



“The leading Renewable energy solutions provider in Africa”





- **Vision:**

To be Africa's first choice in renewable energy solutions.

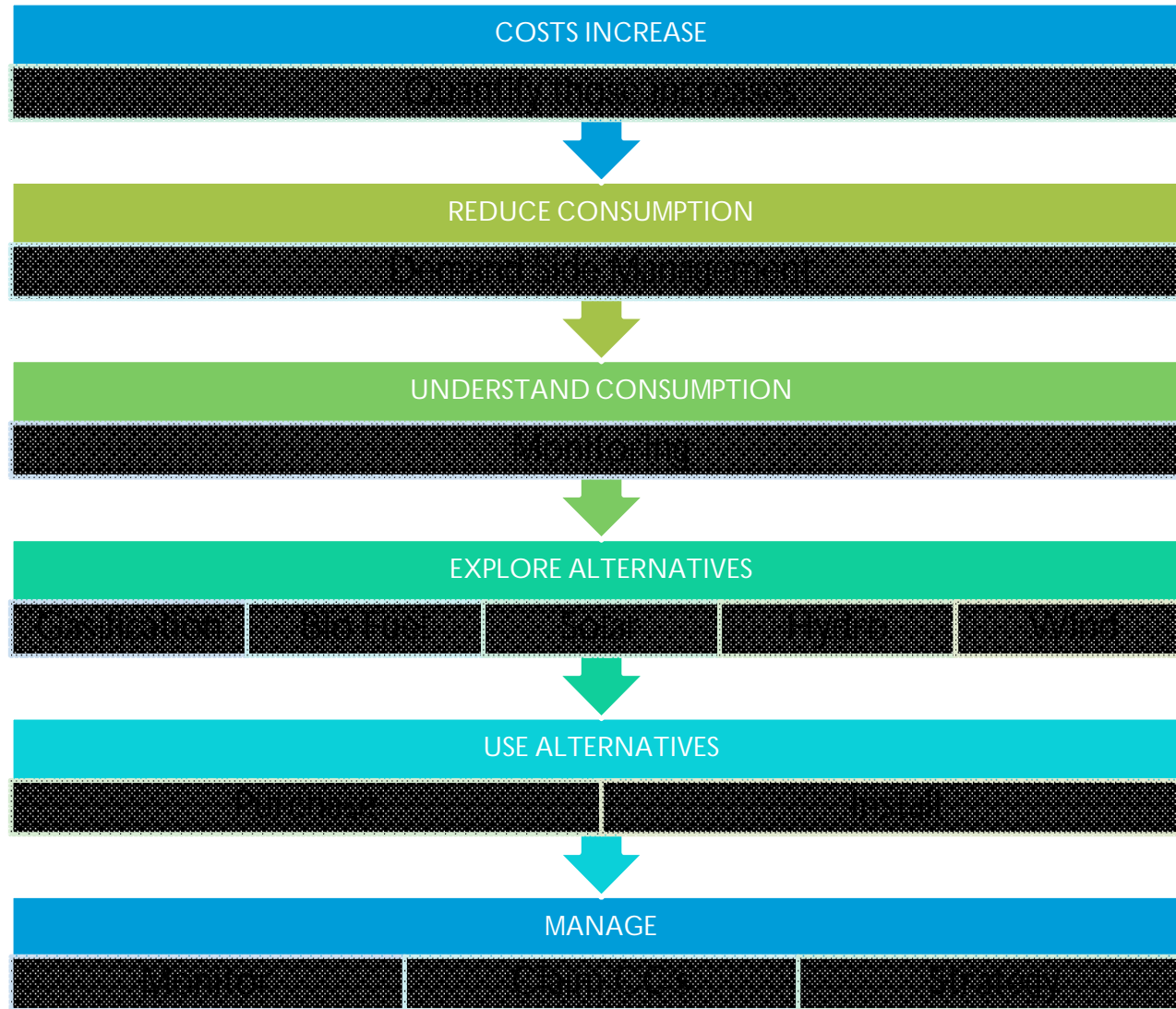
- **Mission:**

Implementation of technology into projects that are sustainable, profitable to stakeholders and beneficial to communities and the environment.

