

GX0010493: BLUE HYDROGEN UK

INDEX DESCRIPTION

This index is a notional price reference for blue hydrogen in the UK, calculated utilising exchange-based natural gas and electricity prices, as well as cost assumptions for other inputs into the hydrogen production process.

INDEX DETAILS

 Start date
 03-Nov-2021

 Commodity
 Hydrogen

 Frequency
 Daily

 CCY / UOM
 USD / KG

Precision 2 decimal places

Periods 12,Month
Data types Index
Pricing basis Flat
Delivery basis ExWorks
Trading hub NWE

Timezone Europe/London
Holiday calendar Holidays_GX_Europe

INDEX QUALITY SPECIFICATION

This index reflects the production cost of blue hydrogen, based on Steam Methane Reforming (SMR) production and methyl diethanolamine (MDEA) carbon capture technology.

CRITERIA FOR INCLUSION

Index calculation inputs comprise:

- UK natural gas pricing
- UK base electricity pricing
- FX rate (EUR/USD and EUR/GBP)

The following are all quarterly updated variables:

- Costs and volume assumptions for nitrogen, ammonia, process water and demineralised water
- Conversion energy, compression power and plant power cost assumptions $% \left(1\right) =\left(1\right) \left(1\right) \left($
- CO2 capture electrical energy and CO2 capture thermal energy assumptions $\,$
- Capital recovery, fixed costs, and operating and maintenance cost assumptions

Forward curve inputs: forward power and gas prices

ASSESSMENT TIMES

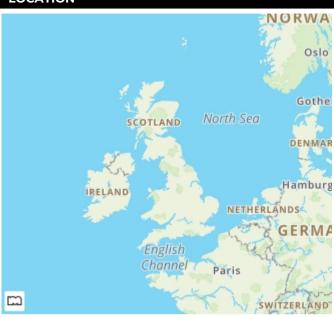
TIME DETAILS
1700 London Close

CALCULATION APPROACH

TRADE DATA APPROACH Priority to reported and concluded transactions N Sole-sourced data from trading principals accepted N Inter-affiliate data accepted as valid N

See flowchart on next page.

LOCATION



FACTSHEET INFORMATION

Factsheet version 1
Factsheet valid from 03-Nov-2021
Factsheet valid to (ongoing)
Factsheet review at 2024-01-12

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