WIDP Monte Carlo Simulation Model

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Read Me

This sheet explains the working of the Waste Capacity Forecast Model, including the use of Monte Carlo simulation methods.
A separate report is available which goes into greater detail.
Values in yellow are user inputs. These define the distribution of the random variables and allow entry of historical data.
Values in blue are calculations - please do not edit.
Values in pale green are links to other cells or sheets - please do not edit.

WIDP Monte Carlo Simulation Model

Objectives

The objective of this model is to provide WIDP with a forecast of the waste infrastructure capacity operational by 2020.
Diversion capacity is needed by 2020 in order to ensure that England meets its EU Directive target for the diversion of biodegradable municipal solid waste (BMW) from landfill.

Methods Used

1 An estimate of the municipal solid waste (MSW) arising in 2020 is provided by Defra colleagues. From this, the assumed tonnage of recycling is deducted giving the residual MSW arising.
The BMW % of MSW is specified. This gives the residual BMW arising.
A forecast of BMW diversion capacity is then deducted from this, to give a figure for BMW consigned to landfill. This is compared to the 2020 target to give a surplus/(deficit) of diversion capacity.
2 An alternative method is also used to forecast surplus/(deficit) capacity. This method can be updated each year using actual outturn data.
The most recent year when data is available is selected. Arisings in that year are compared to the BMW consigned to landfill to give an implied BMW diversion capacity.
Diversion capacity in 2020 is calculated as implied diversion in base year + expected future additions. This is compared to forecast arisings in 2020 to calculate surplus/(deficit) capacity.

Monte Carlo Simulation

NERA Economic Consulting were commissioned to adapt the model to allow random simulation of likely outcomes. This simulation is referred to as a "Monte Carlo" model.
Examing the result of this simulation will allow Defra to understand the probability of achieving the 2020 target, *conditional* on no further action being taken to develop infrastructure.
Random simulation of different inputs also allows Defra to examine the sensitivity of surplus/deficit capacity to certain inputs.

Using The Model

Using the Monte Carlo features of this model requires the Excel add-in @Risk. This add-in allows the simple manipulation of random variables and simulation runs.
Using Excel 2010, @Risk appears as a separate ribbon. Toggle between static (i.e. mean) and random values by clicking the "dice" icon.
To run the model, and examine the likely values of the outputs in 2020, select a cell containing =RiskOutput() and click "Start Simulation".
To examine changes to input variables, vary the mean and range of the random variables, all highlighted in yellow.
To alter the distribution of a random variable, click it and select "Define Distribution" from the @Risk ribbon.
Different random variables are likely to be correlated, for example waste arising from households and C&I. These correlations may be varied between -1/1.

Date	Change	
22/11/2012	BMW content to landfill changed from 11.38 to 12.22MT	
26/11/2012	LA waste arisings forecasts updated (central = mean of model A and model B)	
26/11/2012	C&I waste arisings forecasts updated	
26/11/2012	Ranges for LA and C&I updated	
26/11/2012	Correlation changed to zero for "arising to projects" and "projects to projects"	
27/11/2012	LA ranges extended to includee Model A+1s.d. and Model B-1s.d.	
27/11/2012	Household recycling rate updated to reflect latest data	
27/11/2012	C&I recycling rate updated to use 2009 figure of 52%	
27/11/2012	Positive shocks to arisings given a probability of 20%	
28/11/2012	C&I recycling rate updated to use 2010 estimate of 62%	
29/11/2012	C&I min and max updated to draw from MSW% variable	
29/11/2012	LA recycling rate: mean 51.4% from LAWRRD model, min and max 5% either side	changes from IMAG meeting 29/11/12
29/11/2012	MSW% of industrial to 4% either side of mean	
29/11/2012	MSW% of commercial to 5% either side of mean	
29/11/2012	BMBT to EfW changed to 40-60%	
29/11/2012	LFMBT efficiency min to 50%	
29/11/2012	MT to EfW range introduced of 70-90%	
29/11/2012	Outages to 100% (to avoid double counting of adjustments made elsewhere)	
30/11/2012	Project inclusion switches added for 4 non-closed PFI projects	
30/11/2012	Correlation assumptions changed for recycling-arising for household (15%) and C&I (35%)	
05/12/2012	C&I max forecast increased to use (3,2,1) forecast	
05/12/2012	Correlation assumptions changed for recycling-arising for household (0%) and C&I (0%)	changes following Chief-Econ meet 4/12
05/12/2012	BMW % changed to range of 55% to 75% with mid of 68%	
05/12/2012	Utilisation rates for technologies other than EfW all given max of 100% as based on throughput estimates	
[redacted]		
06/12/2012	Updated C&I forecasts to use final published OBR growth determinants (makes no difference)	
07/12/2012	C&I recyclnig rate range increased to 8 percentage point either side of centre	
10/12/2012	DARs reverted to original rates, except for operational projects which are 100% because outages are captured by utilisation rates	
13/12/2012	Red DAR for merchants changed to 3%	
13/12/2012	Programme level risk introducted at uniform 90-100% DAR	
13/12/2012	Formula for programme level risk under method 2 amended in output sheet	
[redacted]		
14/12/2012	Distribution for BMW waste amended	
21/12/2012	DAR Option changed from 5% to 0% for projects yet to close	
03/01/2013	Mean, 10th percentile and 90th percentile output boxes added	

Modelling

The following worksheets are used to perfrom the modelling.

No.	Name	Description
1	Outputs	This is where all the outputs that are affected by the Monte Carlo process are affected.
2	Inputs	This is where all the input assumptions that are randomised by the Monte Carlo process are defined.
3	Correlations	This sheet contains a covariance matrix for certain random variables which are model inputs. Please do not edit this sheet manually.
4	Empirical Correlations	This sheet contains a covariance matrix for modeled outputs. This sheet demonstrates the consequence of the input assumptions made on correlations.

Outputs

This sheet summ
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Simulation Result

Method 1		Method 2	2011
	Mt		*Mt*
Waste Arising	=RiskOutput("MSW Arising")+Inputs!E16+Inputs!E17	Waste Arising	=D9
Waste Recycled	=RiskOutput("Waste Recycled")+Inputs!E16*Inputs!E21+Inputs!E17*Inputs!E22	Waste Recycled	=D10
Residual Waste	=RiskOutput("Residual MSW")+D9-D10	Residual Waste	=D11
Residual BMW	=RiskOutput("Residual BMW")+D11*Inputs!E24	Residual BMW	=D12
Landfill Target	10.16	Landfill Target	=D13
Diversion Capacity	=RiskOutput("Diversion Capacity - Method 1")+'Sum Capacity'!F19	Diversion Capacity	=RiskOutput("Diversion Capacity - Method 2")+((VLOOKUP($F$7,Outturn!$E$7:$H$18,4,))*Inputs!$E$46)+VLOOKUP($F$7,'Sum Capacity'!$E$7:$J$19,6,)
BMW to Landfill	=RiskOutput("BMW to Landfill - Method 1")+D12-D14	BMW to Landfill	=RiskOutput("BMW to Landfill - Method 2")+F12-F14
Surplus/(deficit) capacity	=RiskOutput("Surplus/(Deficit) Capacity - Method 1")+D13-D15	Surplus/(deficit) capacity	=RiskOutput("Surplus/(Deficit) Capacity - Method 2")+F13-F15

Simulation Resu

Mean	**=RiskMean(D16)**	**Mean**	**=RiskMean(F16)**
Maximum	=RiskMax($D$16)	Maximum	=RiskMax($F$16)
Minimum	=RiskMin($D$16)	Minimum	=RiskMin($F$16)
Standard Deviation	=RiskStdDev(D$16)	Standard Deviation	=RiskStdDev(F$16)
Probability of hitting target	**=1-RiskTarget(D16,0)**	**Probability of hitting target**	**=1-RiskTarget(F16,0)**

Mean	*Mt*		
Waste Arising	=RiskMean(D9)	Mean Waste Arising	=RiskMean(F9)
Waste Recycled	=RiskMean(D10)	Mean Waste Recycled	=RiskMean(F10)
Residual Waste	=RiskMean(D11)	Mean Residual Waste	=RiskMean(F11)
Residual BMW	=RiskMean(D12)	Mean Residual BMW	=RiskMean(F12)
Landfill Target	=RiskMean(D13)	Landfill Target	=RiskMean(F13)
Diversion Capacity	=RiskMean(D14)	Mean Diversion Capacity	=RiskMean(F14)
BMW to Landfill	=RiskMean(D15)	Mean BMW to Landfill	=RiskMean(F15)
Surplus/(deficit) capacity	=RiskMean(D16)	Mean Surplus/(deficit) capacity	=RiskMean(F16)
90th Percentile	*Mt*		
Waste Arising	=RiskPercentile(D9, 0.9)	Waste Arising	=RiskPercentile(F9, 0.9)
Waste Recycled	=RiskPercentile(D10, 0.9)	Waste Recycled	=RiskPercentile(F10, 0.9)
Residual Waste	=RiskPercentile(D11, 0.9)	Residual Waste	=RiskPercentile(F11, 0.9)
Residual BMW	=RiskPercentile(D12, 0.9)	Residual BMW	=RiskPercentile(F12, 0.9)
Landfill Target	=RiskPercentile(D13, 0.9)	Landfill Target	=RiskPercentile(F13, 0.9)
Diversion Capacity	=RiskPercentile(D14, 0.9)	Diversion Capacity	=RiskPercentile(F14, 0.9)
BMW to Landfill	=RiskPercentile(D15, 0.9)	BMW to Landfill	=RiskPercentile(F15, 0.9)
Surplus/(deficit) capacity	=RiskPercentile(D16, 0.9)	Surplus/(deficit) capacity	=RiskPercentile(F16, 0.9)
10th Percentile	*Mt*		
Waste Arising	=RiskPercentile(D9, 0.1)	Waste Arising	=RiskPercentile(F9, 0.1)
Waste Recycled	=RiskPercentile(D10, 0.1)	Waste Recycled	=RiskPercentile(F10, 0.1)
Residual Waste	=RiskPercentile(D11, 0.1)	Residual Waste	=RiskPercentile(F11, 0.1)
Residual BMW	=RiskPercentile(D12, 0.1)	Residual BMW	=RiskPercentile(F12, 0.1)
Landfill Target	=RiskPercentile(D13, 0.1)	Landfill Target	=RiskPercentile(F13, 0.1)
Diversion Capacity	=RiskPercentile(D14, 0.1)	Diversion Capacity	=RiskPercentile(F14, 0.1)
BMW to Landfill	=RiskPercentile(D15, 0.1)	BMW to Landfill	=RiskPercentile(F15, 0.1)
Surplus/(deficit) capacity	=RiskPercentile(D16, 0.1)	Surplus/(deficit) capacity	=RiskPercentile(F16, 0.1)

END

Inputs

This sheet defines the parameter values and
TRIANGULAR - to remove the random comp
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Forecast Inputs

Waste Arisings		Baseline	2020	Distribution	Static Value		Parameter 1		Parameter 2	
	LA Arising (Central)	=Forecasts!E19	=RiskTriang(J9,H9,L9,RiskStatic(H9),RiskName("LA Arising Cent"),RiskCorrmat(corr,1))	Triangular	Mode	=D9	Min.	=Forecasts!M51-Forecasts!M53	Max.	=Forecasts!L51+Forecasts!L53
	C&I Arising (Central)	=Forecasts!F19	=RiskTriang(J10,H10,L10,RiskStatic(H10),RiskName("C&I Arising Cent"),RiskCorrmat(corr,2))	Triangular	Mode	=D10	Min.	=Forecasts!Q24	Max.	=Forecasts!Q25
	LA Arising (Alternative)	=Forecasts!E34	=RiskTriang(J11,H11,L11,RiskName("LA Arising Alt"),RiskStatic(H11))	Triangular	Mode	=D11	Min.	0	Max.	0
	C&I Arising (Alternative)	=Forecasts!F34	=RiskTriang(J12,H12,L12,RiskName("C&I Arising Alt"),RiskStatic(H12))	Triangular	Mode	=D12	Min.	0	Max.	0
Model Selection										
	LA Arising (Model Input)	=IF(F74=1,E9,E11)	=D14							
	C&I Arising (Model Input)	=IF(F75=1,E10,E12)	=D15							
	LA Arising (Post- Shock)	=E14	=RiskUniform(D16*D66,D16*D66,RiskName("LA Arising (Shocked)"))							
	C&I Arising (Post- Shock)	=E15	=RiskUniform(D17*D70,D17*D70,RiskName("C&I Arising (Shocked)"))							

Input Parameters

Recycling Rates		Baseline	2020	Distribution	Static Value		Parameter 1		Parameter 2	
	LA Recycling Rate	=VLOOKUP(Outputs!$F$7,Outturn!$E$21:$I$32,2,)	=RiskTriang(J21,H21,L21,RiskName("LA Recycling Rate"),RiskStatic(H21),,RiskCorrmat(corr,3))	Triangular	Mode	0.513890470552515	Min.	=H21-5%	Max.	=H21+5%
	C&I Recycling Rate	=VLOOKUP(Outputs!$F$7,Outturn!$E$21:$I$32,3,)	=RiskTriang(J22,H22,L22,RiskName("C&I Recycling Rate"),RiskStatic(H22),,RiskCorrmat(corr,4))	Triangular	Mode	0.62	Min.	0.54	Max.	0.7
BMW Content										
	BMW Content of MSW	0.68	=RiskTriang(J24,H24,L24,RiskStatic(H24))	Triangular	Static	=D24	Min.	0.55	Max.	0.75
MSW Content										
	MSW % of Industrial Waste	0.1909	=RiskUniform(J26,L26,RiskName("MSW Content of Industrial Waste"),RiskStatic(H26))	Uniform	Static	=D26	Min.	=H26-4%	Max.	=H26+4%
	MSW % of Commercial Waste	0.8432	=RiskUniform(J27,L27,RiskName("MSW Content of Commercial Waste"),RiskStatic(H27))	Uniform	Static	=D27	Min.	=H27-5%	Max.	=H27+5%

Plant Level Assumptions

Utilisation Rates		Baseline	2020	Distribution	Static Value		Parameter 1		Parameter 2	
	BMBT Utilisation	0.8	=RiskTriang(J31,H31,L31,RiskStatic(H31))	Triangular	Mode	=D31	Min.	0.75	Max.	1
	EfW Utilisation	1	=RiskTriang(J32,H32,L32,RiskStatic(H32))	Triangular	Mode	=D32	Min.	0.9	Max.	1.05
	LFMBT Utilisation	0.8	=RiskTriang(J33,H33,L33,RiskStatic(H33))	Triangular	Mode	=D33	Min.	0.75	Max.	1
	MT Utilisation	0.8	=RiskTriang(J34,H34,L34,RiskStatic(H34))	Triangular	Mode	=D34	Min.	0.75	Max.	1
Diversion Efficiency										
	BMBT Efficiency	='Diversion Efficiency'!G26	=RiskTriang(J36,H36,L36,RiskStatic(H36))	Triangular	Mode	=D36	Min.	0.7	Max.	0.9
	EfW Efficiency	1	=RiskTriang(J37,H37,L37,RiskStatic(H37))	Triangular	Mode	=D37	Min.	1	Max.	1
	LFMBT Efficiency	='Diversion Efficiency'!G37	=RiskTriang(J38,H38,L38,RiskStatic(H38))	Triangular	Mode	=D38	Min.	0.5	Max.	0.9
	MT Efficiency	0	=RiskTriang(J39,H39,L39,RiskStatic(H39))	Triangular	Mode	=D39	Min.	0	Max.	0
Tonnes to EfW										
	BMBT to EfW	0.5	=RiskTriang(J41,H41,L41,RiskStatic(H41))	Triangular	Mode	=D41	Min.	0.4	Max.	0.6
	EfW to EfW	1	=RiskTriang(J42,H42,L42,RiskStatic(H42))	Triangular	Mode	=D42	Min.	1	Max.	1
	LFMBT to EfW	0	=RiskTriang(J43,H43,L43,RiskStatic(H43))	Triangular	Mode	=D43	Min.	0	Max.	0
	MT to EfW	0.85	=RiskTriang(J44,H44,L44,RiskStatic(H44))	Triangular	Mode	=D44	Min.	0.7	Max.	0.9
Adjustment to plants										
	Programme Contringency	0.95	=RiskUniform(J46,L46,RiskName("Programme Contingency"),RiskStatic(H46))	Uniform	Static	=D46	Min.	0.9	Max.	1

Correlation Between Inputs

LA Arisings and C&I Arisings		
	Coefficient	0.25
LA Recycling and C&I Recycling		
	Coefficient	0.25
LA Arising and LA Recycling		
	Coefficient	0
C&I Arising and C&I Recycling		
	Coefficient	0
Arisings and Project Delivery		
	Coefficient	0
Between Different Projects		
	Coefficient	0

Forecast Shocks

Shock to LA Arisings		Probability	Magnitude (%)	Random Draw	Effect
	Positive shock	0.2	0.2	=RiskUniform(0,1,RiskName("Positive LA Arisings Shock"))	=IF(F64>D64,1,1+E64)
	Negative shock	0	0.2	=RiskUniform(0,1,RiskName("Negative LA Arisings Shock"))	=IF(F65>D65,1,1-E65)
	"Shock"	=(G64+G65-1)			
Shock to C&I Arisings		**Probability**	**Magnitude (%)**	**Random Draw**	**Effect**
	Positive shock	0.2	0.2	=RiskUniform(0,1,RiskName("Positive C&I Arisings Shock"))	=IF(F68>D68,1,1+E68)
	Negative shock	0	0.2	=RiskUniform(0,1,RiskName("Negative C&I Arisings Shock"))	=IF(F69>D69,1,1-E69)
	"Shock"	=(G68+G69-1)			

Model Risk

Weight on central forecast	Weight	Random Draw	Indicator
LA Arisings	1	=RiskUniform(0,1,RiskName("LA Model Risk"))	=IF(E74>D74,0,1)
C&I Arisings	1	=RiskUniform(0,1,RiskName("C&I Model Risk"))	=IF(E75>D75,0,1)

END

Correlations

This sheet contains t
These values are dri

LA and C&I Arisings
=Inputs!D50
LA and C&I Recycling
=Inputs!D52
LA Arising and Recycling
=Inputs!D54
C&I Arising and Recycling
=Inputs!D56
Arisings and Project Delivery
=Inputs!D58
Between Different Projects
=Inputs!D60

