

VPI Humber Generation and BSUoS Analysis Report

Summary of Generation (15 Sep 2023)

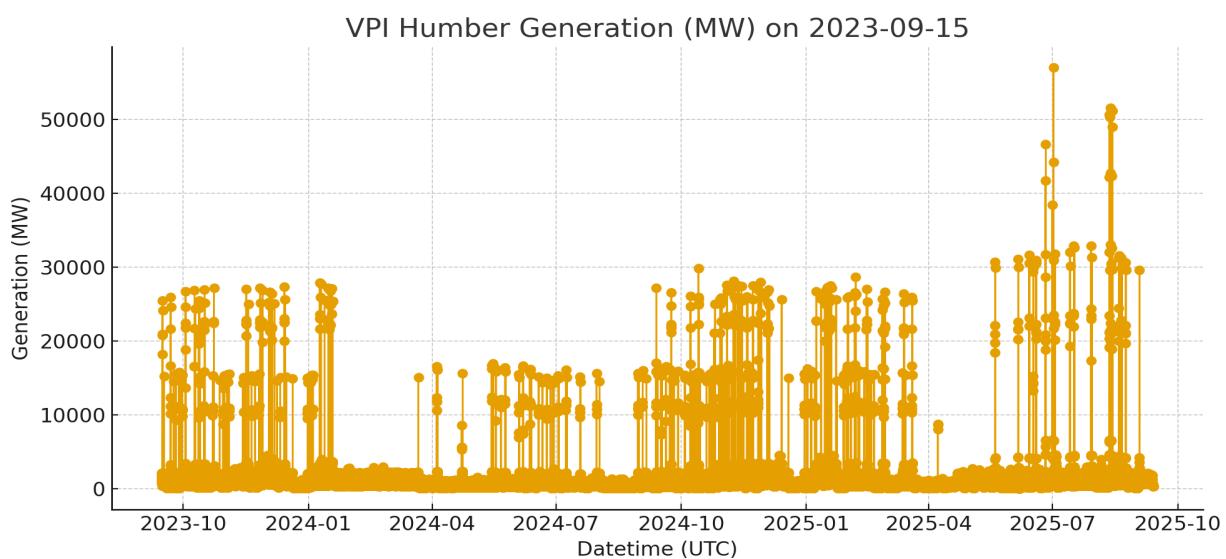
Generation Unit: T_HUMR-1 (VPI Humber)

Total Half-Hourly Records: 48

Average Generation: 682 MW

Total Energy Output: 16,368 MWh

Generation Trend (15 Sep 2023)



BSUoS Overview

The Balancing Services Use of System (BSUoS) charge is used to recover the costs of balancing electricity supply and demand. These costs include frequency response, reserve, constraint management, and system operations incurred by the Electricity System Operator (ESO).

Regulatory Framework and Key Modifications

The BSUoS charge is governed under:

- CUSC: Connection and Use of System Code
- BSC: Balancing and Settlement Code (managed by Elexon)

Key reforms include:

- CMP308 – Removal of BSUoS charges from generators
- CMP361 – Introduction of Fixed Tariffs
- CMP415 – One-year fixed BSUoS periods

Historic BSUoS Costs (GBP/MWh)

2016: £2.91 / MWh

2017: £2.68 / MWh

2018: £2.71 / MWh

2019: £2.90 / MWh

2020: £3.53 / MWh

2021: £6.79 / MWh

2022: £7.58 / MWh

2023: £9.47 / MWh

BSUoS Volatility (Standard Deviation per Year)

2016: ±£0.97

2017: ±£0.89

2018: ±£1.12

2019: ±£1.44

2020: ±£2.83

2021: ±£5.67

2022: ±£6.42

2023: ±£4.98

BSUoS Billing and Settlement

BSUoS charges are settled by Elexon through the BSC settlement process. Charges are calculated and reconciled in several stages: SF (Initial), R1–RF (Reconciliation), and DF (Disputes).

Supplier Billing

Since CMP308, CVA generators such as VPI Humber are exempt from BSUoS charges. Charges are now recovered from Final Demand Suppliers based on fixed tariffs.

References

1. National Grid ESO – BSUoS Tariffs: <https://www.nationalgrideso.com/industry-information/balancing-services/balancing-services-use-system-bsuos-charges>
2. CUSC CMP308: <https://www.nationalgrideso.com/document/185101/download>
3. CMP361: <https://www.nationalgrideso.com/document/263971/download>
4. BSUoS 2025–26 Forecast: <https://www.neso.energy/document/363656/download>