>	5,575,104,665	920,410	6,057	3,720,574,180	1,251,062	2,974

\*Figures have been adjusted as a result of a post TP3 site audit.

### Adjustment for overlap with EU ETS

Thirteen Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All thirteen Target Units had their targets tightened due to double counting. Overall, there was an EU ETS excess of 289 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the sector target of -1,284 kWh<sub>p</sub>/vehicle. This is included within the adjusted target described above.

### Commentary

The sector performance of 2,974 kWh<sub>p</sub>/vehicle is above the CCA adjusted target of 2,831 kWh<sub>p</sub>/vehicle and, therefore, the sector did not meet its target. However, all the facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>36</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

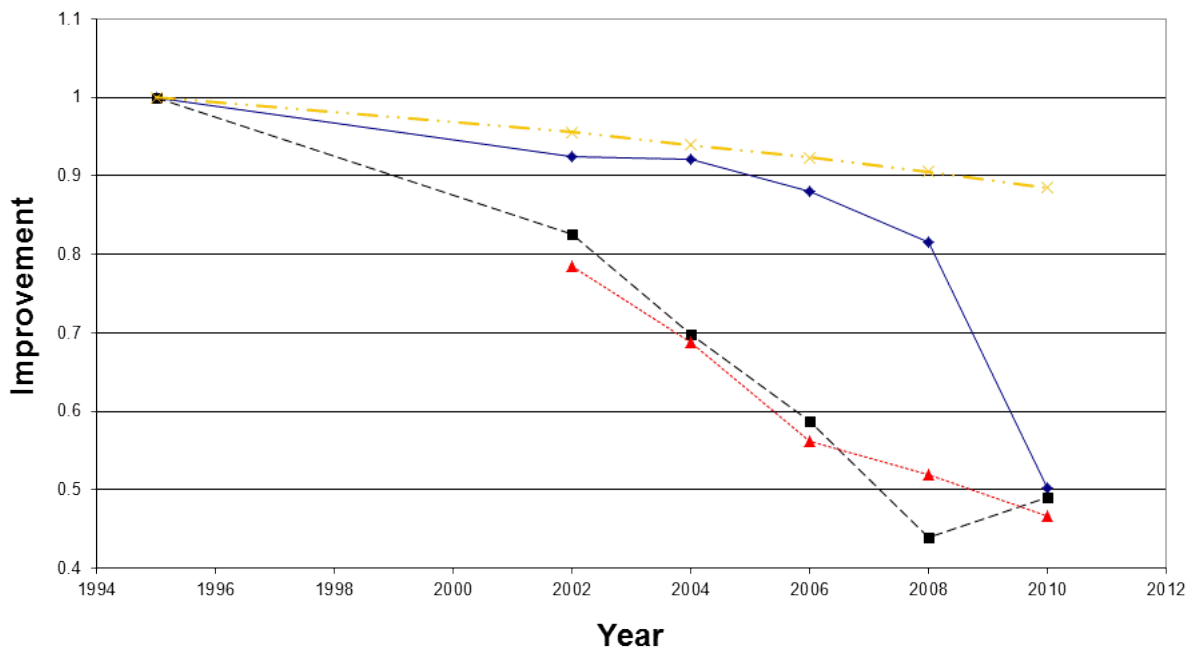


Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	7.5%	17%
TP2	7.9%	30%
TP3	12%	41%
TP4	19%	56%
TP5	50%	51%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### SMMT TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-3.7	-185
TP2	-7.9	-398
TP3	-11	-552
TP4	-20	-1007
TP5	-14	-693

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

\*Figures have been adjusted as a result of a post TP3 site audit.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.7	-36	16
TP2	-0.2	-11	42
TP3	-3.4	-170	40
TP4	-4.5	-224	77
TP5	-6.7	-333	36

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

\*Figures have been adjusted as a result of a post TP3 site audit

## NON-FERROUS METALS (NON-FERROUS ALLIANCE - NFA)

### Scope and membership of the umbrella agreement

NFA represents the non-ferrous metals sector – copper, zinc, lead, nickel, and galvanizers and battery manufacturers. Aluminium is the subject of a separate agreement.

This sector has a Target Unit that has an installation in EU ETS. The sector has provided information to show performance both in the presence and absence of adjustments applied due to EU ETS.

### Targets

Original and current milestone targets for this sector are shown below as primary kWh (kWh<sub>p</sub>). The targets for this sector are expressed as ‘at an assumed level of throughput’ and the sector has agreed a procedure with DECC for this. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> )	TP1(2002) (kWh <sub>p</sub> )	TP2(2004) (kWh <sub>p</sub> )	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>	5,176,838,835	5,568,437,819	5,939,713,376	5,976,922,362	5,716,221,438	5,776,580,063
<b>At TP1</b>	5,986,760,187	6,345,235,016	6,705,213,171	6,722,001,578	6,437,918,013	6,470,971,972
<b>2004 Review*</b>	-	-	-	7.67%	6.88%	6.15%
<b>At TP2</b>	4,410,409,782	-	4,757,303,923	4,442,372,516	4,463,706,018	4,478,409,612
<b>At TP3</b>	4,388,016,950	-	-	4,200,830,922	4,210,131,187	4,213,410,678
<b>2008 Review*</b>	-	-	-	-	-	2.5%
<b>At TP4</b>	4,218,810,962	-	-	-	4,212,873,857	4,091,343,142
<b>At TP5</b>	4,071,776,817	-	-	-	-	3,960,611,821

\* The rows ‘2004 Review’ and ‘2008 Review’ show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 10 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 32 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 22 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 120,114,576 kWh<sub>p</sub> (Note - figures rounded for presentation).

#### Other adjustments

The sector has an agreed methodology for adjusting the targets for throughput; this resulted in a net change to the sector target of -877,769,127 kWh<sub>p</sub>.

An EU ETS adjustment was also made, but the effect of this adjustment is reported separately below.

**Final adjusted CCA sector target for the TP5 (without adjustments for EU ETS)**

As a consequence of the adjustments described (i.e without adjustments for EU ETS), the final sector target for the TP5 was 3,202,957,272 kWh<sub>p</sub>.

**Sector performance recorded**

The following table shows the sector performance against the equivalent<sup>37</sup> baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (kWh <sub>p</sub> )	Production	SEC	Energy (kWh <sub>p</sub> )	Production	SEC
<b>TP1</b>	5,986,760,187	N/A	N/A	5,380,280,623	N/A	N/A
<b>TP2</b>	4,410,409,782	N/A	N/A	3,947,755,102	N/A	N/A
<b>TP3</b>	4,388,016,950	N/A	N/A	3,377,244,326	N/A	N/A
<b>TP4</b>	4,218,810,962	N/A	N/A	3,349,456,627	N/A	N/A
<b>TP5</b>	4,071,776,817	N/A	N/A	2,986,549,662	N/A	N/A

**Adjustment for overlap with EU ETS**

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. Overall, there was an EU ETS excess of 359 tCO<sub>2</sub> which resulted in an adjustment (tightening) of - 2,020,314 kWh<sub>p</sub>.

**Commentary**

The sector performance of 2,986,549,662 kWh<sub>p</sub> is below the CCA adjusted target of 3,202,957,272 kWh<sub>p</sub> and, therefore, the sector met its CCA target (before adjustments for EU ETS).

The adjustment for overlap with EU ETS changed the CCA target to 3,200,936,959 kWh<sub>p</sub> and, therefore, the sector also met its final adjusted target for TP5. All facilities reporting have been recertified because the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

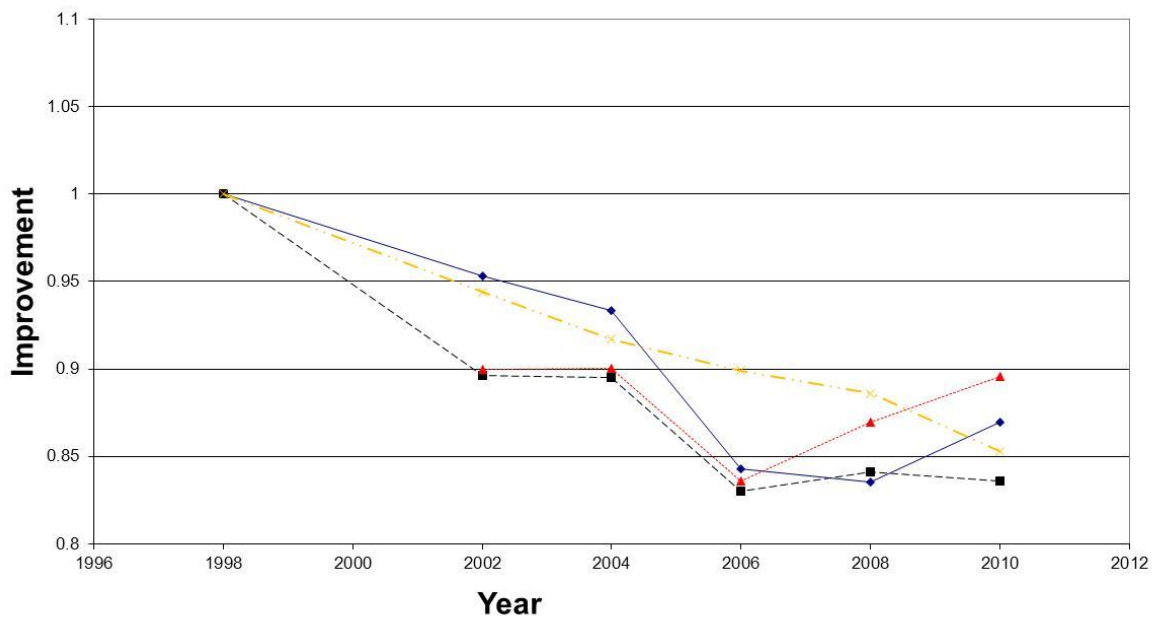
<sup>37</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	4.7%	10%
TP2	6.6%	11%
TP3	16%	17%
TP4	16%	16%
TP5	2.7%	27%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### NFA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-2.2	-137
TP2	-1.7	-78
TP3	-2.5	-125
TP4	-2.3	-115
TP5	-2.1	-105

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. The percentage change in throughput is not shown as the sector uses mixed units to calculate its throughput. (Negative values imply a fall in emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-2.2	-134	N/A
TP2	-1.7	-78	N/A
TP3	-3.6	-183	N/A
TP4	-3.1	-158	N/A
TP5	-3.9	-193	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## PACKAGING AND INDUSTRIAL FILMS (PACKAGING AND FILMS ASSOCIATION - PIFA)

### Scope and membership of the umbrella agreement

PIFA represents the companies in the UK that produce and supply plastic film produced using extrusion to convert melted polymer into blown or cast film. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in kilograms of carbon per tonne (kgC/tonne). The sector agreement is a relative carbon agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kgC/t	TP1(2002)	TP2(2004)	TP3(2006) kgC/t	TP4(2008) kgC/t	TP5(2010) kgC/t
<b>Original</b>	80.12	N/A	N/A	77.71	74.51	70.50
<b>At TP3</b>	80.35	N/A	N/A	77.82	74.72	70.71
<b>2008 Review*</b>	-	-	-	-	-	1%
<b>At TP4</b>	75.92	-	-	-	70.83	66.09
<b>At TP5</b>	77.41	-	-	-	-	67.30

\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 6 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 33 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 27 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 7.49 kgC/t (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the

TP5 was 74.78 kgC/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>38</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Carbon (kgC)	Production (tonnes)	SCC (kgC/tonne)	Carbon (kgC)	Production (tonnes)	SCC (kgC/tonne)
<b>TP3</b>	20,556,099	255,835	80.35	20,905,047	259,169	80.66
<b>TP4</b>	58,695,392	773,092	75.92	58,594,052	783,340	74.80
<b>TP5</b>	73,391,250	948,056	77.41	74,367,655	992,356	74.94

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 74.94 kgC/t is above the CCA adjusted target of 74.78 kgC/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP3</b>	3.2%	-0.4%
<b>TP4</b>	6.7%	1.5%
<b>TP5</b>	13%	3.2%

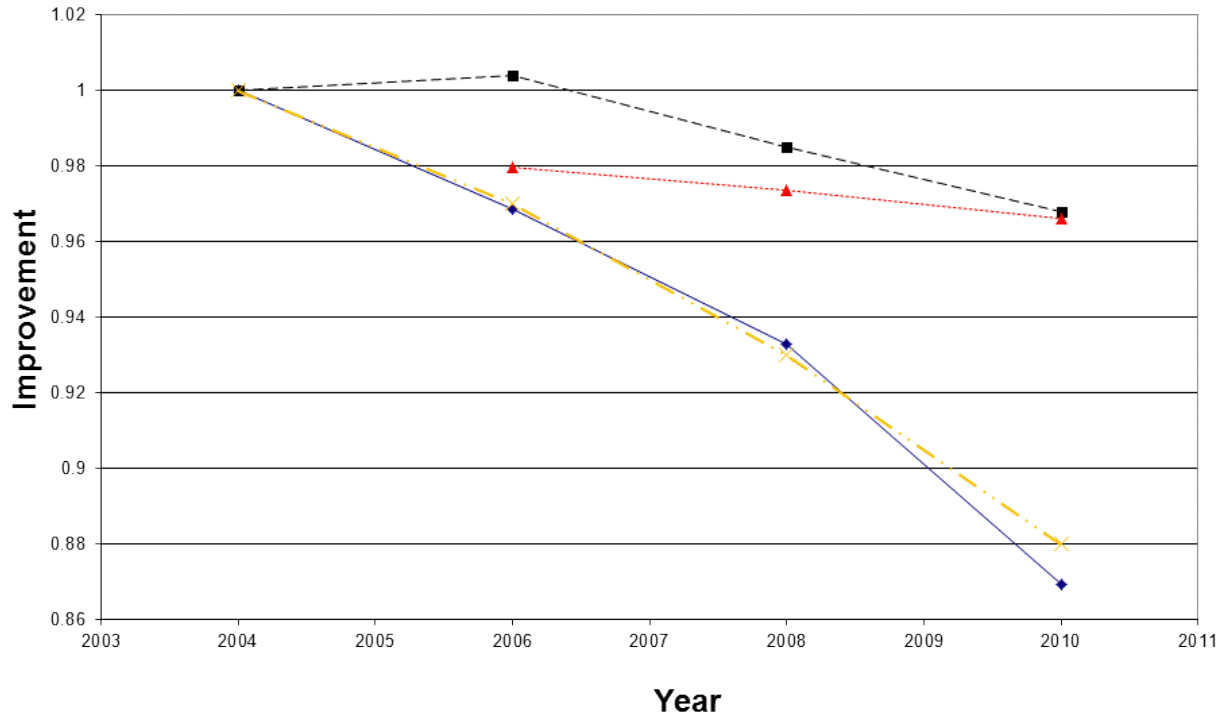
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>38</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Graph of performance and current targets relative to the base year

PIFA TP5 Performance



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP3</b>	0.01	0.30
<b>TP4</b>	-0.07	-3
<b>TP5</b>	-0.2	-9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP3</b>	0.03	1	1
<b>TP4</b>	-0.01	-0.4	1
<b>TP5</b>	0.08	4	5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## PAPER (CONFEDERATION OF PAPER INDUSTRIES - CPI)

### Scope and membership of the umbrella agreement

The Confederation of Paper Industries (CPI – formerly known as The Paper Federation) represents the paper industry in the UK. The CPI CCA covers all eligible facilities of the UK paper manufacturing industry.

Most of the sector Target Units are also installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t) of paper produced. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The baseline represents the best equivalent figure for the performance of the UK paper manufacturing industry as a whole in 1990 and, consequently, is not altered for any exits or entrants from the agreement. The baseline does not form part of the CCA and is used only for comparative purposes.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	6,576	4,659	4,420	4,199	4,090	3,959
<b>At TP1</b>	6,576	4,637	4,416	4,349	4,265	4,163
<b>2004 Review*</b>	-	-	-	2.78%	2.21%	2.60%
<b>At TP2</b>	6,576	-	4,454	4,264	4,205	4,088
<b>At TP3</b>	6,576	-	-	4,287	4,215	4,098
<b>2008 Review*</b>	-	-	-	-	-	5.0%
<b>At TP4</b>	6,576	-	-	-	4,235	3,977
<b>At TP5</b>	6,576	-	-	-	-	4,212

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

The sector operates a collective trading arrangement, which, at this target period, encompassed all target units within the sector.

