



REDUCE TO ZERO THE EMISSIONS OF PALM OIL INDUSTRY



STATE OF THE ART

Indonesia is the world's largest producer of **palm oil** (13 million hectares)

To reach a **sustainable growth**, the industry needs to decrease GHG emissions and reduce dependency from **diesel**

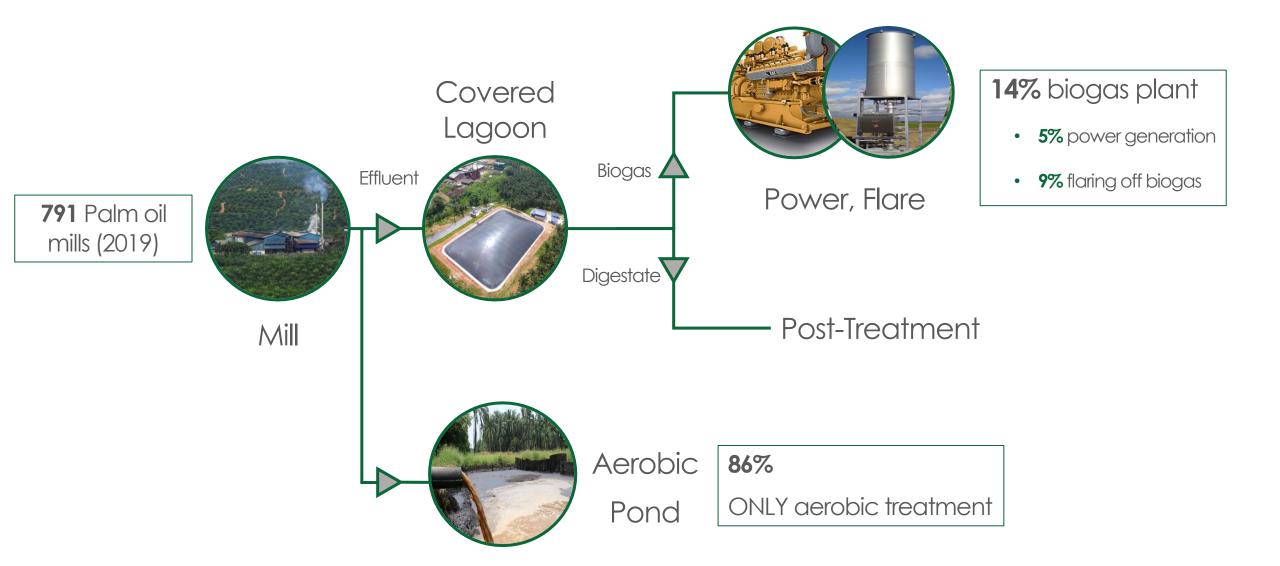




palm oil mills in Indonesia

STATE OF THE ART

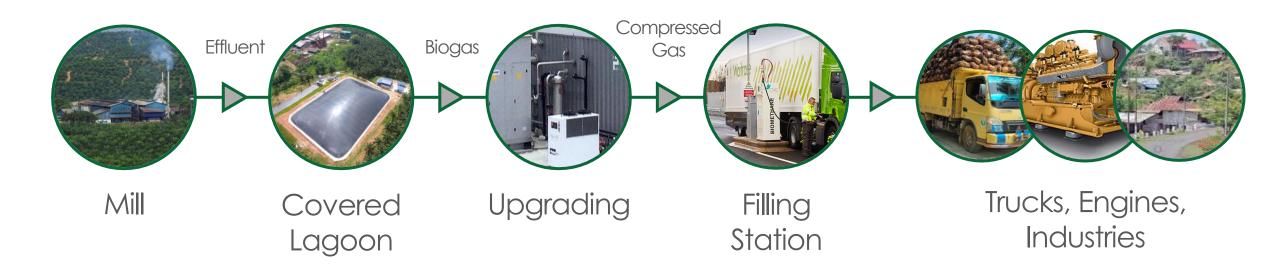




PROGRAMME CONCEPT



Use of palm oil effluent to generate bio-fuel



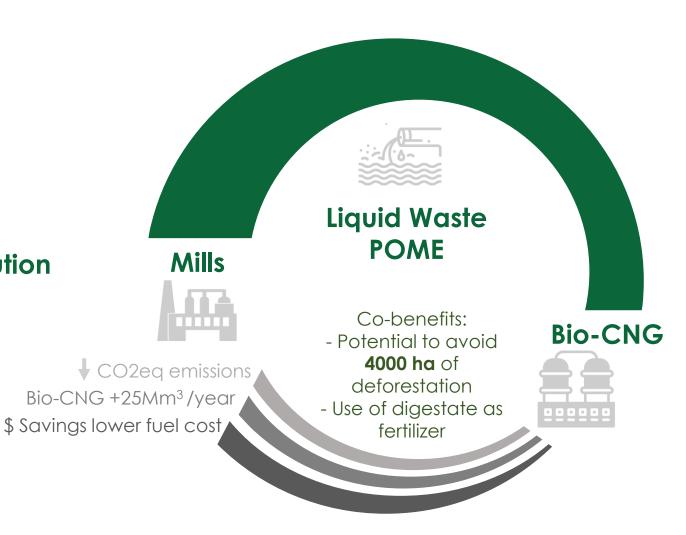
PROGRAMME



Circular Economy

2.2 MLN barrels diesel substitution

14 MLN ton CO₂ avoided



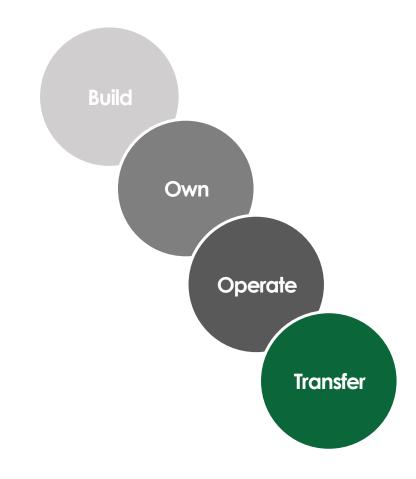
BUSINESS MODEL



BARRIERS

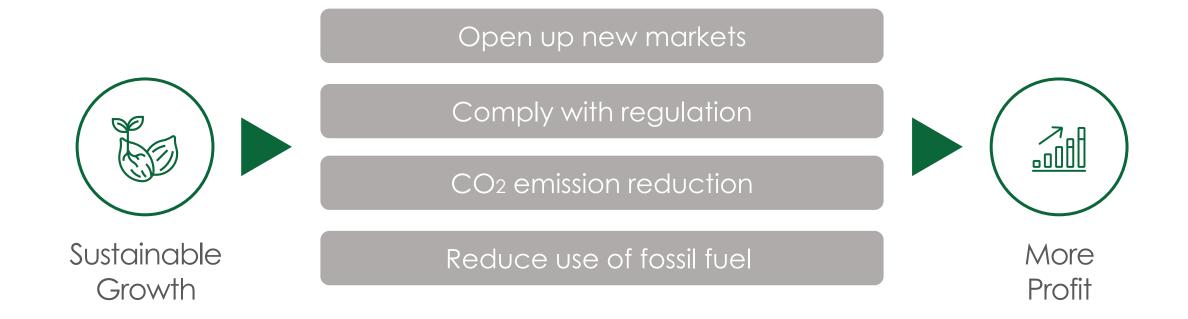
- 1 High Investment
- 2 New concept in Indonesia
- 3 Different priorities
- 4 Lack of off-taker
- 5 Regulatory uncertainty
- 6 Biogas to electricity not feasible

SOLUTION



ENVIRONMENTAL BENEFITS





MILL PERSPECTIVE



Investment

USD 0

SAVINGS: 2M USD diesel purchase (during BOOT)

SAVINGS: 100% fuel expense (after BOOT)

Technology transfer and ZERO EMISSION

Fixed diesel equivalent price: at least 20% less than market price

ENVIRONMENTAL PERSPECTIVE



14M ton CO₂ REDUCTION

15M liters/year BIODIESEL REPLACEMENT – SUBSIDIES SAVING

4,000Ha PLANTATION EQUIVALENT

ZERO EMISSION PALM OIL INDUSTRY

DEVELOPERS







Consulting company active in South East Asia for the development and implementation of renewable energy projects. French company, World market leader, since 1990 specialized in the treatment and recovery of biogas from organic waste.

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