

### The shifting landscape in SEA biofuels & feedstocks

Jakarta, Indonesia Ammo Parmar, Argus Media Biofuels & Net Zero Editor 18 October 2022



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# Agenda

- Legislative changes
- Growing capacity in Asia
- Strained feedstock supply
- Recent price trends
- Concluding thoughts



### A view of Argus

- One of the world's leading PRAs, Argus has more than 1,000 staff members and offices in the world's principal commodity trading and production centres
- Publishing more than 25,000 daily spot and forward price assessments, plus market intelligence for world commodities markets
- Coverage includes:
  - Energy, including oil, natural gas, power, coal, asphalt, base oils, biomass, emissions and more
  - Fertilizers and agriculture
  - Chemicals
  - Metals
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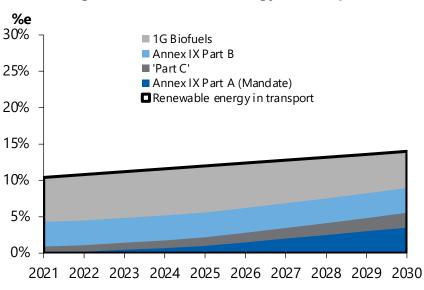


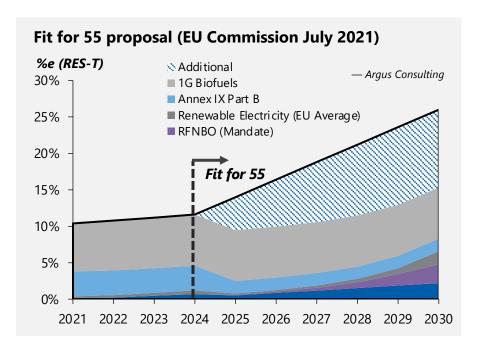


## Key Demand Drivers: Renewable Diesel

'Fit for 55' proposals increase renewable fuel requirements and introduce new sub-mandates

#### **RED II targets for renewable energy in transport**





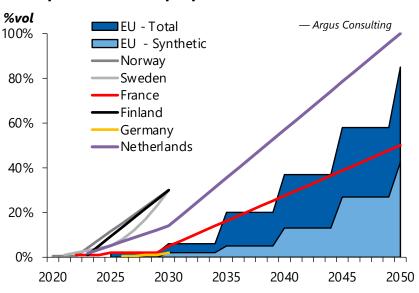


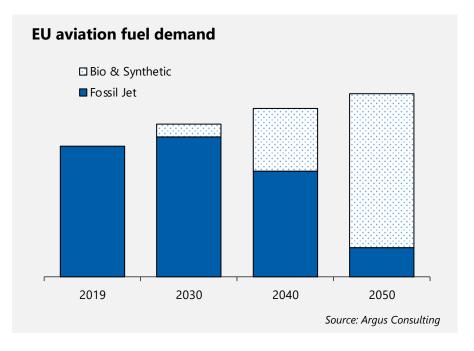
Additional volumes of drop-in fuels. Sub-mandates for synthetic fuels. Caps on crop-based fuels.

## Key Demand Drivers: Renewable Diesel

'Fit for 55' proposals increase renewable fuel requirements and introduce new sub-mandates

#### **EU Implemented and proposed SAF mandates**







Voluntary demand from airlines will continue to increase worldwide, but mandates will drive a significant increase in SAF use in the EU.

# Indonesia biodiesel supply & demand

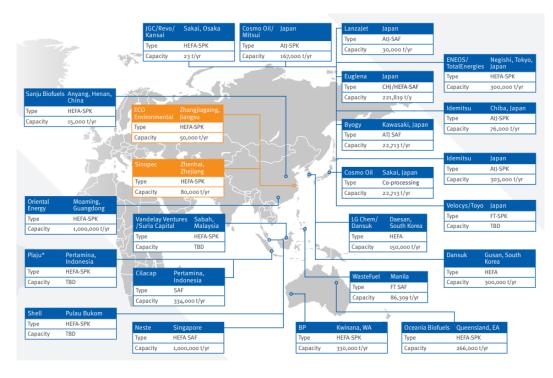
Indonesia biodiesel supply & demand mn kl						
	2021	2022	2023	2024	2025 (B30)	2025 (B40)
Biodiesel demand						
RUEN target	8.9	10	11.2	12.5	13.9	13.9
Projection w/ 5.5% y-o-y growth	9.2	10.2	10.7	11.3	11.9	11.9
HVO 10%						4
Biodiesel supply						
Fame Capacity	17.14	17.96	17.96	17.96	17.96	17.96
HVO Capacity		0.2	0.2	1.15	1.15	1.15

\*Source: Dadan Kusdiana, MEMR, IPOC 21

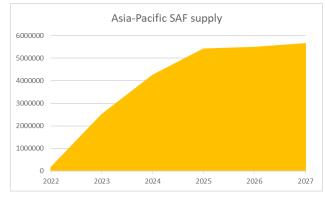
Assumes B30 to 2024 RUEN = Indonesia's National Energy Plan



# Mandates still lagging behind in Asia



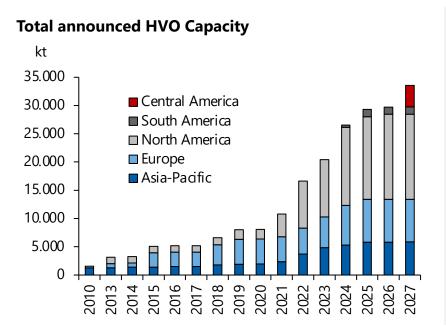
- The Civil Aviation Administration of China has set a SAF consumption target of 50,000t between 2022-25
- Japan has a target of 10pc SAF use by 2030
- Study underway to assess India's SAF potential
- Indonesia is targeting 5pc renewable energy mix in air transport by 2025

