

GX0010509: BLUE HYDROGEN JAPAN

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.

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 ExWorks

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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.

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
- Capital recovery, fixed costs, and operating and maintenance cost assumptions

ASSESSMENT TIMES

TIMEDETAILS

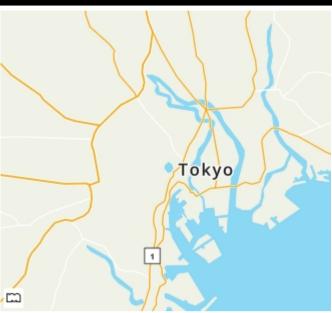
1730
Singapore Close

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 review at

Factsheet version 1
Factsheet valid from 04-May-2022
Factsheet valid to (ongoing)

2024-01-12

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