- Allowances equivalent to 139 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 139 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 3,801 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -411 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>39</sup> baseline for all target periods to date.

	Equivalent baseline (1990)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
TP1	25,902,356,203	3,939,080	6,576	28,595,774,290	6,388,404	4,476
TP2	25,902,356,203	3,939,080	6,576	27,216,229,382	6,358,595	4,280
TP3	25,902,356,203	3,939,080	6,576	22,856,344,695	5,630,279	4,060
TP4	25,902,356,203	3,939,080	6,576	20,696,540,994	5,253,107	3,940
TP5	25,902,356,203	3,939,080	6,576	17,349,232,378	4,564,017	3,801

### Adjustment for overlap with EU ETS

44 Target Units (sites) within the sector trading group reporting at TP5 overlap with EU ETS installations and were required to adjust their targets for double counting between these two schemes.

Overall there was an EU ETS surplus of 487 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of 575 kWh<sub>p</sub>/t. This is included within the adjusted target described above.

### Commentary

The sector performance of 3,801 kWh<sub>p</sub>/t is below the CCA adjusted target of 3,801 kWh<sub>p</sub>/t (both rounded for presentation) and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

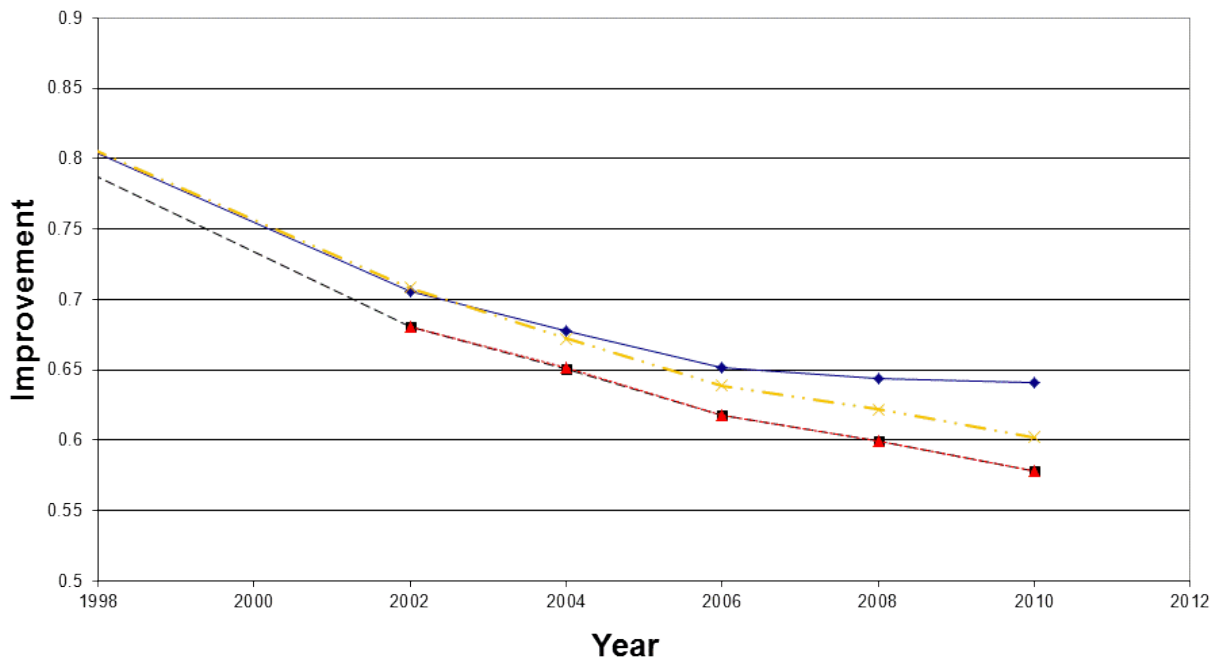
<sup>39</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	30%	32%
TP2	32%	35%
TP3	35%	38%
TP4	36%	40%
TP5	36%	42%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### CPI TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-49.0	-2,540
TP2	-52.5	-2,758
TP3	-51.0	-2,683
TP4	-49.8	-2,599
TP5	-45.6	-2,350

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	9.7	510	62
TP2	4.7	248	61
TP3	-11.0	-577	43
TP4	-18.7	-977	33
TP5	-30.8	-1,588	16

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## PIG FARMING (NATIONAL FARMERS UNION – NFU)

### Scope and membership of the umbrella agreement

The NFU pigs agreement covers sites undertaking the intensive rearing of pigs. This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per kilogram (kWh<sub>p</sub>/kg) of live weight. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /kg)	TP1(2002) (kWh <sub>p</sub> /kg)	TP2(2004) (kWh <sub>p</sub> /kg)	TP3(2006) (kWh <sub>p</sub> /kg)	TP4(2008) (kWh <sub>p</sub> /kg)	TP5(2010) (kWh <sub>p</sub> /kg)
<b>Original</b>	1.178	1.104	1.058	1.035	1.001	0.966
<b>At TP1</b>	1.178	1.104	1.058	1.035	1.001	0.966
<b>2004 Review*</b>	-	-	-	11.3%	10.6%	11.0%
<b>At TP2</b>	1.281	-	1.131	0.982	0.956	0.919
<b>At TP3</b>	1.271	-	-	0.974	0.949	0.911
<b>2008 Review*</b>	-	-	-	-	-	4.0%
<b>At TP4</b>	1.460	-	-	-	1.016	0.935
<b>At TP5</b>	1.306	-	-	-	-	0.909

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 2 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 3 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 1 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 0.027 (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 0.936 kWh<sub>p</sub>/kg.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>40</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)
<b>TP1*</b>	449,754,685	366,745,044	1.226	374,326,219	353,132,242	1.060
<b>TP2</b>	343,374,784	267,975,253	1.281	271,263,380	270,487,096	1.003
<b>TP3</b>	312,196,679	245,634,153	1.271	249,381,302	270,356,448	0.922
<b>TP4</b>	284,389,628	194,789,397	1.460	195,368,140	236,994,983	0.824
<b>TP5</b>	238,784,489	182,878,569	1.306	187,949,443	222,446,269	0.845

\* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 0.845 kWh<sub>p</sub>/kg is below the CCA adjusted target of 0.936 kWh<sub>p</sub>/kg, and therefore the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

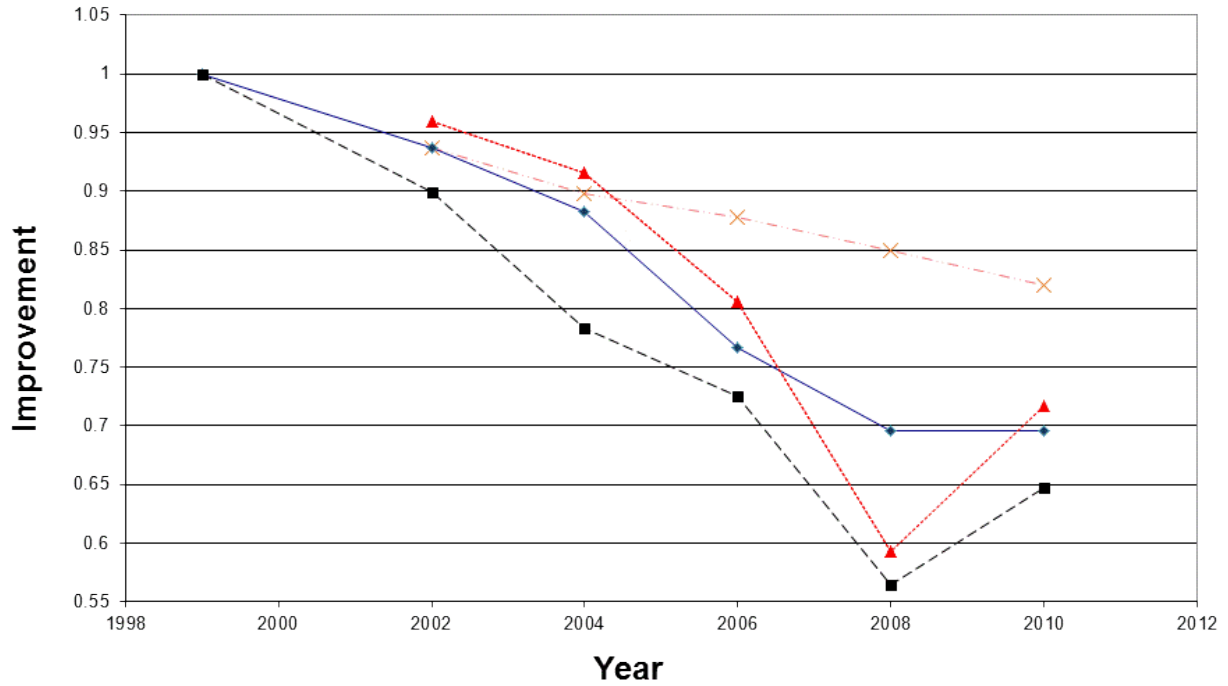
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1*</b>	6.3%	10%
<b>TP2</b>	12%	22%
<b>TP3</b>	23%	27%
<b>TP4</b>	30%	44%
<b>TP5</b>	30%	35%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes. \* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

<sup>40</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



**Graph of performance and current targets relative to the base year**  
**NFU Pigs TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.2	-11
TP2	-0.3	-13
TP3	-0.3	-16
TP4	-0.5	-26
TP5	-0.4	-18

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.3	-14	-4
TP2	-0.3	-13	0.9
TP3	-0.2	-11	10
TP4	-0.3	-16	22
TP5	-0.2	-9	22

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## PLASTICS (BRITISH PLASTICS FEDERATION - BPF)

### Scope and membership of the umbrella agreement

BPF represents the plastics sector in the UK. For the purposes of Climate Change Agreements (CCAs), members of this sector produce plastic materials or plastic products either by a) the application of heat and pressure to; or b) by chemical reaction involving, plastic powder, granules, shredded waste or liquid. This CCA is an Energy Intensity CCA, which reported for the first time at Target Period 5 (TP5).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per kg of saleable product (kWh<sub>p</sub>/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2006 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /kg)	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010) (kWh <sub>p</sub> /kg)
<b>Original</b>	3.931	N/A	N/A	N/A	N/A	3.460
<b>At TP5</b>	3.931	N/A	N/A	N/A	N/A	3.460

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 42 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 87 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 45 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 0.166 kWh<sub>p</sub>/kg (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 3.626 kWh<sub>p</sub>/kg.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>41</sup> baseline for all target periods to date.

	Equivalent baseline (2006)			Performance		
	Energy (kWh <sub>p</sub> )	Production (kg)	SEC (kWh <sub>p</sub> /kg)	Energy (kWh <sub>p</sub> )	Production (m <sup>3</sup> )	SEC (kWh <sub>p</sub> /kg)
TP5	6,077,211,030	1,545,806,851	3.931	5,733,721,965	1,625,892,685	<b>3.527</b>

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 3.527 kWh<sub>p</sub>/kg is below the CCA adjusted target of 3.626 kWh<sub>p</sub>/kg, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2006) position at each target period.

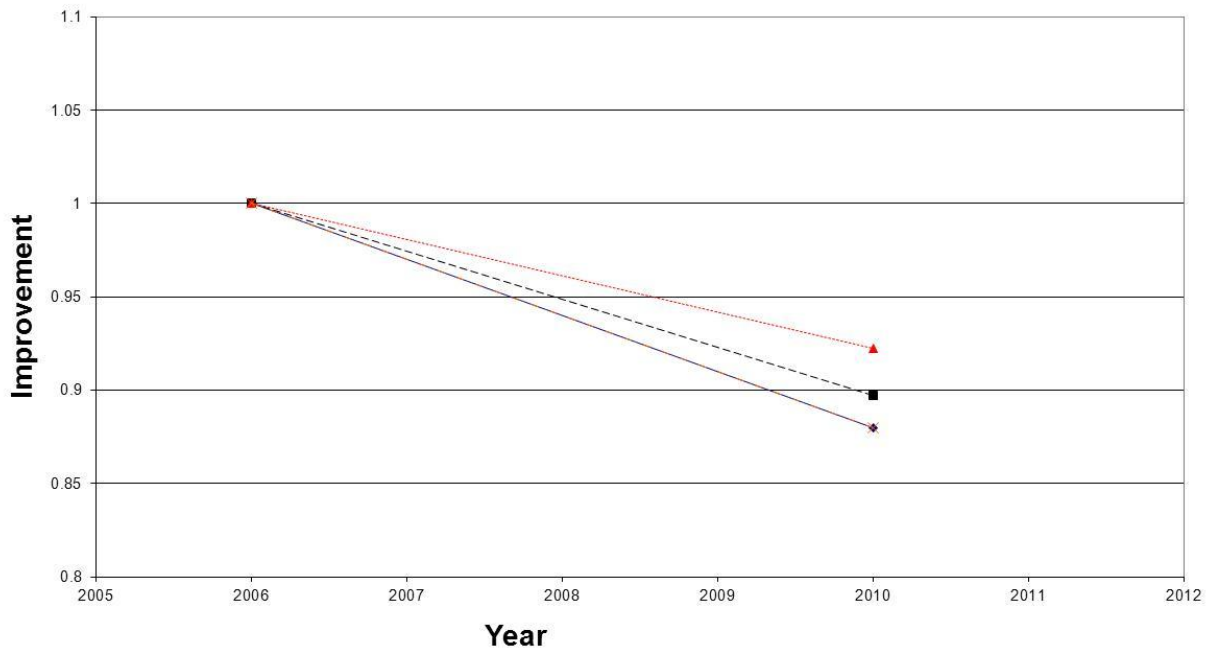
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP5	12%	10%

<sup>41</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

### Graph of performance and current targets relative to the base year

#### BPF TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

### Impact of the sector performance

#### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year (2006) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP5	-2.4	-111

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2006) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP5	-1.2	-58	5

## POULTRY MEAT PROCESSING (BRITISH POULTRY COUNCIL – BPC)

### Scope and membership of the umbrella agreement

The British Poultry Council poultry meat processing agreement principally covers slaughter/meat processing plants, but also a small number of feed mills that are dedicated to serving farms within companies' integrated production structures.

This sector has Target Units with installations in EU ETS. The sector has provided information to show performance both in the presence and absence of adjustments applied due to EU ETS.

### Targets

The targets for this sector are given in primary kWh per tonne of production (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	743.3	689.7	680.1	670.5	661.0	651.5
<b>At TP1</b>	694.3	649.8	640.6	631.5	622.6	613.6
<b>2004 Review*</b>	-	-	-	1.5%	2.5%	3.9%
<b>At TP2</b>	665.1	-	611.6	594.4	580.1	563.5
<b>At TP3</b>	651.2	-	-	582.0	567.9	551.7
<b>2008 Review*</b>	-	-	-	-	-	0%
<b>At TP4</b>	609.3	-	-	-	543.5	528.6
<b>At TP5</b>	592.0	-	-	-	-	513.5

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 69 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 23 ktCO<sub>2</sub> were purchased

Overall, there was a net ring-fencing of 46 ktCO<sub>2</sub>, equivalent to a sector target change (tightening) of -75.2 kWh<sub>p</sub>/t (Note – figures rounded for presentation).

### Other adjustments

EU ETS adjustments were also made, but the effect of these adjustments is reported separately on the following page.

### Final adjusted CCA sector target for the TP5 (without adjustments for EU ETS)

As a consequence of the adjustments described (i.e without adjustments for EU ETS), the final sector target for the TP5 was 438.3 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>42</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
TP1	1,972,981,832	2,841,829	694.3	2,110,390,477	3,379,220	624.5
TP2	1,810,054,398	2,721,589	665.1	2,029,881,235	3,265,232	621.7
TP3	1,692,621,599	2,599,081	651.2	1,891,874,848	3,222,772	587.0
TP4	1,518,995,084	2,493,082	609.3	1,797,026,407	3,215,821	558.8
TP5	1,539,298,541	2,600,314	592.0	1,762,911,986	3,431,982	513.7

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Unit had its target eased due to double counting. Overall, there was an EU ETS deficit of 2 ktCO<sub>2</sub> that resulted in an adjustment (easing) to the CCA target of 3.8 kWh<sub>p</sub>/t.