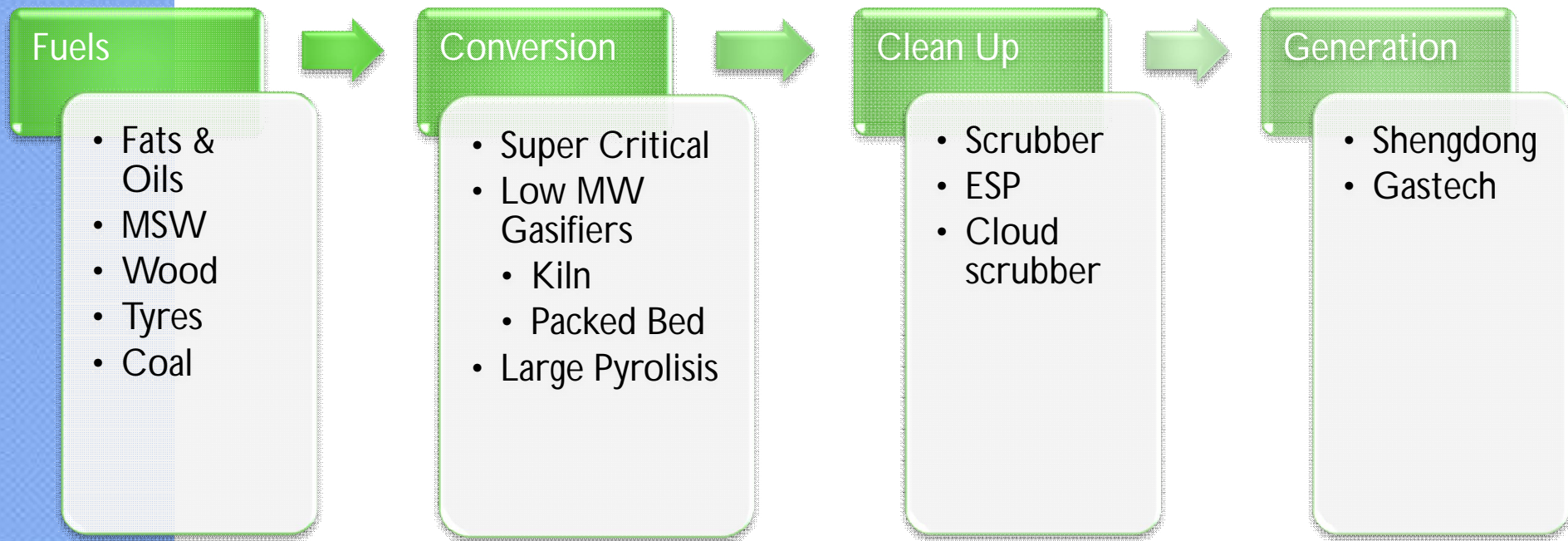
Who is EECOfuels?

- Africa's Largest renewable energy technology supplier
- Over 100 successfully commissioned projects
- Clients include: BHP Billiton, Sun International, Enviroserv, Anglo American, and other blue chip companies
- Largest producer of Bio-diesel in Africa

