

**INDEX DESCRIPTION**

This index is a notional price reference for blue hydrogen in Tokyo, 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. This index excludes any associated capital expenditures.

INDEX DETAILS

Start date	04-May-2022
Commodity	Hydrogen
Frequency	Daily
CCY / UOM	USD / KG
Precision	2 decimal places
Periods	1,Month
Data types	Index
Pricing basis	Flat
Delivery basis	Null
Trading hub	North Asia
Timezone	Asia/Singapore
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 methyl diethanolamine (MDEA) carbon capture technology (excl. CAPEX).

CRITERIA FOR INCLUSION

Index calculation inputs comprise:

- Japanese natural gas pricing
- Tokyo Day Ahead electricity pricing
- FX rates (EUR/USD and EUR/JPY)

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
- Operating and maintenance cost assumptions

ASSESSMENT TIMES

TIME	DETAILS
1730	Singapore 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	04-May-2022
Factsheet valid to	(ongoing)
Factsheet review at	2024-01-12



GX0010533: BLUE HYDROGEN EXCLUDING CAPEX JAPAN

