

**GX0010494: PEM ELECTROLYSIS HYDROGEN UK****INDEX DESCRIPTION**

This index is a notional price reference for Electrolysis (PEM) hydrogen in the UK, calculated utilising exchange-based 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 electrolysis hydrogen, based on Proton Exchange Membrane (PEM) production technology.

CRITERIA FOR INCLUSION

Index calculation inputs comprise:

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

The following are all quarterly updated variables:

- Costs and volume assumptions for nitrogen and demineralised water
- Conversion energy, compression power and plant power cost assumptions
- Capital recovery, fixed costs, and operating and maintenance cost assumptions

Forward curve inputs: forward power prices

ASSESSMENT TIMES

TIME	DETAILS
1700	London Close

CALCULATION APPROACH

TRADE DATA APPROACH	Y/N
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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