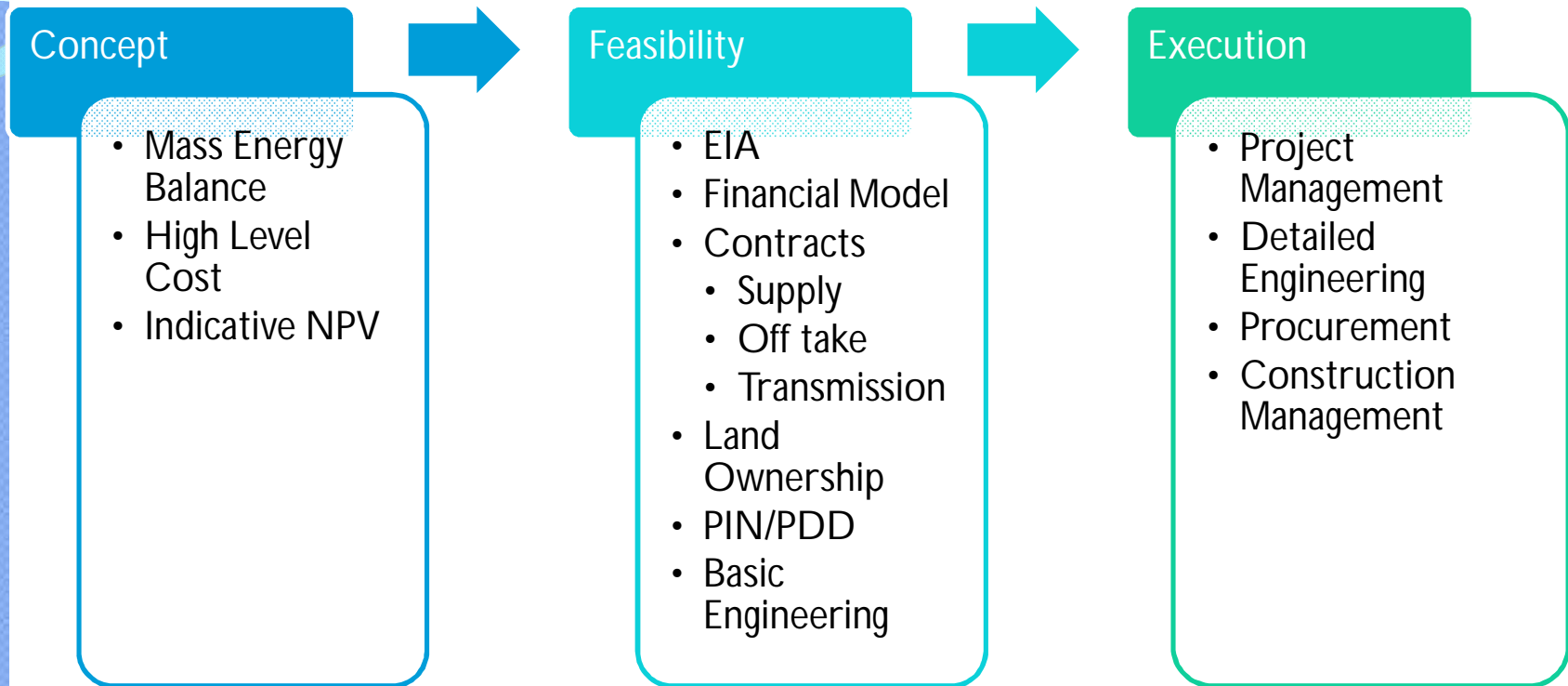
Opportunities



Product offering value chain:



Project Development



EECOFuels Value Offering

- Carbon Footprint (Develop, Report, Manage)
- CDM (PIN, PDD, Implement, Trade)
- Technology (Reduce)
- Engineering Based Analysis
- Product Independent

How it all began: Gasification

Typical gas composition:

- CO 12-18%
 - CO₂ 10-15%
 - CH₄ 4-8%
 - H₂ 3-7%
 - C_nH_m 1-1.4%
 - O₂ 0.5-1.2%
 - N₂ 54-60%
 - Heat value: 4-5 MJ/Nm³
-
- Maximum tar and particulates – 20mg/Nm³
-
- Minimum operating temperature – 1200°C





- Fixed bed updraft for bio-mass such as nuts, shells, wood chips and pellets.
- Sizes: 120kw, 260kw ,500kw and 1MW



- World largest producer of gas engines.
- Over 8000 in production world wide
- Lowest maintenance cost of all gas generators



