

Permit Number: **EPR/VP3736EF**


Operator: **The BOC Group Limited**

Facility: **Newport Steam Reforming Plant** Form Number: **Performance1 2015**

Reporting of other performance indicators for the period 01/01/2024 to 31/12/2024

Parameter	Units
Total amount of Hydrogen produced	204 tonnes

Operator's comments:

Signed:  Environment & Sustainability Manager

Date 28/01/25

Permit Number: EPR/VP3736EF

Operator: The BOC Group Limited

Facility: Newport Steam Reforming Plant

Form Number: Air1 01/04/15

Reporting of emissions to air for the period from 01 Jan 2024 to 31 Dec 2024

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
Reformer Furnace Flue Gas Stack	Nitrogen Oxides as NO2	140mg/m ³	Spot sample	72 mg/m ³	SRM - BS EN 14792:2017	20.11.24: 10:30 - 12:30	+/- 6.3
	Carbon Monoxide	25mg/m ³	Spot sample	7.4 mg/m ³	SRM - BS EN 15058:2017	20.11.24: 10:30 - 12:30	+/- 1.3
Vent Gas Header Stack	Hydrogen	No limit set	Spot sample	167000 ppm	As agreed in writing with Natural Resources Wales	05-12-24	
	Carbon Monoxide	No limit set	Spot sample	56 ppm	BS EN 15058 or as agreed in writing with Natural Resources Wales	05-12-24	
	Methane	No limit set	Spot sample	3500 ppm	TGN M22 or as agreed in writing with Natural Resources Wales	05-12-24	

- [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 uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed: [REDACTED] Environment & Sustainability Manager

Date 28/01/25

Permit Number: **EPR/VP3736EF**


Operator: **The BOC Group Limited**

Facility: **Newport Steam Reforming Plant** Form Number: **WaterUsage1 01/04/15**

Reporting of Water Usage for the year 2024

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Water Usage - Mains water	1976 m ³ /year	9.69 m ³ /Te H ₂
Water Usage – Other (please specify)		
TOTAL WATER USAGE	1976 m³/year	9.69m³/Te H₂

Operator's comments :

Signed:  Environment & Sustainability Manager

Date 28/01/25

Permit Number: **EPR/VP3736EF**

Operator: **The BOC Group Limited**

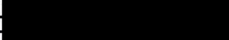
Facility: **Newport Steam Reforming Plant** Form Number: **Energy1 01/04/15**

Reporting of Energy Usage for the year 2024

Energy Source	Energy Usage		
	Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	1070 MWh	2568 MWh	12.6 MWh/Te H ₂
NG Burner fuel	4871 MWh	4871 MWh	23.9 MWh/Te H ₂
TOTAL	5941 MWh	7439 MWh	36.5 MWh/Te H ₂

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:
Conversion factor for delivered electricity to primary energy provided by NRW 2024.

Signed:  Environment & Sustainability Manager

Date 28/01/25