### Commentary

The sector performance of 513.7 kWh<sub>p</sub>/t is above the CCA adjusted target of 438.3 kWh<sub>p</sub>/t and, therefore, the sector did not meet its CCA target (before adjustments for EU ETS).

The adjustment for overlap with EU ETS changed the CCA target to 442.1 kWh<sub>p</sub>/t and, therefore, the sector also did not meet its final adjusted target for TP5. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>42</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

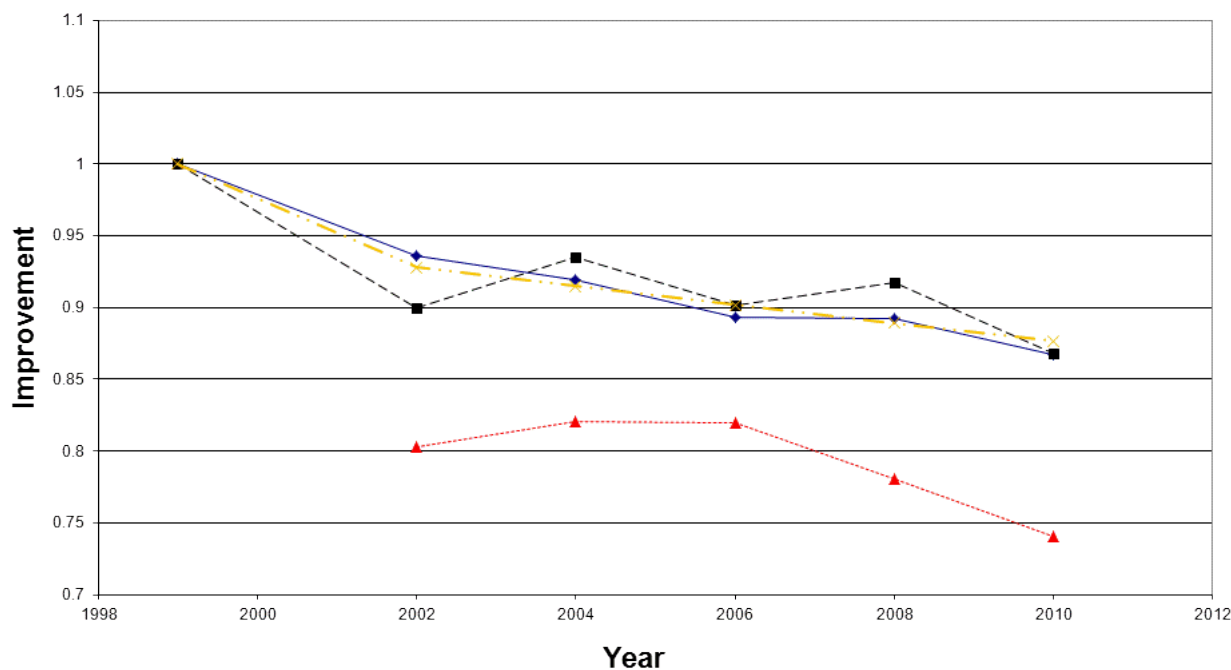


Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	6.4%	10%
TP2	8.0%	6.5%
TP3	11%	10%
TP4	11%	8.3%
TP5	13%	13%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BPC Processing TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.8	-38
TP2	-0.5	-26
TP3	-0.7	-38
TP4	-0.6	-29
TP5	-1.0	-48

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	0.5	30	19
TP2	0.8	40	20
TP3	0.7	36	24
TP4	1.0	50	29
TP5	0.8	40	32

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## POULTRY MEAT PRODUCTION (NATIONAL FARMERS UNION – NFU)

### Scope and membership of the umbrella agreement

The NFU poultry meat production agreement covers sites undertaking the intensive rearing of poultry for meat.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per kilogram of live weight (kWh<sub>p</sub>/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /kg)	TP1(2002) (kWh <sub>p</sub> /kg)	TP2(2004) (kWh <sub>p</sub> /kg)	TP3(2006) (kWh <sub>p</sub> /kg)	TP4(2008) (kWh <sub>p</sub> /kg)	TP5(2010) (kWh <sub>p</sub> /kg)
<b>Original</b>	0.765	0.731	0.713	0.690	0.668	0.653
<b>At TP1</b>	0.765	0.731	0.713	0.690	0.668	0.653
<b>2004 Review*</b>	-	-	-	22.7%	22.7%	22.7%
<b>At TP2</b>	1.230	-	1.134	0.846	0.818	0.799
<b>At TP3</b>	1.255	-	-	0.863	0.834	0.815
<b>2008 Review*</b>	-	-	-	-	-	3.9%
<b>At TP4</b>	1.610	-	-	-	0.960	0.896
<b>At TP5</b>	1.294	-	-	-	-	0.890

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 10 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 10 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 0.099 kWh<sub>p</sub>/kg (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the

TP5 was 0.989 kWh<sub>p</sub>/kg.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>43</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)	Energy (kWh)	Production (kg)	SEC (kWh <sub>p</sub> /kg)
<b>TP1*</b>	623,752,307	530,011,862	1.177	576,782,605	604,206,439	0.955
<b>TP2</b>	559,596,594	455,045,922	1.230	478,721,051	546,096,662	0.877
<b>TP3</b>	545,236,392	434,366,661	1.255	456,840,957	561,347,687	0.814
<b>TP4</b>	592,604,550	368,048,811	1.610	345,861,035	462,773,576	0.747
<b>TP5</b>	457,723,432	353,721,623	1.294	382,426,812	505,388,841	0.757

\* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 0.757kWh<sub>p</sub>/kg is below the CCA adjusted target of 0.989 kWh<sub>p</sub>/kg, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1*</b>	4.3%	-25%
<b>TP2</b>	7.8%	29%
<b>TP3</b>	31%	35%
<b>TP4</b>	40%	54%
<b>TP5</b>	31%	42%

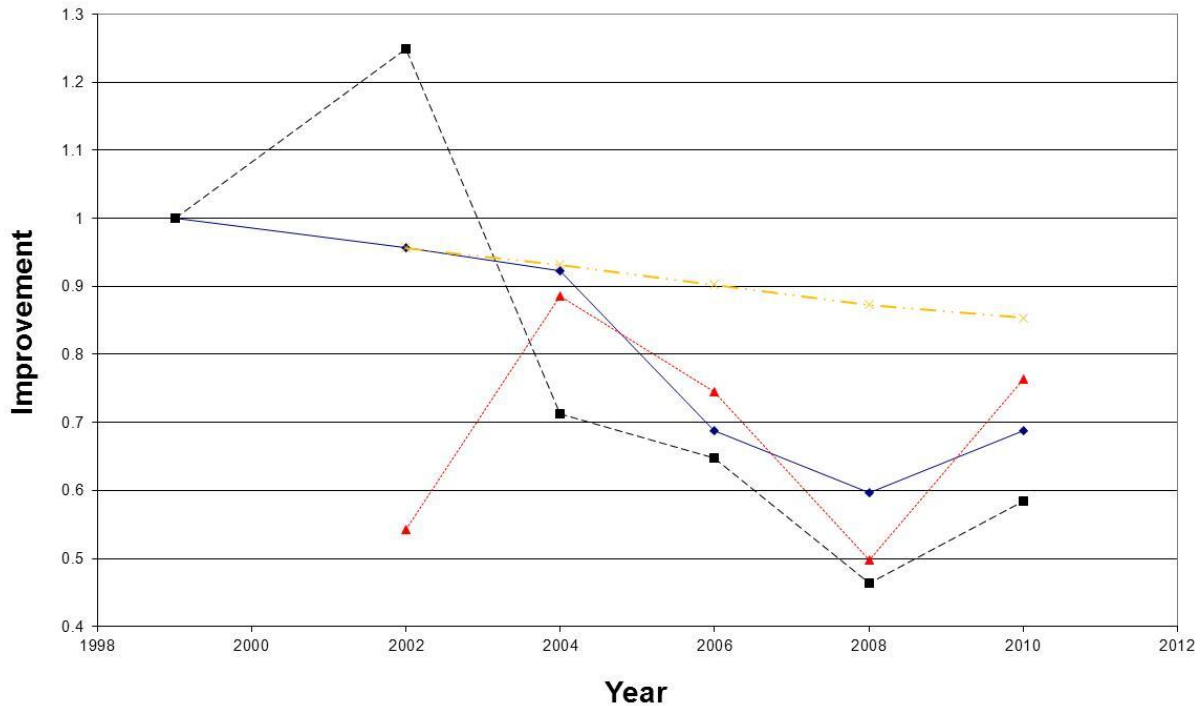
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

\* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

<sup>43</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary

### Graph of performance and current targets relative to the base year

#### NFU Poultry TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

### Impact of the sector performance

#### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput had remained constant at the target period throughput level. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Annual Change in Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.5	-28
TP2	-0.7	-40
TP3	-0.9	-51
TP4	-1.4	-82
TP5	-1.0	-56

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Annual Change in Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.2	-10	14
TP2	-0.3	-17	20
TP3	-0.3	-18	29
TP4	-0.9	-51	26
TP5	-0.3	-16	43

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## POULTRY MEAT REARING (BRITISH POULTRY COUNCIL – BPC)

### Scope and membership of the umbrella agreement

The British Poultry Council Poultry Meat Rearing Agreement covers sites undertaking the intensive rearing of poultry for meat. The scope of this agreement is essentially the same as that for the NFU Poultry Meat Rearing agreement, but participants in the BPC agreement tend to be the larger, integrated producers.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne of production (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	1,498	1,425	1,392	1,351	1,310	1,283
<b>At TP1</b>	1,490	1,414	1,381	1,340	1,299	1,271
<b>At TP2</b>	1,475	-	1,296	1,137	1,106	1,081
<b>2004 Review*</b>	1,155	-	-	1.6% 1,137	4.3% 1,106	6.4% 1,081
<b>At TP3</b>	1,148	-	-	1,127	1,099	1,075
<b>2008 Review*</b>	-	-	-	-	-	2.0%
<b>At TP4</b>	1,146	-	-	-	1,086	1,047
<b>At TP5</b>	1,143	-	-	-	-	1,039

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews. The row '2004 review' of targets was not completed until after the results of TP2 were known. It was agreed that the sector be rebaselined to TP2 performance and given tighter targets as shown above.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 5 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 31 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 26 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 109 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

**Final adjusted CCA sector target for the TP5**

As a consequence of the adjustments described, the final sector target for the TP5 was 1,148 kWh<sub>p</sub>/t.

**Sector performance recorded**

The following table shows the sector performance against the equivalent<sup>44</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	1,701,957,155	1,142,494	1,490	1,350,915,612	1,177,459	1,147
<b>TP2</b>	1,667,364,509	1,130,140	1,475	1,351,750,164	1,170,159	1,155
<b>TP3</b>	1,372,206,196	1,194,958	1,148	1,182,542,447	1,108,798	1,067
<b>TP4</b>	1,395,892,647	1,217,644	1,146	1,222,386,373	1,108,807	1,102
<b>TP5</b>	1,395,475,828	1,220,689	1,143	1,256,501,890	1,153,581	1,089

**Adjustment for overlap with EU ETS**

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

**Commentary**

The sector performance of 1,089 kWh<sub>p</sub>/t is below the CCA adjusted target of 1,148 kWh<sub>p</sub>/t, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

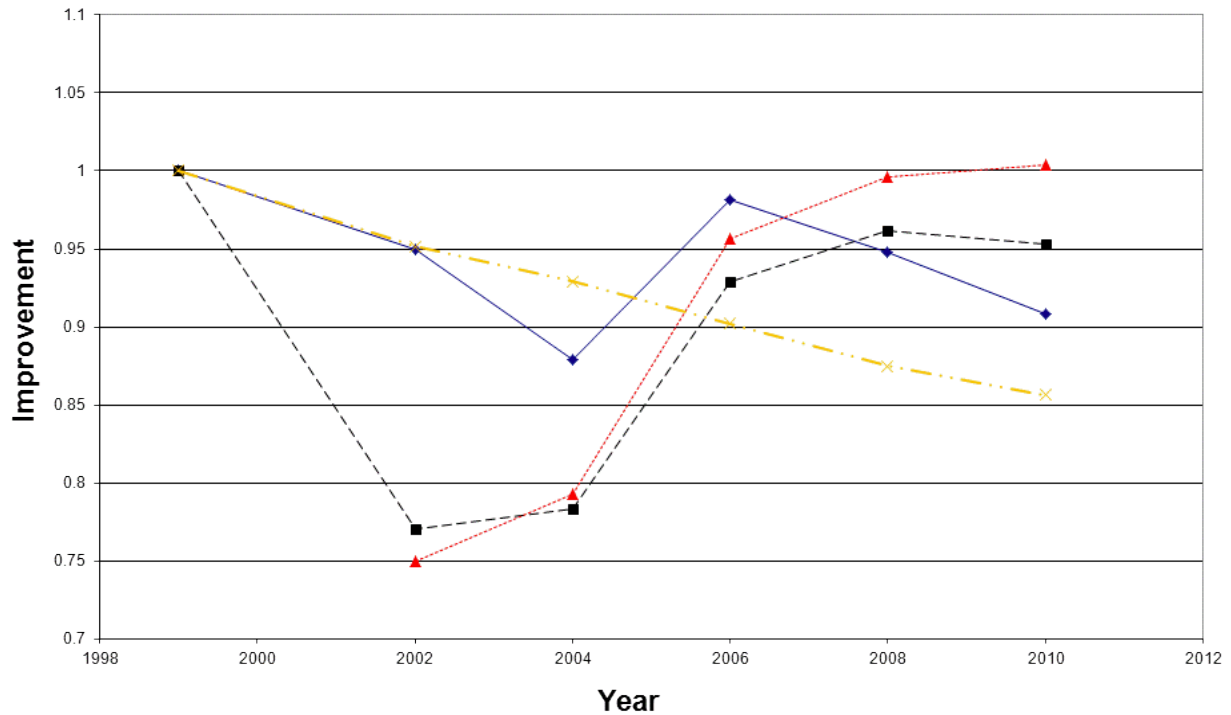
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	5.1%	23%
<b>TP2</b>	12%	22%
<b>TP3</b>	1.9%	7.1%
<b>TP4</b>	5.2%	3.8%
<b>TP5</b>	9.1%	4.7%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>44</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



**Graph of performance and current targets relative to the base year**  
**BPC Poultry Rearing TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kt)
TP1	-1.5	-82
TP2	-1.3	-77
TP3	-0.3	-19
TP4	-0.2	-10
TP5	-0.2	-13

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kt)	Production (%)
TP1	-1.3	-72	3
TP2	-1.1	-65	4
TP3	-0.7	-39	-7
TP4	-0.6	-36	-9
TP5	-0.5	-29	-5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## PRINTING (BRITISH PRINTING INDUSTRIES FEDERATION - BPIF)

### Scope and membership of the umbrella agreement

BPIF represents the printing industry in the UK, including printers of newspapers, books, magazines and stationery, carrying out a range of printing activities, including lithography, letterpress, flexography, gravure and screen process.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per m<sup>2</sup> (kWh<sub>p</sub>/m<sup>2</sup>). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /m <sup>2</sup> )	TP1(2002) (kWh <sub>p</sub> /m <sup>2</sup> )	TP2(2004) (kWh <sub>p</sub> /m <sup>2</sup> )	TP3(2006) (kWh <sub>p</sub> /m <sup>2</sup> )	TP4(2008) (kWh <sub>p</sub> /m <sup>2</sup> )	TP5(2010) (kWh <sub>p</sub> /m <sup>2</sup> )
<b>Original</b>	0.07934	0.07855	0.07696	0.07458	0.07220	0.06982
<b>At TP1</b>	0.06031	0.05971	0.05851	0.05670	0.05489	0.05308
<b>2004 Review*</b>	-	-	-	3.0%	3.0%	4.0%
<b>At TP2</b>	0.06629	-	0.06439	0.06059	0.05871	0.05633
<b>At TP3</b>	0.06369	-	-	0.05856	0.05651	0.05403
<b>2008 Review*</b>	-	-	-	-	-	2.0%
<b>At TP4</b>	0.07278	-	-	-	0.06576	0.06090
<b>At TP5</b>	0.07300	-	-	-	-	0.06124

