

Quality Assurance for Combined Heat & Power Form F2 – CHP Scheme Description

NOTES:

- On this Form you need to declare details of the Scheme for which you are applying for CHPQA Certification.
- You need to re-submit this form only if there is an addition or change to the Scheme.
- To complete this form, you should refer to the most up-to-date version of the CHPQA Standard and Guidance Notes found on <https://www.gov.uk/guidance/combined-heat-power-quality-assurance-programme>
- Guidance Note GN2 has been written to help you complete this Form.
- Information provided on this Form will be stored electronically and treated in the strictest confidence. Only the government or its agents will use it for the purpose of the CHPQA programme, including collection and collation of national statistics, and the administration and development of government schemes, including the Renewables Obligation, the Renewable Heat Incentive and Contracts for Difference.

This Form should be completed and returned to The Administrator, CHPQA programme, The Gemini Building, Fermi Avenue, Didcot OX11 0QR.

1. SCHEME IDENTIFICATION

Site Name :	Site ref.*
Company Name :	Scheme ref. [Office use only]

* The Programme Administrator will provide you with this Site ref. once Form F1 is processed.

2. ECONOMIC SECTOR

Which sector best describes the site of your Scheme. _____ e.g. Iron & Steel See GN12.1 for list

3. SCHEME DESCRIPTION

3.1 Scheme applying for Certification is Existing (please confirm).....
3.2 CHP fuel billing period (tick box or state Other) Quarterly <input type="checkbox"/> Monthly <input type="checkbox"/> or Other

The Attachments described in the table below (at 3.3 to 3.7) are required to accompany this form: [See GN12.2 to GN12.5](#)

Drawings attached	Drawing No.	Check boxes
3.3 Scheme Line Diagram	(insert drawing ref no)	Enclosed (tick box) <input type="checkbox"/>
3.4 Scheme Energy Flow Diagram		Enclosed (tick box) <input type="checkbox"/>
3.5 Annual Heat Profile		Enclosed (tick box) <input type="checkbox"/>
3.6 Daily Heat Profile		Enclosed (tick box) <input type="checkbox"/>
3.7 Heat Load Duration Curve		Enclosed (tick box) <input type="checkbox"/>

Note: 3.5, 3.6 & 3.7 Are only required for Schemes with a heat rejection facility and only required to be updated once the heat demand(s) has changed.

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the margin.
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4. SCHEME DETAILS (LIST OF EQUIPMENT)

- Use this table to itemise all prime movers and boilers within your Scheme boundary. [See GN12.6.](#)
- Identify each prime mover and boiler on your Scheme Line Diagram and in the table below by tag number using the notation in the Guidance Notes. [See GN12.3.](#)
- Include electrical equivalent of any mechanical power outputs (mechanical power x 1.05) and mark with an asterisk. [See GN15.4 to 15.6, 15.8, 15.9 & 22.](#)

Tag Number	Manufacturer	Model/Type	Year commissioned	Capacity (referenced to ISO conditions)	
				Heat kW	Power kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
				kW	kW _e
Total Power Capacity (as electrical output) = CHP_{TPC}					kW _e

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5. SCHEME DETAILS (MONITORING ARRANGEMENTS) [See GN13 , 14, 15, 16, 17, 18, 20 & 22](#)

- Use this table to list all existing and proposed metering stations (including. the meters by which you are billed) for your Scheme inputs and outputs. [See GN12.7 to 12.13](#)
- Identify each meter by tag number using the notation in the Guidance Notes (each meter should be identified on your Scheme line and energy flow diagrams).[See GN12.3](#)
- Provide details of all export metering (heat and electricity). [See GN15.10 to 15.14 & 16.5 to 16.7](#)
- Attach details of any indirect methods used to derive unmetered inputs or outputs (include below the monitoring upon which these rely). [See GN20 to GN22](#)
- Identify the meter uncertainty % (=100 – accuracy of reading %), attach supporting calculations. [See GN17&18](#)

Tag Number	Serial Number	Year Installed	Model/Type	Metered Service	Outputs		Uncertainty
					Range	Units	
							%
							%
							%
							%
							%
							%
							%
							%
							%
							%
							%
							%

Q1. Have you attached additional sheets? (tick box) Yes No If YES, enter number of attached sheets _____

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6. SCHEME CAPACITY

- Enter details of your Scheme's capacities (referenced to ISO conditions) [See GN12.14](#)

6.1 CHP Total Power Capacity - CHP_{TPC}	(from Section 4)	kW_e
6.2 CHP MaxHeat	(from Section 3.7)	kW
6.3 CHP Total Power Capacity under MaxHeat conditions	(using Scheme H:P)	kW_e

7. ADDITIONAL EQUIPMENT

- Use this table to list additional equipment (e.g. plant often described as parasitic plant) essential to the operation of the Scheme but not described elsewhere [See GN12.15 for list](#)

Item	Manufacturer (if known)	Model (if known)	Number installed	Normally running	Used at start-up	Used rarely	Estimated Energy Consumption	
							kW_e	kW_{th}
				(Tick just one box)				
1				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Total (kW_e and kW_{th}) normally running								

8. QUALITY INDEX DEFINITION

- Use this table to enter the QI definition(s) that are appropriate for your Scheme boundaries. [See GN10.7](#)
- Enter more than one if you intend to calculate a weighted formula. [See GN12.16](#)

The general form	QI =	X x	Efficiency _{power}	+	Y x	Efficiency _{heat}
	QI =		Efficiency _{power}	+		Efficiency _{heat}
	QI =		Efficiency _{power}	+		Efficiency _{heat}
	QI =		Efficiency _{power}	+		Efficiency _{heat}
	QI =		Efficiency _{power}	+		Efficiency _{heat}

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9. DECLARATION & LIST OF ATTACHMENTS

- I confirm that I am the nominated Responsible Person for the operation of the Scheme described.
- I confirm that I have supplied all necessary information as required by the Administrator under the CHPQA programme for Form F2 and that all information provided is correct and conforms to the requirements set out in the CHPQA Standard.
- I undertake to inform the CHPQA programme should any of the above details (e.g. Scheme boundaries or installed equipment) change material to the performance of the Scheme.
- I agree to submit my Self-Assessment to Verification and, if required, Audit.

Signature _____

Date _____

Name _____ (block capitals)

Position _____ (block capitals)

List of attachments (in addition to the Drawings that are listed in Section 3)

The CHPQA programme is carried out on behalf of the Department for Business, Energy & Industrial Strategy, the Scottish and Welsh Governments, and the Northern Ireland Department for the Economy