Index Methodology Factsheet

GX0013417: SAF NEAT HEFA (PALM OIL) SINGAPORE PRODUCTION COST MODEL C 50:50

INDEX DESCRIPTION

These indexes reflect a minimum cost price for sustainable aviation fuel (SAF) produced in Singapore via the HEFA pathway. The refinery scenario modelled is "50:50". Total renewable product yield is 90% (40% HVO, 40% SAF, 5% Bio-Naphtha, and 5% Bio-LPG). It assumes a facility in Singapore with 2 mn MT/annum total renewable product capacity. Feedstock is 100% Palm Oil (PO).

INDEX DETAILS

Start date	2024-07-08
Commodity	Jet Fuel
Frequency	Daily
CCY / UOM	USD / MT
Increment	0.01
Periods	1,Prompt
Data types	Index
Pricing basis	Flat
Delivery basis	Ex Works
Trading hub	South East Asia
Timezone	Asia/Singapore
Holiday calendar	Holidays_GX_Singapore

INDEX QUALITY SPECIFICATION

HEFA-SPK (Hydrotreated Esters and Fatty Acids-Synthesized Paraffinic Kerosene) meeting the technical certification standard ASTM D7566 set by the American Society for Testing Materials. “Neat” SAF is a drop-in fuel blending component derived from lipid feedstocks such as plant or algae oils, tallow, or waste greases such as cooking oils which are first deoxygenated and then hydroprocessed to produce a pure hydrocarbon.

CRITERIA FOR INCLUSION

"Index calculation inputs comprise:

1. Variable Costs:
- Bio Feedstock
- Singapore Grey Hydrogen
- Singapore Power
- FX EUR:USD .
- FX EUR:MYR
- FX EUR:SGD

2. Fixed Costs and Assumptions:
- CAPEX, TPEC, Financials and OPEX costs for renewables refinery production in Singapore
- Model C reflects a facility with 2 mn MT of total annual renewable product output
- Model C 50:50 assumes a total renewable product yield of 90% (40% HVO, 40% SAF, 5% Bio-Naphtha, and 5% Bio-LPG).

The final cost-based price does not include a margin."

ASSESSMENT TIMES

TIME	DETAILS
1630	Singapore Close

CALCULATION APPROACH

TRADE DATA APPROACH	Y/N
Priority to reported and concluded transactions	Y
Sole-sourced data from trading principals accepted	N
Inter-affiliate data accepted as valid	N

See Flow Chart on next page.

LOCATION



FACTSHEET INFORMATION

Factsheet version	1.0
Factsheet valid from	2024-07-08
Factsheet valid to	(ongoing)

RELATED INDEXES

CHILD INDEXES:

GX0013423	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 CAPEX Cost Ratio
GX0013419	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 Feedstock Cost Ratio

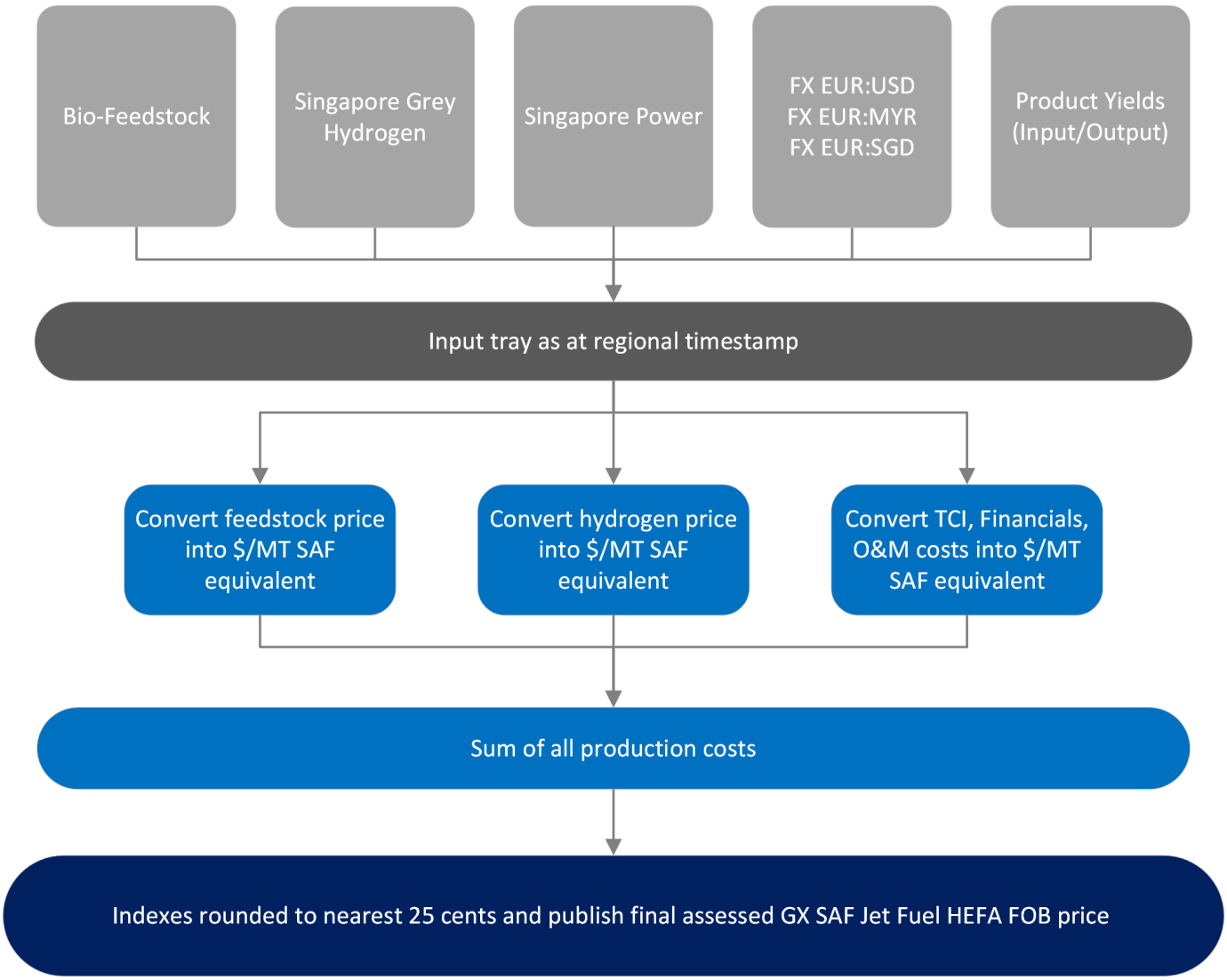
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GX0013427	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 Financials Cost Ratio
GX0013421	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 Hydrogen Cost Ratio
GX0013429	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 OPEX Cost Ratio
GX0013425	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 TPEC Cost Ratio
GX0013431	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 vs Feedstock
GX0013433	SAF Neat HEFA (Palm Oil) Singapore Production Cost Model C 50:50 vs Singapore FOB Cargoes

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