Index Methodology Factsheet

GX0020153: GREEN PEM ELECTROLYSIS HYDROGEN ITALY

INDEX DESCRIPTION

This index provides a notional price reference for Green Hydrogen produced via electrolysis (PEM) in Italy, incorporating exchange-based electricity prices backed by Guarantees of Origin (GOs), alongside cost assumptions for other inputs in the hydrogen production process.

INDEX DETAILS

Start date	2024-01-08
Commodity	Hydrogen
Frequency	Daily
CCY / UOM	USD / KG
Increment	0.01
Periods	12,Month
Data types	Index
Pricing basis	Flat
Delivery basis	Null
Trading hub	NWE
Timezone	Europe/London
Holiday calendar	Holidays_GX_Europe

INDEX QUALITY SPECIFICATION

This index reflects the production cost of Green hydrogen, based on Proton Exchange Membrane (PEM) production technology.

CRITERIA FOR INCLUSION

Index calculation inputs comprise:
- Italian base electricity pricing
- FX rate (EUR/USD)
- Guarantee of Origin (EUR/MWh)

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	1.0
Factsheet valid from	2024-01-08
Factsheet valid to	(ongoing)

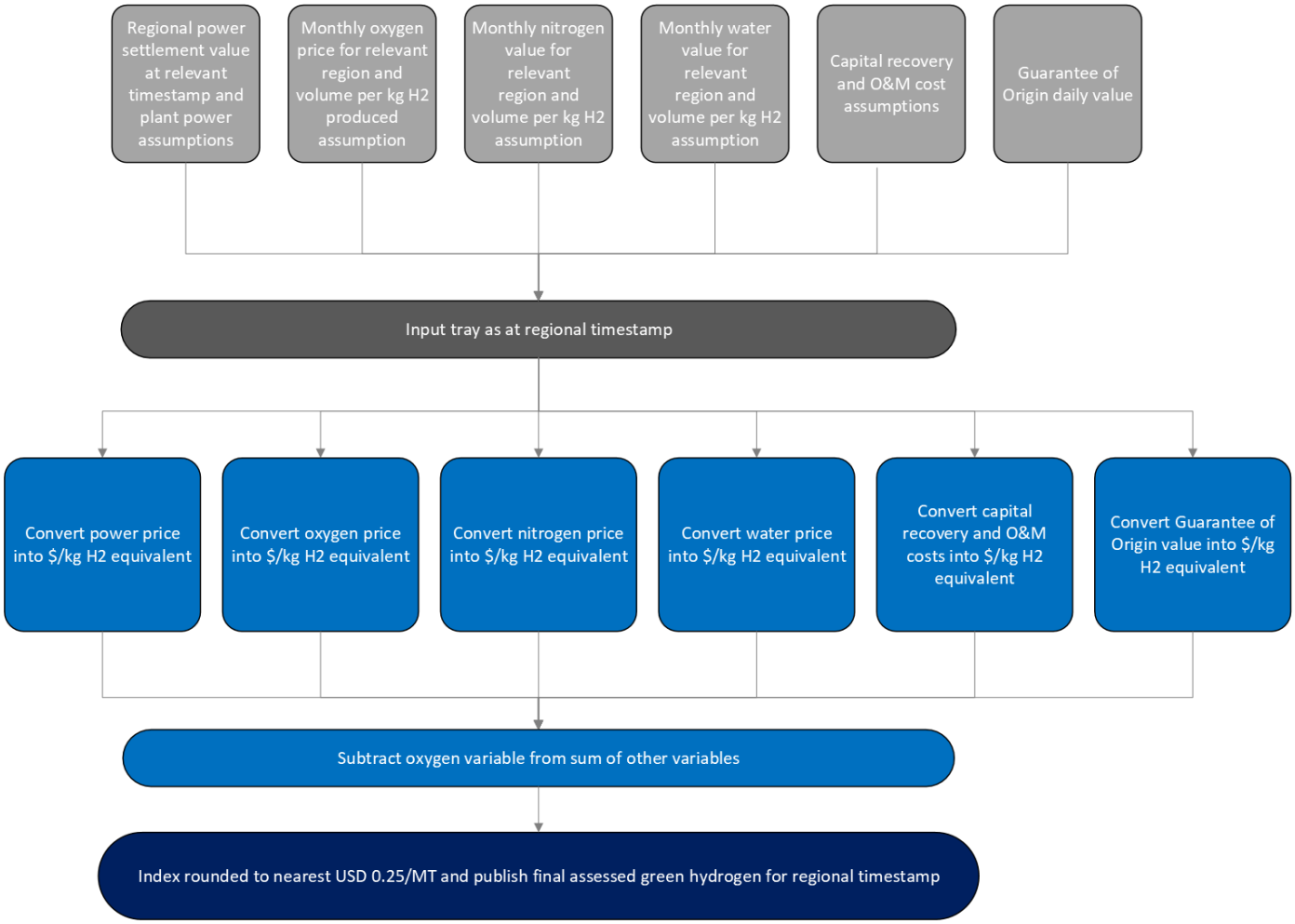
RELATED INDEXES

PARENT INDEXES:

GX0011897	PEM Electrolysis Hydrogen Italy
GX0018034	Wind Solar Hydro Guarantee of Origin (GO) Certificate Europe Grid Connected 2025 Vintage

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