@RISK Correlations	="LA Arisings Cer	="C&I Arising Ce	="LA Recylcing R	="C&I Recycling
="LA Arisings Cent in "&CELL("address",Inputs!$E$9)	1			
="C&I Arising Cent in "&CELL("address",Inputs!$E$10)	=C8	1		
="LA Recylcing Rate in "&CELL("address",Inputs!$E$21)	=C12	0	1	
="C&I Recycling Rate in "&CELL("address",Inputs!$E$22)	0	=C14	=C10	1
="North London Waste Authority (NLWA) - Edmonton in "&CELL("address",Projects!$P$23)	=$C$16	=$C$16	0	0
="Nottingham City Council - Eastcroft in "&CELL("address",Projects!$P$24)	=$C$16	=$C$16	0	0
="Coventry Energy from Waste Project in "&CELL("address",Projects!$P$25)	=$C$16	=$C$16	0	0
="South East London Combined Heat and Power (SELCHP) in "&CELL("address",Projects!$P$26)	=$C$16	=$C$16	0	0
="Birmingham Energy from Waste Project in "&CELL("address",Projects!$P$27)	=$C$16	=$C$16	0	0
="Bolton Energy from Waste Project in "&CELL("address",Projects!$P$28)	=$C$16	=$C$16	0	0
="Council of the Isles of Scilly Energy from Waste Project in "&CELL("address",Projects!$P$29)	=$C$16	=$C$16	0	0
="Sheffield Energy from Waste Project in "&CELL("address",Projects!$P$30)	=$C$16	=$C$16	0	0
="Stoke on Trent Energy from Waste Project in "&CELL("address",Projects!$P$31)	=$C$16	=$C$16	0	0
="Hartlepool BC (Tees Valley Lines 1 and 2 (Hartlepool)) Cleveland Energy from Waste Project in "&CELL("address",Projects!$P$32)	=$C$16	=$C$16	0	0
="Dudley MBC Energy from Waste Facility in "&CELL("address",Projects!$P$33)	=$C$16	=$C$16	0	0
="Wolverhampton MBC waste to energy plant in "&CELL("address",Projects!$P$34)	=$C$16	=$C$16	0	0
="NE Lincolnshire Energy from Waste Project in "&CELL("address",Projects!$P$35)	=$C$16	=$C$16	0	0
="Kirklees Waste Management Project in "&CELL("address",Projects!$P$36)	=$C$16	=$C$16	0	0
="Project Integra Energy from Waste Basingstoke in "&CELL("address",Projects!$P$37)	=$C$16	=$C$16	0	0
="Newcastle-upon-Tyne City Council Waste Management in "&CELL("address",Projects!$P$38)	=$C$16	=$C$16	0	0
="Project Integra Energy from Waste Marchwood in "&CELL("address",Projects!$P$39)	=$C$16	=$C$16	0	0
="Leicester City Council Integrated Waste Management Project in "&CELL("address",Projects!$P$40)	=$C$16	=$C$16	0	0
="Whites Pit Waste Management Project in "&CELL("address",Projects!$P$41)	=$C$16	=$C$16	0	0
="Project Integra Energy from Waste Portsmouth in "&CELL("address",Projects!$P$42)	=$C$16	=$C$16	0	0
="Durham County Council Waste Management Project in "&CELL("address",Projects!$P$43)	=$C$16	=$C$16	0	0
="East London Waste Authority Integrated waste Management (ELWA) in "&CELL("address",Projects!$P$44)	=$C$16	=$C$16	0	0
="Kent County Council Waste Management Project in "&CELL("address",Projects!$P$45)	=$C$16	=$C$16	0	0
="Merseyside - Huyton Knowsley in "&CELL("address",Projects!$P$46)	=$C$16	=$C$16	0	0
="Isle of Wight Waste Management Project in "&CELL("address",Projects!$P$47)	=$C$16	=$C$16	0	0
="Northumberland Waste Management Project in "&CELL("address",Projects!$P$48)	=$C$16	=$C$16	0	0
="Lakeside Energy From Waste in "&CELL("address",Projects!$P$49)	=$C$16	=$C$16	0	0
="Leicestershire County Council Waste Management Project in "&CELL("address",Projects!$P$50)	=$C$16	=$C$16	0	0
="Lancashire Waste Partnership - 1 in "&CELL("address",Projects!$P$51)	=$C$16	=$C$16	0	0
="Lancashire Waste Partnership -2 in "&CELL("address",Projects!$P$52)	=$C$16	=$C$16	0	0
="New Earth Solutions Waste Management Project - gloucs in "&CELL("address",Projects!$P$53)	=$C$16	=$C$16	0	0
="Cumbria Waste PPP Project (North) in "&CELL("address",Projects!$P$54)	=$C$16	=$C$16	0	0
="North Lincolnshire in "&CELL("address",Projects!$P$55)	=$C$16	=$C$16	0	0
="East Sussex County Council and Brighton & Hove City Council - New waste partnerships in "&CELL("address",Projects!$P$56)	=$C$16	=$C$16	0	0
="Western Riverside WDA in "&CELL("address",Projects!$P$57)	=$C$16	=$C$16	0	0
="London Borough of Southwark Integrated Waste Management Solutions Project in "&CELL("address",Projects!$P$58)	=$C$16	=$C$16	0	0
="Cambridgeshire County Council Waste Management Project in "&CELL("address",Projects!$P$59)	=$C$16	=$C$16	0	0
="Merseyside in "&CELL("address",Projects!$P$60)	=$C$16	=$C$16	0	0
="Cumbria Waste PPP (South) in "&CELL("address",Projects!$P$61)	=$C$16	=$C$16	0	0
="Greater Manchester WDA - Manchester Waste in "&CELL("address",Projects!$P$62)	=$C$16	=$C$16	0	0
="Dorset - Dorset Green (Avonmouth) in "&CELL("address",Projects!$P$63)	=$C$16	=$C$16	0	0
="Lincolnshire CC in "&CELL("address",Projects!$P$64)	=$C$16	=$C$16	0	0
="West Sussex County Council Waste Management in "&CELL("address",Projects!$P$65)	=$C$16	=$C$16	0	0
="Wiltshire Council Waste PPP Project in "&CELL("address",Projects!$P$66)	=$C$16	=$C$16	0	0
="Staffordshire Waste Management Project in "&CELL("address",Projects!$P$67)	=$C$16	=$C$16	0	0
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="Devon, Exeter Energy From Waste in "&CELL("address",Projects!$P$71)	=$C$16	=$C$16	0	0
="South Tyne and Wear Waste Management Partnership (STWP) in "&CELL("address",Projects!$P$72)	=$C$16	=$C$16	0	0
="West of England - Avonmouth in "&CELL("address",Projects!$P$73)	=$C$16	=$C$16	0	0
="South West Devon Waste Partnership (SWDWP) Waste Management Project in "&CELL("address",Projects!$P$74)	=$C$16	=$C$16	0	0
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="Derbyshire Waste Mnagement Project in "&CELL("address",Projects!$P$76)	=$C$16	=$C$16	0	0
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="West London Waste Authority (WLWA) in "&CELL("address",Projects!$P$88)	=$C$16	=$C$16	0	0
="South Yorkshire waste (BDR) in "&CELL("address",Projects!$P$89)	=$C$16	=$C$16	0	0
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="London Sustainable Industries Park in "&CELL("address",Projects!$P$93)	=$C$16	=$C$16	0	0
="Milton Keynes Waste Management Project in "&CELL("address",Projects!$P$94)	=$C$16	=$C$16	0	0
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="Bradford Waste Treatment Services Project in "&CELL("address",Projects!$P$96)	=$C$16	=$C$16	0	0
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="South London Waste Partnership (SLWP) in "&CELL("address",Projects!$P$99)	=$C$16	=$C$16	0	0
="North Yorkshire Council and City of York Waste Management Project in "&CELL("address",Projects!$P$100)	=$C$16	=$C$16	0	0
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="Avonmouth North - Viridor in "&CELL("address",Projects!$P$103)	=$C$16	=$C$16	0	0
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="Birmingham - Tyseley Extension waste Project in "&CELL("address",Projects!$P$106)	=$C$16	=$C$16	0	0
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="Darlington in "&CELL("address",Projects!$P$112)	=$C$16	=$C$16	0	0
="Derby City in "&CELL("address",Projects!$P$113)	=$C$16	=$C$16	0	0
="Derbyshire - Dunston Road in "&CELL("address",Projects!$P$114)	=$C$16	=$C$16	0	0
="Devon - Hill Barton in "&CELL("address",Projects!$P$115)	=$C$16	=$C$16	0	0
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="Doncaster in "&CELL("address",Projects!$P$117)	=$C$16	=$C$16	0	0
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="INSERT NEW PROJECT HERE in "&CELL("address",Projects!$P$212)	=$C$16	=$C$16	0	0
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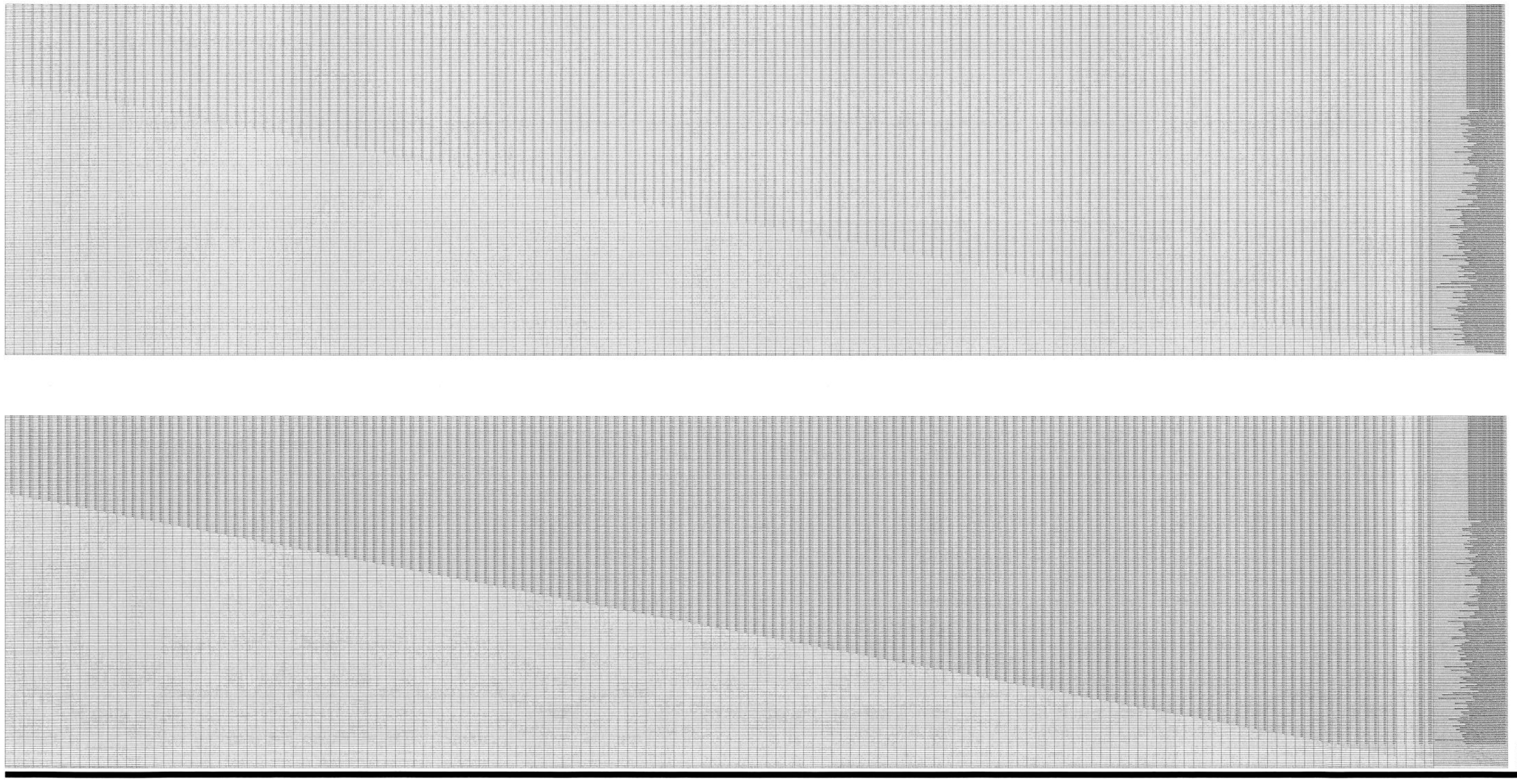

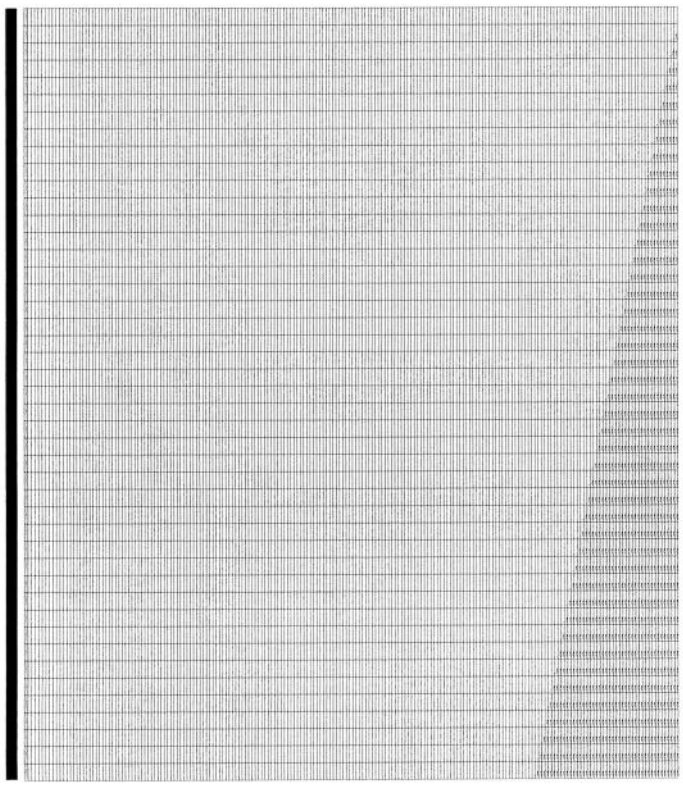

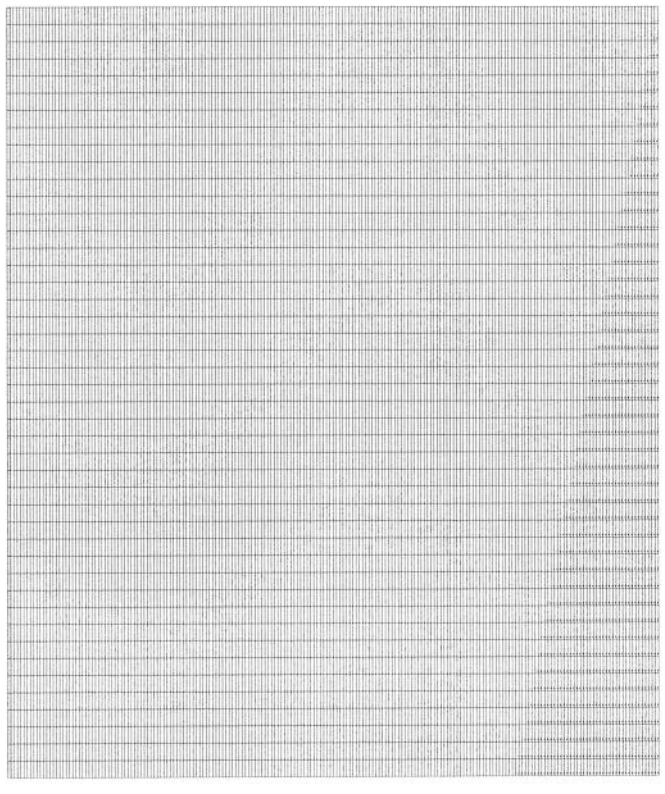

Empirical Correlations

Correlatior
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Use this sl

Method 1	Waste Arising	Waste Recycled	Residual Waste	Residual BMW	Diversion Capacity	BMW to Landfill	Surplus/(deficit) capacity
Waste Arising	=RiskCorrel(Outputs!$D$9,Outputs!$D9,1)						
Waste Recycled	=RiskCorrel(Outputs!D$9,Outputs!D10,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D10,1)					
Residual Waste	=RiskCorrel(Outputs!D$9,Outputs!D11,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D11,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D11,1)				
Residual BMW	=RiskCorrel(Outputs!D$9,Outputs!D12,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D12,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D12,1)	=RiskCorrel(Outputs!$D$12,Outputs!$D12,1)			
Diversion Capacity	**=RiskCorrel(Outputs!D$9,Outputs!D14,1)**	=RiskCorrel(Outputs!$D$10,Outputs!$D14,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D14,1)	=RiskCorrel(Outputs!$D$12,Outputs!$D14,1)	=RiskCorrel(Outputs!$D$14,Outputs!$D14,1)		
BMW to Landfill	=RiskCorrel(Outputs!D$9,Outputs!D15,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D15,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D15,1)	=RiskCorrel(Outputs!$D$12,Outputs!$D15,1)	=RiskCorrel(Outputs!$D$14,Outputs!$D15,1)	=RiskCorrel(Outputs!$D$15,Outputs!$D15,1)	
Surplus/(deficit) capacity	=RiskCorrel(Outputs!D$9,Outputs!D16,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D16,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D16,1)	=RiskCorrel(Outputs!$D$12,Outputs!$D16,1)	=RiskCorrel(Outputs!$D$14,Outputs!$D16,1)	=RiskCorrel(Outputs!$D$15,Outputs!$D16,1)	=RiskCorrel(Outputs!$D$16,Outputs!$[

Method 2	Waste Arising	Waste Recycled	Residual Waste	Residual BMW	Diversion Capacity	BMW to Landfill	Surplus/(deficit) capacity
Waste Arising	=RiskCorrel(Outputs!$D$9,Outputs!$D9,1)						
Waste Recycled	=RiskCorrel(Outputs!$D$9,Outputs!$D10,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D10,1)					
Residual Waste	=RiskCorrel(Outputs!$D$9,Outputs!$D11,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D11,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D11,1)				
Residual BMW	=RiskCorrel(Outputs!$D$9,Outputs!$D12,1)	=RiskCorrel(Outputs!$D$10,Outputs!$D12,1)	=RiskCorrel(Outputs!$D$11,Outputs!$D12,1)	=RiskCorrel(Outputs!$D$12,Outputs!$D12,1)			
Diversion Capacity	**=RiskCorrel(Outputs!$D$9,Outputs!$F14,1)**	=RiskCorrel(Outputs!$D$10,Outputs!$F14,1)	=RiskCorrel(Outputs!$D$11,Outputs!$F14,1)	=RiskCorrel(Outputs!$D$12,Outputs!$F14,1)	=RiskCorrel(Outputs!$F$14,Outputs!$F14,1)		
BMW to Landfill	=RiskCorrel(Outputs!$D$9,Outputs!$F15,1)	=RiskCorrel(Outputs!$D$10,Outputs!$F15,1)	=RiskCorrel(Outputs!$D$11,Outputs!$F15,1)	=RiskCorrel(Outputs!$D$12,Outputs!$F15,1)	=RiskCorrel(Outputs!$F$14,Outputs!$F15,1)	=RiskCorrel(Outputs!$F$15,Outputs!$F15,1)	
Surplus/(deficit) capacity	=RiskCorrel(Outputs!$D$9,Outputs!$F16,1)	=RiskCorrel(Outputs!$D$10,Outputs!$F16,1)	=RiskCorrel(Outputs!$D$11,Outputs!$F16,1)	=RiskCorrel(Outputs!$D$12,Outputs!$F16,1)	=RiskCorrel(Outputs!$F$14,Outputs!$F16,1)	=RiskCorrel(Outputs!$F$15,Outputs!$F16,1)	=RiskCorrel(Outputs!$F$16,Outputs!$F

Infrastructure

The following worksheets all deal with infrastructure.

No.	Name	Description
1	Projects	Lists the waste diversion infrastructure that is already installed or is projected to come online. Edit project risk, delivery date, operational capcity and plant type here.
2	Diversion Efficiency	Calculates the diversion efficiency of BMBT and LFMBT plants. Edit mositure loss, recycling, residues to landfill etc. here.
3	Delivery Adjustment	Lists the delivery adjustment for different types of project, by stage of completion. Edit adjustment rates here.
4	Sum Capacity	Calculates the sum of infrastructure capacity in different years. No user entry.

Projects This sheet is a key data input
Input cells driving calculations
The cells labelled "Random D

Field	Comment
Location	Brief Project identifier. Further details are held in a contact database
Classification	Describes the project as PPP (local authority driven Public Private Partnership), or PFI
Status	Describes the life cycle stage of the project - see drop down list for descriptors
Operational Date	The date on which the plant became or will become operational
FY Completed	The fiscal year (end) in which the plant became or will become operational. Plants are
Operational Capacity	The operational thoroughput capacity of the plant NB. Not the permitted capacity or the
Plant Type	Plant is (user) classified as: Energy from Waste (EfW), Biodrying Mechanical Biologic
Proj. RAG	The Red, Amber, Green (RAG) status of the plant - user input as per colour coding in A
Utilisation	Calculation - adjusts operational capacity depending on inputs in the Assumptions she
Tonnes to EfW if MBT	Calculation - where an MBT plant estimates the tonnage of waste that will be treated
BMW Content	Calculates the BMW content of the input waste depending on inputs in Assumptions sh
BMW Diverted from Landfill	Calculates the BMW diverted form landfill depending on inputs in the Assumptions she
BMW Diverted Proj Risk Adjusted	Applies a project risk adjustment (see Assumptions) to the calculated BMW diversion
Comment	Notes any specific comments on the plant