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 107 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 95 ktCO<sub>2</sub> were purchased

Overall, there was a net ring-fencing of 12 ktCO<sub>2</sub>, equivalent to a sector target change (tightening) of -0.00116 kWh<sub>p</sub>/m<sup>2</sup> (Note – figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 0.06008 kWh<sub>p</sub>/m<sup>2</sup>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>45</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh <sub>p</sub> )	Production (m <sup>2</sup> )	SEC (kWh <sub>p</sub> /m <sup>2</sup> )	Energy (kWh <sub>p</sub> )	Production (m <sup>2</sup> )	SEC (kWh <sub>p</sub> /m <sup>2</sup> )
TP1	2,863,682,550	47,479,158,112	0.06032	2,848,092,064	49,029,657,717	0.05809
TP2	3,264,561,008	49,248,992,563	0.06629	3,441,878,884	56,466,309,762	0.06096
TP3	3,320,915,004	52,138,782,364	0.06369	3,595,335,068	59,371,375,235	0.06056
TP4	3,852,507,161	52,932,865,435	0.07278	4,007,199,855	57,698,822,007	0.06945
TP5	4,394,914,738	60,205,094,761	0.07300	4,417,589,369	58,631,815,237	0.07534

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 0.07534 kWh/m<sup>2</sup> is above the CCA adjusted target of 0.06008 kWh/m<sup>2</sup> and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

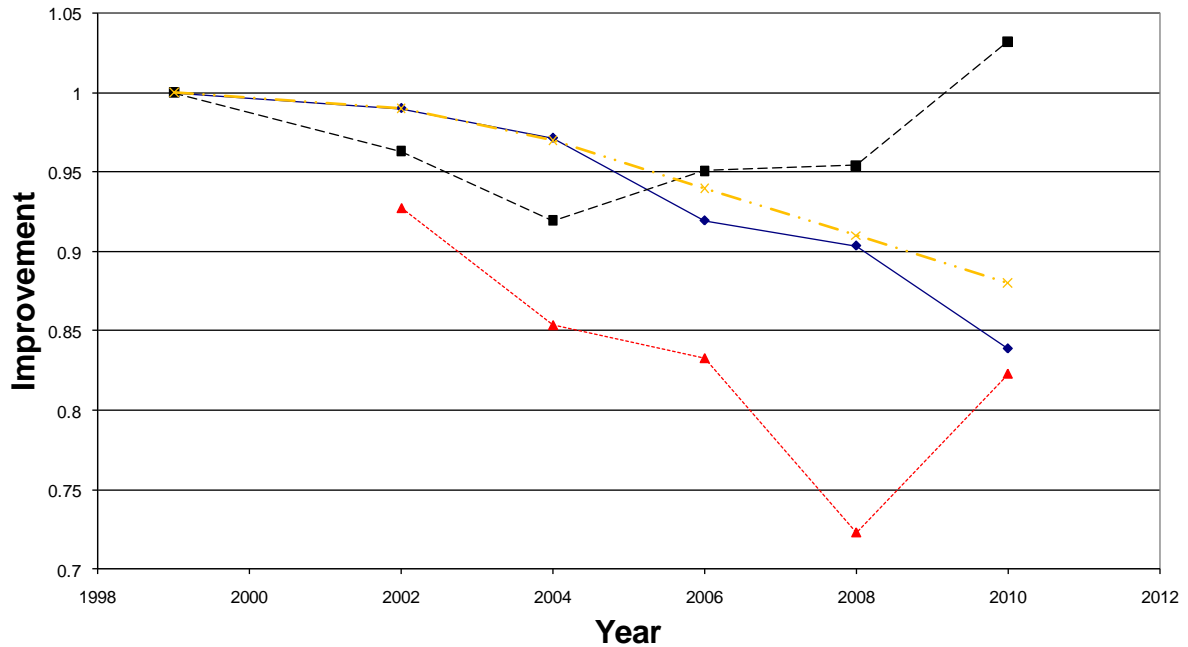
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.0%	3.7%
TP2	2.9%	8.0%
TP3	8.1%	4.9%
TP4	9.6%	4.6%
TP5	16%	-3.2%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>45</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BPIF TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.4	-5.4
TP2	-1.1	-52
TP3	- 0.7	-32
TP4	- 0.7	-33
TP5	0.5	24

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.1	22	3
TP2	0.6	31	15
TP3	1.0	47	14
TP4	0.6	27	9
TP5	0.1	4	-3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## RED MEAT PROCESSING (BRITISH MEAT PROCESSORS ASSOCIATION – BMPA)

### Scope and membership of the umbrella agreement

The BMPA agreement covers abattoirs and primary processing for the red meat sector. This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
Original	648.6	607.3	587.6	571.5	563.3	554.9
At TP1	679.5	636.0	614.6	597.1	588.2	579.1
2004 Review*	-	-	-	0%	0%	0%
At TP2	739.4	644.2	674.4	654.9	644.8	634.7
At TP3	853.5	-	-	759.4	746.9	733.5
2008 Review*	-	-	-	-	-	4.0%
At TP4	836.8	-	-	-	733.3	691.0
At TP5	832.3	-	-	-	-	688.3

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 32 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 34 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 2 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 3.6 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the

TP5 was 691.9 kWh/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>46</sup> baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh/t)	Energy (kWh)	Production (t)	SEC (kWh/t)
<b>TP1</b>	1,603,882,570	2,360,475	679.5	1,528,147,898	2,242,045	681.6
<b>TP2</b>	1,814,611,237	2,454,888	739.2	1,904,325,410	2,588,094	735.8
<b>TP3</b>	1,770,467,699	2,074,330	853.5	1,949,520,705	2,698,445	722.5
<b>TP4</b>	1,698,964,654	2,030,192	836.8	2,017,305,214	2,800,624	720.3
<b>TP5</b>	1,651,483,423	1,984,149	832.3	1,927,128,783	2,772,246	695.2

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 695.2 kWh<sub>p</sub>/t is above the CCA adjusted target of 691.9 kWh/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	6.4%	-0.3%
<b>TP2</b>	8.8%	0.5%
<b>TP3</b>	11%	15%
<b>TP4</b>	12%	14%
<b>TP5</b>	17%	16%

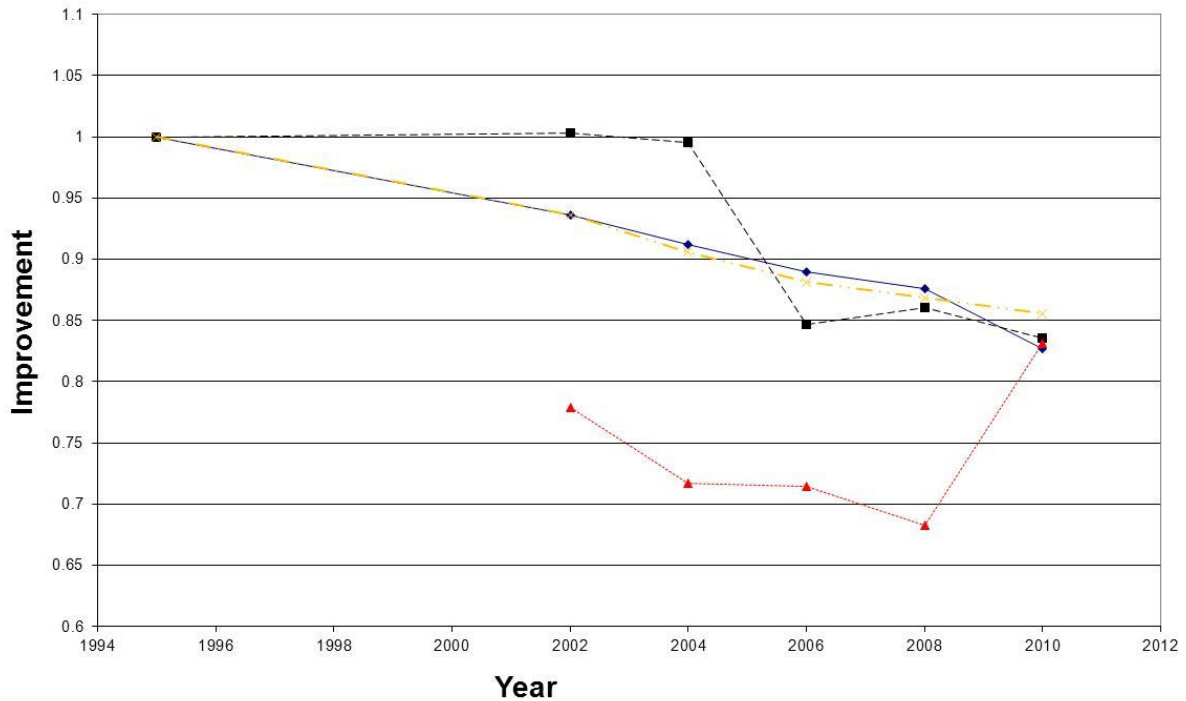
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>46</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



### Graph of performance and current targets relative to the base year

#### BMPA (Formerly BMF) TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	0.02	-12
TP2	-0.03	-2
TP3	-1.3	-62
TP4	-1.2	-57
TP5	-1.4	-67

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.3	-27	-5
TP2	0.3	16	5
TP3	0.6	31	30
TP4	1.2	56	38
TP5	1.0	48	40

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## RENDERERS (THE UK RENDERERS ASSOCIATION - UKRA)

### Scope and membership of the umbrella agreement

UKRA represents plant in the UK rendering sector. A facility belongs to the rendering sector if it is a facility that is engaged in rendering animal material (that is not for human consumption) by utilising heat treatment to reduce moisture content and separation of animal protein from tallow by centrifuging and pressing.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh per tonne of throughput (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	902.0	891.2	871.4	856.0	840.7	825.3
<b>At TP1</b>	892.1	877.0	857.5	842.4	827.3	812.2
<b>2004 Review*</b>	-	-	-	2.5%	2.5%	2.5%
<b>At TP2</b>	936.3	-	899.7	861.8	846.4	830.9
<b>At TP3</b>	926.5	-	-	882.0	865.9	849.9
<b>2008 Review*</b>	-	-	-	-	-	2.0%
<b>At TP4</b>	936.6	-	-	-	877.6	844.2
<b>At TP5</b>	940.3	-	-	-	-	847.2

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 32 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 38 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 6 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 871.3 kWh/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 24.1 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>47</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh <sub>p</sub> )	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	1,503,914,025	1,685,799	892.1	1,374,020,047	1,610,790	853.0
<b>TP2</b>	1,465,880,543	1,565,615	936.3	1,531,215,542	1,763,859	868.1
<b>TP3</b>	1,475,487,877	1,592,466	926.5	1,723,555,106	1,890,191	911.8
<b>TP4</b>	1,355,800,873	1,447,568	936.6	1,442,220,575	1,626,068	886.9
<b>TP5</b>	1,322,467,441	1,406,418	940.3	1,575,109,747	1,795,198	877.4

### Adjustment for overlap with EU ETS

Four Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their target for double counting between these two schemes.

One Target Unit had its target tightened due to double counting and three had their targets eased. Overall, there was an EU ETS deficit of 4 ktCO<sub>2</sub>, which resulted in an adjustment (easing) to the sector target of 10.6 kWh/t.. This is included within the adjusted target described above.

### Commentary

The sector performance of 877.4 kWh/t is above the CCA adjusted target of 871.3 kWh/t and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

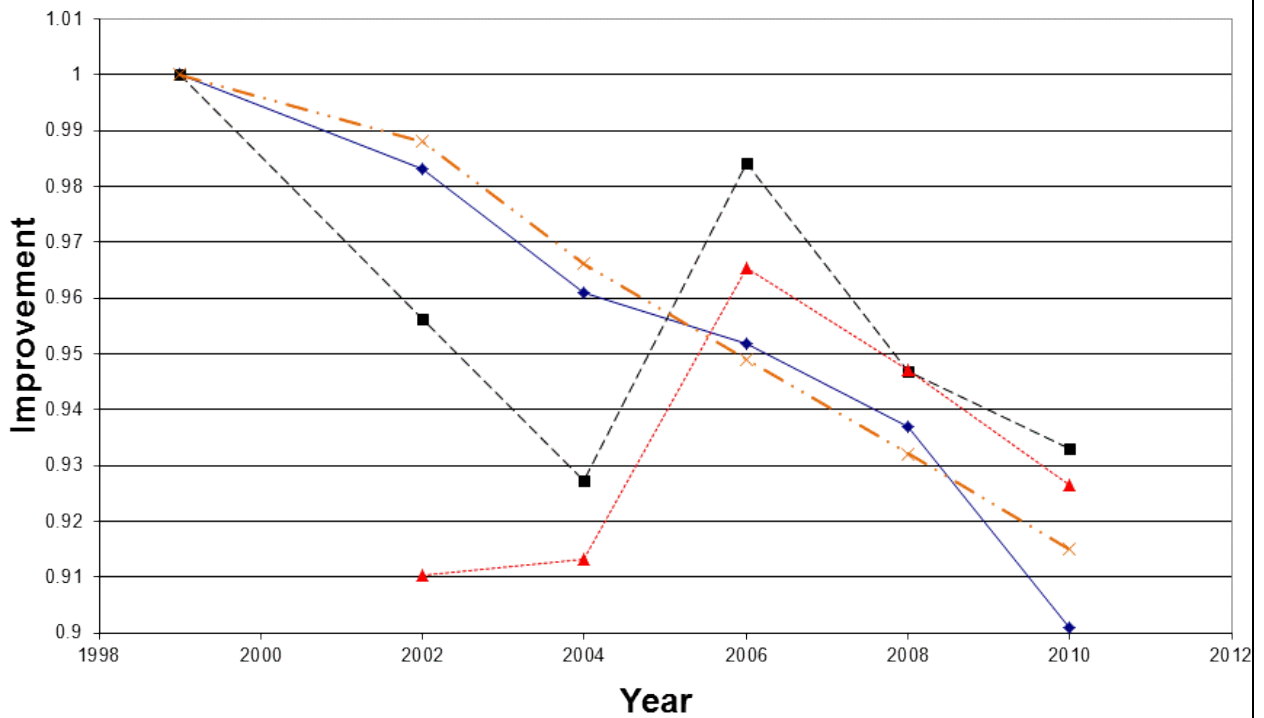
<sup>47</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.7%	4.4%
TP2	3.9%	7.3%
TP3	4.8%	1.6%
TP4	6.3%	5.3%
TP5	9.9%	6.7%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year

UKRA TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.2	-0.6
TP2	-0.4	-28
TP3	-0.1	-7
TP4	-0.3	-18
TP5	-0.4	-25

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.5	-14	-4%
TP2	0.2	15	13%
TP3	0.9	59	19%
TP4	0.3	20	12%
TP5	0.9	56	28%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## RUBBER TYRE MANUFACTURING (BRITISH TYRE MANUFACTURERS ASSOCIATION - BTMA)

### Scope and membership of the umbrella agreement

This agreement is for the manufacture of new tyres and the associated tyre compound. The companies are represented by the British Tyre Manufacturers Association.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	6,775	6,475	6,363	6,252	6,136	5,993
<b>At TP1</b>	7,180	6,887	6,756	6,651	6,525	6,400
<b>2004 Review*</b>	-	-	-	12.6%	12.6%	12.6%
<b>At TP2</b>	7,245	-	6,214	5,865	5,754	5,644
<b>At TP3</b>	7,425	-	-	5,453	5,311	5,205
<b>2008 Review*</b>	-	-	-	-	-	11.5%
<b>At TP4</b>	7,425	-	-	-	5,311	4,607
<b>At TP5</b>	7,425	-	-	-	-	4,607

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 1 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 26 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 24 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 5,191 kWh<sub>p</sub>/t. This includes adjustments for EU ETS adjustments (see details)

on following page) and is equivalent to a sector target change (easing) of 584 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>48</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (t)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	2,676,697,323	372,788	7,180	1,756,485,306	289,215	6,073
<b>TP2</b>	2,708,167,613	373,799	7,245	1,661,545,317	332,312	5,004
<b>TP3</b>	2,592,250,121	349,136	7,425	1,422,304,315	290,303	4,899
<b>TP4</b>	2,592,250,121	349,136	7,425	1,320,117,707	263,672	5,007
<b>TP5</b>	2,592,250,121	349,136	7,425	1,245,212,933	246,440	5,053

### Adjustment for overlap with EU ETS

Three Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their target for double counting between these two schemes.

