

**GX0010513: BLUE HYDROGEN HOUSTON****INDEX DESCRIPTION**

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

**INDEX DETAILS**

Start date	16-Feb-2023
Commodity	Hydrogen
Frequency	Daily
CCY / UOM	USD / KG
Precision	2 decimal places
Periods	1,Month
Data types	Index
Pricing basis	Flat
Delivery basis	ExWorks
Trading hub	North America
Timezone	America/New_York
Holiday calendar	Holidays_GX_NorthAmerica

**INDEX QUALITY SPECIFICATION**

This index reflects the production cost of blue hydrogen, based on Steam Methane Reforming (SMR) production and pressure-swung absorption (PSA) carbon capture technology.

**CRITERIA FOR INCLUSION**

Index calculation inputs comprise:

- Henry Hub natural gas pricing
- Houston Day Ahead electricity pricing

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
- CO2 capture electrical energy and CO2 capture thermal energy assumptions
- Capital recovery, fixed costs, and operating and maintenance cost assumptions

**ASSESSMENT TIMES**

TIME	DETAILS
1700	New York 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	16-Feb-2023
Factsheet valid to	(ongoing)
Factsheet review at	2024-01-12



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