Location	Classification - PFI, PPP or M	Status	Operational Date	FY (End) Completed	Operational Capacity (ktpa)	Plant Type - efw, bmbt, lfmbt, mt	Proj. RAG	Delivery Adjustment Rate	Utilisation (ktpa)	Tonnes to EfW (if MBT)	BMW Content (ktpa)	BMW Diversion Capacity (ktpa)	Random Draw (-1 to 0)	Project Delivery Dummy	BMW Capacity Delivered (ktpa)	BMW Capacity Net of Outtages (ktpa)	Comment
North London Waste Authority (NLWA) - Edmonton	PPP	Operational	01-Jan-1974 01-Jan-1974	2010	481	EfW	[redacted]	[redacted]	=H23*LOOKUP(P23,'Diversion Efficiency'!$C$9:$D$12)	=IF(I23="EfW",0,$L23*LOOKUP(P23,'Diversion Efficiency'!$C$9:$E$12))	=L23*Inputs!$E$24	=IF(I23="EfW",N23,(N23-M23*Inputs!$E$24))*VLOOKUP(P23,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C23),RiskCorrmat(corr,5))	=IF(P23<-K23,0,1)	=Q23*O23	=R23*Inputs!$E$46	[redacted]
Nottingham City Council - Eastcroft	PPP	Operational	01-Jan-1975	2010	146	EfW	[redacted]	[redacted]	=H24*LOOKUP(P24,'Diversion Efficiency'!$C$9:$D$12)	=IF(I24="EfW",0,$L24*LOOKUP(P24,'Diversion Efficiency'!$C$9:$E$12))	=L24*Inputs!$E$24	=IF(I24="EfW",N24,(N24-M24*Inputs!$E$24))*VLOOKUP(P24,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C24),RiskCorrmat(corr,6))	=IF(P24<-K24,0,1)	=Q24*O24	=R24*Inputs!$E$46	[redacted]
Coventry Energy from Waste Project	PPP	Operational		2010	234	EfW	[redacted]	[redacted]	=H25*LOOKUP(P25,'Diversion Efficiency'!$C$9:$D$12)	=IF(I25="EfW",0,$L25*LOOKUP(P25,'Diversion Efficiency'!$C$9:$E$12))	=L25*Inputs!$E$24	=IF(I25="EfW",N25,(N25-M25*Inputs!$E$24))*VLOOKUP(P25,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C25),RiskCorrmat(corr,7))	=IF(P25<-K25,0,1)	=Q25*O25	=R25*Inputs!$E$46	[redacted]
South East London Combined Heat and Power (SELCHP)	PPP	Operational	01-Jan-1994 01-Jan-1996	2010	416	EfW	[redacted]	[redacted]	=H26*LOOKUP(P26,'Diversion Efficiency'!$C$9:$D$12)	=IF(I26="EfW",0,$L26*LOOKUP(P26,'Diversion Efficiency'!$C$9:$E$12))	=L26*Inputs!$E$24	=IF(I26="EfW",N26,(N26-M26*Inputs!$E$24))*VLOOKUP(P26,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C26),RiskCorrmat(corr,8))	=IF(P26<-K26,0,1)	=Q26*O26	=R26*Inputs!$E$46	[redacted]
Birmingham Energy from Waste Project	PPP	Operational	01-Jan-1996	2010	348	EfW	[redacted]	[redacted]	=H27*LOOKUP(P27,'Diversion Efficiency'!$C$9:$D$12)	=IF(I27="EfW",0,$L27*LOOKUP(P27,'Diversion Efficiency'!$C$9:$E$12))	=L27*Inputs!$E$24	=IF(I27="EfW",N27,(N27-M27*Inputs!$E$24))*VLOOKUP(P27,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C27),RiskCorrmat(corr,9))	=IF(P27<-K27,0,1)	=Q27*O27	=R27*Inputs!$E$46	[redacted]
Bolton Energy from Waste Project	PPP	Operational		2010	91	EfW	[redacted]	[redacted]	=H28*LOOKUP(P28,'Diversion Efficiency'!$C$9:$D$12)	=IF(I28="EfW",0,$L28*LOOKUP(P28,'Diversion Efficiency'!$C$9:$E$12))	=L28*Inputs!$E$24	=IF(I28="EfW",N28,(N28-M28*Inputs!$E$24))*VLOOKUP(P28,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C28),RiskCorrmat(corr,10))	=IF(P28<-K28,0,1)	=Q28*O28	=R28*Inputs!$E$46	[redacted]
Council of the Isles of Scilly Energy from Waste Project	PPP	Operational	01-Jan-1996 01-Jan-1997	2010	2.5	EfW	[redacted]	[redacted]	=H29*LOOKUP(P29,'Diversion Efficiency'!$C$9:$D$12)	=IF(I29="EfW",0,$L29*LOOKUP(P29,'Diversion Efficiency'!$C$9:$E$12))	=L29*Inputs!$E$24	=IF(I29="EfW",N29,(N29-M29*Inputs!$E$24))*VLOOKUP(P29,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C29),RiskCorrmat(corr,11))	=IF(P29<-K29,0,1)	=Q29*O29	=R29*Inputs!$E$46	[redacted]
Sheffield Energy from Waste Project	PPP	Operational	01-Jan-1997	2010	192	EfW	[redacted]	[redacted]	=H30*LOOKUP(P30,'Diversion Efficiency'!$C$9:$D$12)	=IF(I30="EfW",0,$L30*LOOKUP(P30,'Diversion Efficiency'!$C$9:$E$12))	=L30*Inputs!$E$24	=IF(I30="EfW",N30,(N30-M30*Inputs!$E$24))*VLOOKUP(P30,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C30),RiskCorrmat(corr,12))	=IF(P30<-K30,0,1)	=Q30*O30	=R30*Inputs!$E$46	[redacted]
Stoke on Trent Energy from Waste Project	PPP	Operational	01-Jan-1998	2010	170	EfW	[redacted]	[redacted]	=H31*LOOKUP(P31,'Diversion Efficiency'!$C$9:$D$12)	=IF(I31="EfW",0,$L31*LOOKUP(P31,'Diversion Efficiency'!$C$9:$E$12))	=L31*Inputs!$E$24	=IF(I31="EfW",N31,(N31-M31*Inputs!$E$24))*VLOOKUP(P31,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C31),RiskCorrmat(corr,13))	=IF(P31<-K31,0,1)	=Q31*O31	=R31*Inputs!$E$46	[redacted]
Hartlepool BC (Tees Valley Lines 1 and 2 (Hartlepool)) Cleveland Energy from Waste Project	PPP	Operational	01-Feb-1998	2010	236	EfW	[redacted]	[redacted]	=H32*LOOKUP(P32,'Diversion Efficiency'!$C$9:$D$12)	=IF(I32="EfW",0,$L32*LOOKUP(P32,'Diversion Efficiency'!$C$9:$E$12))	=L32*Inputs!$E$24	=IF(I32="EfW",N32,(N32-M32*Inputs!$E$24))*VLOOKUP(P32,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C32),RiskCorrmat(corr,14))	=IF(P32<-K32,0,1)	=Q32*O32	=R32*Inputs!$E$46	[redacted]
Dudley MBC Energy from Waste Facility	PPP	Operational	01-Jun-1998	2010	93	EfW	[redacted]	[redacted]	=H33*LOOKUP(P33,'Diversion Efficiency'!$C$9:$D$12)	=IF(I33="EfW",0,$L33*LOOKUP(P33,'Diversion Efficiency'!$C$9:$E$12))	=L33*Inputs!$E$24	=IF(I33="EfW",N33,(N33-M33*Inputs!$E$24))*VLOOKUP(P33,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C33),RiskCorrmat(corr,15))	=IF(P33<-K33,0,1)	=Q33*O33	=R33*Inputs!$E$46	[redacted]
Wolverhampton MBC waste to energy plant	PPP	Operational	01-Jan-1999 01-Jan-2005	2010	106	EfW	[redacted]	[redacted]	=H34*LOOKUP(P34,'Diversion Efficiency'!$C$9:$D$12)	=IF(I34="EfW",0,$L34*LOOKUP(P34,'Diversion Efficiency'!$C$9:$E$12))	=L34*Inputs!$E$24	=IF(I34="EfW",N34,(N34-M34*Inputs!$E$24))*VLOOKUP(P34,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C34),RiskCorrmat(corr,16))	=IF(P34<-K34,0,1)	=Q34*O34	=R34*Inputs!$E$46	[redacted]
NE Lincolnshire Energy from Waste Project	PPP	Operational	01-Jan-2005	2010	51	EfW	[redacted]	[redacted]	=H35*LOOKUP(P35,'Diversion Efficiency'!$C$9:$D$12)	=IF(I35="EfW",0,$L35*LOOKUP(P35,'Diversion Efficiency'!$C$9:$E$12))	=L35*Inputs!$E$24	=IF(I35="EfW",N35,(N35-M35*Inputs!$E$24))*VLOOKUP(P35,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C35),RiskCorrmat(corr,17))	=IF(P35<-K35,0,1)	=Q35*O35	=R35*Inputs!$E$46	[redacted]
Project Integra Energy from Waste Basingstoke	PPP	Operational	01-Jan-2006 01-Jan-2007	2010	96	EfW	[redacted]	[redacted]	=H36*LOOKUP(P36,'Diversion Efficiency'!$C$9:$D$12)	=IF(I36="EfW",0,$L36*LOOKUP(P36,'Diversion Efficiency'!$C$9:$E$12))	=L36*Inputs!$E$24	=IF(I36="EfW",N36,(N36-M36*Inputs!$E$24))*VLOOKUP(P36,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C36),RiskCorrmat(corr,18))	=IF(P36<-K36,0,1)	=Q36*O36	=R36*Inputs!$E$46	[redacted]
Newcastle-upon-Tyne City Council Waste Management	PPP	Operational	01-Jan-2007	2010	120	LFMBT	[redacted]	[redacted]	=H37*LOOKUP(P37,'Diversion Efficiency'!$C$9:$D$12)	=IF(I37="EfW",0,$L37*LOOKUP(P37,'Diversion Efficiency'!$C$9:$E$12))	=L37*Inputs!$E$24	=IF(I37="EfW",N37,(N37-M37*Inputs!$E$24))*VLOOKUP(P37,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C37),RiskCorrmat(corr,19))	=IF(P37<-K37,0,1)	=Q37*O37	=R37*Inputs!$E$46	[redacted]
Project Integra Energy from Waste Marchwood	PPP	Operational	01-Jan-2007 01-Jan-2008	2010	187	EfW	[redacted]	[redacted]	=H38*LOOKUP(P38,'Diversion Efficiency'!$C$9:$D$12)	=IF(I38="EfW",0,$L38*LOOKUP(P38,'Diversion Efficiency'!$C$9:$E$12))	=L38*Inputs!$E$24	=IF(I38="EfW",N38,(N38-M38*Inputs!$E$24))*VLOOKUP(P38,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C38),RiskCorrmat(corr,20))	=IF(P38<-K38,0,1)	=Q38*O38	=R38*Inputs!$E$46	[redacted]
Whites Pit Waste Management Project	PPP	Operational	01-Apr-2008	2010	50	LFMBT	[redacted]	[redacted]	=H39*LOOKUP(P39,'Diversion Efficiency'!$C$9:$D$12)	=IF(I39="EfW",0,$L39*LOOKUP(P39,'Diversion Efficiency'!$C$9:$E$12))	=L39*Inputs!$E$24	=IF(I39="EfW",N39,(N39-M39*Inputs!$E$24))*VLOOKUP(P39,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C39),RiskCorrmat(corr,21))	=IF(P39<-K39,0,1)	=Q39*O39	=R39*Inputs!$E$46	[redacted]
Project Integra Energy from Waste Portsmouth	PPP	Operational	01-Jan-2010	2010	193	EfW	[redacted]	[redacted]	=H40*LOOKUP(P40,'Diversion Efficiency'!$C$9:$D$12)	=IF(I40="EfW",0,$L40*LOOKUP(P40,'Diversion Efficiency'!$C$9:$E$12))	=L40*Inputs!$E$24	=IF(I40="EfW",N40,(N40-M40*Inputs!$E$24))*VLOOKUP(P40,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C40),RiskCorrmat(corr,22))	=IF(P40<-K40,0,1)	=Q40*O40	=R40*Inputs!$E$46	[redacted]
Durham County Council Waste Management Project	PPP	Operational	01-Oct-2010 17-Dec-2011	2010	20	LFMBT	[redacted]	[redacted]	=H41*LOOKUP(P41,'Diversion Efficiency'!$C$9:$D$12)	=IF(I41="EfW",0,$L41*LOOKUP(P41,'Diversion Efficiency'!$C$9:$E$12))	=L41*Inputs!$E$24	=IF(I41="EfW",N41,(N41-M41*Inputs!$E$24))*VLOOKUP(P41,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C41),RiskCorrmat(corr,23))	=IF(P41<-K41,0,1)	=Q41*O41	=R41*Inputs!$E$46	[redacted]
Kent County Council Waste Management Project	PPP	Operational	01-Jan-2012	2010	230	EfW	[redacted]	[redacted]	=H42*LOOKUP(P42,'Diversion Efficiency'!$C$9:$D$12)	=IF(I42="EfW",0,$L42*LOOKUP(P42,'Diversion Efficiency'!$C$9:$E$12))	=L42*Inputs!$E$24	=IF(I42="EfW",N42,(N42-M42*Inputs!$E$24))*VLOOKUP(P42,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C42),RiskCorrmat(corr,24))	=IF(P42<-K42,0,1)	=Q42*O42	=R42*Inputs!$E$46	[redacted]
Merseyside - Huyton Knowsley	PPP	Cancelled	01-Feb-2012	2010	0	MT	[redacted]	[redacted]	=H43*LOOKUP(P43,'Diversion Efficiency'!$C$9:$D$12)	=IF(I43="EfW",0,$L43*LOOKUP(P43,'Diversion Efficiency'!$C$9:$E$12))	=L43*Inputs!$E$24	=IF(I43="EfW",N43,(N43-M43*Inputs!$E$24))*VLOOKUP(P43,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C43),RiskCorrmat(corr,25))	=IF(P43<-K43,0,1)	=Q43*O43	=R43*Inputs!$E$46	[redacted]
Lakeside Energy From Waste	PPP	Operational	01-Mar-2013	2010	384	EfW	[redacted]	[redacted]	=H44*LOOKUP(P44,'Diversion Efficiency'!$C$9:$D$12)	=IF(I44="EfW",0,$L44*LOOKUP(P44,'Diversion Efficiency'!$C$9:$E$12))	=L44*Inputs!$E$24	=IF(I44="EfW",N44,(N44-M44*Inputs!$E$24))*VLOOKUP(P44,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C44),RiskCorrmat(corr,26))	=IF(P44<-K44,0,1)	=Q44*O44	=R44*Inputs!$E$46	[redacted]
Leicestershire County Council Waste Management Project	PPP	Operational	30-Jun-2013	2011	50	LFMBT	[redacted]	[redacted]	=H45*LOOKUP(P45,'Diversion Efficiency'!$C$9:$D$12)	=IF(I45="EfW",0,$L45*LOOKUP(P45,'Diversion Efficiency'!$C$9:$E$12))	=L45*Inputs!$E$24	=IF(I45="EfW",N45,(N45-M45*Inputs!$E$24))*VLOOKUP(P45,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C45),RiskCorrmat(corr,27))	=IF(P45<-K45,0,1)	=Q45*O45	=R45*Inputs!$E$46	[redacted]
Cumbria Waste PPP Project (North)	PPP	Operational	01-Jul-2013	2012	75	BMBT	[redacted]	[redacted]	=H46*LOOKUP(P46,'Diversion Efficiency'!$C$9:$D$12)	=IF(I46="EfW",0,$L46*LOOKUP(P46,'Diversion Efficiency'!$C$9:$E$12))	=L46*Inputs!$E$24	=IF(I46="EfW",N46,(N46-M46*Inputs!$E$24))*VLOOKUP(P46,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C46),RiskCorrmat(corr,28))	=IF(P46<-K46,0,1)	=Q46*O46	=R46*Inputs!$E$46	[redacted]
North Lincolnshire	PPP	Operational	01-Sep-2013	2012		EfW	[redacted]	[redacted]	=H47*LOOKUP(P47,'Diversion Efficiency'!$C$9:$D$12)	=IF(I47="EfW",0,$L47*LOOKUP(P47,'Diversion Efficiency'!$C$9:$E$12))	=L47*Inputs!$E$24	=IF(I47="EfW",N47,(N47-M47*Inputs!$E$24))*VLOOKUP(P47,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C47),RiskCorrmat(corr,29))	=IF(P47<-K47,0,1)	=Q47*O47	=R47*Inputs!$E$46	[redacted]
Western Riverside WDA	PPP	Operational		2012	670	EfW	[redacted]	[redacted]	=H48*LOOKUP(P48,'Diversion Efficiency'!$C$9:$D$12)	=IF(I48="EfW",0,$L48*LOOKUP(P48,'Diversion Efficiency'!$C$9:$E$12))	=L48*Inputs!$E$24	=IF(I48="EfW",N48,(N48-M48*Inputs!$E$24))*VLOOKUP(P48,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C48),RiskCorrmat(corr,30))	=IF(P48<-K48,0,1)	=Q48*O48	=R48*Inputs!$E$46	[redacted]
Cumbria Waste PPP (South)	PPP	In-Construction	01-Jan-2014	2013	75	BMBT	[redacted]	[redacted]	=H49*LOOKUP(P49,'Diversion Efficiency'!$C$9:$D$12)	=IF(I49="EfW",0,$L49*LOOKUP(P49,'Diversion Efficiency'!$C$9:$E$12))	=L49*Inputs!$E$24	=IF(I49="EfW",N49,(N49-M49*Inputs!$E$24))*VLOOKUP(P49,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C49),RiskCorrmat(corr,31))	=IF(P49<-K49,0,1)	=Q49*O49	=R49*Inputs!$E$46	[redacted]
Lincolnshire CC	PPP	In-Construction	01-Jan-2014	2014	150	EfW	[redacted]	[redacted]	=H50*LOOKUP(P50,'Diversion Efficiency'!$C$9:$D$12)	=IF(I50="EfW",0,$L50*LOOKUP(P50,'Diversion Efficiency'!$C$9:$E$12))	=L50*Inputs!$E$24	=IF(I50="EfW",N50,(N50-M50*Inputs!$E$24))*VLOOKUP(P50,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C50),RiskCorrmat(corr,32))	=IF(P50<-K50,0,1)	=Q50*O50	=R50*Inputs!$E$46	[redacted]
West Sussex County Council Waste Management	PPP	In-Construction	01-Dec-2014	2014	320	BMBT	[redacted]	[redacted]	=H51*LOOKUP(P51,'Diversion Efficiency'!$C$9:$D$12)	=IF(I51="EfW",0,$L51*LOOKUP(P51,'Diversion Efficiency'!$C$9:$E$12))	=L51*Inputs!$E$24	=IF(I51="EfW",N51,(N51-M51*Inputs!$E$24))*VLOOKUP(P51,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C51),RiskCorrmat(corr,33))	=IF(P51<-K51,0,1)	=Q51*O51	=R51*Inputs!$E$46	[redacted]
Wiltshire Council Waste PPP Project	PPP	In-Construction	01-Dec-2014	2014	60	BMBT	[redacted]	[redacted]	=H52*LOOKUP(P52,'Diversion Efficiency'!$C$9:$D$12)	=IF(I52="EfW",0,$L52*LOOKUP(P52,'Diversion Efficiency'!$C$9:$E$12))	=L52*Inputs!$E$24	=IF(I52="EfW",N52,(N52-M52*Inputs!$E$24))*VLOOKUP(P52,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C52),RiskCorrmat(corr,34))	=IF(P52<-K52,0,1)	=Q52*O52	=R52*Inputs!$E$46	[redacted]
North Lincolnshire Waste Management Project	PPP	In-procurement	18-Jan-2015 01-Apr-2015	2014	70	BMBT	[redacted]	[redacted]	=H53*LOOKUP(P53,'Diversion Efficiency'!$C$9:$D$12)	=IF(I53="EfW",0,$L53*LOOKUP(P53,'Diversion Efficiency'!$C$9:$E$12))	=L53*Inputs!$E$24	=IF(I53="EfW",N53,(N53-M53*Inputs!$E$24))*VLOOKUP(P53,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C53),RiskCorrmat(corr,35))	=IF(P53<-K53,0,1)	=Q53*O53	=R53*Inputs!$E$46	[redacted]
Devon Exeter Energy From Waste	PPP	In-Construction	01-May-2015	2014	60	EfW	[redacted]	[redacted]	=H54*LOOKUP(P54,'Diversion Efficiency'!$C$9:$D$12)	=IF(I54="EfW",0,$L54*LOOKUP(P54,'Diversion Efficiency'!$C$9:$E$12))	=L54*Inputs!$E$24	=IF(I54="EfW",N54,(N54-M54*Inputs!$E$24))*VLOOKUP(P54,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C54),RiskCorrmat(corr,36))	=IF(P54<-K54,0,1)	=Q54*O54	=R54*Inputs!$E$46	[redacted]