One Target Unit had its target tightened due to double counting and two had their targets eased. Overall, there was an EU ETS deficit of 1 ktCO<sub>2</sub>, which resulted in an adjustment (easing) to the sector target of 30 kWh/t. This is included within the adjusted target as described.

### Commentary

The sector performance of 5,053 kWh<sub>p</sub>/t is below the CCA adjusted target of 5,191 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
<b>TP1</b>	4%	15%
<b>TP2</b>	14%	31%
<b>TP3</b>	27%	34%
<b>TP4</b>	28%	33%
<b>TP5</b>	38%	32%

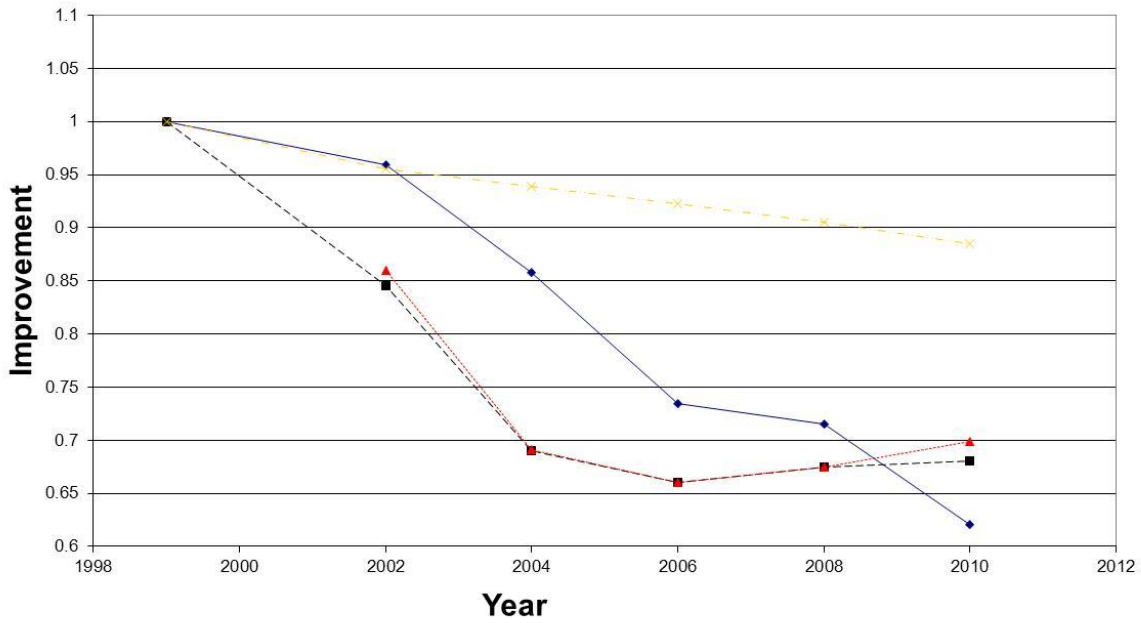
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>48</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Graph of performance and current targets relative to the base year

BTMA TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-1.2	-59
TP2	-2.7	-137
TP3	-2.6	-131
TP4	-2.3	-113
TP5	-2.1	-104

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-3.3	-168	-22
TP2	-3.8	-192	-11
TP3	-4.2	-209	-17
TP4	-4.6	-226	-24
TP5	-4.8	-239	-29

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## SEMICONDUCTOR MANUFACTURE (NATIONAL MICROELECTRONICS INSTITUTE – NMI)

### Scope and membership of the umbrella agreement

NMI represents various micro and nano-electronics manufacturers in the UK, producing semiconductor products.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed as a ratio of target-year performance to base year performance for a particular level of throughput. The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (Ratio)	TP1(2002) (Ratio)	TP2(2004) (Ratio)	TP3(2006) (Ratio)	TP4(2008) (Ratio)	TP5(2010) (Ratio)
<b>Original</b>	1.0	0.7943	0.5089	0.4784	0.4426	0.4108
<b>At TP1</b>	1.0	0.4664	0.2825	0.2524	0.2410	0.2308
<b>2004 Review*</b>	-	-	-	0%	0%	0%
<b>At TP2</b>	1.0	-	0.2868	0.2557	0.2313	0.2208
<b>At TP3</b>	1.0	-	-	0.3236	0.2467	0.2360
<b>2008 Review*</b>	-	-	-	-	-	9.7%
<b>At TP4</b>	1.0	-	-	-	0.2912	0.2548
<b>At TP5</b>	1.0	-	-	-	-	0.2484

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- No carbon was traded

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 0.0864.

A double counting adjustment was made (see following details).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments, the final sector target for the TP5 was 0.3314. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 0.0838.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>49</sup> baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (MWh)	Production (units)	Ratio*	Energy (MWh)	Production (units)	Ratio*
<b>TP1</b>	2,337,092	148,531	1.0	1,984,513	196,337	0.8897
<b>TP2</b>	2,428,764	68,251,161	1.0	2,225,245	169,119,018	0.5394
<b>TP3</b>	3,057,123	70,989,873	1.0	2,371,181	173,930,607	0.2666
<b>TP4</b>	2,823,662	27,926,590	1.0	1,916,695	69,876,001	0.3064
<b>TP5</b>	1,640,723	27,833,283	1.0	1,388,151	22,287,811	0.2344

\*Ratio of target year to base year for actual target period throughput

### Adjustment for overlap with EU ETS

Two Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Both Target Units had their targets tightened due to double counting. Overall, there was an EU ETS excess of 3 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the sector target of -0.0027. This is included within the adjusted target described above.

### Commentary

The sector performance of 0.2344 is below the CCA adjusted target of 0.3314 and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

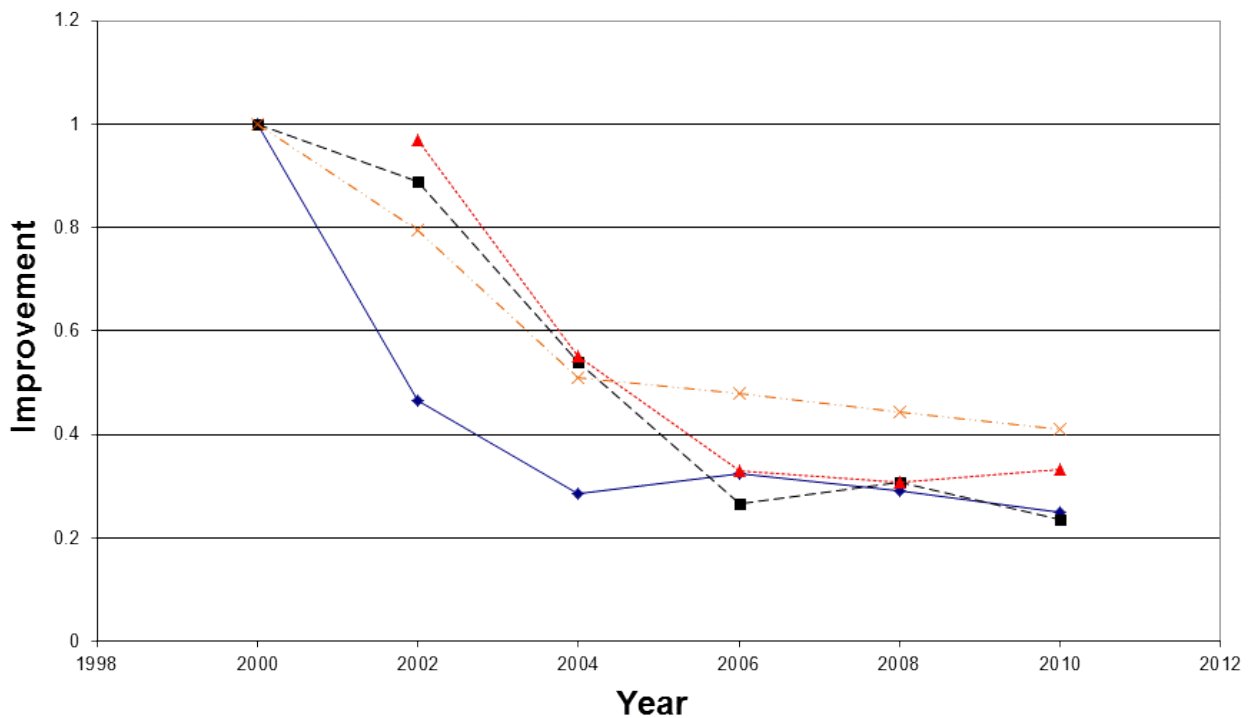
<sup>49</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	53%	11%
TP2	71%	46%
TP3	68%	73%
TP4	71%	69%
TP5	75%	77%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### Semiconductors TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.9	-41
TP2	-6.8	-324
TP3	-23.5	-1,111
TP4	-19.6	-917
TP5	-16.8	-789

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-1.3	-60	32
TP2	-0.7	-35	148
TP3	-2.5	-117	145
TP4	-3.3	-153	150
TP5	-0.9	-43	-19

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## SLAG GRINDING (THE SLAG GRINDERS SECTOR – SGS)

### Scope and membership of the umbrella agreement

This sector has five sites, which take granulated blast furnace slag and grind it to form products for the Construction and Glass Industries.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per tonne (kWh<sub>p</sub>/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /t)	TP1(2002) (kWh <sub>p</sub> /t)	TP2(2004) (kWh <sub>p</sub> /t)	TP3(2006) (kWh <sub>p</sub> /t)	TP4(2008) (kWh <sub>p</sub> /t)	TP5(2010) (kWh <sub>p</sub> /t)
<b>Original</b>	281	280	273	263	257	252
<b>At TP1</b>	278	278	272	261	255	251
<b>2004 Review*</b>	-	-	-	6.1%	5.0%	4.3%
<b>At TP2</b>	278	-	272	245	243	240
<b>At TP3</b>	278	-	-	245	243	240
<b>2008 Review*</b>	-	-	-	-	-	5.0%
<b>At TP4</b>	278	-	-	-	243	228
<b>At TP5</b>	281	-	-	-	-	230

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 1.5 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 1.5 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 6 kWh<sub>p</sub>/t (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for the TP5 was 236 kWh<sub>p</sub>/t.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>50</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)	Energy (kWh)	Production (tonnes)	SEC (kWh <sub>p</sub> /t)
<b>TP1</b>	458,166,678	1,648,899	278	438,161,040	1,702,775	257
<b>TP2</b>	458,166,678	1,648,899	278	506,949,189	2,058,949	246
<b>TP3</b>	458,166,678	1,648,899	278	515,761,454	2,174,309	237
<b>TP4</b>	458,166,678	1,648,899	278	450,991,199	1,996,952	226
<b>TP5</b>	454,370,306	1,619,596	281	307,520,881	1,302,712	236

### Adjustment for overlap with EU ETS

No facilities reporting at TP5 are part of EU ETS and Climate Change Agreements, so no adjustment is required.

### Commentary

The sector performance of 236 kWh<sub>p</sub>/t is below the CCA adjusted target of 236 kWh<sub>p</sub>/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base-year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
<b>TP1</b>	0.0%	7.6%
<b>TP2</b>	2.1%	12%
<b>TP3</b>	12%	15%
<b>TP4</b>	13%	19%
<b>TP5</b>	18%	16%

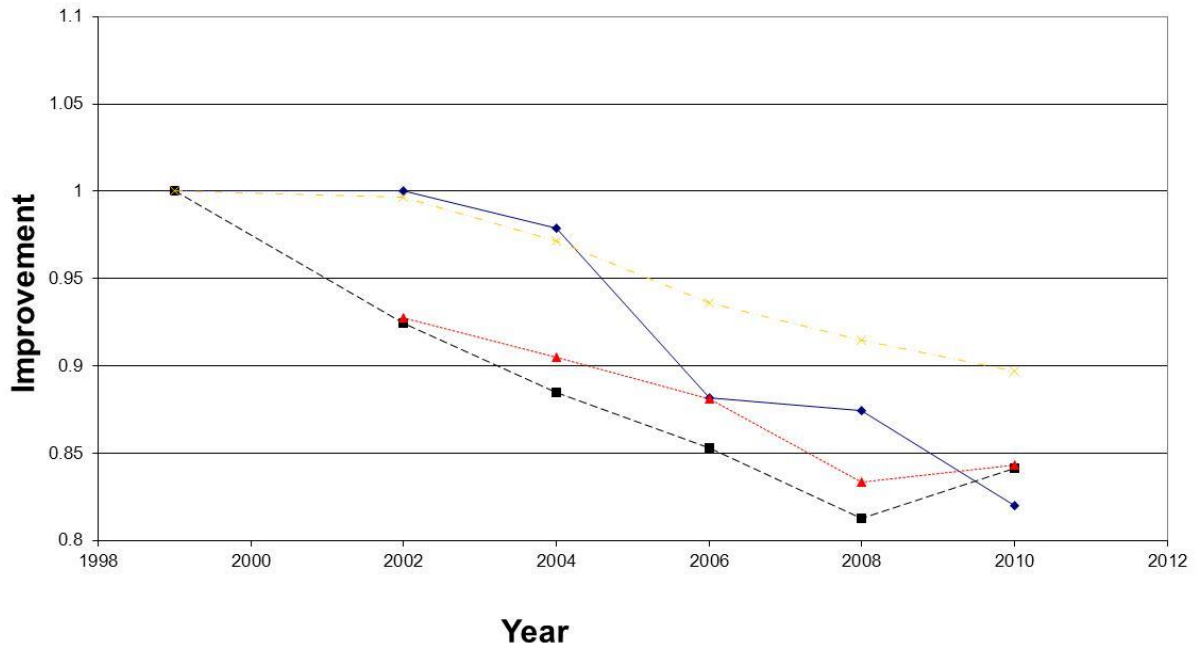
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes. The 0% for TP1 is a consequence of corrections and a new entrant – the individual targets are no less demanding.

