

Permit Reference Number: KP3235SS

Operator: IQE (Europe) Limited

Installation: IQE (Europe) Limited, Pascal Close, St. Mellons, Cardiff, CF3 0LW

Form: E1

Reporting of Energy usage for the year: **2024**

			Year	Primary Energy Usage	CO ₂ Produced	CO ₂ per unit output (in ² wafer used)
Delivered Electricity (Mwh)	4639.65		2008	10,589.8	1757.9	0.0052g
			2009	9404	1561	0.0013g
Primary Electricity (Mwh)*	11135.16		2010	9428.75	1565.17	0.0088g
			2011	8649.69	1435.84	0.0068g
Primary Carbon Dioxide (Tonnes)**	1848.44		2012	9463.34	1439.28	0.0085g
			2013	9425.05	1445.13	0.0079g
Delivered Gas (Mwh)	1342.9		2014	8205.37	1362.09	0.0063g
			2015	8641.50	1434.49	0.0053g
TOTAL ENERGY USE (Mwh) (primary electricity + gas)	12478.06		2016	9321.82	1547.42	0.0044g
			2017	12202.56	2025.62	0.0023g
			2018	13918.81	2072.04	0.0025g
			2019	13811.44	2051.22	0.0037g
			2020	12986.73	1953.36	0.0061g
			2021	13847.35	1913.50	0.0071g
			2022	10704.41	1776.93	0.0092g
		2023	12202.99	1820.91	0.0080g	

*Conversion factor for primary electricity = delivered electricity X 2.4

** Conversion factor for primary carbon dioxide = primary electricity x 0.166

31/01/2025

Operator's Comments:

CO₂ per unit output = primary CO₂ / wafers used

In² wafers used 2024 = 105782 in²

CO₂ per unit output = **0.0174g**

Date of Form: 21/01/2014

The approximately double increase in CO2 relates directly to the halving of the wafers grown in the same year. More detail will be available on the cause and corrective actions are available in the annual IQE performance report 2024.

Permit Number: EPR/KP3235SS

Operator: IQE (Europe) Limited

Facility: IQE (Europe) Limited

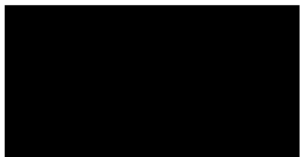
Form Number: A1

Reporting of emissions to air for the period from 01/07/2024 to 31/12/2024.

Emissions to Air							
Emission Point	Substance/Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/Certification ^[4]	Uncertainty ^[5]
A1	Ammonia ^[7]	10 mg/m ³	0.29mg/m ³	BS EN ISO 21877	13/12/2024 :09:39-10:39	MCERTS	+/-0.05
A1	Hydrogen Chloride	10 mg/m ³	0.04mg/m ³	BS EN 1911	13/12/2024 :09:39-10:39	MCERTS	+/-0.01
A3	Arsine ^[6]	0.42 mg/m ³	0.0010mg/m ³	BS EN 14385	13/12/2024 :09:39-10:39	MCERTS	57%
A3	Phosphine ^[6]	0.42 mg/m ³	0.0026mg/m ³	BS EN 14385	13/12/2024 :09:39-10:39	MCERTS	45%
A3	Ammonia ^[7]	9 mg/m ³	0.0050mg/m ³	BS EN ISO 21877	13/12/2024 :09:39-10:39	MCERTS	+/-0.05

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [6] Total arsenic and phosphorus compounds (expressed as arsenic)
- [7] As analysed concentration

Comments:



Senior HSE Lead

31/1/2025

Date of Form: 21/01/2014

Permit Reference Number: KP3235SS.

Operator: IQE (Europe) Limited.

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Form: R1.

Reporting of Waste Disposal & Recovery for the year **2024**.

Hazardous Wastes	Tonnes (T)	Comment	Year	Named Waste (T)	Total Waste (T)	Waste per Unit Output (in ² wafer used)(Gramms)
Named hazardous wastes	151.38	Weighed	2005	184.2	184.2	0.0039g
Other hazardous wastes	10.45		2006	204.5	204.5	0.0036g
			2007	175.5	175.5	0.0023g
Total hazardous waste	161.83		2008	195.6	195.6	0.0058g
			2009	170.6	170.6	0.0014g
Non-Hazardous Wastes			2010	259.14	259.14	0.0014g
Named non- hazardous wastes	7.258	Weighed	2011	250.45	250.45	0.0012g
Other non- hazardous wastes	0		2012	278.44	278.44	0.0016g
			2013	343.00	343.00	0.0018g
Total non- hazardous waste	7.258		2014	323.035	323.035	0.0015g
			2015	431.6	431.6	0.0016g
TOTAL WASTE	169.1		2016	414.81	414.81	0.0011g
			2017	550.54	550.54	0.0006g
			2018	543.41	543.41	0.0006g
			2019	391.95	391.95	0.0007g
			2020	294.36	294.36	0.0009g
			2021	248.61	248.61	0.0008g
			2022	194.46	194.46	0.001g
			2023	152.01	152.01	0.0066g
Operator's Comments: Waste per unit output = Hazardous + Non-hazardous / in ² of wafers used. Wafers used in 2024 = 105782 in ² Waste per unit output in 2024 = 0.0015g				* Non – hazardous wastes. Waste Stream 1 Biffa: Total Collections = 7258kg. Waste to Energy = 4003kg. Waste to Recycling = 2835kg. Waste to Landfill 420kg.		

*Authorised to sign as a representative of the Operator.

31/1/2024

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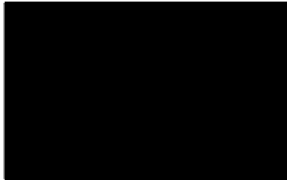
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Form: W1

Release for year ending: 31/12/24.

Activity	Use	Amount used for year (m ³)	% of Total	Amount used Previous year (m ³)	% Change
Mains water received	Supply	1893			
Other	Domestic				
	Total water use	1893	100%	1976	-4.3%



IQE Senior HSE Lead

31/1/2025

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