Derbyshire Waste Mnagement Project	PPP	Financial Close		2015	190	EfW	[redacted]	[redacted]	=H55*LOOKUP(P55,'Diversion Efficiency'!$C$9:$D$12)	=IF(I55="EfW",0,$L55*LOOKUP(P55,'Diversion Efficiency'!$C$9:$E$12))	=L55*Inputs!$E$24	=IF(I55="EfW",N55,(N55-M55*Inputs!$E$24))*VLOOKUP(P55,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C55),RiskCorrmat(corr,37))	=IF(P55<-K55,0,1)	=Q55*O55	=R55*Inputs!$E$46	[redacted]
Derby City - Sinfin Lane	PPP	TBC	01-Apr-2015	2015	0	EfW	[redacted]	[redacted]	=H56*LOOKUP(P56,'Diversion Efficiency'!$C$9:$D$12)	=IF(I56="EfW",0,$L56*LOOKUP(P56,'Diversion Efficiency'!$C$9:$E$12))	=L56*Inputs!$E$24	=IF(I56="EfW",N56,(N56-M56*Inputs!$E$24))*VLOOKUP(P56,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C56),RiskCorrmat(corr,38))	=IF(P56<-K56,0,1)	=Q56*O56	=R56*Inputs!$E$46	[redacted]
Oxfordshire County Council PPP Waste Project	PPP	In-Construction	31-Dec-2016	2015	300	EfW	[redacted]	[redacted]	=H57*LOOKUP(P57,'Diversion Efficiency'!$C$9:$D$12)	=IF(I57="EfW",0,$L57*LOOKUP(P57,'Diversion Efficiency'!$C$9:$E$12))	=L57*Inputs!$E$24	=IF(I57="EfW",N57,(N57-M57*Inputs!$E$24))*VLOOKUP(P57,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C57),RiskCorrmat(corr,39))	=IF(P57<-K57,0,1)	=Q57*O57	=R57*Inputs!$E$46	[redacted]
Wigan Council Waste to Energy project	PPP	In-procurement	01-Oct-2016	2016	180	EfW	[redacted]	[redacted]	=H58*LOOKUP(P58,'Diversion Efficiency'!$C$9:$D$12)	=IF(I58="EfW",0,$L58*LOOKUP(P58,'Diversion Efficiency'!$C$9:$E$12))	=L58*Inputs!$E$24	=IF(I58="EfW",N58,(N58-M58*Inputs!$E$24))*VLOOKUP(P58,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C58),RiskCorrmat(corr,40))	=IF(P58<-K58,0,1)	=Q58*O58	=R58*Inputs!$E$46	[redacted]
Buckinghamshire County Council RW (EfW)	PPP	In-procurement	01-Nov-2016 01-Mar-2017	2016	300	EfW	[redacted]	[redacted]	=H59*LOOKUP(P59,'Diversion Efficiency'!$C$9:$D$12)	=IF(I59="EfW",0,$L59*LOOKUP(P59,'Diversion Efficiency'!$C$9:$E$12))	=L59*Inputs!$E$24	=IF(I59="EfW",N59,(N59-M59*Inputs!$E$24))*VLOOKUP(P59,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C59),RiskCorrmat(corr,41))	=IF(P59<-K59,0,1)	=Q59*O59	=R59*Inputs!$E$46	[redacted]
West London Waste Authority (WLWA)	PPP	In-procurement	01-Dec-2019	2016	300	EfW	[redacted]	[redacted]	=H60*LOOKUP(P60,'Diversion Efficiency'!$C$9:$D$12)	=IF(I60="EfW",0,$L60*LOOKUP(P60,'Diversion Efficiency'!$C$9:$E$12))	=L60*Inputs!$E$24	=IF(I60="EfW",N60,(N60-M60*Inputs!$E$24))*VLOOKUP(P60,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C60),RiskCorrmat(corr,42))	=IF(P60<-K60,0,1)	=Q60*O60	=R60*Inputs!$E$46	[redacted]
Milton Keynes Waste Management Project	PPP	In-procurement	01-Dec-2019	2016	80	BMBT	[redacted]	[redacted]	=H61*LOOKUP(P61,'Diversion Efficiency'!$C$9:$D$12)	=IF(I61="EfW",0,$L61*LOOKUP(P61,'Diversion Efficiency'!$C$9:$E$12))	=L61*Inputs!$E$24	=IF(I61="EfW",N61,(N61-M61*Inputs!$E$24))*VLOOKUP(P61,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C61),RiskCorrmat(corr,43))	=IF(P61<-K61,0,1)	=Q61*O61	=R61*Inputs!$E$46	[redacted]
North London Waste Authority (NLWA)	PPP	In-procurement	01-Apr-2002	2017	604	BMBT	[redacted]	[redacted]	=H62*LOOKUP(P62,'Diversion Efficiency'!$C$9:$D$12)	=IF(I62="EfW",0,$L62*LOOKUP(P62,'Diversion Efficiency'!$C$9:$E$12))	=L62*Inputs!$E$24	=IF(I62="EfW",N62,(N62-M62*Inputs!$E$24))*VLOOKUP(P62,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C62),RiskCorrmat(corr,44))	=IF(P62<-K62,0,1)	=Q62*O62	=R62*Inputs!$E$46	[redacted]
South London Waste Partnership (SLWP)	PPP	Financial Close	01-Jun-2006	2017	274	EfW	[redacted]	[redacted]	=H63*LOOKUP(P63,'Diversion Efficiency'!$C$9:$D$12)	=IF(I63="EfW",0,$L63*LOOKUP(P63,'Diversion Efficiency'!$C$9:$E$12))	=L63*Inputs!$E$24	=IF(I63="EfW",N63,(N63-M63*Inputs!$E$24))*VLOOKUP(P63,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C63),RiskCorrmat(corr,45))	=IF(P63<-K63,0,1)	=Q63*O63	=R63*Inputs!$E$46	[redacted]
Gloucestershire County Council Residual Waste	PPP	In-procurement	29-Jun-2007	2016	175	EfW	[redacted]	[redacted]	=H64*LOOKUP(P64,'Diversion Efficiency'!$C$9:$D$12)	=IF(I64="EfW",0,$L64*LOOKUP(P64,'Diversion Efficiency'!$C$9:$E$12))	=L64*Inputs!$E$24	=IF(I64="EfW",N64,(N64-M64*Inputs!$E$24))*VLOOKUP(P64,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C64),RiskCorrmat(corr,46))	=IF(P64<-K64,0,1)	=Q64*O64	=R64*Inputs!$E$46	[redacted]
Central Bedfordshire Waste	PPP	In-procurement	01-May-2008	2019	75	EfW	[redacted]	[redacted]	=H65*LOOKUP(P65,'Diversion Efficiency'!$C$9:$D$12)	=IF(I65="EfW",0,$L65*LOOKUP(P65,'Diversion Efficiency'!$C$9:$E$12))	=L65*Inputs!$E$24	=IF(I65="EfW",N65,(N65-M65*Inputs!$E$24))*VLOOKUP(P65,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C65),RiskCorrmat(corr,47))	=IF(P65<-K65,0,1)	=Q65*O65	=R65*Inputs!$E$46	[redacted]
Blackburn with Darwen	PPP	In-procurement		2020	80	EfW	[redacted]	[redacted]	=H66*LOOKUP(P66,'Diversion Efficiency'!$C$9:$D$12)	=IF(I66="EfW",0,$L66*LOOKUP(P66,'Diversion Efficiency'!$C$9:$E$12))	=L66*Inputs!$E$24	=IF(I66="EfW",N66,(N66-M66*Inputs!$E$24))*VLOOKUP(P66,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C66),RiskCorrmat(corr,48))	=IF(P66<-K66,0,1)	=Q66*O66	=R66*Inputs!$E$46	[redacted]
Kirklees Waste Management Project	PFI	Operational	01-Jun-2009	2010	113	EfW	[redacted]	[redacted]	=H67*LOOKUP(P67,'Diversion Efficiency'!$C$9:$D$12)	=IF(I67="EfW",0,$L67*LOOKUP(P67,'Diversion Efficiency'!$C$9:$E$12))	=L67*Inputs!$E$24	=IF(I67="EfW",N67,(N67-M67*Inputs!$E$24))*VLOOKUP(P67,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C67),RiskCorrmat(corr,49))	=IF(P67<-K67,0,1)	=Q67*O67	=R67*Inputs!$E$46	[redacted]
Leicester City Council Integrated Waste Management Project	PFI	Operational	01-Jan-2011 01-Jan-2011	2010	175	LFMBT	[redacted]	[redacted]	=H68*LOOKUP(P68,'Diversion Efficiency'!$C$9:$D$12)	=IF(I68="EfW",0,$L68*LOOKUP(P68,'Diversion Efficiency'!$C$9:$E$12))	=L68*Inputs!$E$24	=IF(I68="EfW",N68,(N68-M68*Inputs!$E$24))*VLOOKUP(P68,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C68),RiskCorrmat(corr,50))	=IF(P68<-K68,0,1)	=Q68*O68	=R68*Inputs!$E$46	[redacted]
East London Waste Authority Integrated waste Management (ELWA) 1	PFI	Operational	01-Feb-2012	2010	180	BMBT	[redacted]	[redacted]	=H69*LOOKUP(P69,'Diversion Efficiency'!$C$9:$D$12)	=IF(I69="EfW",0,$L69*LOOKUP(P69,'Diversion Efficiency'!$C$9:$E$12))	=L69*Inputs!$E$24	=IF(I69="EfW",N69,(N69-M69*Inputs!$E$24))*VLOOKUP(P69,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C69),RiskCorrmat(corr,51))	=IF(P69<-K69,0,1)	=Q69*O69	=R69*Inputs!$E$46	[redacted]
Isle of Wight Waste Management Project	PFI	Operational		2010	80	BMBT	[redacted]	[redacted]	=H70*LOOKUP(P70,'Diversion Efficiency'!$C$9:$D$12)	=IF(I70="EfW",0,$L70*LOOKUP(P70,'Diversion Efficiency'!$C$9:$E$12))	=L70*Inputs!$E$24	=IF(I70="EfW",N70,(N70-M70*Inputs!$E$24))*VLOOKUP(P70,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C70),RiskCorrmat(corr,52))	=IF(P70<-K70,0,1)	=Q70*O70	=R70*Inputs!$E$46	[redacted]
Northumberland Waste Management Project	PFI	Operational	03-Mar-2012	2010		EfW	[redacted]	[redacted]	=H71*LOOKUP(P71,'Diversion Efficiency'!$C$9:$D$12)	=IF(I71="EfW",0,$L71*LOOKUP(P71,'Diversion Efficiency'!$C$9:$E$12))	=L71*Inputs!$E$24	=IF(I71="EfW",N71,(N71-M71*Inputs!$E$24))*VLOOKUP(P71,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C71),RiskCorrmat(corr,53))	=IF(P71<-K71,0,1)	=Q71*O71	=R71*Inputs!$E$46	[redacted]
Lancashire Waste Partnership - 1	PFI	Operational	01-Aug-2012	2011	175	LFMBT	[redacted]	[redacted]	=H72*LOOKUP(P72,'Diversion Efficiency'!$C$9:$D$12)	=IF(I72="EfW",0,$L72*LOOKUP(P72,'Diversion Efficiency'!$C$9:$E$12))	=L72*Inputs!$E$24	=IF(I72="EfW",N72,(N72-M72*Inputs!$E$24))*VLOOKUP(P72,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C72),RiskCorrmat(corr,54))	=IF(P72<-K72,0,1)	=Q72*O72	=R72*Inputs!$E$46	[redacted]
Lancashire Waste Partnership -2	PFI	Operational	01-Mar-2013	2011	175	LFMBT	[redacted]	[redacted]	=H73*LOOKUP(P73,'Diversion Efficiency'!$C$9:$D$12)	=IF(I73="EfW",0,$L73*LOOKUP(P73,'Diversion Efficiency'!$C$9:$E$12))	=L73*Inputs!$E$24	=IF(I73="EfW",N73,(N73-M73*Inputs!$E$24))*VLOOKUP(P73,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C73),RiskCorrmat(corr,55))	=IF(P73<-K73,0,1)	=Q73*O73	=R73*Inputs!$E$46	[redacted]
East Sussex County Council and Brighton & Hove City Council - New waste partnerships	PFI	Operational	16-Dec-2013 01-Mar-2014	2012	210	EfW	[redacted]	[redacted]	=H74*LOOKUP(P74,'Diversion Efficiency'!$C$9:$D$12)	=IF(I74="EfW",0,$L74*LOOKUP(P74,'Diversion Efficiency'!$C$9:$E$12))	=L74*Inputs!$E$24	=IF(I74="EfW",N74,(N74-M74*Inputs!$E$24))*VLOOKUP(P74,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C74),RiskCorrmat(corr,56))	=IF(P74<-K74,0,1)	=Q74*O74	=R74*Inputs!$E$46	[redacted]
London Borough of Southwark Integrated Waste Management Solutions Project	PFI	Operational		2012	100	BMBT	[redacted]	[redacted]	=H75*LOOKUP(P75,'Diversion Efficiency'!$C$9:$D$12)	=IF(I75="EfW",0,$L75*LOOKUP(P75,'Diversion Efficiency'!$C$9:$E$12))	=L75*Inputs!$E$24	=IF(I75="EfW",N75,(N75-M75*Inputs!$E$24))*VLOOKUP(P75,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C75),RiskCorrmat(corr,57))	=IF(P75<-K75,0,1)	=Q75*O75	=R75*Inputs!$E$46	[redacted]
Cambridgeshire County Council Waste Management Project	PFI	Operational	01-Nov-2014	2013	110	LFMBT	[redacted]	[redacted]	=H76*LOOKUP(P76,'Diversion Efficiency'!$C$9:$D$12)	=IF(I76="EfW",0,$L76*LOOKUP(P76,'Diversion Efficiency'!$C$9:$E$12))	=L76*Inputs!$E$24	=IF(I76="EfW",N76,(N76-M76*Inputs!$E$24))*VLOOKUP(P76,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C76),RiskCorrmat(corr,58))	=IF(P76<-K76,0,1)	=Q76*O76	=R76*Inputs!$E$46	[redacted]
Greater Manchester WDA - Manchester Waste	PFI	In-Construction	01-Dec-2014 01-Feb-2015	2013	280	EfW	[redacted]	[redacted]	=H77*LOOKUP(P77,'Diversion Efficiency'!$C$9:$D$12)	=IF(I77="EfW",0,$L77*LOOKUP(P77,'Diversion Efficiency'!$C$9:$E$12))	=L77*Inputs!$E$24	=IF(I77="EfW",N77,(N77-M77*Inputs!$E$24))*VLOOKUP(P77,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C77),RiskCorrmat(corr,59))	=IF(P77<-K77,0,1)	=Q77*O77	=R77*Inputs!$E$46	[redacted]
Staffordshire Waste Management Project	PFI	In-Construction	27-Feb-2015	2014	300	EfW	[redacted]	[redacted]	=H78*LOOKUP(P78,'Diversion Efficiency'!$C$9:$D$12)	=IF(I78="EfW",0,$L78*LOOKUP(P78,'Diversion Efficiency'!$C$9:$E$12))	=L78*Inputs!$E$24	=IF(I78="EfW",N78,(N78-M78*Inputs!$E$24))*VLOOKUP(P78,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C78),RiskCorrmat(corr,60))	=IF(P78<-K78,0,1)	=Q78*O78	=R78*Inputs!$E$46	[redacted]
South Tyne and Wear Waste Management Partnership (STWP)	PFI	In-Construction	01-Jun-2015 03-Jul-2015	2014	256	EfW	[redacted]	[redacted]	=H79*LOOKUP(P79,'Diversion Efficiency'!$C$9:$D$12)	=IF(I79="EfW",0,$L79*LOOKUP(P79,'Diversion Efficiency'!$C$9:$E$12))	=L79*Inputs!$E$24	=IF(I79="EfW",N79,(N79-M79*Inputs!$E$24))*VLOOKUP(P79,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C79),RiskCorrmat(corr,61))	=IF(P79<-K79,0,1)	=Q79*O79	=R79*Inputs!$E$46	[redacted]
South West Devon Waste Partnership (SWDWP) Waste Management Project	PFI	In-Construction	31-Aug-2015	2015	245	EfW	[redacted]	[redacted]	=H80*LOOKUP(P80,'Diversion Efficiency'!$C$9:$D$12)	=IF(I80="EfW",0,$L80*LOOKUP(P80,'Diversion Efficiency'!$C$9:$E$12))	=L80*Inputs!$E$24	=IF(I80="EfW",N80,(N80-M80*Inputs!$E$24))*VLOOKUP(P80,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C80),RiskCorrmat(corr,62))	=IF(P80<-K80,0,1)	=Q80*O80	=R80*Inputs!$E$46	[redacted]
Suffolk Waste Management Project	PFI	In-Construction	31-Mar-2016	2015	269	EfW	[redacted]	[redacted]	=H81*LOOKUP(P81,'Diversion Efficiency'!$C$9:$D$12)	=IF(I81="EfW",0,$L81*LOOKUP(P81,'Diversion Efficiency'!$C$9:$E$12))	=L81*Inputs!$E$24	=IF(I81="EfW",N81,(N81-M81*Inputs!$E$24))*VLOOKUP(P81,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C81),RiskCorrmat(corr,63))	=IF(P81<-K81,0,1)	=Q81*O81	=R81*Inputs!$E$46	[redacted]
Norfolk Waste Management Project	PFI	Financial Close	01-Jul-2015	2015	268	EfW	[redacted]	[redacted]	=H82*LOOKUP(P82,'Diversion Efficiency'!$C$9:$D$12)	=IF(I82="EfW",0,$L82*LOOKUP(P82,'Diversion Efficiency'!$C$9:$E$12))	=L82*Inputs!$E$24	=IF(I82="EfW",N82,(N82-M82*Inputs!$E$24))*VLOOKUP(P82,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C82),RiskCorrmat(corr,64))	=IF(P82<-K82,0,1)	=Q82*O82	=R82*Inputs!$E$46	[redacted]
Wakefield Semi Integrated Waste Management	PFI	In-procurement	01-Jul-2016	2015	175	BMBT	[redacted]	[redacted]	=H83*LOOKUP(P83,'Diversion Efficiency'!$C$9:$D$12)	=IF(I83="EfW",0,$L83*LOOKUP(P83,'Diversion Efficiency'!$C$9:$E$12))	=L83*Inputs!$E$24	=IF(I83="EfW",N83,(N83-M83*Inputs!$E$24))*VLOOKUP(P83,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C83),RiskCorrmat(corr,65))	=IF(P83<-K83,0,1)	=Q83*O83	=R83*Inputs!$E$46	[redacted]
Shropshire Integrated Waste Partnership Contract	PFI	In-Construction	01-Jul-2016	2016	90	EfW	[redacted]	[redacted]	=H84*LOOKUP(P84,'Diversion Efficiency'!$C$9:$D$12)	=IF(I84="EfW",0,$L84*LOOKUP(P84,'Diversion Efficiency'!$C$9:$E$12))	=L84*Inputs!$E$24	=IF(I84="EfW",N84,(N84-M84*Inputs!$E$24))*VLOOKUP(P84,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C84),RiskCorrmat(corr,66))	=IF(P84<-K84,0,1)	=Q84*O84	=R84*Inputs!$E$46	[redacted]
Essex County Council and Southend on Sea	PFI	Financial Close		2016	420	LFMBT	[redacted]	[redacted]	=H85*LOOKUP(P85,'Diversion Efficiency'!$C$9:$D$12)	=IF(I85="EfW",0,$L85*LOOKUP(P85,'Diversion Efficiency'!$C$9:$E$12))	=L85*Inputs!$E$24	=IF(I85="EfW",N85,(N85-M85*Inputs!$E$24))*VLOOKUP(P85,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C85),RiskCorrmat(corr,67))	=IF(P85<-K85,0,1)	=Q85*O85	=R85*Inputs!$E$46	[redacted]
Nottinghamshire Sustainable Waste Solutions	PFI	Financial Close	01-Jul-2016 01-Jun-2016	2016	180	EfW	[redacted]	[redacted]	=H86*LOOKUP(P86,'Diversion Efficiency'!$C$9:$D$12)	=IF(I86="EfW",0,$L86*LOOKUP(P86,'Diversion Efficiency'!$C$9:$E$12))	=L86*Inputs!$E$24	=IF(I86="EfW",N86,(N86-M86*Inputs!$E$24))*VLOOKUP(P86,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C86),RiskCorrmat(corr,68))	=IF(P86<-K86,0,1)	=Q86*O86	=R86*Inputs!$E$46	[redacted]