<sup>50</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Graph of performance and current targets relative to the base year

SGS TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base-year (1999) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.1	-6
TP2	-0.2	-12
TP3	-0.3	-16
TP4	-0.4	-18
TP5	-0.2	-10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base-year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.1	-4	3
TP2	0.2	9	25
TP3	0.2	10	32
TP4	-0.03	-1	21
TP5	-0.5	-26	-20

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

<b>SPIRITS (THE SPIRITS ENERGY EFFICIENCY COMPANY - SEEC)</b>																																																																					
<p><b>Scope and membership of the umbrella agreement</b></p> <p>SEEC is jointly operated by the Scotch Whisky Association and the Wine and Spirit Trade Association. The SEEC agreement covers the vast majority of UK spirit drinks production.</p> <p>This sector has Target Units that have installations in EU ETS.</p>																																																																					
<p><b>Targets</b></p> <p>The targets for this sector are expressed in primary kWh per litre of pure alcohol (kWh<sub>p</sub>/lpa). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.</p> <p>The following table shows the targets and equivalent 1999 base year for this sector as originally agreed and at each target period (TP) to date.</p> <table border="1"> <thead> <tr> <th></th> <th>Baseline (kWh<sub>p</sub>/lpa)</th> <th>TP1(2002) (kWh<sub>p</sub>/lpa)</th> <th>TP2(2004) (kWh<sub>p</sub>/lpa)</th> <th>TP3(2006) (kWh<sub>p</sub>/lpa)</th> <th>TP4(2008) (kWh<sub>p</sub>/lpa)</th> <th>TP5(2010) (kWh<sub>p</sub>/lpa)</th> </tr> </thead> <tbody> <tr> <td>Original</td> <td>7.72</td> <td>7.70</td> <td>7.63</td> <td>7.50</td> <td>7.44</td> <td>7.37</td> </tr> <tr> <td>At TP1</td> <td>7.74</td> <td>7.70</td> <td>7.63</td> <td>7.50</td> <td>7.44</td> <td>7.37</td> </tr> <tr> <td>2004 Review*</td> <td>-</td> <td>-</td> <td>-</td> <td>1.0%</td> <td>1.0%</td> <td>2.0%</td> </tr> <tr> <td>At TP2</td> <td>7.74</td> <td>-</td> <td>7.63</td> <td>7.43</td> <td>7.37</td> <td>7.23</td> </tr> <tr> <td>At TP3</td> <td>7.70</td> <td>-</td> <td>-</td> <td>7.36</td> <td>7.24</td> <td>7.10</td> </tr> <tr> <td>2008 Review*</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>8.8%</td> </tr> <tr> <td>At TP4</td> <td>7.64</td> <td>-</td> <td>-</td> <td>-</td> <td>7.24</td> <td>6.48</td> </tr> <tr> <td>At TP5</td> <td>7.99</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>6.30</td> </tr> </tbody> </table> <p>* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.</p>								Baseline (kWh <sub>p</sub> /lpa)	TP1(2002) (kWh <sub>p</sub> /lpa)	TP2(2004) (kWh <sub>p</sub> /lpa)	TP3(2006) (kWh <sub>p</sub> /lpa)	TP4(2008) (kWh <sub>p</sub> /lpa)	TP5(2010) (kWh <sub>p</sub> /lpa)	Original	7.72	7.70	7.63	7.50	7.44	7.37	At TP1	7.74	7.70	7.63	7.50	7.44	7.37	2004 Review*	-	-	-	1.0%	1.0%	2.0%	At TP2	7.74	-	7.63	7.43	7.37	7.23	At TP3	7.70	-	-	7.36	7.24	7.10	2008 Review*	-	-	-	-	-	8.8%	At TP4	7.64	-	-	-	7.24	6.48	At TP5	7.99	-	-	-	-	6.30
	Baseline (kWh <sub>p</sub> /lpa)	TP1(2002) (kWh <sub>p</sub> /lpa)	TP2(2004) (kWh <sub>p</sub> /lpa)	TP3(2006) (kWh <sub>p</sub> /lpa)	TP4(2008) (kWh <sub>p</sub> /lpa)	TP5(2010) (kWh <sub>p</sub> /lpa)																																																															
Original	7.72	7.70	7.63	7.50	7.44	7.37																																																															
At TP1	7.74	7.70	7.63	7.50	7.44	7.37																																																															
2004 Review*	-	-	-	1.0%	1.0%	2.0%																																																															
At TP2	7.74	-	7.63	7.43	7.37	7.23																																																															
At TP3	7.70	-	-	7.36	7.24	7.10																																																															
2008 Review*	-	-	-	-	-	8.8%																																																															
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At TP5	7.99	-	-	-	-	6.30																																																															
<p><b>Additional adjustments to the TP5 sector target</b></p> <p><b>Carbon trading</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Allowances equivalent to 17 ktCO<sub>2</sub> were converted to allowances or ring-fenced</li> <li><input type="checkbox"/> Allowances equivalent to 44 ktCO<sub>2</sub> were purchased</li> </ul> <p>Overall there was a net purchase of 27 ktCO<sub>2</sub> (Note - figures rounded for presentation).</p> <p><b>Other adjustments</b></p> <p>A double counting adjustment was made (see following details).</p>																																																																					

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 6.15 kWh<sub>p</sub>/lpa. This includes adjustments for EU ETS adjustments (see details on following page) and is equivalent to a sector target change (tightening) of -0.15 kWh<sub>p</sub>/lpa.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>51</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (lpa)	SEC (kWh <sub>p</sub> /lpa)	Energy (kWh)	Production (lpa)	SEC (kWh <sub>p</sub> /lpa)
TP1*	3,427,811,485	443,136,231	7.74	3,199,898,534	424,758,520	7.53
TP2*	3,427,811,485	443,136,231	7.74	2,983,994,186	424,618,313	7.03
TP3	3,373,670,067	438,053,240	7.70	3,047,088,787	457,536,956	6.66
TP4	3,469,029,350	453,872,046	7.64	3,488,330,120	554,206,416	6.29
TP5	3,547,036,600	444,048,608	7.99	3,075,382,663	514,647,145	5.98

\*NOTE: Baseline data was not adjusted for entrants or exits at TP2.

### Adjustment for overlap with EU ETS

Five Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

Four Target Units had their targets tightened, and one Target Unit had its target relaxed due to double counting. Overall there was an EU ETS surplus of 42 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -0.41 kWh/lpa. This is included within the adjusted target described above.

### Commentary

The sector performance of 5.98 kWh<sub>p</sub>/lpa is below the CCA adjusted target of 6.15 kWh<sub>p</sub>/lpa, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

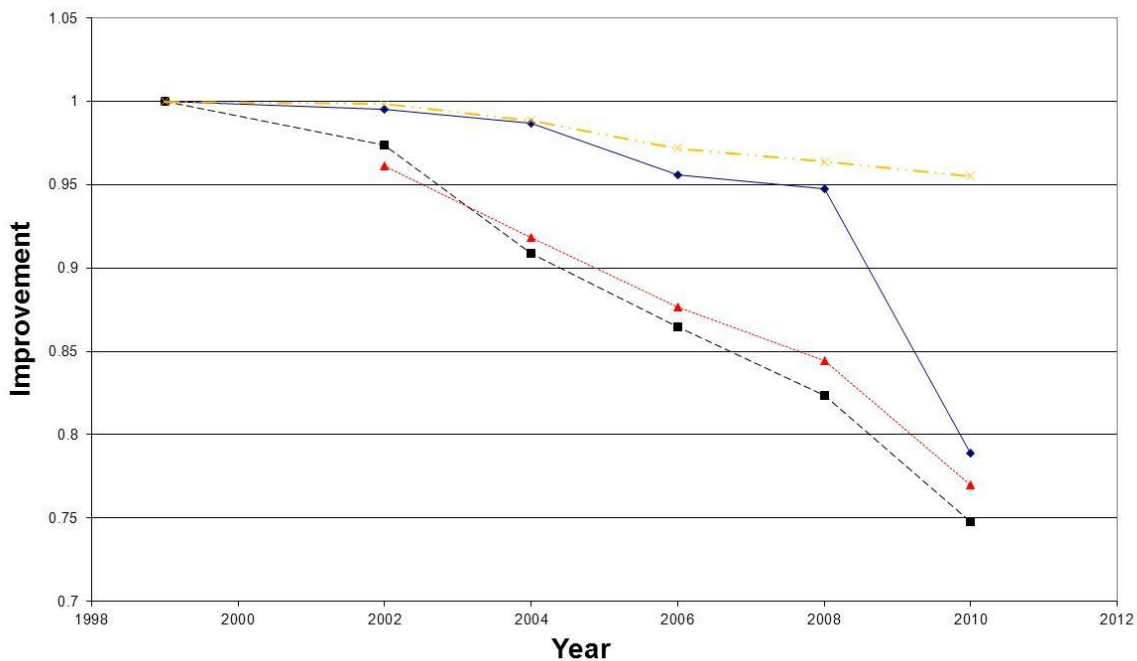
<sup>51</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	0.5%	2.6%
TP2	1.3%	9.2%
TP3	4.4%	14%
TP4	5.2%	18%
TP5	21%	25%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### SEEC MS5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.3	-17
TP2	-1.1	-59
TP3	-1.7	-93
TP4	-2.7	-147
TP5	-3.7	-207

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.8	-45	-4
TP2	-1.6	-94	-4
TP3	-1.2	-64	4
TP4	0.07	3.8	22
TP5	-1.7	-94	16

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## STEEL (UK STEEL – UKSA)

### Scope and membership of the umbrella agreement

The sector consists of five steel-making companies and a larger number of downstream companies. The UK Steel Association is the sector body that represents about 99% of the sector by energy use. The agreements are managed through UK Steel (Environmental) Ltd.

This sector has Target Units with installations in EU ETS.

### Targets

The targets for this sector are expressed in primary petajoules (PJ). The sector agreement is an absolute energy agreement, though some facilities have a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1997 baseline for this sector as originally agreed and at each target period (TP) to date. The TP1 target was adjusted at the 2002 evaluation, but the forward sector targets were not reset at that time. This was because the low output in 2002 was anomalous and there was significant restructuring planned in the industry. The TP2 target was established in 2004 using the latest estimates of predicted throughputs and adjusted in 2005 using actual throughputs, where required.

	Baseline (PJ)	TP1(2002) (PJ)	TP2(2004) (PJ)	TP3(2006) (PJ)	TP4(2008) (PJ)	TP5(2010) (PJ)
<b>Original</b>	407.6	388.3	376.6	368.8	365	360.8
<b>At TP1</b>	407.6	304.3	-	-	-	-
<b>2004 Review*</b>	-	-	-	3.25%	1.28%	0.22%
<b>At TP2</b>	406.9	-	326.5	365.9	370	370
<b>At TP3</b>	401.8	-	-	325.8	370.3	370.3
<b>2008 Review*</b>	-	-	-	-	-	6.2%
<b>At TP4</b>	402.0	-	-	-	301.5	339.0
<b>At TP5</b>	399.1	-	-	-	-	230.9

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 15 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 6,113 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 6,098 ktCO<sub>2</sub> (Note - figures rounded for presentation).

**Other adjustments**

A double counting adjustment was made (see details below).

**Final adjusted CCA sector target for the TP5**

As a consequence of the adjustments described, the final sector target for the TP5 was 218.1 PJ. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -12.8 PJ.

**Sector performance recorded**

The following table shows the sector performance against the equivalent<sup>52</sup> baseline for all target periods to date.

	Equivalent baseline (1997)			Performance		
	Energy (PJ)	Production (t)	SEC	Reference Production (t)	Energy (PJ)	Production (t)
<b>TP1</b>	407.6	21,949,945	N/A	19,971,750	281.0	14,483,574
<b>TP2</b>	406.9	21,148,964	N/A	18,340,025	308.2	17,024,282
<b>TP3</b>	401.8	21,325,820	N/A	19,252,173	307.6	17,142,162
<b>TP4</b>	402.0	21,418,175	N/A	21,080,518	293.6	16,655,055
<b>TP5</b>	399.1	20,974,824	N/A	21,622,688	218.7	12,034,353

**Adjustment for overlap with EU ETS**

Five Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All five Target Units had their targets tightened due to double counting. Overall, there was an EU ETS surplus of 7,029 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the CCA sector target of 96.7 PJ. This is included within the adjusted target described above.

**Commentary**

The sector performance of 218.7 PJ is above the CCA adjusted target of 218.1 PJ and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1997) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>52</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

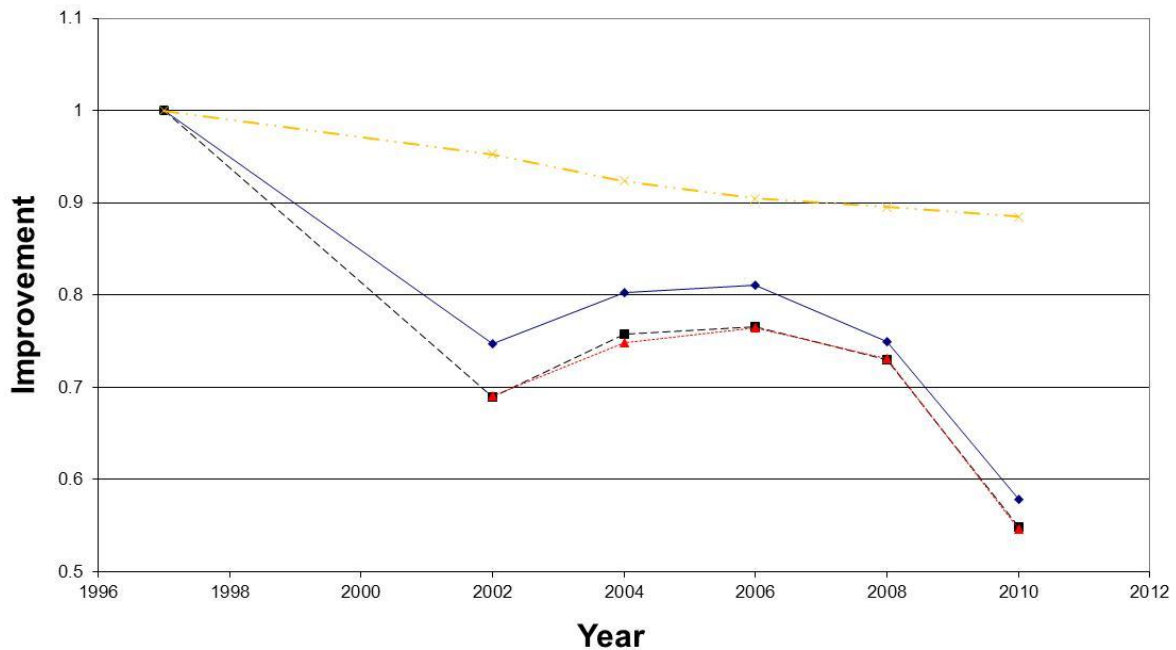


Improvement compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	25%	31%
TP2	20%	24%
TP3	19%	23%
TP4	25%	27%
TP5	42%	45%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year

UKSEL TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- - - × - - - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section and includes adjustments for falls in throughput. .

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year position.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1997) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Baselines				
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Change in reference production (%)	Change in equivalent production (%)
<b>TP1</b>	-126.6	-9,400	-27	-34
<b>TP2</b>	-98.8	-7,550	-7	-20
<b>TP3</b>	-94.2	-7,277	-11	-20
<b>TP4</b>	-108.4	-8,293	-21	-22
<b>TP5</b>	-180.4	-13,119	-44	-43

NOTE: The sector reference production is the total anticipated throughput for the agreed targets. The sector equivalent production is the total throughput at the respective base years of the participants. These throughputs may change at each target period as the sector population changes, so care should be taken in comparing the performance at different target periods. Both sets of figures are quoted for consistency with previous milestones, where reference production was quoted.

## SUPERMARKETS (FOOD & DRINK FEDERATION SUPERMARKETS - FDFS)

### Scope and membership of the umbrella agreement

The Supermarkets agreement, under the auspices of the Food & Drink Federation, covers in-store bakeries and other, relatively minor, food-processing activities. Stores including Sainsbury, Safeway/Morrison and Tesco are currently participating in the agreement.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh<sub>p</sub>. The sector agreement is an absolute energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2001 baseline for this sector as originally agreed and at each target period (TP) to date. Note that for TP1 only, because the target period was shorter than the full 12 months of the other four target periods, there is a separate and lower pro-rata baseline figure.

	Baseline (kWh <sub>p</sub> )	TP1(2002) (kWh <sub>p</sub> )	TP2(2004) (kWh <sub>p</sub> )	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
Original	306,998,030	304,228,156				
	799,351,145		773,935,798	762,586,016	747,879,965	733,173,913
At TP1	306,998,030	288,957,043				
	799,351,145		730,470,310	719,738,653	705,820,677	691,902,700
2004 Review*	-	-	-	4%	4%	6%
At TP2	661,559,280	-	640,383,206	605,716,264	593,964,007	570,082,338
At TP3	290,559,601**	-	-	265,523,967	311,845,765**	299,198,300**
2008 Review*	-	-	-	-	-	4%
At TP4	335,317,223	-	-	-	263,731,733	275,568,134
AT TP5	351,493,801	-	-	-	-	288,824,569

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

\*\*There was a major decrease in the target unit population during TP3. The baseline and TP4 and TP5 targets were modified accordingly.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 9 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 9 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 54,081,878 kWh<sub>p</sub> (Note - figures rounded for presentation).

#### Other adjustments

No other adjustments were made.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 342,906,447 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>53</sup> baseline for all target periods to date.