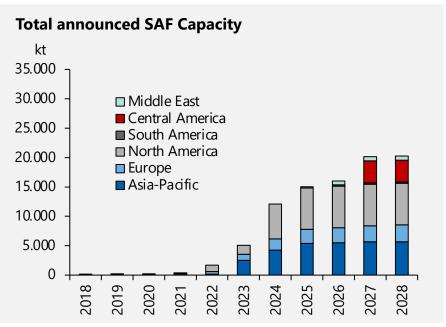




## Renewable Diesel and SAF Production Capacity

Global HVO/SAF capacity is set to surge based upon announced projects



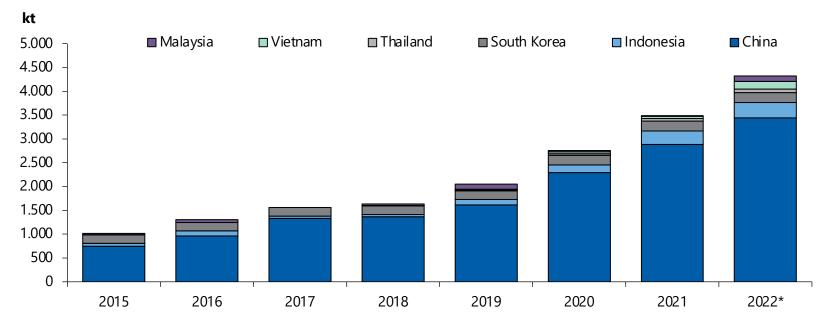




At present, the majority of announced projects will utilise the HVO/HEFA process

### Feedstock Markets

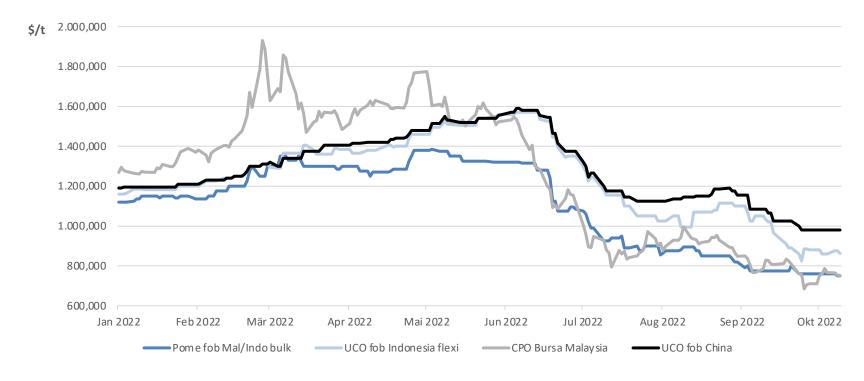
### Asia-Pacific UCO supply growth



Notes: Chart presented in terms of tonnes of feedstock availability. \*Adjusted based upon YTD information
-Argus Consulting

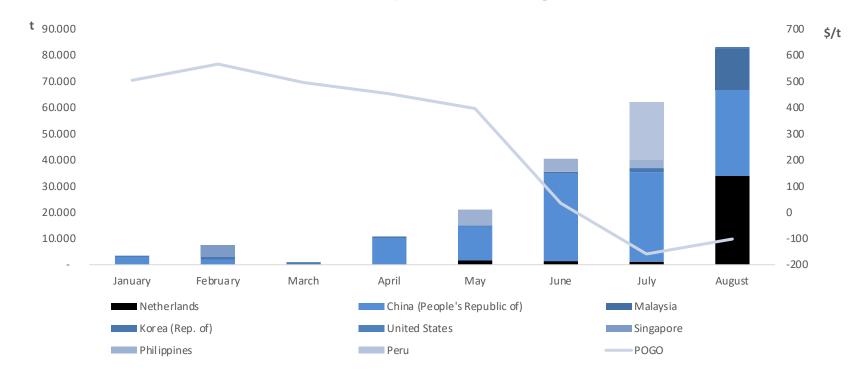


# Volatile year for feedstocks





## Indonesian Biodiesel exports surge with POGO





## Pricing

#### Argus Biofuels report – daily pricing since 2008

- European biodiesel benchmarks RME, Fame 0 & UCOMF
- Growing global markets e.g. Advanced FAME 0 fob ARA range, BGME & Ucome bulk fob China
- Hydrotreated vegetable oil (HVO), ARA & Asia
- Sustainable aviation fuel (SAF), ARA & Asia
- Bionaphtha, ARA & Asia
- UCO ARA, China, Indonesia & Malaysia...launched Vietnam October 2022
- Part A feedstocks, palm oil mill effluent Malaysia & Indonesia & brown grease China
- Daily German, Dutch & UK tickets prices and analysis





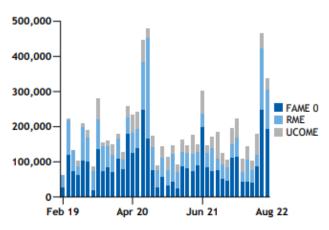


## Argus Open Markets (AOM)

#### High liquidity on biodiesel – traded on AOM



#### **Total trade volumes RME, FAME 0, UCOME (t)**



- FAME 0, RME & UCOME price assessments underpinned by trade on AOM platform
- Cash-settled futures associated with Argus benchmarks, record monthly volumes
- HVO (Classes I, II, III), UCO and ethanol (fob ARA range) also on AOM
- Soon launching Asia window with UCOME and UCO fob China, and UCO fob Malaysia



# Concluding thoughts

- EU continues to drive Asia demand
- Asia still lags but rising mandates and capacity additions in the region will make it a more independent trading hub going forward
- Feedstock sourcing remains structural issue
- More transparency needed in the market





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