Hertfordshire County Council Waste Management Project	PFI	Financial Close	01-Apr-2016	2016	388	EfW	[redacted]	[redacted]	=H87*LOOKUP(P87,'Diversion Efficiency'!$C$9:$D$12)	=IF(I87="EfW",0,$L87*LOOKUP(P87,'Diversion Efficiency'!$C$9:$E$12))	=L87*Inputs!$E$24	=IF(I87="EfW",N87,(N87-M87*Inputs!$E$24))*VLOOKUP(P87,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C87),RiskCorrmat(corr,69))	=IF(P87<-K87,0,1)	=Q87*O87	=R87*Inputs!$E$46	[redacted]
South Yorkshire waste (BDR)	PFI	Financial Close	01-Jul-2016	2016	250	BMBT	[redacted]	[redacted]	=H88*LOOKUP(P88,'Diversion Efficiency'!$C$9:$D$12)	=IF(I88="EfW",0,$L88*LOOKUP(P88,'Diversion Efficiency'!$C$9:$E$12))	=L88*Inputs!$E$24	=IF(I88="EfW",N88,(N88-M88*Inputs!$E$24))*VLOOKUP(P88,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C88),RiskCorrmat(corr,70))	=IF(P88<-K88,0,1)	=Q88*O88	=R88*Inputs!$E$46	[redacted]
Cornwall Council Semi-Integrated Waste Management Project	PFI	In-procurement	01-Mar-2017	2017	240	EfW	[redacted]	[redacted]	=H89*LOOKUP(P89,'Diversion Efficiency'!$C$9:$D$12)	=IF(I89="EfW",0,$L89*LOOKUP(P89,'Diversion Efficiency'!$C$9:$E$12))	=L89*Inputs!$E$24	=IF(I89="EfW",N89,(N89-M89*Inputs!$E$24))*VLOOKUP(P89,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C89),RiskCorrmat(corr,71))	=IF(P89<-K89,0,1)	=Q89*O89	=R89*Inputs!$E$46	[redacted]
Herefordshire and Worcestershire Waste Management Project	PFI	In-procurement	01-Apr-2011 01-Jan-2013 01-Jun-2013	2017	200	EfW	[redacted]	[redacted]	=H90*LOOKUP(P90,'Diversion Efficiency'!$C$9:$D$12)	=IF(I90="EfW",0,$L90*LOOKUP(P90,'Diversion Efficiency'!$C$9:$E$12))	=L90*Inputs!$E$24	=IF(I90="EfW",N90,(N90-M90*Inputs!$E$24))*VLOOKUP(P90,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C90),RiskCorrmat(corr,72))	=IF(P90<-K90,0,1)	=Q90*O90	=R90*Inputs!$E$46	[redacted]
Surrey "Quest" waste Disposal Project	PFI	In-procurement	01-Jan-2014	2017	80	EfW	[redacted]	[redacted]	=H91*LOOKUP(P91,'Diversion Efficiency'!$C$9:$D$12)	=IF(I91="EfW",0,$L91*LOOKUP(P91,'Diversion Efficiency'!$C$9:$E$12))	=L91*Inputs!$E$24	=IF(I91="EfW",N91,(N91-M91*Inputs!$E$24))*VLOOKUP(P91,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C91),RiskCorrmat(corr,73))	=IF(P91<-K91,0,1)	=Q91*O91	=R91*Inputs!$E$46	[redacted]
Merseyside Waste Management Project (MWDA)	PFI	In-procurement	01-Jan-2014	2017	450	EfW	[redacted]	[redacted]	=H92*LOOKUP(P92,'Diversion Efficiency'!$C$9:$D$12)	=IF(I92="EfW",0,$L92*LOOKUP(P92,'Diversion Efficiency'!$C$9:$E$12))	=L92*Inputs!$E$24	=IF(I92="EfW",N92,(N92-M92*Inputs!$E$24))*VLOOKUP(P92,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C92),RiskCorrmat(corr,74))	=IF(P92<-K92,0,1)	=Q92*O92	=R92*Inputs!$E$46	[redacted]
Bradford Waste Treatment Services Project	PFI	In-procurement	01-Mar-2014 01-Jan-2015	2017	193	EfW	[redacted]	[redacted]	=H93*LOOKUP(P93,'Diversion Efficiency'!$C$9:$D$12)	=IF(I93="EfW",0,$L93*LOOKUP(P93,'Diversion Efficiency'!$C$9:$E$12))	=L93*Inputs!$E$24	=IF(I93="EfW",N93,(N93-M93*Inputs!$E$24))*VLOOKUP(P93,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C93),RiskCorrmat(corr,75))	=IF(P93<-K93,0,1)	=Q93*O93	=R93*Inputs!$E$46	[redacted]
Leeds Residual waste Treatment Project	PFI	Financial Close	01-Jul-2016	2017	165	EfW	[redacted]	[redacted]	=H94*LOOKUP(P94,'Diversion Efficiency'!$C$9:$D$12)	=IF(I94="EfW",0,$L94*LOOKUP(P94,'Diversion Efficiency'!$C$9:$E$12))	=L94*Inputs!$E$24	=IF(I94="EfW",N94,(N94-M94*Inputs!$E$24))*VLOOKUP(P94,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C94),RiskCorrmat(corr,76))	=IF(P94<-K94,0,1)	=Q94*O94	=R94*Inputs!$E$46	[redacted]
North Yorkshire Council and City of York Waste Management Project	PFI	In-procurement	31-Dec-2016	2017	300	EfW	[redacted]	[redacted]	=H95*LOOKUP(P95,'Diversion Efficiency'!$C$9:$D$12)	=IF(I95="EfW",0,$L95*LOOKUP(P95,'Diversion Efficiency'!$C$9:$E$12))	=L95*Inputs!$E$24	=IF(I95="EfW",N95,(N95-M95*Inputs!$E$24))*VLOOKUP(P95,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C95),RiskCorrmat(corr,77))	=IF(P95<-K95,0,1)	=Q95*O95	=R95*Inputs!$E$46	[redacted]
New Earth Solutions Waste Management Project - gloucs	M	Operational	01-Dec-2018	2012	120	BMBT	[redacted]	[redacted]	=H96*LOOKUP(P96,'Diversion Efficiency'!$C$9:$D$12)	=IF(I96="EfW",0,$L96*LOOKUP(P96,'Diversion Efficiency'!$C$9:$E$12))	=L96*Inputs!$E$24	=IF(I96="EfW",N96,(N96-M96*Inputs!$E$24))*VLOOKUP(P96,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C96),RiskCorrmat(corr,78))	=IF(P96<-K96,0,1)	=Q96*O96	=R96*Inputs!$E$46	[redacted]
Merseyside	M	TBC	01-Dec-2018	2013	80	EfW	[redacted]	[redacted]	=H97*LOOKUP(P97,'Diversion Efficiency'!$C$9:$D$12)	=IF(I97="EfW",0,$L97*LOOKUP(P97,'Diversion Efficiency'!$C$9:$E$12))	=L97*Inputs!$E$24	=IF(I97="EfW",N97,(N97-M97*Inputs!$E$24))*VLOOKUP(P97,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C97),RiskCorrmat(corr,79))	=IF(P97<-K97,0,1)	=Q97*O97	=R97*Inputs!$E$46	[redacted]
Dorset - Dorset Green (Avonmouth)	M	TBC	01-Dec-2018	2014	42	LFMBT	[redacted]	[redacted]	=H98*LOOKUP(P98,'Diversion Efficiency'!$C$9:$D$12)	=IF(I98="EfW",0,$L98*LOOKUP(P98,'Diversion Efficiency'!$C$9:$E$12))	=L98*Inputs!$E$24	=IF(I98="EfW",N98,(N98-M98*Inputs!$E$24))*VLOOKUP(P98,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C98),RiskCorrmat(corr,80))	=IF(P98<-K98,0,1)	=Q98*O98	=R98*Inputs!$E$46	[redacted]
Peterborough City Council	M	In-procurement	01-Dec-2018	2014	65	EfW	[redacted]	[redacted]	=H99*LOOKUP(P99,'Diversion Efficiency'!$C$9:$D$12)	=IF(I99="EfW",0,$L99*LOOKUP(P99,'Diversion Efficiency'!$C$9:$E$12))	=L99*Inputs!$E$24	=IF(I99="EfW",N99,(N99-M99*Inputs!$E$24))*VLOOKUP(P99,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C99),RiskCorrmat(corr,81))	=IF(P99<-K99,0,1)	=Q99*O99	=R99*Inputs!$E$46	[redacted]
Peterborough City Council	M	In-Construction	01-Dec-2018	2014	200	EfW	[redacted]	[redacted]	=H100*LOOKUP(P100,'Diversion Efficiency'!$C$9:$D$12)	=IF(I100="EfW",0,$L100*LOOKUP(P100,'Diversion Efficiency'!$C$9:$E$12))	=L100*Inputs!$E$24	=IF(I100="EfW",N100,(N100-M100*Inputs!$E$24))*VLOOKUP(P100,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C100),RiskCorrmat(corr,82))	=IF(P100<-K100,0,1)	=Q100*O100	=R100*Inputs!$E$46	[redacted]
West of England - Avonmouth	M	In-Construction	01-Dec-2018	2014	80	EfW	[redacted]	[redacted]	=H101*LOOKUP(P101,'Diversion Efficiency'!$C$9:$D$12)	=IF(I101="EfW",0,$L101*LOOKUP(P101,'Diversion Efficiency'!$C$9:$E$12))	=L101*Inputs!$E$24	=IF(I101="EfW",N101,(N101-M101*Inputs!$E$24))*VLOOKUP(P101,'Diversion Efficiency'!$C$9:$F$12,4)	=RiskUniform(-1,0,RiskName(C101),RiskCorrmat(corr,83))	=IF(P101<-K101,0,1)	=Q101*O101	=R101*Inputs!$E$46	[redacted]
Leeds - Former Skelton Grange Power Station	M	TBC	01-Dec-2018 01-Dec-2018	2015	300	EfW	[redacted]	[redacted]	=H102*LOOKUP(P102,'Diversion Efficiency'!$C$9:$D$12)	=IF(I102="EfW",0,$L102*LOOKUP(P102,'Diversion Efficiency'!$C$9:$E$12))	=L102*Inputs!$E$24	=IF(I102="EfW",N102,(N102-M102*Inputs!$E$24))*VLOOKUP(P102,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C102),RiskCorrmat(corr,84))	=IF(P102<-K102,0,1)	=Q102*O102	=R102*Inputs!$E$46	[redacted]
London Sustainable Industries Park	M	TBC	01-Dec-2018	2017	120	EfW	[redacted]	[redacted]	=H103*LOOKUP(P103,'Diversion Efficiency'!$C$9:$D$12)	=IF(I103="EfW",0,$L103*LOOKUP(P103,'Diversion Efficiency'!$C$9:$E$12))	=L103*Inputs!$E$24	=IF(I103="EfW",N103,(N103-M103*Inputs!$E$24))*VLOOKUP(P103,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C103),RiskCorrmat(corr,85))	=IF(P103<-K103,0,1)	=Q103*O103	=R103*Inputs!$E$46	[redacted]
Kent	M	TBC	01-Dec-2018	2017	550	EfW	[redacted]	[redacted]	=H104*LOOKUP(P104,'Diversion Efficiency'!$C$9:$D$12)	=IF(I104="EfW",0,$L104*LOOKUP(P104,'Diversion Efficiency'!$C$9:$E$12))	=L104*Inputs!$E$24	=IF(I104="EfW",N104,(N104-M104*Inputs!$E$24))*VLOOKUP(P104,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C104),RiskCorrmat(corr,86))	=IF(P104<-K104,0,1)	=Q104*O104	=R104*Inputs!$E$46	[redacted]
Avonmouth North - Viridor	M	TBC	01-Dec-2018	2019	350	EfW	[redacted]	[redacted]	=H105*LOOKUP(P105,'Diversion Efficiency'!$C$9:$D$12)	=IF(I105="EfW",0,$L105*LOOKUP(P105,'Diversion Efficiency'!$C$9:$E$12))	=L105*Inputs!$E$24	=IF(I105="EfW",N105,(N105-M105*Inputs!$E$24))*VLOOKUP(P105,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C105),RiskCorrmat(corr,87))	=IF(P105<-K105,0,1)	=Q105*O105	=R105*Inputs!$E$46	[redacted]
Avonmouth South	M	TBC	01-Dec-2018	2019	75	EfW	[redacted]	[redacted]	=H106*LOOKUP(P106,'Diversion Efficiency'!$C$9:$D$12)	=IF(I106="EfW",0,$L106*LOOKUP(P106,'Diversion Efficiency'!$C$9:$E$12))	=L106*Inputs!$E$24	=IF(I106="EfW",N106,(N106-M106*Inputs!$E$24))*VLOOKUP(P106,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C106),RiskCorrmat(corr,88))	=IF(P106<-K106,0,1)	=Q106*O106	=R106*Inputs!$E$46	[redacted]
Avonmouth South	M	TBC	01-Dec-2018	2019	70	EfW	[redacted]	[redacted]	=H107*LOOKUP(P107,'Diversion Efficiency'!$C$9:$D$12)	=IF(I107="EfW",0,$L107*LOOKUP(P107,'Diversion Efficiency'!$C$9:$E$12))	=L107*Inputs!$E$24	=IF(I107="EfW",N107,(N107-M107*Inputs!$E$24))*VLOOKUP(P107,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C107),RiskCorrmat(corr,89))	=IF(P107<-K107,0,1)	=Q107*O107	=R107*Inputs!$E$46	[redacted]
Birmingham - Tyseley Extension waste Project	M	TBC	01-Dec-2018 01-Dec-2018	2019	400	EfW	[redacted]	[redacted]	=H108*LOOKUP(P108,'Diversion Efficiency'!$C$9:$D$12)	=IF(I108="EfW",0,$L108*LOOKUP(P108,'Diversion Efficiency'!$C$9:$E$12))	=L108*Inputs!$E$24	=IF(I108="EfW",N108,(N108-M108*Inputs!$E$24))*VLOOKUP(P108,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C108),RiskCorrmat(corr,90))	=IF(P108<-K108,0,1)	=Q108*O108	=R108*Inputs!$E$46	[redacted]
Bradford	M	TBC	01-Dec-2018	2019	180	EfW	[redacted]	[redacted]	=H109*LOOKUP(P109,'Diversion Efficiency'!$C$9:$D$12)	=IF(I109="EfW",0,$L109*LOOKUP(P109,'Diversion Efficiency'!$C$9:$E$12))	=L109*Inputs!$E$24	=IF(I109="EfW",N109,(N109-M109*Inputs!$E$24))*VLOOKUP(P109,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C109),RiskCorrmat(corr,91))	=IF(P109<-K109,0,1)	=Q109*O109	=R109*Inputs!$E$46	[redacted]
Bradford	M	TBC	01-Dec-2018	2019	0	EfW	[redacted]	[redacted]	=H110*LOOKUP(P110,'Diversion Efficiency'!$C$9:$D$12)	=IF(I110="EfW",0,$L110*LOOKUP(P110,'Diversion Efficiency'!$C$9:$E$12))	=L110*Inputs!$E$24	=IF(I110="EfW",N110,(N110-M110*Inputs!$E$24))*VLOOKUP(P110,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C110),RiskCorrmat(corr,92))	=IF(P110<-K110,0,1)	=Q110*O110	=R110*Inputs!$E$46	[redacted]
Cheshire Energy from Waste	M	TBC	01-Dec-2018	2019	0	EfW	[redacted]	[redacted]	=H111*LOOKUP(P111,'Diversion Efficiency'!$C$9:$D$12)	=IF(I111="EfW",0,$L111*LOOKUP(P111,'Diversion Efficiency'!$C$9:$E$12))	=L111*Inputs!$E$24	=IF(I111="EfW",N111,(N111-M111*Inputs!$E$24))*VLOOKUP(P111,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C111),RiskCorrmat(corr,93))	=IF(P111<-K111,0,1)	=Q111*O111	=R111*Inputs!$E$46	[redacted]
Covanta Energy Cheshire - Middlewich	M	TBC	01-Dec-2018	2019	370	EfW	[redacted]	[redacted]	=H112*LOOKUP(P112,'Diversion Efficiency'!$C$9:$D$12)	=IF(I112="EfW",0,$L112*LOOKUP(P112,'Diversion Efficiency'!$C$9:$E$12))	=L112*Inputs!$E$24	=IF(I112="EfW",N112,(N112-M112*Inputs!$E$24))*VLOOKUP(P112,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C112),RiskCorrmat(corr,94))	=IF(P112<-K112,0,1)	=Q112*O112	=R112*Inputs!$E$46	[redacted]
Cheshire Waste Management Project	M	TBC	01-Dec-2018	2019	180	BMBT	[redacted]	[redacted]	=H113*LOOKUP(P113,'Diversion Efficiency'!$C$9:$D$12)	=IF(I113="EfW",0,$L113*LOOKUP(P113,'Diversion Efficiency'!$C$9:$E$12))	=L113*Inputs!$E$24	=IF(I113="EfW",N113,(N113-M113*Inputs!$E$24))*VLOOKUP(P113,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C113),RiskCorrmat(corr,95))	=IF(P113<-K113,0,1)	=Q113*O113	=R113*Inputs!$E$46	[redacted]
Darlington	M	TBC	01-Dec-2018	2019	50	BMBT	[redacted]	[redacted]	=H114*LOOKUP(P114,'Diversion Efficiency'!$C$9:$D$12)	=IF(I114="EfW",0,$L114*LOOKUP(P114,'Diversion Efficiency'!$C$9:$E$12))	=L114*Inputs!$E$24	=IF(I114="EfW",N114,(N114-M114*Inputs!$E$24))*VLOOKUP(P114,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C114),RiskCorrmat(corr,96))	=IF(P114<-K114,0,1)	=Q114*O114	=R114*Inputs!$E$46	[redacted]
Derby City	M	TBC	01-Dec-2018	2019	100	EfW	[redacted]	[redacted]	=H115*LOOKUP(P115,'Diversion Efficiency'!$C$9:$D$12)	=IF(I115="EfW",0,$L115*LOOKUP(P115,'Diversion Efficiency'!$C$9:$E$12))	=L115*Inputs!$E$24	=IF(I115="EfW",N115,(N115-M115*Inputs!$E$24))*VLOOKUP(P115,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C115),RiskCorrmat(corr,97))	=IF(P115<-K115,0,1)	=Q115*O115	=R115*Inputs!$E$46	[redacted]
Derbyshire - Dunston Road	M	TBC	01-Dec-2018	2019	75	EfW	[redacted]	[redacted]	=H116*LOOKUP(P116,'Diversion Efficiency'!$C$9:$D$12)	=IF(I116="EfW",0,$L116*LOOKUP(P116,'Diversion Efficiency'!$C$9:$E$12))	=L116*Inputs!$E$24	=IF(I116="EfW",N116,(N116-M116*Inputs!$E$24))*VLOOKUP(P116,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C116),RiskCorrmat(corr,98))	=IF(P116<-K116,0,1)	=Q116*O116	=R116*Inputs!$E$46	[redacted]
Devon - Hill Barton	M	TBC	01-Dec-2018	2019	72	EfW	[redacted]	[redacted]	=H117*LOOKUP(P117,'Diversion Efficiency'!$C$9:$D$12)	=IF(I117="EfW",0,$L117*LOOKUP(P117,'Diversion Efficiency'!$C$9:$E$12))	=L117*Inputs!$E$24	=IF(I117="EfW",N117,(N117-M117*Inputs!$E$24))*VLOOKUP(P117,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C117),RiskCorrmat(corr,99))	=IF(P117<-K117,0,1)	=Q117*O117	=R117*Inputs!$E$46	[redacted]
Devon	M	TBC	01-Dec-2018	2019	273	EfW	[redacted]	[redacted]	=H118*LOOKUP(P118,'Diversion Efficiency'!$C$9:$D$12)	=IF(I118="EfW",0,$L118*LOOKUP(P118,'Diversion Efficiency'!$C$9:$E$12))	=L118*Inputs!$E$24	=IF(I118="EfW",N118,(N118-M118*Inputs!$E$24))*VLOOKUP(P118,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C118),RiskCorrmat(corr,100))	=IF(P118<-K118,0,1)	=Q118*O118	=R118*Inputs!$E$46	[redacted]
Doncaster	M	TBC	01-Dec-2018	2019	120	EfW	[redacted]	[redacted]	=H119*LOOKUP(P119,'Diversion Efficiency'!$C$9:$D$12)	=IF(I119="EfW",0,$L119*LOOKUP(P119,'Diversion Efficiency'!$C$9:$E$12))	=L119*Inputs!$E$24	=IF(I119="EfW",N119,(N119-M119*Inputs!$E$24))*VLOOKUP(P119,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C119),RiskCorrmat(corr,101))	=IF(P119<-K119,0,1)	=Q119*O119	=R119*Inputs!$E$46	[redacted]