	Equivalent baseline (2001)	Performance
	Energy (kWh)	Energy (kWh)
TP1	306,998,030	272,986,625
TP2	661,559,280	667,259,766
TP3	290,559,601	281,479,843
TP4	335,317,223	262,064,743
TP5	351,493,801	327,378,160

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS, so no adjustments were required.

### Commentary

The sector performance of 327,378,160 kWh<sub>p</sub> is below the CCA adjusted target of 342,906,447 kWh<sub>p</sub> and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2001) position at each target period.

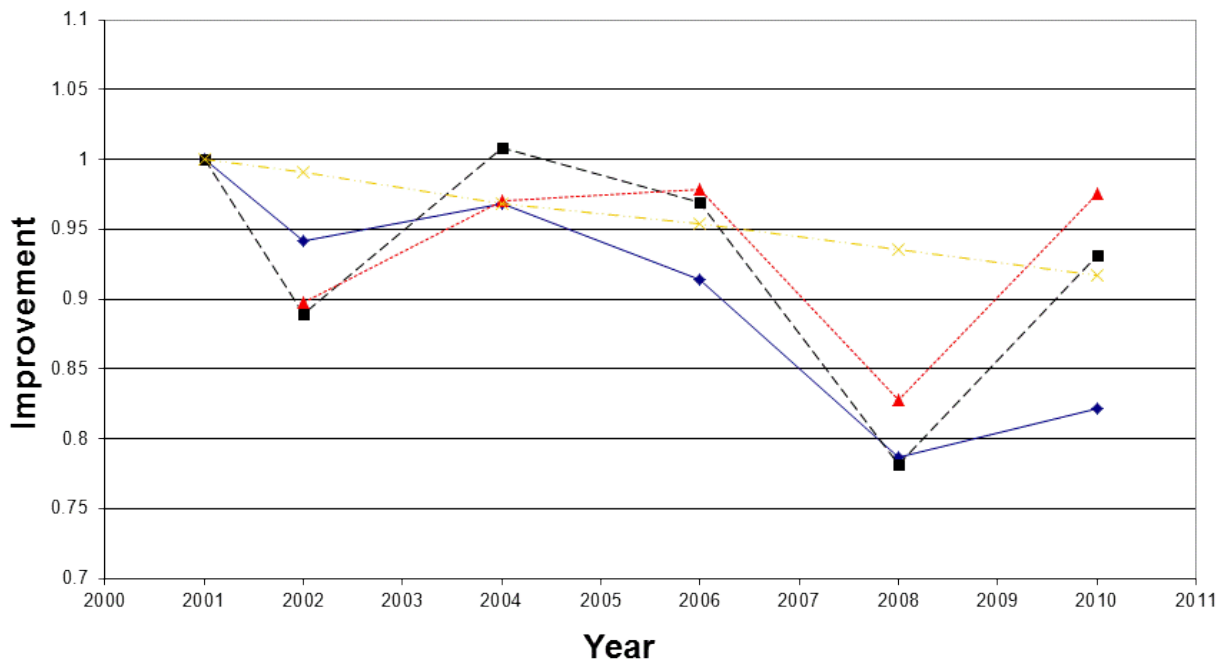
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>53</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	5.9%	11%
TP2	3.2%	-0.9%
TP3	8.6%	3.1%
TP4	21%	22%
TP5	18%	7%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

**Graph of performance and current targets relative to the base year**  
**Supermarkets TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year position.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2001) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Annual change in Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-0.3	-15
TP2	0.02	1
TP3	-0.03	-2
TP4	-0.3	-12
TP5	-0.09	-4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## SURFACE ENGINEERING (SURFACE ENGINEERING ASSOCIATION - SEA)

### Scope and membership of the umbrella agreement

SEA represents the metal finishing sector, carrying out processes including electroplating and anodising. SEA is a subsidiary part of the British Jewellery and Giftware and Finishing Federation, which is the formal signatory to the agreement. This Climate Change Agreement (SEA) represents those facilities covered by IPPC processes.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh at a given level of throughput (kWh<sub>p</sub>). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> )	TP1(2002) (kWh <sub>p</sub> )	TP2(2004) (kWh <sub>p</sub> )	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>		2,023,331,546	1,985,927,438	1,982,247,644	1,954,811,334	1,928,896,664
<b>At TP1</b>	2,971,679,789	2,890,361,508	2,905,688,604	2,881,610,368	2,833,907,376	2,786,494,745
<b>2004 Review*</b>	-	-	-	10.8%	10.7%	10.8%
<b>At TP2</b>	3,947,262,281	-	3,855,317,182	3,384,412,419	3,318,798,494	3,254,471,944
<b>At TP3</b>	4,147,329,433	-	-	3,683,136,126	3,598,368,478	3,506,510,451
<b>2008 Review*</b>	-	-	-	-	-	4.3%
<b>At TP4</b>	4,199,294,436	-	-	-	3,619,527,486	3,362,311,782
<b>At TP5</b>	3,991,116,422	-	-	-	-	3,175,756,321

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 54 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 54 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 308,524,910 kWh<sub>p</sub> (Note - figures rounded for presentation).

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (tightening) of -112,784,825 kWh<sub>p</sub>.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 3,371,496,406 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>54</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC
TP1	2,971,679,789		N/A	2,828,683,776		N/A
TP2	3,947,262,281		N/A	3,707,304,772		N/A
TP3	4,147,329,433		N/A	3,629,489,042		N/A
TP4	4,199,294,436		N/A	3,468,585,799		N/A
TP5	3,991,116,422		N/A	3,169,806,939		N/A

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 3,169,806,939 kWh<sub>p</sub> is below the CCA adjusted target of 3,371,496,406 kWh<sub>p</sub> and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	3.0%	12%
TP2	4.6%	15%
TP3	11%	15%
TP4	14%	21%
TP5	20%	21%

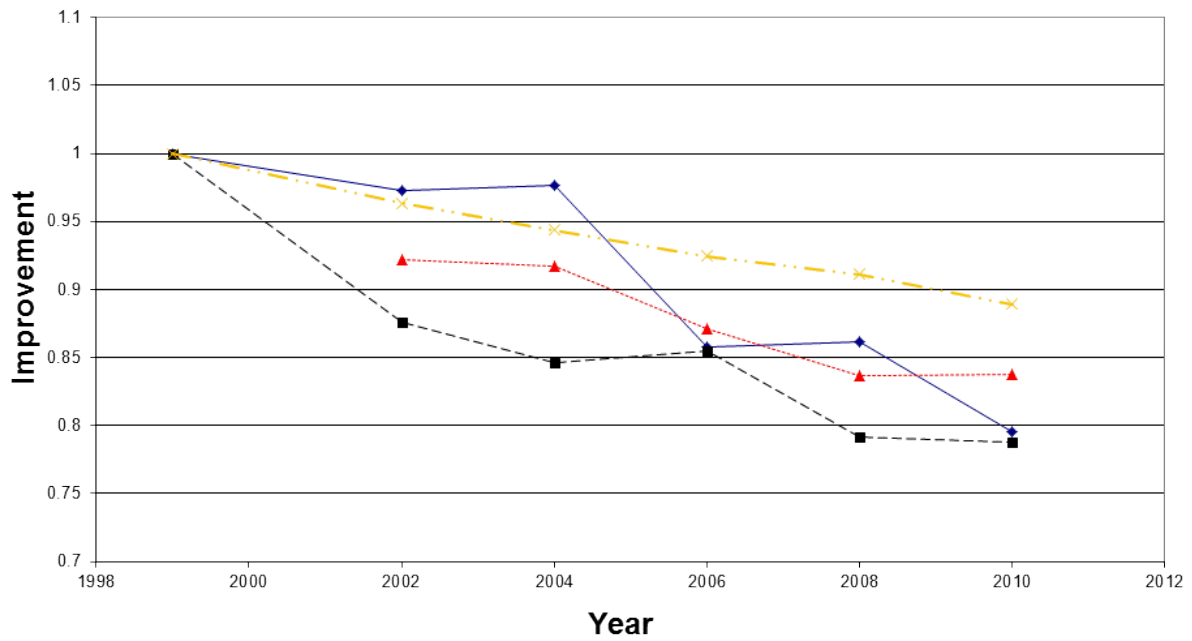
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>54</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



### Graph of performance and current targets relative to the base year

#### SEA TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- .▲-. Target after adjustments
- x- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	-1.4	-75
TP2	-2.4	-119
TP3	-2.2	-108
TP4	-3.3	-160
TP5	-3.1	-150

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.5	-29	9%
TP2	-0.9	-42	11%
TP3	-1.9	-91	2%
TP4	-2.6	-128	4%
TP5	-3.0	-144	1%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## TEXTILES (BRITISH APPAREL AND TEXTILES CONFEDERATION - BATC)

### Scope and membership of the umbrella agreement

BATC represents the textile and clothing industry in the UK, carrying out various activities in textile dyeing, finishing and scouring. This Climate Change Agreement (BATC1) represents those facilities covered by IPPC processes.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh (kWh<sub>p</sub>) at a given level of throughput. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> )	TP1(2002) (kWh <sub>p</sub> )	TP2(2004) (kWh <sub>p</sub> )	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>	3,819,000,000	3,773,360,985	3,705,460,831	3,635,353,875	3,555,113,619	3,474,799,992
<b>At TP1</b>	3,726,083,555	3,693,676,535	3,624,881,861	3,554,357,028	3,471,562,685	3,388,313,526
<b>2004 Review*</b>	-	-	-	3.0%	3.0%	3.0%
<b>At TP2</b>	3,040,420,110	-	2,950,479,118	2,803,061,758	2,735,992,681	2,667,631,254
<b>At TP3</b>	2,318,615,076	-	-	2,136,852,249	2,086,036,365	2,032,298,758
<b>2008 Review*</b>	-	-	-	-	-	9.0%
<b>At TP4</b>	2,031,474,215	-	-	-	1,829,136,515	1,612,102,575
<b>At TP5</b>	1,881,685,650	-	-	-	-	1,490,586,192

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 21 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 35 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 14 ktCO<sub>2</sub> (Note - figures rounded for presentation).

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change

(tightening) of -108,629,971 kWh<sub>p</sub>.

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 1,444,594,605 kWh<sub>p</sub>. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -45,991,587 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>55</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (mixed units)	SEC	Energy (kWh)	Production (mixed units)	SEC
<b>TP1</b>	3,726,083,555	766,435,746	N/A	3,141,386,873	790,518,197	N/A
<b>TP2</b>	3,040,420,110	724,797,294	N/A	2,435,380,254	770,849,107	N/A
<b>TP3</b>	2,318,615,076	563,959,136	N/A	1,750,022,368	700,112,057	N/A
<b>TP4</b>	2,031,474,215	573,308,713	N/A	1,634,614,879	771,739,376	N/A
<b>TP5</b>	1,881,685,650	564,134,556	N/A	1,401,763,687	713,293,859	N/A

### Adjustment for overlap with EU ETS

One Target Unit reporting at TP5 is part of EU ETS and Climate Change Agreements and was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. There was an EU ETS excess of 3 ktCO<sub>2</sub>, which resulted in an adjustment (tightening) to the sector target of -16,640,160 kWh<sub>p</sub>. This is included within the adjusted target described above.

### Commentary

The sector performance of 1,401,763,687 kWh<sub>p</sub> is below the CCA adjusted target of 1,444,594,605 kWh<sub>p</sub> and, therefore, the sector has met its CCA target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance).

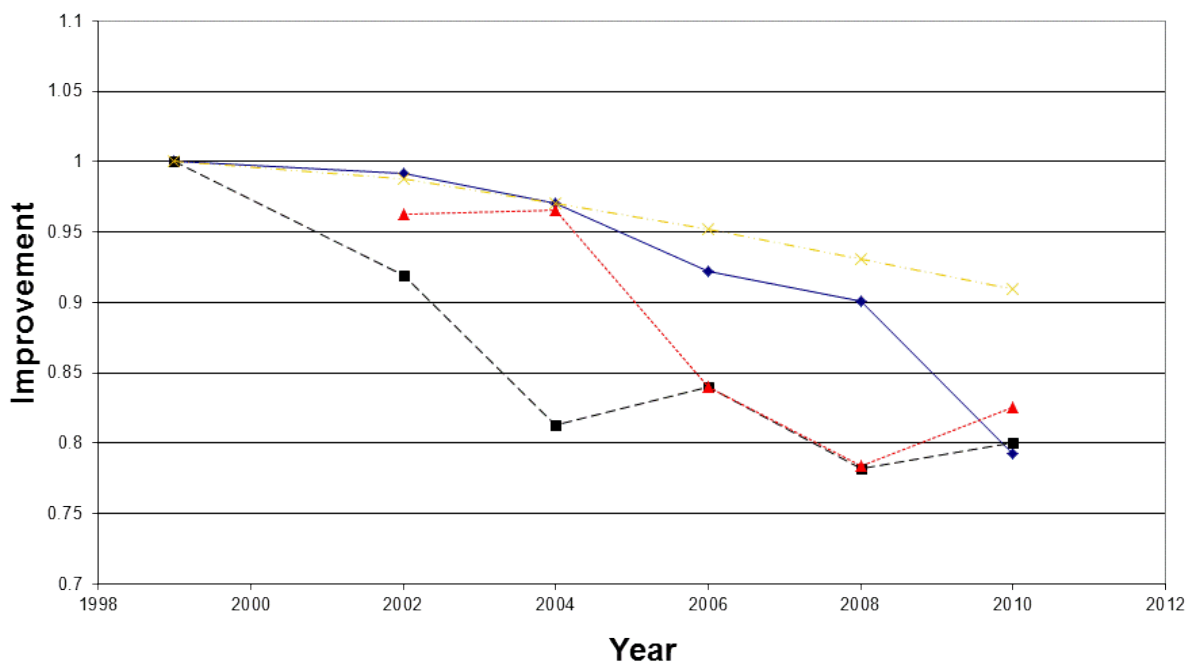
<sup>55</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1%	8%
TP2	3%	19%
TP3	8%	16%
TP4	10%	22%
TP5	21%	20%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

### Graph of performance and current targets relative to the base year

#### BATC1 TP5 Performance



#### Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
<b>TP1</b>	-0.9	-50
<b>TP2</b>	-2.0	-107
<b>TP3</b>	-1.2	-62
<b>TP4</b>	-1.6	-83
<b>TP5</b>	-1.3	-63

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
<b>TP1</b>	-2.1	-114	3
<b>TP2</b>	-2.2	-115	6
<b>TP3</b>	-2.1	-106	24
<b>TP4</b>	-1.4	-72	35
<b>TP5</b>	-1.7	-87	26

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## TEXTILES EI (BRITISH APPAREL AND TEXTILES CONFEDERATION - BATC)

### Scope and membership of the umbrella agreement

BATC represents the textile and clothing industry in the UK, carrying out various activities in textile dyeing, finishing and scouring. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are given in primary kWh at a given level of throughput (kWh<sub>p</sub>). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> )	TP1(2002)	TP2(2004)	TP3(2006) (kWh <sub>p</sub> )	TP4(2008) (kWh <sub>p</sub> )	TP5(2010) (kWh <sub>p</sub> )
<b>Original</b>	263,055,416	N/A	N/A	257,794,308	249,902,646	236,749,875
<b>At TP3*</b>	167,075,119	N/A	N/A	163,733,616	158,721,363	150,367,607
<b>2008 Review**</b>	-	-	-	-	-	4.0%
<b>At TP4</b>	857,014,307	-	-	-	816,228,134	730,682,246
<b>At TP5</b>	849,737,174	-	-	-	-	724,404,787

\* The row 'At TP3' represents the facilities that joined the CCA up to three months before the end of the Target Period. The Original baseline includes some facilities that did not report at TP3.

\*\* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 5 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 14 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 9 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 52,627,889 kWh<sub>p</sub> (Note - figures rounded for presentation).

#### Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (tightening) of -73,989,600 kWh<sub>p</sub>.

