

## Thermal Schedule & Emission Points - Colt, Powergate

Emission Point Ref	MCP Description	MCP type	Manufacturer	Model	output rating (kVA)	Output rating (kWe)	Max fuel (litres)	Calculated Efficiency	Thermal Capacity (MW)	Comments
EP1	ISC gen 1	Existing	F G Wilson	P2000	2000	1,600	426	38%	4.17	
EP2	ISC gen 2	Existing	F G Wilson	P2000	2000	1,600	426	38%	4.17	
EP3	ISC gen 3	Existing	F G Wilson	P2000	2000	1,600	426	38%	4.17	
EP4	ISC gen 4	New	MTU	DS1400	1250	1,000	300	35%	2.86	New in 2022/23
EP5	FDC1 GA1 - gen 1	Existing	SDMO	X2200K	2000	1,600	436	37%	4.27	
EP6	FDC1 GA2 - gen 2	Existing	SDMO	X2200K	2000	1,600	436	37%	4.27	
EP7	FDC1 GB1 - gen 1	Existing	SDMO	X2200K	2000	1,600	436	37%	4.27	
EP8	FDC1 GB2 - gen 2	Existing	SDMO	X2200K	2000	1,600	436	37%	4.3	
EP9	IDC5-7 - Gen 1	New	Kohler - SDMO	KD3100-E	2812	2,250	604	38%	5.9	New in 2022/23
EP10	IDC5-7 - Gen 2	New	Kohler - SDMO	KD3100-E	2812	2,250	604	38%	5.9	New in 2022/23
EP11	IDC5-7 - Gen 3	New	Kohler - SDMO	KD3100-E	2812	2,250	604	38%	5.9	New in 2022/23
EP12	IDC5-7 - Gen 4	New	Kohler - SDMO	KD3100-E	2812	2,250	604	38%	5.9	New in 2022/23
EP13	IDC5-7 - Gen 5	New	Kohler - SDMO	KD3100-E	2812	2,250	604	38%	5.9	New in 2022/23

**Total NET thermal input capacity** **66.57**

NCV (GJ/tonne)	42.56881	Source: National Factors 2021
Density (litres/tonne)	1,184	Source: DUKES 2021

Max fuel	604.00	
MK	500.11	MK = max fuel x 0.828
Hu	42.57	Hu = calorific value
Pth	5913.66	Pth = MK x Hu / 3.6