Durham - PARC	M	TBC	01-Dec-2018	2019	62	EfW	[redacted]	[redacted]	=H120*LOOKUP(P120,'Diversion Efficiency'!$C$9:$D$12)	=IF(I120="EfW",0,$L120*LOOKUP(P120,'Diversion Efficiency'!$C$9:$E$12))	=L120*Inputs!$E$24	=IF(I120="EfW",N120,(N120-M120*Inputs!$E$24))*VLOOKUP(P120,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C120),RiskCorrmat(corr,102))	=IF(P120<-K120,0,1)	=Q120*O120	=R120*Inputs!$E$46	[redacted]
East London	M	TBC	01-Dec-2018	2019	500	EfW	[redacted]	[redacted]	=H121*LOOKUP(P121,'Diversion Efficiency'!$C$9:$D$12)	=IF(I121="EfW",0,$L121*LOOKUP(P121,'Diversion Efficiency'!$C$9:$E$12))	=L121*Inputs!$E$24	=IF(I121="EfW",N121,(N121-M121*Inputs!$E$24))*VLOOKUP(P121,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C121),RiskCorrmat(corr,103))	=IF(P121<-K121,0,1)	=Q121*O121	=R121*Inputs!$E$46	[redacted]
East London	M	TBC	01-Dec-2018	2019	100	EfW	[redacted]	[redacted]	=H122*LOOKUP(P122,'Diversion Efficiency'!$C$9:$D$12)	=IF(I122="EfW",0,$L122*LOOKUP(P122,'Diversion Efficiency'!$C$9:$E$12))	=L122*Inputs!$E$24	=IF(I122="EfW",N122,(N122-M122*Inputs!$E$24))*VLOOKUP(P122,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C122),RiskCorrmat(corr,104))	=IF(P122<-K122,0,1)	=Q122*O122	=R122*Inputs!$E$46	[redacted]
East Sussex Waste to Energy Project	M	TBC	01-Dec-2018	2019	95	EfW	[redacted]	[redacted]	=H123*LOOKUP(P123,'Diversion Efficiency'!$C$9:$D$12)	=IF(I123="EfW",0,$L123*LOOKUP(P123,'Diversion Efficiency'!$C$9:$E$12))	=L123*Inputs!$E$24	=IF(I123="EfW",N123,(N123-M123*Inputs!$E$24))*VLOOKUP(P123,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C123),RiskCorrmat(corr,105))	=IF(P123<-K123,0,1)	=Q123*O123	=R123*Inputs!$E$46	[redacted]
Essex	M	TBC	01-Dec-2018	2019	120	BMBT	[redacted]	[redacted]	=H124*LOOKUP(P124,'Diversion Efficiency'!$C$9:$D$12)	=IF(I124="EfW",0,$L124*LOOKUP(P124,'Diversion Efficiency'!$C$9:$E$12))	=L124*Inputs!$E$24	=IF(I124="EfW",N124,(N124-M124*Inputs!$E$24))*VLOOKUP(P124,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C124),RiskCorrmat(corr,106))	=IF(P124<-K124,0,1)	=Q124*O124	=R124*Inputs!$E$46	[redacted]
Essex	M	TBC	01-Dec-2018	2019	510	BMBT	[redacted]	[redacted]	=H125*LOOKUP(P125,'Diversion Efficiency'!$C$9:$D$12)	=IF(I125="EfW",0,$L125*LOOKUP(P125,'Diversion Efficiency'!$C$9:$E$12))	=L125*Inputs!$E$24	=IF(I125="EfW",N125,(N125-M125*Inputs!$E$24))*VLOOKUP(P125,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C125),RiskCorrmat(corr,107))	=IF(P125<-K125,0,1)	=Q125*O125	=R125*Inputs!$E$46	[redacted]
Essex	M	TBC	01-Dec-2018	2019	305	BMBT	[redacted]	[redacted]	=H126*LOOKUP(P126,'Diversion Efficiency'!$C$9:$D$12)	=IF(I126="EfW",0,$L126*LOOKUP(P126,'Diversion Efficiency'!$C$9:$E$12))	=L126*Inputs!$E$24	=IF(I126="EfW",N126,(N126-M126*Inputs!$E$24))*VLOOKUP(P126,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C126),RiskCorrmat(corr,108))	=IF(P126<-K126,0,1)	=Q126*O126	=R126*Inputs!$E$46	[redacted]
Gateshead	M	TBC	01-Dec-2018	2019	320	BMBT	[redacted]	[redacted]	=H127*LOOKUP(P127,'Diversion Efficiency'!$C$9:$D$12)	=IF(I127="EfW",0,$L127*LOOKUP(P127,'Diversion Efficiency'!$C$9:$E$12))	=L127*Inputs!$E$24	=IF(I127="EfW",N127,(N127-M127*Inputs!$E$24))*VLOOKUP(P127,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C127),RiskCorrmat(corr,109))	=IF(P127<-K127,0,1)	=Q127*O127	=R127*Inputs!$E$46	[redacted]
Gloucestershire - Moreton Valence	M	TBC	01-Dec-2018	2019	32	EfW	[redacted]	[redacted]	=H128*LOOKUP(P128,'Diversion Efficiency'!$C$9:$D$12)	=IF(I128="EfW",0,$L128*LOOKUP(P128,'Diversion Efficiency'!$C$9:$E$12))	=L128*Inputs!$E$24	=IF(I128="EfW",N128,(N128-M128*Inputs!$E$24))*VLOOKUP(P128,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C128),RiskCorrmat(corr,110))	=IF(P128<-K128,0,1)	=Q128*O128	=R128*Inputs!$E$46	[redacted]
South Gloucestershire	M	TBC	01-Dec-2018	2019	400	EfW	[redacted]	[redacted]	=H129*LOOKUP(P129,'Diversion Efficiency'!$C$9:$D$12)	=IF(I129="EfW",0,$L129*LOOKUP(P129,'Diversion Efficiency'!$C$9:$E$12))	=L129*Inputs!$E$24	=IF(I129="EfW",N129,(N129-M129*Inputs!$E$24))*VLOOKUP(P129,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C129),RiskCorrmat(corr,111))	=IF(P129<-K129,0,1)	=Q129*O129	=R129*Inputs!$E$46	[redacted]
Hertfordshire - Westmill	M	TBC	01-Dec-2018	2019	400	EfW	[redacted]	[redacted]	=H130*LOOKUP(P130,'Diversion Efficiency'!$C$9:$D$12)	=IF(I130="EfW",0,$L130*LOOKUP(P130,'Diversion Efficiency'!$C$9:$E$12))	=L130*Inputs!$E$24	=IF(I130="EfW",N130,(N130-M130*Inputs!$E$24))*VLOOKUP(P130,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C130),RiskCorrmat(corr,112))	=IF(P130<-K130,0,1)	=Q130*O130	=R130*Inputs!$E$46	[redacted]
Hertfordshire - Ratty's Lane	M	TBC	01-Dec-2018	2019	100	EfW	[redacted]	[redacted]	=H131*LOOKUP(P131,'Diversion Efficiency'!$C$9:$D$12)	=IF(I131="EfW",0,$L131*LOOKUP(P131,'Diversion Efficiency'!$C$9:$E$12))	=L131*Inputs!$E$24	=IF(I131="EfW",N131,(N131-M131*Inputs!$E$24))*VLOOKUP(P131,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C131),RiskCorrmat(corr,113))	=IF(P131<-K131,0,1)	=Q131*O131	=R131*Inputs!$E$46	[redacted]
Kent - Blaise Farm Quarry	M	TBC	01-Dec-2018	2019	100	BMBT	[redacted]	[redacted]	=H132*LOOKUP(P132,'Diversion Efficiency'!$C$9:$D$12)	=IF(I132="EfW",0,$L132*LOOKUP(P132,'Diversion Efficiency'!$C$9:$E$12))	=L132*Inputs!$E$24	=IF(I132="EfW",N132,(N132-M132*Inputs!$E$24))*VLOOKUP(P132,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C132),RiskCorrmat(corr,114))	=IF(P132<-K132,0,1)	=Q132*O132	=R132*Inputs!$E$46	[redacted]
Kingston-upon-Hull	M	TBC	01-Dec-2018	2019	240	EfW	[redacted]	[redacted]	=H133*LOOKUP(P133,'Diversion Efficiency'!$C$9:$D$12)	=IF(I133="EfW",0,$L133*LOOKUP(P133,'Diversion Efficiency'!$C$9:$E$12))	=L133*Inputs!$E$24	=IF(I133="EfW",N133,(N133-M133*Inputs!$E$24))*VLOOKUP(P133,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C133),RiskCorrmat(corr,115))	=IF(P133<-K133,0,1)	=Q133*O133	=R133*Inputs!$E$46	[redacted]
Medway Council	M	Financial Close	01-Dec-2018	2019	0	BMBT	[redacted]	[redacted]	=H134*LOOKUP(P134,'Diversion Efficiency'!$C$9:$D$12)	=IF(I134="EfW",0,$L134*LOOKUP(P134,'Diversion Efficiency'!$C$9:$E$12))	=L134*Inputs!$E$24	=IF(I134="EfW",N134,(N134-M134*Inputs!$E$24))*VLOOKUP(P134,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C134),RiskCorrmat(corr,116))	=IF(P134<-K134,0,1)	=Q134*O134	=R134*Inputs!$E$46	[redacted]
Merseyside - Halton (facility at Widnes in Cheshire)	M	TBC	01-Dec-2018	2019	200	BMBT	[redacted]	[redacted]	=H135*LOOKUP(P135,'Diversion Efficiency'!$C$9:$D$12)	=IF(I135="EfW",0,$L135*LOOKUP(P135,'Diversion Efficiency'!$C$9:$E$12))	=L135*Inputs!$E$24	=IF(I135="EfW",N135,(N135-M135*Inputs!$E$24))*VLOOKUP(P135,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C135),RiskCorrmat(corr,117))	=IF(P135<-K135,0,1)	=Q135*O135	=R135*Inputs!$E$46	[redacted]
Merseyside - Halton	M	TBC	01-Dec-2018	2019	100	EfW	[redacted]	[redacted]	=H136*LOOKUP(P136,'Diversion Efficiency'!$C$9:$D$12)	=IF(I136="EfW",0,$L136*LOOKUP(P136,'Diversion Efficiency'!$C$9:$E$12))	=L136*Inputs!$E$24	=IF(I136="EfW",N136,(N136-M136*Inputs!$E$24))*VLOOKUP(P136,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C136),RiskCorrmat(corr,118))	=IF(P136<-K136,0,1)	=Q136*O136	=R136*Inputs!$E$46	[redacted]
Merseyside - Ince Marshes	M	TBC	01-Dec-2018	2019	300	EfW	[redacted]	[redacted]	=H137*LOOKUP(P137,'Diversion Efficiency'!$C$9:$D$12)	=IF(I137="EfW",0,$L137*LOOKUP(P137,'Diversion Efficiency'!$C$9:$E$12))	=L137*Inputs!$E$24	=IF(I137="EfW",N137,(N137-M137*Inputs!$E$24))*VLOOKUP(P137,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C137),RiskCorrmat(corr,119))	=IF(P137<-K137,0,1)	=Q137*O137	=R137*Inputs!$E$46	[redacted]
Merseyside - Wirral (Hooton Park)	M	TBC	01-Dec-2018	2019	400	BMBT	[redacted]	[redacted]	=H138*LOOKUP(P138,'Diversion Efficiency'!$C$9:$D$12)	=IF(I138="EfW",0,$L138*LOOKUP(P138,'Diversion Efficiency'!$C$9:$E$12))	=L138*Inputs!$E$24	=IF(I138="EfW",N138,(N138-M138*Inputs!$E$24))*VLOOKUP(P138,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C138),RiskCorrmat(corr,120))	=IF(P138<-K138,0,1)	=Q138*O138	=R138*Inputs!$E$46	[redacted]
Middlesbrough	M	TBC	01-Dec-2018	2019	500	BMBT	[redacted]	[redacted]	=H139*LOOKUP(P139,'Diversion Efficiency'!$C$9:$D$12)	=IF(I139="EfW",0,$L139*LOOKUP(P139,'Diversion Efficiency'!$C$9:$E$12))	=L139*Inputs!$E$24	=IF(I139="EfW",N139,(N139-M139*Inputs!$E$24))*VLOOKUP(P139,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C139),RiskCorrmat(corr,121))	=IF(P139<-K139,0,1)	=Q139*O139	=R139*Inputs!$E$46	[redacted]
Newcastle	M	TBC	01-Dec-2018	2019	120	BMBT	[redacted]	[redacted]	=H140*LOOKUP(P140,'Diversion Efficiency'!$C$9:$D$12)	=IF(I140="EfW",0,$L140*LOOKUP(P140,'Diversion Efficiency'!$C$9:$E$12))	=L140*Inputs!$E$24	=IF(I140="EfW",N140,(N140-M140*Inputs!$E$24))*VLOOKUP(P140,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C140),RiskCorrmat(corr,122))	=IF(P140<-K140,0,1)	=Q140*O140	=R140*Inputs!$E$46	[redacted]
North London - Brent Cross	M	TBC	01-Dec-2018	2019	130	EfW	[redacted]	[redacted]	=H141*LOOKUP(P141,'Diversion Efficiency'!$C$9:$D$12)	=IF(I141="EfW",0,$L141*LOOKUP(P141,'Diversion Efficiency'!$C$9:$E$12))	=L141*Inputs!$E$24	=IF(I141="EfW",N141,(N141-M141*Inputs!$E$24))*VLOOKUP(P141,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C141),RiskCorrmat(corr,123))	=IF(P141<-K141,0,1)	=Q141*O141	=R141*Inputs!$E$46	[redacted]
North Yorkshire - Marston	M	TBC	01-Dec-2018	2019	60	EfW	[redacted]	[redacted]	=H142*LOOKUP(P142,'Diversion Efficiency'!$C$9:$D$12)	=IF(I142="EfW",0,$L142*LOOKUP(P142,'Diversion Efficiency'!$C$9:$E$12))	=L142*Inputs!$E$24	=IF(I142="EfW",N142,(N142-M142*Inputs!$E$24))*VLOOKUP(P142,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C142),RiskCorrmat(corr,124))	=IF(P142<-K142,0,1)	=Q142*O142	=R142*Inputs!$E$46	[redacted]
North Yorkshire and York City	M	TBC	01-Dec-2018	2019	76	BMBT	[redacted]	[redacted]	=H143*LOOKUP(P143,'Diversion Efficiency'!$C$9:$D$12)	=IF(I143="EfW",0,$L143*LOOKUP(P143,'Diversion Efficiency'!$C$9:$E$12))	=L143*Inputs!$E$24	=IF(I143="EfW",N143,(N143-M143*Inputs!$E$24))*VLOOKUP(P143,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C143),RiskCorrmat(corr,125))	=IF(P143<-K143,0,1)	=Q143*O143	=R143*Inputs!$E$46	[redacted]
Wilton International Site - Teeside	M	TBC	01-Dec-2018	2019	400	EfW	[redacted]	[redacted]	=H144*LOOKUP(P144,'Diversion Efficiency'!$C$9:$D$12)	=IF(I144="EfW",0,$L144*LOOKUP(P144,'Diversion Efficiency'!$C$9:$E$12))	=L144*Inputs!$E$24	=IF(I144="EfW",N144,(N144-M144*Inputs!$E$24))*VLOOKUP(P144,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C144),RiskCorrmat(corr,126))	=IF(P144<-K144,0,1)	=Q144*O144	=R144*Inputs!$E$46	[redacted]
Northamptonshire	M	TBC	01-Dec-2018	2019	120	BMBT	[redacted]	[redacted]	=H145*LOOKUP(P145,'Diversion Efficiency'!$C$9:$D$12)	=IF(I145="EfW",0,$L145*LOOKUP(P145,'Diversion Efficiency'!$C$9:$E$12))	=L145*Inputs!$E$24	=IF(I145="EfW",N145,(N145-M145*Inputs!$E$24))*VLOOKUP(P145,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C145),RiskCorrmat(corr,127))	=IF(P145<-K145,0,1)	=Q145*O145	=R145*Inputs!$E$46	[redacted]
Northamptonshire - Blackridge Farm	M	TBC	01-Dec-2018	2019	50	BMBT	[redacted]	[redacted]	=H146*LOOKUP(P146,'Diversion Efficiency'!$C$9:$D$12)	=IF(I146="EfW",0,$L146*LOOKUP(P146,'Diversion Efficiency'!$C$9:$E$12))	=L146*Inputs!$E$24	=IF(I146="EfW",N146,(N146-M146*Inputs!$E$24))*VLOOKUP(P146,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C146),RiskCorrmat(corr,128))	=IF(P146<-K146,0,1)	=Q146*O146	=R146*Inputs!$E$46	[redacted]
Runcorn Phase 2 - Halton	M	TBC	01-Dec-2018	2019	375	EfW	[redacted]	[redacted]	=H147*LOOKUP(P147,'Diversion Efficiency'!$C$9:$D$12)	=IF(I147="EfW",0,$L147*LOOKUP(P147,'Diversion Efficiency'!$C$9:$E$12))	=L147*Inputs!$E$24	=IF(I147="EfW",N147,(N147-M147*Inputs!$E$24))*VLOOKUP(P147,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C147),RiskCorrmat(corr,129))	=IF(P147<-K147,0,1)	=Q147*O147	=R147*Inputs!$E$46	[redacted]
Staffordshire - Kingswood EfW	M	TBC	01-Dec-2018	2019	400	EfW	[redacted]	[redacted]	=H148*LOOKUP(P148,'Diversion Efficiency'!$C$9:$D$12)	=IF(I148="EfW",0,$L148*LOOKUP(P148,'Diversion Efficiency'!$C$9:$E$12))	=L148*Inputs!$E$24	=IF(I148="EfW",N148,(N148-M148*Inputs!$E$24))*VLOOKUP(P148,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C148),RiskCorrmat(corr,130))	=IF(P148<-K148,0,1)	=Q148*O148	=R148*Inputs!$E$46	[redacted]
Sunderland	M	TBC	01-Dec-2018	2019	300	BMBT	[redacted]	[redacted]	=H149*LOOKUP(P149,'Diversion Efficiency'!$C$9:$D$12)	=IF(I149="EfW",0,$L149*LOOKUP(P149,'Diversion Efficiency'!$C$9:$E$12))	=L149*Inputs!$E$24	=IF(I149="EfW",N149,(N149-M149*Inputs!$E$24))*VLOOKUP(P149,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C149),RiskCorrmat(corr,131))	=IF(P149<-K149,0,1)	=Q149*O149	=R149*Inputs!$E$46	[redacted]
Sutton - Beddington Lane	M	TBC	01-Dec-2018	2019	110	BMBT	[redacted]	[redacted]	=H150*LOOKUP(P150,'Diversion Efficiency'!$C$9:$D$12)	=IF(I150="EfW",0,$L150*LOOKUP(P150,'Diversion Efficiency'!$C$9:$E$12))	=L150*Inputs!$E$24	=IF(I150="EfW",N150,(N150-M150*Inputs!$E$24))*VLOOKUP(P150,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C150),RiskCorrmat(corr,132))	=IF(P150<-K150,0,1)	=Q150*O150	=R150*Inputs!$E$46	[redacted]
Thurrock Council - Tilbury Green Power	M	TBC	01-Dec-2018	2019	300	BMBT	[redacted]	[redacted]	=H151*LOOKUP(P151,'Diversion Efficiency'!$C$9:$D$12)	=IF(I151="EfW",0,$L151*LOOKUP(P151,'Diversion Efficiency'!$C$9:$E$12))	=L151*Inputs!$E$24	=IF(I151="EfW",N151,(N151-M151*Inputs!$E$24))*VLOOKUP(P151,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C151),RiskCorrmat(corr,133))	=IF(P151<-K151,0,1)	=Q151*O151	=R151*Inputs!$E$46	[redacted]
Warwickshire - Rugby	M	TBC	01-Dec-2018	2019	300	BMBT	[redacted]	[redacted]	=H152*LOOKUP(P152,'Diversion Efficiency'!$C$9:$D$12)	=IF(I152="EfW",0,$L152*LOOKUP(P152,'Diversion Efficiency'!$C$9:$E$12))	=L152*Inputs!$E$24	=IF(I152="EfW",N152,(N152-M152*Inputs!$E$24))*VLOOKUP(P152,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C152),RiskCorrmat(corr,134))	=IF(P152<-K152,0,1)	=Q152*O152	=R152*Inputs!$E$46	[redacted]