CHP: 5 MW India



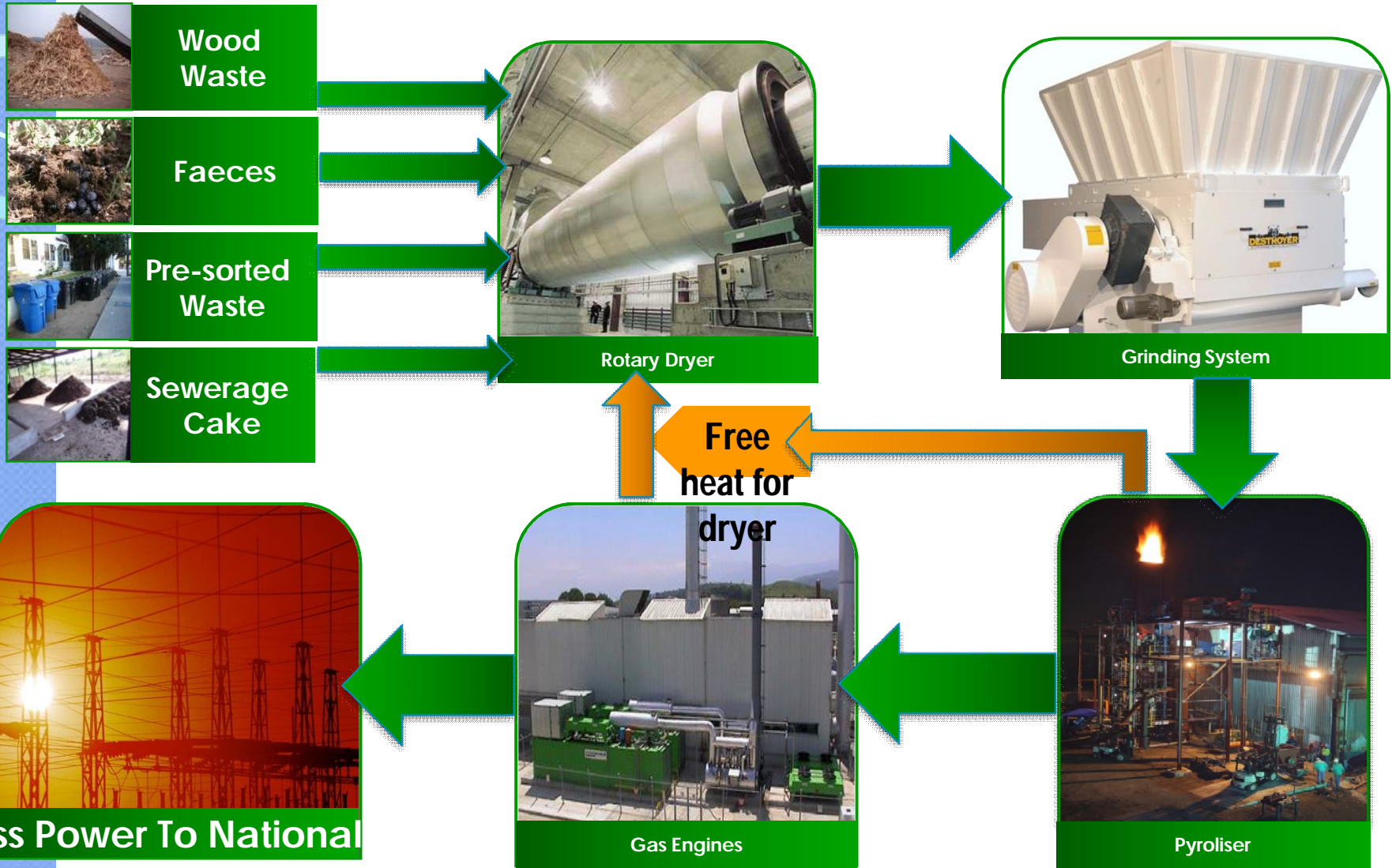
CBM: 60 MW China



LNG: 16 MW



Municipal Waste to energy process.....

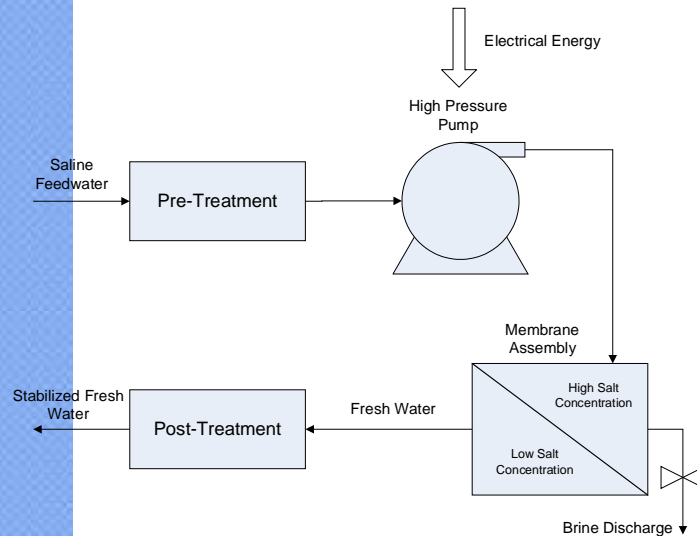


Wet waste water treatment (AD)



