

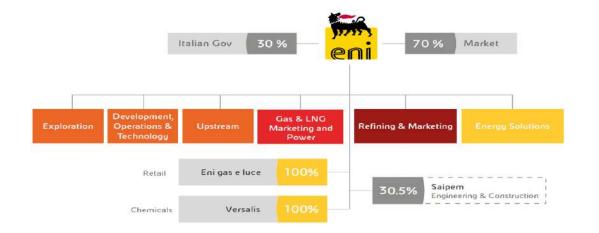
Sourcing Waste and Residue Feedstock for the European Market

ISCC Stakeholder Dialogue - Shanghai 2 July 2019

eni trading & shipping

Eni – a major integrated energy company







Introduction of Green refineries



- Leading renewable diesel producer worldwide
- In-house Ecofining technology
- Key assets: Venice (300kt/yr), Gela (700kt/yr)
- Operational excellency:
 - Environment friendly
 - Reliability
 - Flexibility
 - Sustainability
- Products suitable for global market

Benefits of HVO in the energy complex



- Premium quality fuel:
 - High cetane
 - Low density
 - High energy content
 - Can be blended up to 100% with diesel
- Environment friendly fuel:
 - Low sulphur
 - Low carbon dioxide emission
 - Low NOx emission
- Economical fuel:
 - No extra Capex to meet environmental requirements

RED II and Feedstock flexibility



Trends

- Less vegetable oil, especially palm oil
- More traditional waste feedstock, uco/tallow
- More advanced feedstock with limited ILUC implication

Complex Market

- RED II as guidance, at EU level, different implementation across various Member States
- Same feedstock may not share the same status among Member States
- Member States may impose additional requirements, i.e. categorization, sustainability

Solution

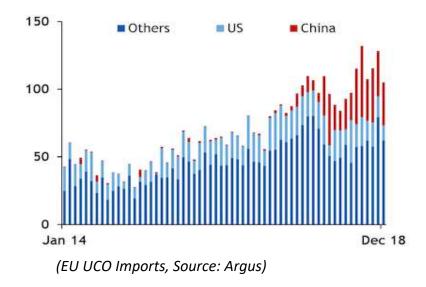
- Certified feedstock for the right market
- Flexibility to switch to the most economical feedstock
- Adapt the finished products to Market requirements of the target Member state
- Work closely with suppliers to achieve the above

Feedstock Market Trends



Current Flows

- Increasing Flows of UCO into EU (1.2m t 2018)
- Increasing Flows of POME, SBEO into EU



Current Challenges

- Finding incremental volumes of sustainable UCO, Animal Fat and POME
- Sustainability documentation and Frauds are a growing problem
- The Market needs to find additional streams of residues
 - Industrial waste flows
 - Low grade waste (i.e. yellow grease etc.) refined to acceptable specifications



Thank you!