Location	Classification - PFI, PPP or M	Status	Operational Date	FY (End) Completed	Operational Capacity (ktpa)	Plant Type - efw, bmbt, lfmbt, mt	Proj. RAG	Delivery Adjustment Rate	Utilisation (ktpa)	Tonnes to EfW (if MBT)	BMW Content (ktpa)	BMW Diversion Capacity (ktpa)	Random Draw (-1 to 0)	Project Delivery Dummy	BMW Capacity Delivered (ktpa)	BMW Capacity Net of Outtages (ktpa)	Comment
West London - Park Royal	M	TBC	01-Dec-2018	2019	100	EfW	[redacted]	[redacted]	=H153*LOOKUP(I153,'Diversion Efficiency'!$C$9:$D$12)	=IF(I153="EfW",0,$L153*LOOKUP($I153,'Diversion Efficiency'!$C$9:$E$12))	=L153*Inputs!$E$24	=IF(I153="EfW",N153,(N153-(M153*Inputs!$E$24))*VLOOKUP(I153,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C153),RiskCorrmat(corr,135))	=IF(P153<-K153,0,1)	=Q153*O153	=R153*Inputs!$E$46	[redacted]
Buckinghamshire - PHASE I Rookery Pit	M	TBC	01-Dec-2018 01-Dec-2018	2019	270	EfW	[redacted]	[redacted]	=H154*LOOKUP(I154,'Diversion Efficiency'!$C$9:$D$12)	=IF(I154="EfW",0,$L154*LOOKUP($I154,'Diversion Efficiency'!$C$9:$E$12))	=L154*Inputs!$E$24	=IF(I154="EfW",N154,(N154-(M154*Inputs!$E$24))*VLOOKUP(I154,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C154),RiskCorrmat(corr,136))	=IF(P154<-K154,0,1)	=Q154*O154	=R154*Inputs!$E$46	[redacted]
Buckinghamshire - PAHSE II Rookery Pit	M	TBC	01-Dec-2019	2019	330	EfW	[redacted]	[redacted]	=H155*LOOKUP(I155,'Diversion Efficiency'!$C$9:$D$12)	=IF(I155="EfW",0,$L155*LOOKUP($I155,'Diversion Efficiency'!$C$9:$E$12))	=L155*Inputs!$E$24	=IF(I155="EfW",N155,(N155-(M155*Inputs!$E$24))*VLOOKUP(I155,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C155),RiskCorrmat(corr,137))	=IF(P155<-K155,0,1)	=Q155*O155	=R155*Inputs!$E$46	[redacted]
Dorset - Canford Poole	M	Operational	01-Dec-2019	2020	0	BMBT	[redacted]	[redacted]	=H156*LOOKUP(I156,'Diversion Efficiency'!$C$9:$D$12)	=IF(I156="EfW",0,$L156*LOOKUP($I156,'Diversion Efficiency'!$C$9:$E$12))	=L156*Inputs!$E$24	=IF(I156="EfW",N156,(N156-(M156*Inputs!$E$24))*VLOOKUP(I156,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C156),RiskCorrmat(corr,138))	=IF(P156<-K156,0,1)	=Q156*O156	=R156*Inputs!$E$46	[redacted]
Kent	M	Operational	N/A	2020	0	EfW	[redacted]	[redacted]	=H157*LOOKUP(I157,'Diversion Efficiency'!$C$9:$D$12)	=IF(I157="EfW",0,$L157*LOOKUP($I157,'Diversion Efficiency'!$C$9:$E$12))	=L157*Inputs!$E$24	=IF(I157="EfW",N157,(N157-(M157*Inputs!$E$24))*VLOOKUP(I157,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C157),RiskCorrmat(corr,139))	=IF(P157<-K157,0,1)	=Q157*O157	=R157*Inputs!$E$46	[redacted]
Ferrybridge	PPP	In-Construction	N/A	2016	500	EfW	[redacted]	[redacted]	=H158*LOOKUP(I158,'Diversion Efficiency'!$C$9:$D$12)	=IF(I158="EfW",0,$L158*LOOKUP($I158,'Diversion Efficiency'!$C$9:$E$12))	=L158*Inputs!$E$24	=IF(I158="EfW",N158,(N158-(M158*Inputs!$E$24))*VLOOKUP(I158,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C158),RiskCorrmat(corr,140))	=IF(P158<-K158,0,1)	=Q158*O158	=R158*Inputs!$E$46	[redacted]
Central Berkshire (no residual waste)	PFI	Operational		2012	0	N/A	[redacted]	[redacted]	=H159*LOOKUP(I159,'Diversion Efficiency'!$C$9:$D$12)	=IF(I159="EfW",0,$L159*LOOKUP($I159,'Diversion Efficiency'!$C$9:$E$12))	=L159*Inputs!$E$24	=IF(I159="EfW",N159,(N159-(M159*Inputs!$E$24))*VLOOKUP(I159,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C159),RiskCorrmat(corr,141))	=IF(P159<-K159,0,1)	=Q159*O159	=R159*Inputs!$E$46	[redacted]
West Sussex County Council Recycling Contract (no residual)	PFI	Operational	01/04/2015 2012	2012	0	N/A	[redacted]	[redacted]	=H160*LOOKUP(I160,'Diversion Efficiency'!$C$9:$D$12)	=IF(I160="EfW",0,$L160*LOOKUP($I160,'Diversion Efficiency'!$C$9:$E$12))	=L160*Inputs!$E$24	=IF(I160="EfW",N160,(N160-(M160*Inputs!$E$24))*VLOOKUP(I160,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C160),RiskCorrmat(corr,142))	=IF(P160<-K160,0,1)	=Q160*O160	=R160*Inputs!$E$46	[redacted]
South Gloucestershire IWM Contract (no residual)	PFI	Operational	2012	2012	0	N/A	[redacted]	[redacted]	=H161*LOOKUP(I161,'Diversion Efficiency'!$C$9:$D$12)	=IF(I161="EfW",0,$L161*LOOKUP($I161,'Diversion Efficiency'!$C$9:$E$12))	=L161*Inputs!$E$24	=IF(I161="EfW",N161,(N161-(M161*Inputs!$E$24))*VLOOKUP(I161,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C161),RiskCorrmat(corr,143))	=IF(P161<-K161,0,1)	=Q161*O161	=R161*Inputs!$E$46	[redacted]
East London Waste Authority Integrated waste Management (ELWA) 2	PFI	Operational	2012	2010	180	BMBT	[redacted]	[redacted]	=H162*LOOKUP(I162,'Diversion Efficiency'!$C$9:$D$12)	=IF(I162="EfW",0,$L162*LOOKUP($I162,'Diversion Efficiency'!$C$9:$E$12))	=L162*Inputs!$E$24	=IF(I162="EfW",N162,(N162-(M162*Inputs!$E$24))*VLOOKUP(I162,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C162),RiskCorrmat(corr,144))	=IF(P162<-K162,0,1)	=Q162*O162	=R162*Inputs!$E$46	[redacted]
Greater Manchester WDA - Longley Lane MBT	PFI	In-Construction	29-Jun-2007	2012	89	BMBT	[redacted]	[redacted]	=H163*LOOKUP(I163,'Diversion Efficiency'!$C$9:$D$12)	=IF(I163="EfW",0,$L163*LOOKUP($I163,'Diversion Efficiency'!$C$9:$E$12))	=L163*Inputs!$E$24	=IF(I163="EfW",N163,(N163-(M163*Inputs!$E$24))*VLOOKUP(I163,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C163),RiskCorrmat(corr,145))	=IF(P163<-K163,0,1)	=Q163*O163	=R163*Inputs!$E$46	[redacted]
Greater Manchester WDA - Salford MBT	PFI	In-Construction	01/03/2013	2012	98	BMBT	[redacted]	[redacted]	=H164*LOOKUP(I164,'Diversion Efficiency'!$C$9:$D$12)	=IF(I164="EfW",0,$L164*LOOKUP($I164,'Diversion Efficiency'!$C$9:$E$12))	=L164*Inputs!$E$24	=IF(I164="EfW",N164,(N164-(M164*Inputs!$E$24))*VLOOKUP(I164,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C164),RiskCorrmat(corr,146))	=IF(P164<-K164,0,1)	=Q164*O164	=R164*Inputs!$E$46	[redacted]
Greater Manchester WDA - Stockport MBT	PFI	Operational	01/03/2013 01/01/2012	2011	66	BMBT	[redacted]	[redacted]	=H165*LOOKUP(I165,'Diversion Efficiency'!$C$9:$D$12)	=IF(I165="EfW",0,$L165*LOOKUP($I165,'Diversion Efficiency'!$C$9:$E$12))	=L165*Inputs!$E$24	=IF(I165="EfW",N165,(N165-(M165*Inputs!$E$24))*VLOOKUP(I165,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C165),RiskCorrmat(corr,147))	=IF(P165<-K165,0,1)	=Q165*O165	=R165*Inputs!$E$46	[redacted]
Greater Manchester WDA - Oldham MBT	PFI	Operational	01/01/2012	2011	66	BMBT	[redacted]	[redacted]	=H166*LOOKUP(I166,'Diversion Efficiency'!$C$9:$D$12)	=IF(I166="EfW",0,$L166*LOOKUP($I166,'Diversion Efficiency'!$C$9:$E$12))	=L166*Inputs!$E$24	=IF(I166="EfW",N166,(N166-(M166*Inputs!$E$24))*VLOOKUP(I166,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C166),RiskCorrmat(corr,148))	=IF(P166<-K166,0,1)	=Q166*O166	=R166*Inputs!$E$46	[redacted]
Greater Manchester WDA - N Manchester MBT	PFI	Operational	01/04/2011 2012	2012	84	BMBT	[redacted]	[redacted]	=H167*LOOKUP(I167,'Diversion Efficiency'!$C$9:$D$12)	=IF(I167="EfW",0,$L167*LOOKUP($I167,'Diversion Efficiency'!$C$9:$E$12))	=L167*Inputs!$E$24	=IF(I167="EfW",N167,(N167-(M167*Inputs!$E$24))*VLOOKUP(I167,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C167),RiskCorrmat(corr,149))	=IF(P167<-K167,0,1)	=Q167*O167	=R167*Inputs!$E$46	[redacted]
West Berkshire (no residual)	PFI	Operational		2012	0	N/A	[redacted]	[redacted]	=H168*LOOKUP(I168,'Diversion Efficiency'!$C$9:$D$12)	=IF(I168="EfW",0,$L168*LOOKUP($I168,'Diversion Efficiency'!$C$9:$E$12))	=L168*Inputs!$E$24	=IF(I168="EfW",N168,(N168-(M168*Inputs!$E$24))*VLOOKUP(I168,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C168),RiskCorrmat(corr,150))	=IF(P168<-K168,0,1)	=Q168*O168	=R168*Inputs!$E$46	[redacted]
Isle of Wight Waste Gasifier	M	Operational	2012	2011	10	EfW	[redacted]	[redacted]	=H169*LOOKUP(I169,'Diversion Efficiency'!$C$9:$D$12)	=IF(I169="EfW",0,$L169*LOOKUP($I169,'Diversion Efficiency'!$C$9:$E$12))	=L169*Inputs!$E$24	=IF(I169="EfW",N169,(N169-(M169*Inputs!$E$24))*VLOOKUP(I169,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C169),RiskCorrmat(corr,151))	=IF(P169<-K169,0,1)	=Q169*O169	=R169*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H170*LOOKUP(I170,'Diversion Efficiency'!$C$9:$D$12)	=IF(I170="EfW",0,$L170*LOOKUP($I170,'Diversion Efficiency'!$C$9:$E$12))	=L170*Inputs!$E$24	=IF(I170="EfW",N170,(N170-(M170*Inputs!$E$24))*VLOOKUP(I170,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C170),RiskCorrmat(corr,152))	=IF(P170<-K170,0,1)	=Q170*O170	=R170*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H171*LOOKUP(I171,'Diversion Efficiency'!$C$9:$D$12)	=IF(I171="EfW",0,$L171*LOOKUP($I171,'Diversion Efficiency'!$C$9:$E$12))	=L171*Inputs!$E$24	=IF(I171="EfW",N171,(N171-(M171*Inputs!$E$24))*VLOOKUP(I171,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C171),RiskCorrmat(corr,153))	=IF(P171<-K171,0,1)	=Q171*O171	=R171*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H172*LOOKUP(I172,'Diversion Efficiency'!$C$9:$D$12)	=IF(I172="EfW",0,$L172*LOOKUP($I172,'Diversion Efficiency'!$C$9:$E$12))	=L172*Inputs!$E$24	=IF(I172="EfW",N172,(N172-(M172*Inputs!$E$24))*VLOOKUP(I172,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C172),RiskCorrmat(corr,154))	=IF(P172<-K172,0,1)	=Q172*O172	=R172*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H173*LOOKUP(I173,'Diversion Efficiency'!$C$9:$D$12)	=IF(I173="EfW",0,$L173*LOOKUP($I173,'Diversion Efficiency'!$C$9:$E$12))	=L173*Inputs!$E$24	=IF(I173="EfW",N173,(N173-(M173*Inputs!$E$24))*VLOOKUP(I173,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C173),RiskCorrmat(corr,155))	=IF(P173<-K173,0,1)	=Q173*O173	=R173*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H174*LOOKUP(I174,'Diversion Efficiency'!$C$9:$D$12)	=IF(I174="EfW",0,$L174*LOOKUP($I174,'Diversion Efficiency'!$C$9:$E$12))	=L174*Inputs!$E$24	=IF(I174="EfW",N174,(N174-(M174*Inputs!$E$24))*VLOOKUP(I174,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C174),RiskCorrmat(corr,156))	=IF(P174<-K174,0,1)	=Q174*O174	=R174*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H175*LOOKUP(I175,'Diversion Efficiency'!$C$9:$D$12)	=IF(I175="EfW",0,$L175*LOOKUP($I175,'Diversion Efficiency'!$C$9:$E$12))	=L175*Inputs!$E$24	=IF(I175="EfW",N175,(N175-(M175*Inputs!$E$24))*VLOOKUP(I175,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C175),RiskCorrmat(corr,157))	=IF(P175<-K175,0,1)	=Q175*O175	=R175*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H176*LOOKUP(I176,'Diversion Efficiency'!$C$9:$D$12)	=IF(I176="EfW",0,$L176*LOOKUP($I176,'Diversion Efficiency'!$C$9:$E$12))	=L176*Inputs!$E$24	=IF(I176="EfW",N176,(N176-(M176*Inputs!$E$24))*VLOOKUP(I176,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C176),RiskCorrmat(corr,158))	=IF(P176<-K176,0,1)	=Q176*O176	=R176*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H177*LOOKUP(I177,'Diversion Efficiency'!$C$9:$D$12)	=IF(I177="EfW",0,$L177*LOOKUP($I177,'Diversion Efficiency'!$C$9:$E$12))	=L177*Inputs!$E$24	=IF(I177="EfW",N177,(N177-(M177*Inputs!$E$24))*VLOOKUP(I177,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C177),RiskCorrmat(corr,159))	=IF(P177<-K177,0,1)	=Q177*O177	=R177*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H178*LOOKUP(I178,'Diversion Efficiency'!$C$9:$D$12)	=IF(I178="EfW",0,$L178*LOOKUP($I178,'Diversion Efficiency'!$C$9:$E$12))	=L178*Inputs!$E$24	=IF(I178="EfW",N178,(N178-(M178*Inputs!$E$24))*VLOOKUP(I178,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C178),RiskCorrmat(corr,160))	=IF(P178<-K178,0,1)	=Q178*O178	=R178*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H179*LOOKUP(I179,'Diversion Efficiency'!$C$9:$D$12)	=IF(I179="EfW",0,$L179*LOOKUP($I179,'Diversion Efficiency'!$C$9:$E$12))	=L179*Inputs!$E$24	=IF(I179="EfW",N179,(N179-(M179*Inputs!$E$24))*VLOOKUP(I179,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C179),RiskCorrmat(corr,161))	=IF(P179<-K179,0,1)	=Q179*O179	=R179*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H180*LOOKUP(I180,'Diversion Efficiency'!$C$9:$D$12)	=IF(I180="EfW",0,$L180*LOOKUP($I180,'Diversion Efficiency'!$C$9:$E$12))	=L180*Inputs!$E$24	=IF(I180="EfW",N180,(N180-(M180*Inputs!$E$24))*VLOOKUP(I180,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C180),RiskCorrmat(corr,162))	=IF(P180<-K180,0,1)	=Q180*O180	=R180*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H181*LOOKUP(I181,'Diversion Efficiency'!$C$9:$D$12)	=IF(I181="EfW",0,$L181*LOOKUP($I181,'Diversion Efficiency'!$C$9:$E$12))	=L181*Inputs!$E$24	=IF(I181="EfW",N181,(N181-(M181*Inputs!$E$24))*VLOOKUP(I181,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C181),RiskCorrmat(corr,163))	=IF(P181<-K181,0,1)	=Q181*O181	=R181*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H182*LOOKUP(I182,'Diversion Efficiency'!$C$9:$D$12)	=IF(I182="EfW",0,$L182*LOOKUP($I182,'Diversion Efficiency'!$C$9:$E$12))	=L182*Inputs!$E$24	=IF(I182="EfW",N182,(N182-(M182*Inputs!$E$24))*VLOOKUP(I182,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C182),RiskCorrmat(corr,164))	=IF(P182<-K182,0,1)	=Q182*O182	=R182*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H183*LOOKUP(I183,'Diversion Efficiency'!$C$9:$D$12)	=IF(I183="EfW",0,$L183*LOOKUP($I183,'Diversion Efficiency'!$C$9:$E$12))	=L183*Inputs!$E$24	=IF(I183="EfW",N183,(N183-(M183*Inputs!$E$24))*VLOOKUP(I183,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C183),RiskCorrmat(corr,165))	=IF(P183<-K183,0,1)	=Q183*O183	=R183*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H184*LOOKUP(I184,'Diversion Efficiency'!$C$9:$D$12)	=IF(I184="EfW",0,$L184*LOOKUP($I184,'Diversion Efficiency'!$C$9:$E$12))	=L184*Inputs!$E$24	=IF(I184="EfW",N184,(N184-(M184*Inputs!$E$24))*VLOOKUP(I184,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C184),RiskCorrmat(corr,166))	=IF(P184<-K184,0,1)	=Q184*O184	=R184*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H185*LOOKUP(I185,'Diversion Efficiency'!$C$9:$D$12)	=IF(I185="EfW",0,$L185*LOOKUP($I185,'Diversion Efficiency'!$C$9:$E$12))	=L185*Inputs!$E$24	=IF(I185="EfW",N185,(N185-(M185*Inputs!$E$24))*VLOOKUP(I185,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C185),RiskCorrmat(corr,167))	=IF(P185<-K185,0,1)	=Q185*O185	=R185*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H186*LOOKUP(I186,'Diversion Efficiency'!$C$9:$D$12)	=IF(I186="EfW",0,$L186*LOOKUP($I186,'Diversion Efficiency'!$C$9:$E$12))	=L186*Inputs!$E$24	=IF(I186="EfW",N186,(N186-(M186*Inputs!$E$24))*VLOOKUP(I186,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C186),RiskCorrmat(corr,168))	=IF(P186<-K186,0,1)	=Q186*O186	=R186*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H187*LOOKUP(I187,'Diversion Efficiency'!$C$9:$D$12)	=IF(I187="EfW",0,$L187*LOOKUP($I187,'Diversion Efficiency'!$C$9:$E$12))	=L187*Inputs!$E$24	=IF(I187="EfW",N187,(N187-(M187*Inputs!$E$24))*VLOOKUP(I187,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C187),RiskCorrmat(corr,169))	=IF(P187<-K187,0,1)	=Q187*O187	=R187*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H188*LOOKUP(I188,'Diversion Efficiency'!$C$9:$D$12)	=IF(I188="EfW",0,$L188*LOOKUP($I188,'Diversion Efficiency'!$C$9:$E$12))	=L188*Inputs!$E$24	=IF(I188="EfW",N188,(N188-(M188*Inputs!$E$24))*VLOOKUP(I188,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C188),RiskCorrmat(corr,170))	=IF(P188<-K188,0,1)	=Q188*O188	=R188*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H189*LOOKUP(I189,'Diversion Efficiency'!$C$9:$D$12)	=IF(I189="EfW",0,$L189*LOOKUP($I189,'Diversion Efficiency'!$C$9:$E$12))	=L189*Inputs!$E$24	=IF(I189="EfW",N189,(N189-(M189*Inputs!$E$24))*VLOOKUP(I189,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C189),RiskCorrmat(corr,171))	=IF(P189<-K189,0,1)	=Q189*O189	=R189*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H190*LOOKUP(I190,'Diversion Efficiency'!$C$9:$D$12)	=IF(I190="EfW",0,$L190*LOOKUP($I190,'Diversion Efficiency'!$C$9:$E$12))	=L190*Inputs!$E$24	=IF(I190="EfW",N190,(N190-(M190*Inputs!$E$24))*VLOOKUP(I190,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C190),RiskCorrmat(corr,172))	=IF(P190<-K190,0,1)	=Q190*O190	=R190*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H191*LOOKUP(I191,'Diversion Efficiency'!$C$9:$D$12)	=IF(I191="EfW",0,$L191*LOOKUP($I191,'Diversion Efficiency'!$C$9:$E$12))	=L191*Inputs!$E$24	=IF(I191="EfW",N191,(N191-(M191*Inputs!$E$24))*VLOOKUP(I191,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C191),RiskCorrmat(corr,173))	=IF(P191<-K191,0,1)	=Q191*O191	=R191*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H192*LOOKUP(I192,'Diversion Efficiency'!$C$9:$D$12)	=IF(I192="EfW",0,$L192*LOOKUP($I192,'Diversion Efficiency'!$C$9:$E$12))	=L192*Inputs!$E$24	=IF(I192="EfW",N192,(N192-(M192*Inputs!$E$24))*VLOOKUP(I192,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C192),RiskCorrmat(corr,174))	=IF(P192<-K192,0,1)	=Q192*O192	=R192*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H193*LOOKUP(I193,'Diversion Efficiency'!$C$9:$D$12)	=IF(I193="EfW",0,$L193*LOOKUP($I193,'Diversion Efficiency'!$C$9:$E$12))	=L193*Inputs!$E$24	=IF(I193="EfW",N193,(N193-(M193*Inputs!$E$24))*VLOOKUP(I193,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C193),RiskCorrmat(corr,175))	=IF(P193<-K193,0,1)	=Q193*O193	=R193*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H194*LOOKUP(I194,'Diversion Efficiency'!$C$9:$D$12)	=IF(I194="EfW",0,$L194*LOOKUP($I194,'Diversion Efficiency'!$C$9:$E$12))	=L194*Inputs!$E$24	=IF(I194="EfW",N194,(N194-(M194*Inputs!$E$24))*VLOOKUP(I194,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C194),RiskCorrmat(corr,176))	=IF(P194<-K194,0,1)	=Q194*O194	=R194*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H195*LOOKUP(I195,'Diversion Efficiency'!$C$9:$D$12)	=IF(I195="EfW",0,$L195*LOOKUP($I195,'Diversion Efficiency'!$C$9:$E$12))	=L195*Inputs!$E$24	=IF(I195="EfW",N195,(N195-(M195*Inputs!$E$24))*VLOOKUP(I195,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C195),RiskCorrmat(corr,177))	=IF(P195<-K195,0,1)	=Q195*O195	=R195*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H196*LOOKUP(I196,'Diversion Efficiency'!$C$9:$D$12)	=IF(I196="EfW",0,$L196*LOOKUP($I196,'Diversion Efficiency'!$C$9:$E$12))	=L196*Inputs!$E$24	=IF(I196="EfW",N196,(N196-(M196*Inputs!$E$24))*VLOOKUP(I196,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C196),RiskCorrmat(corr,178))	=IF(P196<-K196,0,1)	=Q196*O196	=R196*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H197*LOOKUP(I197,'Diversion Efficiency'!$C$9:$D$12)	=IF(I197="EfW",0,$L197*LOOKUP($I197,'Diversion Efficiency'!$C$9:$E$12))	=L197*Inputs!$E$24	=IF(I197="EfW",N197,(N197-(M197*Inputs!$E$24))*VLOOKUP(I197,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C197),RiskCorrmat(corr,179))	=IF(P197<-K197,0,1)	=Q197*O197	=R197*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H198*LOOKUP(I198,'Diversion Efficiency'!$C$9:$D$12)	=IF(I198="EfW",0,$L198*LOOKUP($I198,'Diversion Efficiency'!$C$9:$E$12))	=L198*Inputs!$E$24	=IF(I198="EfW",N198,(N198-(M198*Inputs!$E$24))*VLOOKUP(I198,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C198),RiskCorrmat(corr,180))	=IF(P198<-K198,0,1)	=Q198*O198	=R198*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H199*LOOKUP(I199,'Diversion Efficiency'!$C$9:$D$12)	=IF(I199="EfW",0,$L199*LOOKUP($I199,'Diversion Efficiency'!$C$9:$E$12))	=L199*Inputs!$E$24	=IF(I199="EfW",N199,(N199-(M199*Inputs!$E$24))*VLOOKUP(I199,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C199),RiskCorrmat(corr,181))	=IF(P199<-K199,0,1)	=Q199*O199	=R199*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H200*LOOKUP(I200,'Diversion Efficiency'!$C$9:$D$12)	=IF(I200="EfW",0,$L200*LOOKUP($I200,'Diversion Efficiency'!$C$9:$E$12))	=L200*Inputs!$E$24	=IF(I200="EfW",N200,(N200-(M200*Inputs!$E$24))*VLOOKUP(I200,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C200),RiskCorrmat(corr,182))	=IF(P200<-K200,0,1)	=Q200*O200	=R200*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H201*LOOKUP(I201,'Diversion Efficiency'!$C$9:$D$12)	=IF(I201="EfW",0,$L201*LOOKUP($I201,'Diversion Efficiency'!$C$9:$E$12))	=L201*Inputs!$E$24	=IF(I201="EfW",N201,(N201-(M201*Inputs!$E$24))*VLOOKUP(I201,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C201),RiskCorrmat(corr,183))	=IF(P201<-K201,0,1)	=Q201*O201	=R201*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H202*LOOKUP(I202,'Diversion Efficiency'!$C$9:$D$12)	=IF(I202="EfW",0,$L202*LOOKUP($I202,'Diversion Efficiency'!$C$9:$E$12))	=L202*Inputs!$E$24	=IF(I202="EfW",N202,(N202-(M202*Inputs!$E$24))*VLOOKUP(I202,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C202),RiskCorrmat(corr,184))	=IF(P202<-K202,0,1)	=Q202*O202	=R202*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H203*LOOKUP(I203,'Diversion Efficiency'!$C$9:$D$12)	=IF(I203="EfW",0,$L203*LOOKUP($I203,'Diversion Efficiency'!$C$9:$E$12))	=L203*Inputs!$E$24	=IF(I203="EfW",N203,(N203-(M203*Inputs!$E$24))*VLOOKUP(I203,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C203),RiskCorrmat(corr,185))	=IF(P203<-K203,0,1)	=Q203*O203	=R203*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H204*LOOKUP(I204,'Diversion Efficiency'!$C$9:$D$12)	=IF(I204="EfW",0,$L204*LOOKUP($I204,'Diversion Efficiency'!$C$9:$E$12))	=L204*Inputs!$E$24	=IF(I204="EfW",N204,(N204-(M204*Inputs!$E$24))*VLOOKUP(I204,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C204),RiskCorrmat(corr,186))	=IF(P204<-K204,0,1)	=Q204*O204	=R204*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H205*LOOKUP(I205,'Diversion Efficiency'!$C$9:$D$12)	=IF(I205="EfW",0,$L205*LOOKUP($I205,'Diversion Efficiency'!$C$9:$E$12))	=L205*Inputs!$E$24	=IF(I205="EfW",N205,(N205-(M205*Inputs!$E$24))*VLOOKUP(I205,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C205),RiskCorrmat(corr,187))	=IF(P205<-K205,0,1)	=Q205*O205	=R205*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H206*LOOKUP(I206,'Diversion Efficiency'!$C$9:$D$12)	=IF(I206="EfW",0,$L206*LOOKUP($I206,'Diversion Efficiency'!$C$9:$E$12))	=L206*Inputs!$E$24	=IF(I206="EfW",N206,(N206-(M206*Inputs!$E$24))*VLOOKUP(I206,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C206),RiskCorrmat(corr,188))	=IF(P206<-K206,0,1)	=Q206*O206	=R206*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H207*LOOKUP(I207,'Diversion Efficiency'!$C$9:$D$12)	=IF(I207="EfW",0,$L207*LOOKUP($I207,'Diversion Efficiency'!$C$9:$E$12))	=L207*Inputs!$E$24	=IF(I207="EfW",N207,(N207-(M207*Inputs!$E$24))*VLOOKUP(I207,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C207),RiskCorrmat(corr,189))	=IF(P207<-K207,0,1)	=Q207*O207	=R207*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H208*LOOKUP(I208,'Diversion Efficiency'!$C$9:$D$12)	=IF(I208="EfW",0,$L208*LOOKUP($I208,'Diversion Efficiency'!$C$9:$E$12))	=L208*Inputs!$E$24	=IF(I208="EfW",N208,(N208-(M208*Inputs!$E$24))*VLOOKUP(I208,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C208),RiskCorrmat(corr,190))	=IF(P208<-K208,0,1)	=Q208*O208	=R208*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H209*LOOKUP(I209,'Diversion Efficiency'!$C$9:$D$12)	=IF(I209="EfW",0,$L209*LOOKUP($I209,'Diversion Efficiency'!$C$9:$E$12))	=L209*Inputs!$E$24	=IF(I209="EfW",N209,(N209-(M209*Inputs!$E$24))*VLOOKUP(I209,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C209),RiskCorrmat(corr,191))	=IF(P209<-K209,0,1)	=Q209*O209	=R209*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H210*LOOKUP(I210,'Diversion Efficiency'!$C$9:$D$12)	=IF(I210="EfW",0,$L210*LOOKUP($I210,'Diversion Efficiency'!$C$9:$E$12))	=L210*Inputs!$E$24	=IF(I210="EfW",N210,(N210-(M210*Inputs!$E$24))*VLOOKUP(I210,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C210),RiskCorrmat(corr,192))	=IF(P210<-K210,0,1)	=Q210*O210	=R210*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H211*LOOKUP(I211,'Diversion Efficiency'!$C$9:$D$12)	=IF(I211="EfW",0,$L211*LOOKUP($I211,'Diversion Efficiency'!$C$9:$E$12))	=L211*Inputs!$E$24	=IF(I211="EfW",N211,(N211-(M211*Inputs!$E$24))*VLOOKUP(I211,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C211),RiskCorrmat(corr,193))	=IF(P211<-K211,0,1)	=Q211*O211	=R211*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H212*LOOKUP(I212,'Diversion Efficiency'!$C$9:$D$12)	=IF(I212="EfW",0,$L212*LOOKUP($I212,'Diversion Efficiency'!$C$9:$E$12))	=L212*Inputs!$E$24	=IF(I212="EfW",N212,(N212-(M212*Inputs!$E$24))*VLOOKUP(I212,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C212),RiskCorrmat(corr,194))	=IF(P212<-K212,0,1)	=Q212*O212	=R212*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H213*LOOKUP(I213,'Diversion Efficiency'!$C$9:$D$12)	=IF(I213="EfW",0,$L213*LOOKUP($I213,'Diversion Efficiency'!$C$9:$E$12))	=L213*Inputs!$E$24	=IF(I213="EfW",N213,(N213-(M213*Inputs!$E$24))*VLOOKUP(I213,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C213),RiskCorrmat(corr,195))	=IF(P213<-K213,0,1)	=Q213*O213	=R213*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H214*LOOKUP(I214,'Diversion Efficiency'!$C$9:$D$12)	=IF(I214="EfW",0,$L214*LOOKUP($I214,'Diversion Efficiency'!$C$9:$E$12))	=L214*Inputs!$E$24	=IF(I214="EfW",N214,(N214-(M214*Inputs!$E$24))*VLOOKUP(I214,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C214),RiskCorrmat(corr,196))	=IF(P214<-K214,0,1)	=Q214*O214	=R214*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H215*LOOKUP(I215,'Diversion Efficiency'!$C$9:$D$12)	=IF(I215="EfW",0,$L215*LOOKUP($I215,'Diversion Efficiency'!$C$9:$E$12))	=L215*Inputs!$E$24	=IF(I215="EfW",N215,(N215-(M215*Inputs!$E$24))*VLOOKUP(I215,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C215),RiskCorrmat(corr,197))	=IF(P215<-K215,0,1)	=Q215*O215	=R215*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H216*LOOKUP(I216,'Diversion Efficiency'!$C$9:$D$12)	=IF(I216="EfW",0,$L216*LOOKUP($I216,'Diversion Efficiency'!$C$9:$E$12))	=L216*Inputs!$E$24	=IF(I216="EfW",N216,(N216-(M216*Inputs!$E$24))*VLOOKUP(I216,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C216),RiskCorrmat(corr,198))	=IF(P216<-K216,0,1)	=Q216*O216	=R216*Inputs!$E$46	[redacted]
INSERT NEW PROJECT HERE	M	TBC	N/A	2020	0	EfW	[redacted]	[redacted]	=H217*LOOKUP(I217,'Diversion Efficiency'!$C$9:$D$12)	=IF(I217="EfW",0,$L217*LOOKUP($I217,'Diversion Efficiency'!$C$9:$E$12))	=L217*Inputs!$E$24	=IF(I217="EfW",N217,(N217-(M217*Inputs!$E$24))*VLOOKUP(I217,'Diversion Efficiency'!$C$9:$F$1	=RiskUniform(-1,0,RiskName(C217),RiskCorrmat(corr,199))	=IF(P217<-K217,0,1)	=Q217*O217	=R217*Inputs!$E$46	[redacted]