- Waste gas produced from digested wet waste to power Gastech engines
- 24kw, 120kw and 260 kw units available

Water Purification: Reverse Osmosis (membrane)

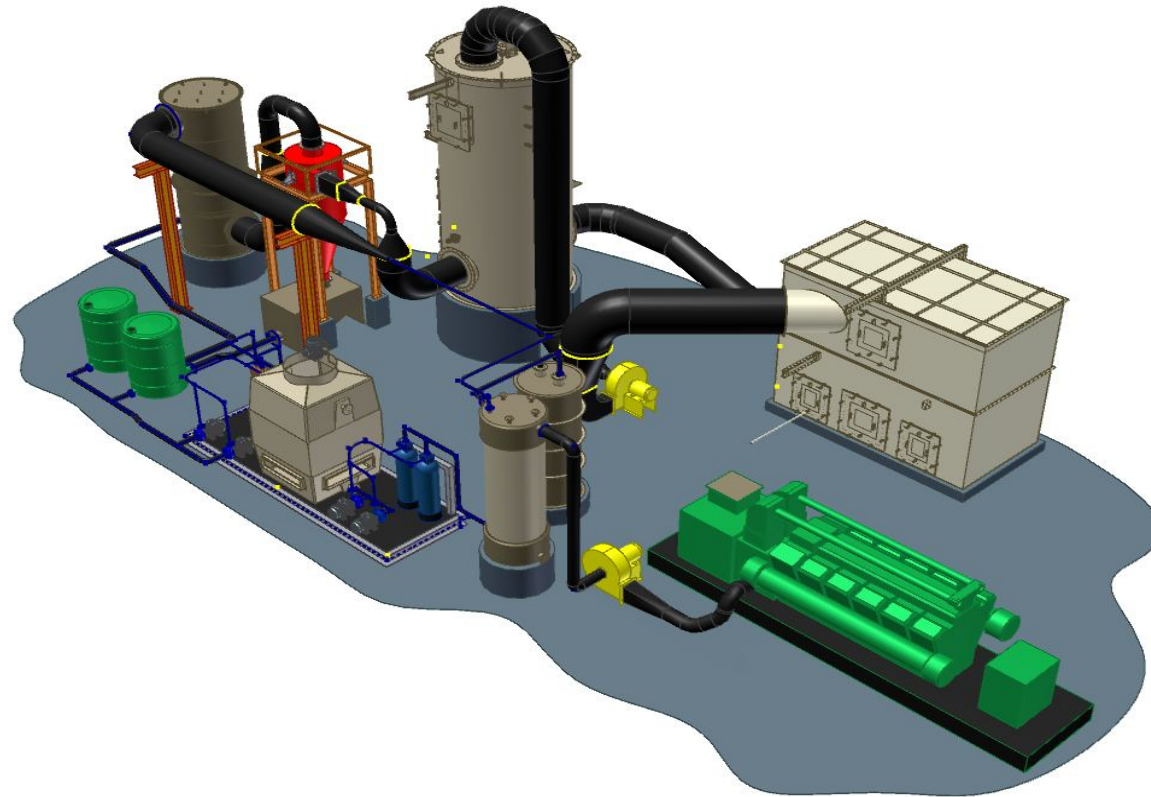


Water is forced through a membrane from an area of high salt concentration to an area of low salt concentration by applying electrical energy in the form of high pressure.

Coal pelletising plant: Woestalleen



Waste to energy plants



- Rotary kiln design evolved from current updratt
- for the processing of shredded feedstock's such as saw dust and shredded MSW
- Sizes: 30kw, 120kw, 260kw, 500kw, 1MW and 2MW

Bio-Diesel



- Esterification Technology.
- Handles up to 15% FFA, perfect for fats and old oils
- First projects under development with Chicken farms



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