

Integrated Waste to Energy System

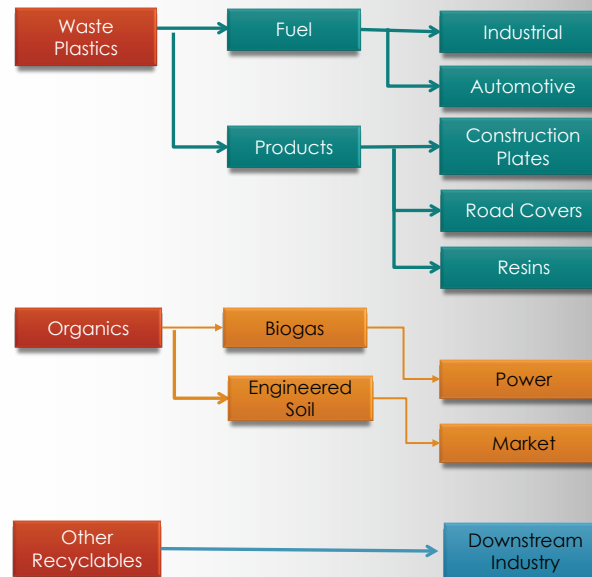
Mensilin Green Energy Sdn Bhd and associates of Mensilin Group are actively promoting the concept of Biomass and Biogas Steam Plant, MSW Power Plant as well as Plastic-to-Diesel Conversion Plant as our core solutions to waste management for municipal and agricultural sectors.

The energy content in waste streams both agricultural and municipal can be harnessed for the use in industrial areas. Steam and heat generation which is conventionally provided via the combustion of fossil fuels can be replaced effectively using waste resources that need to be reduced.

Energy from the waste resources are extracted in boilers or anaerobic reactors and thereafter the energy are transported via pipes to users.

Mensilin Group has the expertise of designing and integrating the entire system of Biomass and Biogas Power Plant as well as developing the business plan for the power plant. As one of the pioneers in renewable energy in Malaysia, Mensilin Group are one of the notable renewable energy project developer as well as Biomass Expert in Malaysia and around the world for public and private sectors. Mensilin Green Energy Sdn Bhd, leveraging on the group expertise, are now the main contractor for Mensilin Group for businesses in Malaysia, Indonesia and Thailand.

Waste to Wealth



**Mensilin Green Energy
SDN BHD**

Energy Solutions for Tomorrow



A large, faint lightbulb icon is positioned behind the text 'Energy Solutions for Tomorrow'.



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Company Background

Mensilin Green Energy was incorporated in 1984 under the enterprising vision to venture in Energy Efficiency projects development, specializing in active and passive energy conservation measures for commercial & industrial buildings and facilities.

Apart from Energy Efficiency projects, MGE is actively developing Waste to Energy projects on various local dumpsites and landfills to improve today's MSW management practice by sorting of waste centrally and in a more efficient way while at the same time - creating downstream products and resources with high value potential.

Syngas Sdn Bhd is a subsidiary of Mensilin Green Energy Sdn Bhd (MGE). Via MGE, the technology will be deployed in United Kingdom and Europe and explore possibility of implementing project in those countries.



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Business Scope

Energy Efficiency

- ⚡ Energy Consulting
- ⚡ Energy Audit
- ⚡ Energy Management Training
- ⚡ MVAC, Lighting & Building Envelopes Energy
- ⚡ Efficiency Solutions
- ⚡ Energy Performance Contracting (EPC)
- ⚡ Combined Heat and Power



Renewable Energy

- ⚡ Renewable Energy from Biomass and Biogas.
- ⚡ Renewable Energy from MSW



MSW Total Management System

- ⚡ MY FUEL: Waste Plastic to Transportation Fuel
- ⚡ SRF Pellet Plant and Power Plant
- ⚡ Recycled Plastic Bale and Pellet Facilities
- ⚡ Waste Sludge to Soil Conditioner and Fertilizer
- ⚡ Recycled Waste Sorting Facilities



*MSW -Municipal Solid Waste



PROJECT HIGHLIGHTS

1998



Energy Optimization Scheme

Urus Bangunan Sdn Bhd
Malaysia Airline Berhad (MAS)
University Malaya (UM)
Institut Teknologi Mara (ITM)

Energy Efficiency

Jabatan Bekalan Elektrik dan Gas
MECM=DANCED

JBEG
SIRIM-SMI
MARA

2007



Energy Audit

Universiti Kebangsaan Malaysia (UKM)
MINT Bangi
Malaysia Airports (Sepang) Sdn Bhd
AV Industries Sdn Bhd
Genergi SEA Kualiti Alam Audit

2014



Biomass Steam Plant Design, Project Management Consultant

Pasir Gudang Steam Plant
Tg Langsat Biomass Steam Plant 2014
Tg Sumantoh Integrated Biomass Power Plant
Genergi SEA - Felda Sahabat Biomass Power Plant
MHES Asia Biomass HRSG Power Plant

2017



Kurinka Road Pavement Pilot Project Taman Bandaraya Bukit Serindit Melaka

2019



Development of Plastic to Fuel 5TPD at Sg Ikan Landfill in Kuala Terengganu

Feasibility Study on Establishment of The Pioneer Malaysia
Plastic-To-Fuel Technology in Ireland

2020



Plastic To Fuel (PTF) Plant at Sg Kandis Logboom