Diversion Ef

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Diversion Assumptions for residual waste technologies				
Technology Classification	**Utilisation Rate %**	**Tonnes to EfW**	**Diversion Efficiency**	**Technology Example**
BMBT	=Inputs!E31	=Inputs!E41	=Inputs!E36	Bio drying MBT e.g. ELWA
EfW	=Inputs!E32	=Inputs!E42	=Inputs!E37	EfW
LFMBT	=Inputs!E33	=Inputs!E43	=Inputs!E38	LF MBT e.g. Lancs, Cambs
MT	=Inputs!E34	=Inputs!E44	=Inputs!E39	Mechanical treatment
Comments				
The MBT and MT technologies generally do not operate at the reported operational capacity - hence 80% assumed				
It is assumed that for BMBT and MT processes the out put (rdf) is not consigned to landfill				

BMBT type generic process - biodrying - Ecodeco type			
	%	**BMW %**	**Comment**
Waste input	100	=F20*Inputs!E24	
Moisture loss plus some carbon loss	25		Typical value for this type of process - Source [redacted]
Recycling (metals,paper,platics)	10		Typical value for this type of process - Source [redacted]
residues to landrill	15	=F23*Inputs!E24	Typical value for this type of process - Source - [redacted]
RDF	50		Typical value for this type of process - Source - [redacted]
BMW diverted =		=G20-G21-G22-G23-G24	
BMW diversion effieciency		=G25/G20	

LFMBT type generic process - compost like output to landfill - lancs,cambs type			
	%	**BMW**	**Comment**
BMW of treated waste	0.35		
Waste input	100	=F31*Inputs!E24	
Moisture loss plus carbon loss	45		Typical value for this type of process - Source - [redacted]
Recycling (metals,paper,platics)	10		Typical value for this type of process - Source - [redacted]
residues to landrill	15	=F34*F30	Typical value for this type of process - Source - [redacted]
CLO	30	=F35*F30	Typical value for this type of process - Source - [redacted]
BMW diverted =		=G31-G34-G35	
BMW diversion effieciency		=G36/G31	

END

Delivery Adjustment

This sheet outlines the project delivery adjustment rates that are used in the model.

Note that the values used seem slightly unintuitive - this is because a 0.95 adjustment for project outages has been applied.

Project Risk Adjustment - (adjustment for outages removed)				
	PFI	PPP	M	Project Status
B	100%	100%	100%	Fully operational
G	90%	90%	90%	Commissioning
AG	80%	80%	80%	Financial close, with planning
A	70%	70%	40%	Financial close, no planning
AR	60%	60%	20%	In procurement, no planning
R	20%	20%	3%	Unlikely to go live by 2020
n/a	0%	0%	0%	Cancelled Project

[redacted]

END

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Project Deliv

Date	FY (End)	(Randomly Delivered) Capacity (mt)	PFI	PPP	M	Additional Capacity by Mar-2020 (mt)
31-Mar-10	2010	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E8,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E8,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E8,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E8,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F9:F18)
31-Mar-11	2011	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E9,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E9,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E9,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E9,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F10:F18)
31-Mar-12	2012	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E10,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E10,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E10,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E10,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F11:F18)
31-Mar-13	2013	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E11,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E11,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E11,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E11,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F12:F18)
31-Mar-14	2014	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E12,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E12,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E12,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E12,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F13:F18)
31-Mar-15	2015	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E13,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E13,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E13,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E13,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F14:F18)
31-Mar-16	2016	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E14,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E14,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E14,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E14,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F15:F18)
31-Mar-17	2017	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E15,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E15,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E15,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E15,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F16:F18)
31-Mar-18	2018	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E16,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E16,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E16,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E16,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F17:F18)
31-Mar-19	2019	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E17,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E17,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E17,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E17,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	=SUM(F18:F18)
31-Mar-20	2020	=SUMIF(Projects!$G$23:$G$157,'Sum Capacity'!E18,Projects!$S$23:$S$157)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E18,Projects!$D$23:$D$157,'Sum Capacity'!$G$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E18,Projects!$D$23:$D$157,'Sum Capacity'!$H$7)/1000	=SUMIFS(Projects!$S$23:$S$157,Projects!$G$23:$G$157,'Sum Capacity'!E18,Projects!$D$23:$D$157,'Sum Capacity'!$I$7)/1000	0
Total	Total	=SUM(F9:F18)	=SUM(G8:G18)	=SUM(H8:H18)	=SUM(I8:I18)	

Arisings

The following worsheets all deal with arisings and the factors that influence them.

No.	Name	Description
1	Forecasts	Collects the most recent forecast values of LA and C&I waste arisings. Historical values can be entered when forecasts are updated.
2	Outturn	Collects historical data on BMW to landfill and recycling rates. Update as new data become available.

Forecasts

This sheet collates
Data for 2011 are i
Data on forward ar

Forecasts ICentra

Date	FY (End)	Household MSW Arising (Mt)	C&I MSW Arising (mt)
31-Mar-10	2010	23.372973	=H9*$E$26+J9*$L$26
31-Mar-11	2011	23.127875	=I10*$E$26+J10*$L$26
31-Mar-12	2012	23.213655	=I11*$E$26+J11*$L$26
31-Mar-13	2013	23.087736	=I12*$E$26+J12*$L$26
31-Mar-14	2014	23.035292	=I13*$E$26+J13*$L$26
31-Mar-15	2015	22.953161	=I14*$E$26+J14*$L$26
31-Mar-16	2016	22.8622445	=I15*$E$26+J15*$L$26
31-Mar-17	2017	22.8225645	=I16*$E$26+J16*$L$26
31-Mar-18	2018	22.7539175	=I17*$E$26+J17*$L$26
31-Mar-19	2019	22.688861	=I18*$E$26+J18*$L$26
31-Mar-20	2020	22.618287	=I19*$E$26+J19*$L$26

Industrial Arising (mt)	Commercial Arising (mt)
24.037104335281 5	23.851276481 9434
23.67212494922202	22.90957 8401 1028
22.729825559829	22.1945 1889 12074
21.7922483230647	21.3687 0928 7173
21.185632139186	20.8623 5067 03809
20.660643970991	20.0589 3595 83893
20.0917625596732	20.8693 7780 6288
21.0490214059578	21.3203 8144 30794
21.1984295415656	21.7854 2208 70663
21.2548778548385	22.1860 2436 7434
21.3109617561991	22.5603 4491 55313
MSW%s =Inputs!$E$26	=Inputs!$E$27

Minimum C&I Arisings

FY (End)	Industrial	Commercial
2010	23943.7581042497	23561.1920238839
2011	23213.8134584515	22465.3935058796
2012	21941.1304877139	21424.9079623496
2013	20678.7604981399	20004.5799551133
2014	19615.6950764715	19513.0880024127
2015	19168.5090357163	18994.2535170605
2016	18867.6950450335	18865.1002086474
2017	18365.8088417784	19106.8207335283
2018	18672.8307852438	19507.8973623913
2019	19050.1116249452	19984.8705627248
2020	19100.3781496823	20238.0883402152

Forecasts IAltern

Date	FY (End)	Household MSW Arising (Mt)	C&I MSW Arising (mt)
31-Mar-10	2010		=I24*$I$35+J$35*J24
31-Mar-11	2011		=I25*$I$35+J$35*J25
31-Mar-12	2012		=I26*$I$35+J$35*J26
31-Mar-13	2013		=I27*$I$35+J$35*J27
31-Mar-14	2014		=I28*$I$35+J$35*J28
31-Mar-15	2015		=I29*$I$35+J$35*J29
31-Mar-16	2016		=I30*$I$35+J$35*J30
31-Mar-17	2017		=I31*$I$35+J$35*J31
31-Mar-18	2018		=I32*$I$35+J$35*J32
31-Mar-19	2019		=I33*$I$35+J$35*J33
31-Mar-20	2020		=I34*$I$35+J$35*J34

Industrial Arising (mt)	Commercial Arising (mt)
MSW%s =Inputs!$E$26	=Inputs!$E$27

Maximum C&I Arisings

FY (End)	Industrial	Commercial
2010	24099.335155042	23711.359453083
2011	24039.7418823627	23268.2187230839
2012	23620.8668806417	23068.2402784 05
2013	23325.5426709838	22903.9673246239
2014	23418.2413585263	23081.4272868311
2015	23883.1547921422	23426.9066873751
2016	23874.3658418594	23871.8405601296
2017	24054.0535502645	24384.1529867228
2018	24190.5079051378	24872.7291753 97
2019	24289.2978792124	25333.3782056123
2020	24353.586512898	25803.9932113803

Min Mun	=IM19*InputsIE26+ForecastsIN19*InputsIE27/1000
Max Mun	=IM34*InputsIE26+ForecastsIN34*InputsIE27/1000

END

Local Authority: S					
Year	quarter	FY end	total_household	pA	pB
2009	2009q2	2010	6407.546	6349.701	6410.903
2009	2009q3	2010	6331.908	6220.503	6174.855
2009	2009q4	2010	5542.081	5457.737	5384.079
2010	2010q1	2010	5384.205	5428.56	5341.408
2010	2010q2	2011	6346.689	6277.207	6268.765
2010	2010q3	2011	6151.61	6202.542	6219.523
2010	2010q4	2011	5287.374	5434.756	5395.969
2011	2011q1	2011	5668.021	5174.882	5288.031
2011	2011q2	2012	6136.207	6302.045	6183.557
2011	2011q3	2012	6039.962	6243.306	6029.536
2011	2011q4	2012	5392.618	5116.664	5436.313
2012	2012q1	2012	5324.322	5640.978	5493.444
2012	2012q2	2013		6191.848	6077.291
2012	2012q3	2013		6044.39	6071.609
2012	2012q4	2013		5427.063	5252.502
2013	2013q1	2013		5657.113	5452.456
2013	2013q2	2014		6219.152	6064.729
2013	2013q3	2014		6064.883	5958.827
2013	2013q4	2014		5451.709	5218.104
2014	2014q1	2014		5679.227	5414.963
2014	2014q2	2015		6242.811	5973.746
2014	2014q3	2015		6087.599	5921.363
2014	2014q4	2015		5475	5185.548
2015	2015q1	2015		5702.187	5338.087
2015	2015q2	2016		6285.964	5931.074
2015	2015q3	2016		6110.823	5884.682
2015	2015q4	2016		5498.104	5097.672
2016	2016q1	2016		5725.221	5291.169
2016	2016q2	2017		6289.049	5871.974
2016	2016q3	2017		6133.689	5802.176
2016	2016q4	2017		5521.181	5047.276
2017	2017q1	2017		5749.292	5231.532
2017	2017q2	2018		6312.124	5812.525
2017	2017q3	2018		6156.761	5749.232
2017	2017q4	2018		5544.254	4987.905
2018	2018q1	2018		5773.365	5173.669
2018	2018q2	2019		6335.197	5757.854
2018	2018q3	2019		6179.834	5690.383
2018	2018q4	2019		5567.328	4930.787
2019	2019q1	2019		5794.438	5117.901
2019	2019q2	2020		6358.27	5695.528
2019	2019q3	2020		6202.907	5633.554
2019	2019q4	2020		5590.401	4874.361
2020	2020q1	2020		5817.511	5060.002
2020	2020q2	2021		6381.343	5642.762
2020	2020q3	2021		6225.98	5576.759
2020	2020q4	2021		5613.474	4916.774

Source: SARIMA X

Local Authority: Annual Aggregation				
FY (End)	Model A	Model B	Mean	Mean ('000s)
2010	=SUMIF($D$40:$D$86, K40, $F$40:$F$86)	=SUMIF($D$40:$D$86, K40, $G$40:$G$86)	=AVERAGE(L40:M40)	=N40/1000
2011	=SUMIF($D$40:$D$86, K41, $F$40:$F$86)	=SUMIF($D$40:$D$86, K41, $G$40:$G$86)	=AVERAGE(L41:M41)	=N41/1000
2012	=SUMIF($D$40:$D$86, K42, $F$40:$F$86)	=SUMIF($D$40:$D$86, K42, $G$40:$G$86)	=AVERAGE(L42:M42)	=N42/1000
2013	=SUMIF($D$40:$D$86, K43, $F$40:$F$86)	=SUMIF($D$40:$D$86, K43, $G$40:$G$86)	=AVERAGE(L43:M43)	=N43/1000
2014	=SUMIF($D$40:$D$86, K44, $F$40:$F$86)	=SUMIF($D$40:$D$86, K44, $G$40:$G$86)	=AVERAGE(L44:M44)	=N44/1000
2015	=SUMIF($D$40:$D$86, K45, $F$40:$F$86)	=SUMIF($D$40:$D$86, K45, $G$40:$G$86)	=AVERAGE(L45:M45)	=N45/1000
2016	=SUMIF($D$40:$D$86, K46, $F$40:$F$86)	=SUMIF($D$40:$D$86, K46, $G$40:$G$86)	=AVERAGE(L46:M46)	=N46/1000
2017	=SUMIF($D$40:$D$86, K47, $F$40:$F$86)	=SUMIF($D$40:$D$86, K47, $G$40:$G$86)	=AVERAGE(L47:M47)	=N47/1000
2018	=SUMIF($D$40:$D$86, K48, $F$40:$F$86)	=SUMIF($D$40:$D$86, K48, $G$40:$G$86)	=AVERAGE(L48:M48)	=N48/1000
2019	=SUMIF($D$40:$D$86, K49, $F$40:$F$86)	=SUMIF($D$40:$D$86, K49, $G$40:$G$86)	=AVERAGE(L49:M49)	=N49/1000
2020	=SUMIF($D$40:$D$86, K50, $F$40:$F$86)	=SUMIF($D$40:$D$86, K50, $G$40:$G$86)	=AVERAGE(L50:M50)	=N50/1000
	=L50/1000	=M50/1000		
SD 2019-20	0.9637236	0.9633772525 24414		

C&I					
FY (End)	Industrial	Commercial	Total	Industrial ('000s)	Commercial ('000s)
2010	24037.1043352815	23851.2764819434	47888.3808172048	=B40/1000	=T40/1000
2011	23672.1249482202	23909.5758011028	48581.7007493227	=B41/1000	=T41/1000
2012	22728.8255599029	22194.5158912074	44923.3414511364	=B42/1000	=T42/1000
2013	21782.3456230847	21368.7058287173	43131.0494517802	=B43/1000	=T43/1000
2014	21185.632139168	20862.3506703609	42047.9828095289	=B44/1000	=T44/1000
2015	20885.0643970991	20656.3935808883	41521.4579779864	=B45/1000	=T45/1000
2016	20691.7925599732	20689.3977800288	41781.1803200602	=B46/1000	=T46/1000
2017	21049.0214259578	21320.3814430794	42369.4028490372	=B47/1000	=T47/1000
2018	21188.4295415656	21765.4220870663	42953.8516286321	=B48/1000	=T48/1000
2019	21254.8779548385	22184.0243067434	43440.9021615819	=B49/1000	=T49/1000
2020	21310.9617561991	22580.3449155313	43891.3066717304	=B50/1000	=T50/1000

Source: Final C&I Pro

Outturn

This sheet collects
Entering values int
Landfilll data is fro

BMW to Landfill

Date	FY (End)	EA Reported BMW to Landfill (mt)	Resdiual BMW (mt)	BMW Diversion Implied (mt)
31-Mar-10	2010	=13456/1000	=IF(F8=0,0,(IF(Inputs!$F$74=1,H22*Forecasts!E9,Forecasts!E24*H22)+IF(Inputs!$F$75=1,I22*Forecasts!F9,I22*Forecasts!F24))*Inputs!$E$24)	=G8-F8
31-Mar-11	2011	12.222	=IF(F9=0,0,(IF(Inputs!$F$74=1,H23*Forecasts!E10,Forecasts!E25*H23)+IF(Inputs!$F$75=1,I23*Forecasts!F10,I23*Forecasts!F25))*Inputs!$E$24)	=G9-F9
31-Mar-12	2012		=IF(F10=0,0,(IF(Inputs!$F$74=1,H24*Forecasts!E11,Forecasts!E26*H24)+IF(Inputs!$F$75=1,I24*Forecasts!F11,I24*Forecasts!F26))*Inputs!$E$24)	=G10-F10
31-Mar-13	2013		=IF(F11=0,0,(IF(Inputs!$F$74=1,H25*Forecasts!E12,Forecasts!E27*H25)+IF(Inputs!$F$75=1,I25*Forecasts!F12,I25*Forecasts!F27))*Inputs!$E$24)	=G11-F11
31-Mar-14	2014		=IF(F12=0,0,(IF(Inputs!$F$74=1,H26*Forecasts!E13,Forecasts!E28*H26)+IF(Inputs!$F$75=1,I26*Forecasts!F13,I26*Forecasts!F28))*Inputs!$E$24)	=G12-F12
31-Mar-15	2015		=IF(F13=0,0,(IF(Inputs!$F$74=1,H27*Forecasts!E14,Forecasts!E29*H27)+IF(Inputs!$F$75=1,I27*Forecasts!F14,I27*Forecasts!F29))*Inputs!$E$24)	=G13-F13
31-Mar-16	2016		=IF(F14=0,0,(IF(Inputs!$F$74=1,H28*Forecasts!E15,Forecasts!E30*H28)+IF(Inputs!$F$75=1,I28*Forecasts!F15,I28*Forecasts!F30))*Inputs!$E$24)	=G14-F14
31-Mar-17	2017		=IF(F15=0,0,(IF(Inputs!$F$74=1,H29*Forecasts!E16,Forecasts!E31*H29)+IF(Inputs!$F$75=1,I29*Forecasts!F16,I29*Forecasts!F31))*Inputs!$E$24)	=G15-F15
31-Mar-18	2018		=IF(F16=0,0,(IF(Inputs!$F$74=1,H30*Forecasts!E17,Forecasts!E32*H30)+IF(Inputs!$F$75=1,I30*Forecasts!F17,I30*Forecasts!F32))*Inputs!$E$24)	=G16-F16
31-Mar-19	2019		=IF(F17=0,0,(IF(Inputs!$F$74=1,H31*Forecasts!E18,Forecasts!E33*H31)+IF(Inputs!$F$75=1,I31*Forecasts!F18,I31*Forecasts!F33))*Inputs!$E$24)	=G17-F17
31-Mar-20	2020		=IF(F18=0,0,(IF(Inputs!$F$74=1,H32*Forecasts!E19,Forecasts!E34*H32)+IF(Inputs!$F$75=1,I32*Forecasts!F19,I32*Forecasts!F34))*Inputs!$E$24)	=G18-F18

Recylcing Rates

Date	FY (End)	Household	C&I	Household (forecast)	C&I (forecast)
31-Mar-10	2010	0.397099743467013	=G23	=H23	=I23
31-Mar-11	2011	0.414584660876121	0.62	=IF(F23>0,F23,H22+$F$33)	=IF(G23>0,G23,I22+$G$33)
31-Mar-12	2012	0.429973015357884		=IF(F24>0,F24,H23+$F$33)	=IF(G24>0,G24,I23+$G$33)
31-Mar-13	2013			=IF(F25>0,F25,H24+$F$33)	=IF(G25>0,G25,I24+$G$33)
31-Mar-14	2014			=IF(F26>0,F26,H25+$F$33)	=IF(G26>0,G26,I25+$G$33)
31-Mar-15	2015			=IF(F27>0,F27,H26+$F$33)	=IF(G27>0,G27,I26+$G$33)
31-Mar-16	2016			=IF(F28>0,F28,H27+$F$33)	=IF(G28>0,G28,I27+$G$33)
31-Mar-17	2017			=IF(F29>0,F29,H28+$F$33)	=IF(G29>0,G29,I28+$G$33)
31-Mar-18	2018			=IF(F30>0,F30,H29+$F$33)	=IF(G30>0,G30,I29+$G$33)
31-Mar-19	2019			=IF(F31>0,F31,H30+$F$33)	=IF(G31>0,G31,I30+$G$33)
31-Mar-20	2020			=IF(F32>0,F32,H31+$F$33)	=IF(G32>0,G32,I31+$G$33)
P.p. change/ye		=(Inputs!$E$21-Inputs!$D$21)/($E$32-Outputs!$F$7)	=(Inputs!$E$22-Inputs!$D$22)/($E$32-Outputs!$F$7)		

END