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 703,043,076 kWh<sub>p</sub>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>56</sup> baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC	Energy (kWh <sub>p</sub> )	Production (mixed units)	SEC
<b>TP3</b>	167,075,119	83,156,994	N/A	169,195,683	74,660,202	N/A
<b>TP4</b>	857,014,307	239,953,023	N/A	752,462,270	219,628,860	N/A
<b>TP5</b>	849,737,174	219,020,405	N/A	701,882,753	204,414,332	N/A

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 701,882,753 kWh<sub>p</sub> is below the CCA adjusted target of 703,043,076 kWh<sub>p</sub> and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at Target Period 3	
	Target Improvement	Actual Improvement
<b>TP3</b>	2.0%	6.1%
<b>TP4</b>	4.8%	8.4%
<b>TP5</b>	15%	8.2%

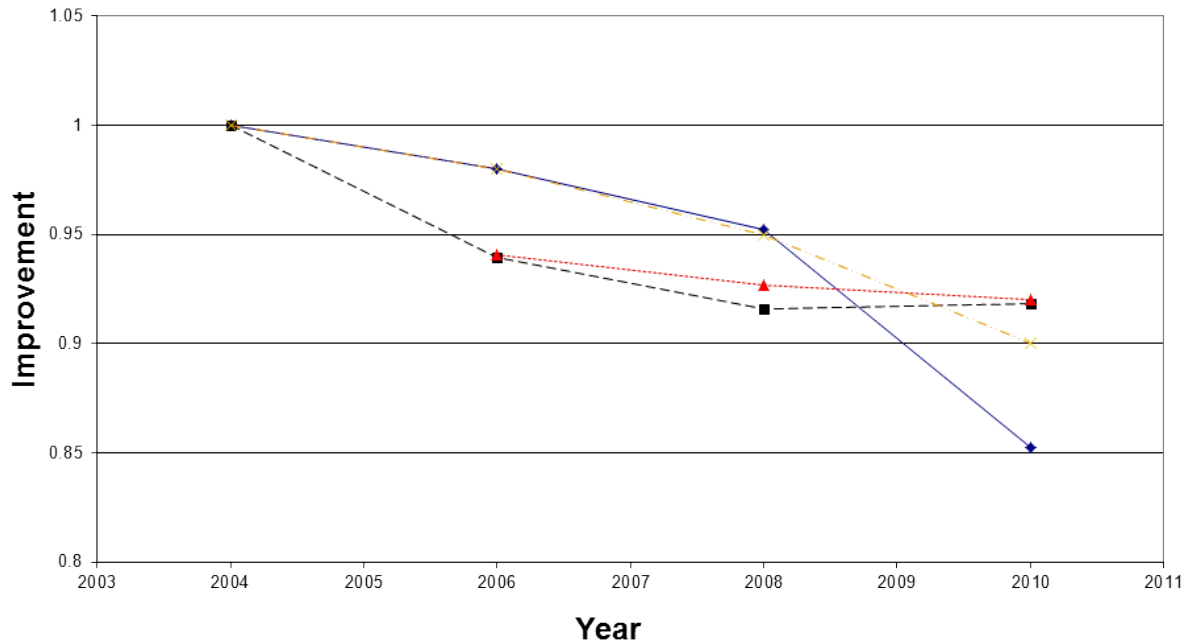
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>56</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



**Graph of performance and current targets relative to the base year**

**BATC2 TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for this target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP3	-0.04	-2
TP4	-0.3	-12
TP5	-0.2	-11

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline			
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP3	0.01	0.4	-10
TP4	-0.4	-18	-8
TP5	-0.5	-26	-7

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## WALLCOVERING (ASSOCIATION OF WALLCOVERING MANUFACTURERS - AWM)

### Scope and membership of the umbrella agreement

Companies in this sector manufacture wallcoverings and related products.

This sector has no Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in kWh. The sector agreement is an absolute (abs) energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kWh (abs)	TP1(2002) kWh (abs)	TP2(2004) kWh (abs)	TP3(2006) kWh (abs)	TP4(2008) kWh (abs)	TP5(2010) kWh (abs)
<b>Original</b>	602,755,838	593,353,219	566,783,703	558,013,278	553,424,653	548,564,629
<b>At TP1</b>	783,561,216	698,383,887	673,517,244	662,753,550	656,290,427	649,708,821
<b>2004 Review*</b>	-	-	-	1.48%	1.68%	1.88%
<b>At TP2</b>	453,414,278	-	332,696,272	377,940,712	374,165,055	370,575,659
<b>At TP3</b>	351,924,852	-	-	286,257,481	287,971,912	282,561,852
<b>2008 Review*</b>	-	-	-	-	-	4.0%
<b>At TP4</b>	351,924,852	-	-	-	285,578,152	269,013,159
<b>At TP5</b>	351,924,852	-	-	-	-	269,013,159

\* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 8 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 8 ktCO<sub>2</sub>, equivalent to a sector target change (easing) of 42,533,869 kWh (Note - figures rounded for presentation).

#### Other adjustments

N/A

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described above, the final sector target for TP5 was 311,547,028 kWh (absolute).

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>57</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (mixed units)	SEC	Energy (kWh)	Production (mixed units)	SEC
TP1	783,561,216	839,166,599	n/a	627,286,792	797,641,520	n/a
TP2	453,414,278	395,930,194	n/a	347,708,947	405,285,339	n/a
TP3	351,924,852	321,532,107	n/a	308,344,526	390,558,734	n/a
TP4	351,924,852	321,151,420	n/a	282,774,213	376,060,214	n/a
TP5	351,924,852	321,151,420	n/a	286,545,621	345,254,382	n/a

### Adjustment for overlap with EU ETS

No target units reporting at TP5 are part of EU ETS so no adjustments were required.

### Commentary

The sector performance of 286,545,621kWh is below the CCA adjusted target of 311,547,028 kWh and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

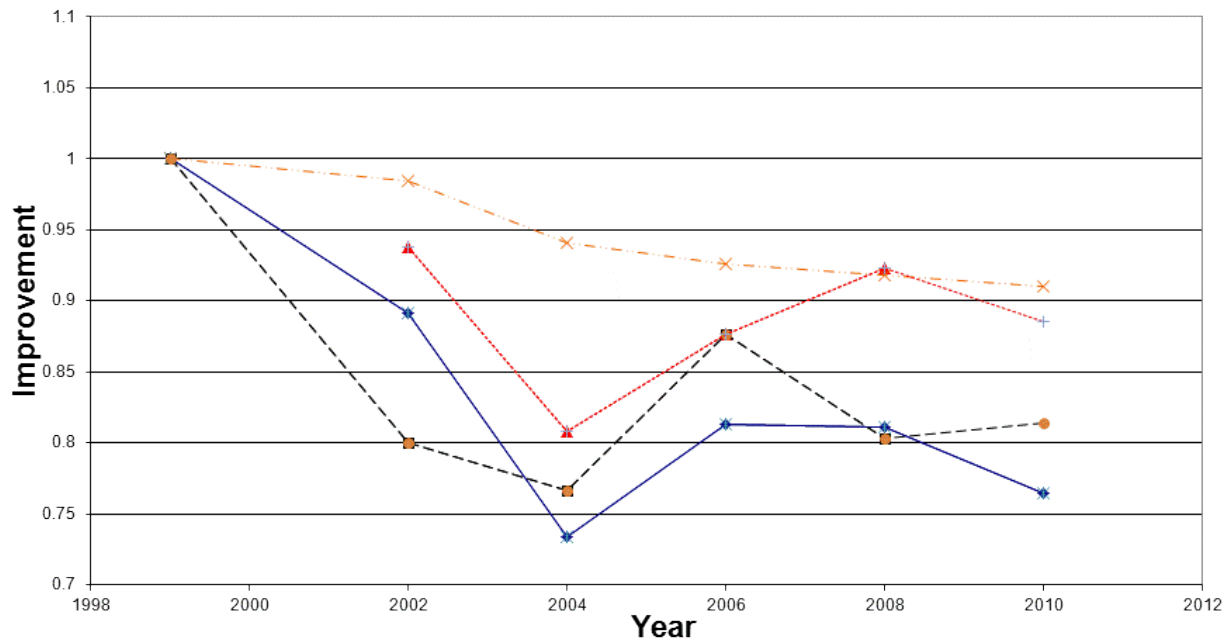
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	11%	20%
TP2	27%	23%
TP3	19%	12%
TP4	19%	20%
TP5	24%	19%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

<sup>57</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

**Graph of performance and current targets relative to the base year**  
**AWM TP5 Performance**



**Key**

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

**Impact of the sector performance**

**Relative energy/CO<sub>2</sub>**

This sector is an absolute sector and so it is not appropriate to calculate how the relative energy consumption and CO<sub>2</sub> emissions for the sector have changed compared with the equivalent base year position.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	-0.6	-28	-5
TP2	-0.4	-19	2
TP3	-0.2	-8	21
TP4	-0.2	-12	17
TP5	-0.2	-12	7

Note: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

## WOOD PANEL MANUFACTURE (WOOD PANEL INDUSTRIES FEDERATION – WPIF)

### Scope and membership of the umbrella agreement

WPIF represents the manufacturers of wood panels in the UK, including chipboard, oriented strand board and MDF. A separate company, WPIF Environmental Ltd, is established to act as the ‘sector association’. For the purpose of the CCL agreement, WPIF is the contracted manager to WPIF Environmental Ltd.

This sector has Target Units that have installations in EU ETS.

### Targets

The targets for this sector are expressed in primary kWh per cubic metre (kWh<sub>p</sub>/m<sup>3</sup>). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh <sub>p</sub> /m <sup>3</sup> )	TP1(2002) (kWh <sub>p</sub> /m <sup>3</sup> )	TP2(2004) (kWh <sub>p</sub> /m <sup>3</sup> )	TP3(2006) (kWh <sub>p</sub> /m <sup>3</sup> )	TP4(2008) (kWh <sub>p</sub> /m <sup>3</sup> )	TP5(2010) (kWh <sub>p</sub> /m <sup>3</sup> )
<b>Original</b>	952	940	919	899	890	882
<b>At TP1</b>	972	959	938	917	909	900
<b>2004 Review*</b>	-	-	-	1.87%	3.92%	6.02%
<b>At TP2</b>	972	-	938	981	953	925
<b>At TP3</b>	1,055	-	-	981	953	925
<b>2008 Review*</b>	-	-	-	-	-	11.9%
<b>At TP4</b>	1,055	-	-	-	953	815
<b>At TP5</b>	1,058	-	-	-	-	814

\* The rows ‘2004 Review’ and ‘2008 Review’ show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

### Additional adjustments to the TP5 sector target

#### Carbon trading

- Allowances equivalent to 39 ktCO<sub>2</sub> were converted to allowances or ring-fenced
- Allowances equivalent to 55 ktCO<sub>2</sub> were purchased

Overall there was a net purchase of 17 ktCO<sub>2</sub> (Note - figures rounded for presentation).

### Other adjustments

A double counting adjustment was made (see details on following page).

### Final adjusted CCA sector target for the TP5

As a consequence of the adjustments described, the final sector target for the TP5 was 745 kWh<sub>p</sub>/m<sup>3</sup>. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -70 kWh<sub>p</sub>/m<sup>3</sup>.

### Sector performance recorded

The following table shows the sector performance against the equivalent<sup>58</sup> baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (m <sup>3</sup> )	SEC (kWh <sub>p</sub> /m <sup>3</sup> )	Energy (kWh)	Production (m <sup>3</sup> )	SEC (kWh <sub>p</sub> /m <sup>3</sup> )
<b>TP1</b>	3,049,768,069	3,138,392	972	3,170,074,284	3,230,814	981
<b>TP2</b>	3,049,768,069	3,138,392	972	3,130,272,007	3,609,403	867
<b>TP3</b>	3,550,979,100	3,366,147	1,055	3,008,661,304	3,693,844	815
<b>TP4</b>	3,550,979,100	3,366,147	1,055	2,550,761,208	3,257,582	783
<b>TP5</b>	3,450,419,438	3,261,431	1,058	2,561,007,486	3,391,152	755

### Adjustment for overlap with EU ETS

Four Target Units reporting at TP5 are part of EU ETS and Climate Change Agreements and were required to adjust their targets for double counting between these two schemes.

All four Target Units had their targets tightened. Overall there was an EU ETS surplus of 59 ktCO<sub>2</sub> which resulted in an adjustment (tightening) to the CCA target of -98 kWh<sub>p</sub>/m<sup>3</sup>. This is included within the adjusted target described above.

### Commentary

The sector performance of 755 kWh<sub>p</sub>/m<sup>3</sup> is above the CCA adjusted target of 745 kWh<sub>p</sub>/m<sup>3</sup> and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

<sup>58</sup> Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

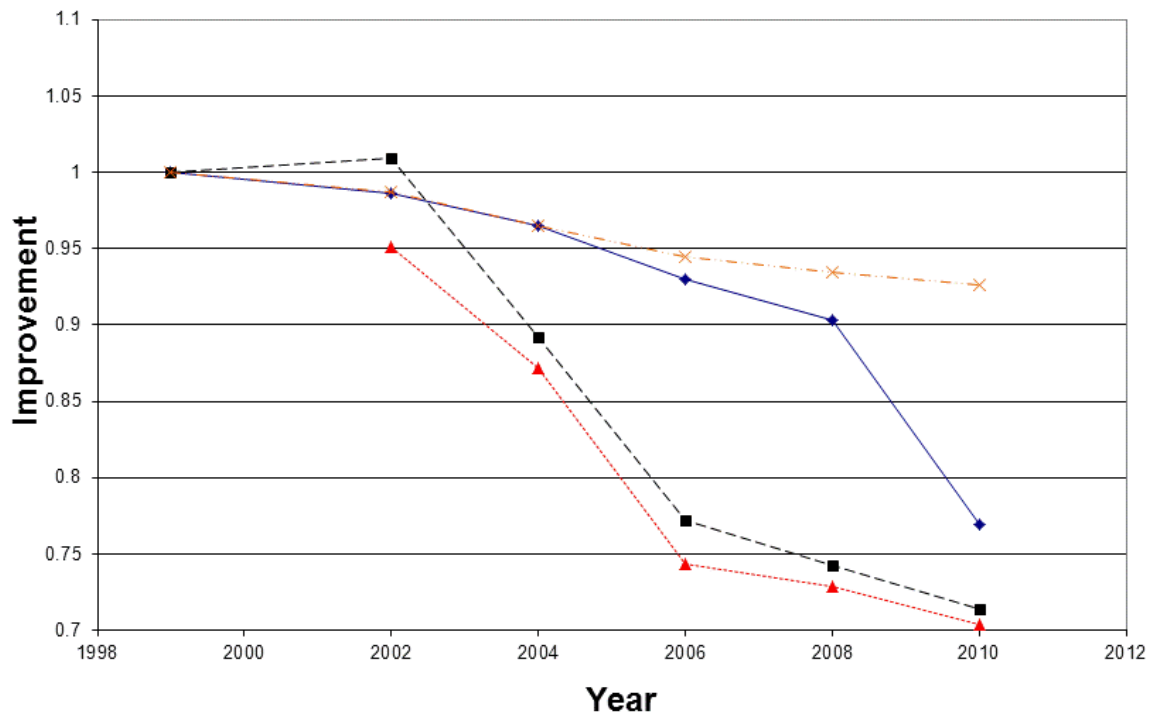


Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.3%	-1.0%
TP2	3.5%	11%
TP3	7.0%	23%
TP4	10%	26%
TP5	23%	29%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year

WPIF TP5 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

## Impact of the sector performance

### Relative energy/CO<sub>2</sub>

The following table shows how the relative energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO<sub>2</sub> assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO <sub>2</sub> compared with Equivalent Baseline	
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)
TP1	0.1	6
TP2	-1.4	-68
TP3	-3.2	-160
TP4	-3.2	-159
TP5	-3.7	-184

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

### Absolute energy/CO<sub>2</sub>

The following table shows how the absolute energy consumption and CO<sub>2</sub> emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO <sub>2</sub> compared with Equivalent Baseline		
	Energy (PJ)	CO <sub>2</sub> (kilotonnes)	Production (%)
TP1	0.4	22	3
TP2	0.3	15	15
TP3	-2.0	-98	10
TP4	-3.6	-180	-3
TP5	-3.2	-159	4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.