

SUNSOURCE ENERGY SDN. BHD.



CORPORATE PROFILE

ABOUT US

At **Sunsource**, we position ourselves as the 'client representative' to perform Project Planning & Management, Engineering, Development of Bill Quantity, Procurement, Construction Management, Inspection, Testing & Commissioning.

In short, **Sunsource** offers proven track record and best-valued integrated EPCC solutions in the areas of Energy Management, Renewable Energy and Waste & Wastewater Management.

Sunsource is registered with the Ministry of Finance (MOF), Construction Industry Development Board (CIDB), Tenaga Nasional Berhad (TNB) and is also registered Energy Services Company (ESCO) with Suruhanjaya Tenaga

VISION AND MISSION

Vision

To become the **premier environmental solutions and reliable technology provider** with the aim of protecting and preserving the environment for our future generations.

Mission

To develop advanced environmental solutions and technologies for the specific local and regional needs

To provide our clients with efficient, cost-effective and environmentally compliant technology solutions and environmental services.

OUR CAPABILITIES



Energy Efficiency EPCC

- Energy Manager
- Energy Audit & Management
- Energy Conservation Measures (ECMs)
- Performance Optimisation
- Energy Performance Contract (EPC)
- Retrofitting



Renewable Energy On/Off Grid EPCC

- Solar PV
- Biogas
- Biomass
- Small Hydro
- Operations & Maintenance



Waste Management EPCC

- Safe Closure of Landfill
- Construction of Sanitary Landfill
- Landfill Gas Management
- Wastewater Treatment
- Effluent Treatment
- Mobile Effluent Treatment Plant

SUNSOURCE AS ONE STOP CENTRE



**Detailed
Engineering
Design**

Procurement

Construction

T&C

**Operations &
Maintenance**

SUNSOURCE AS ESCO

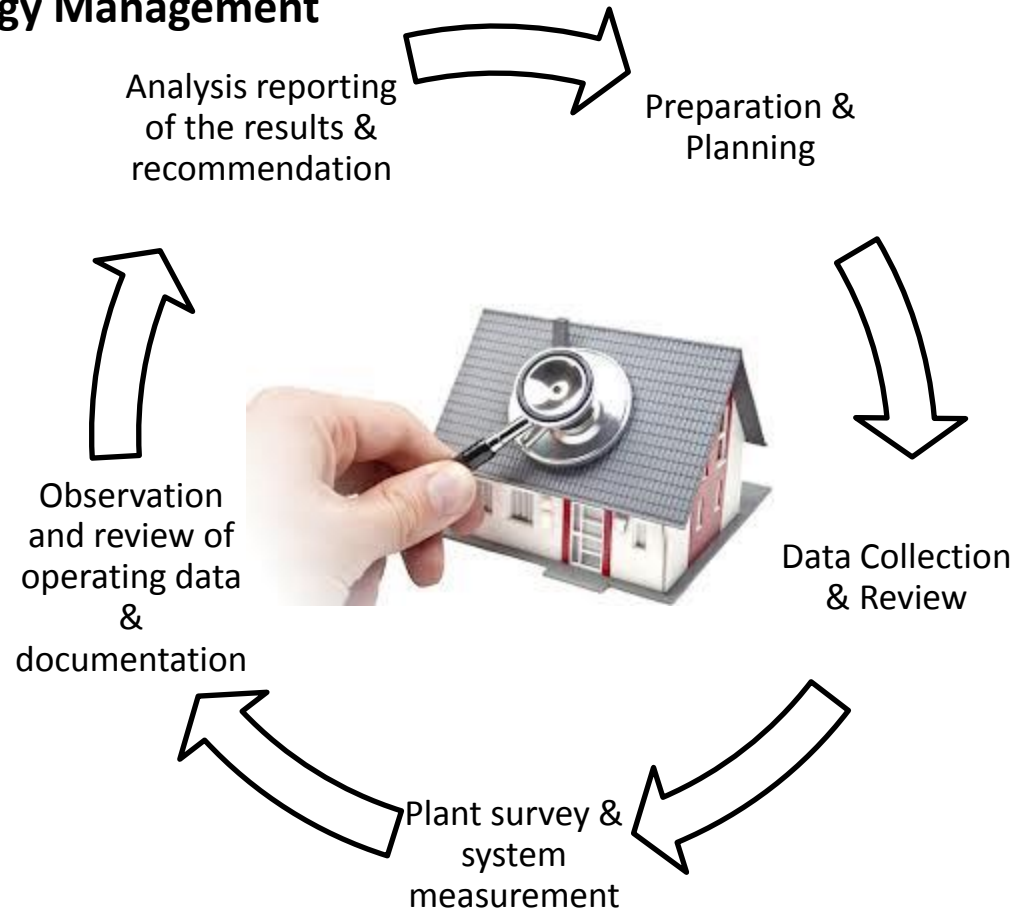
Energy Efficiency is the goal to reduce the amount of energy required to operate facilities of building. Sunsource provides complete consultancy of Energy Auditing, Energy Conservation Measures (ECMs) and Project Management for all sectors in order to achieve the goal. The implementation Energy Efficiency is based on MS1525 and ISO 50001.

With our in-house expertise (Energy Manager), we are able to offer a One-Stop Centre services for companies/installations who fall under Efficient Management of Electrical Energy Regulations (EMEER) 2008 which states “Installation which consumed or generate electrical energy for own consumption equal or more than 3,000,000 kWh for 6 consecutive months are mandate to comply with the regulation under EMEER 2008”.

Sunsource is one of the registered **Energy Service Company (ESCO)** members with Suruhanjaya Tenaga (ST)

Our Services

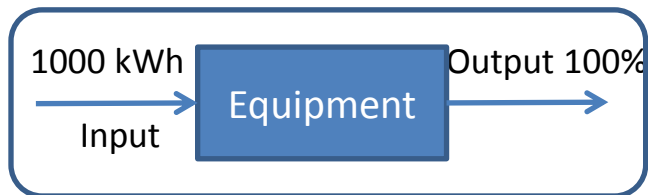
Energy Audit & Energy Management



Our Services

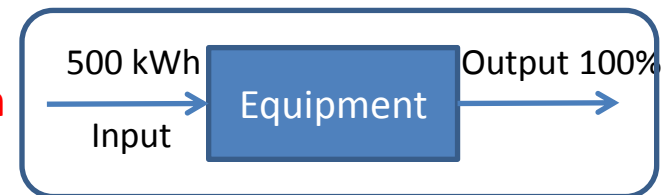
Performance Optimisation

Efficiency 60%



**After
Performance Optimisation**

Efficiency 97%

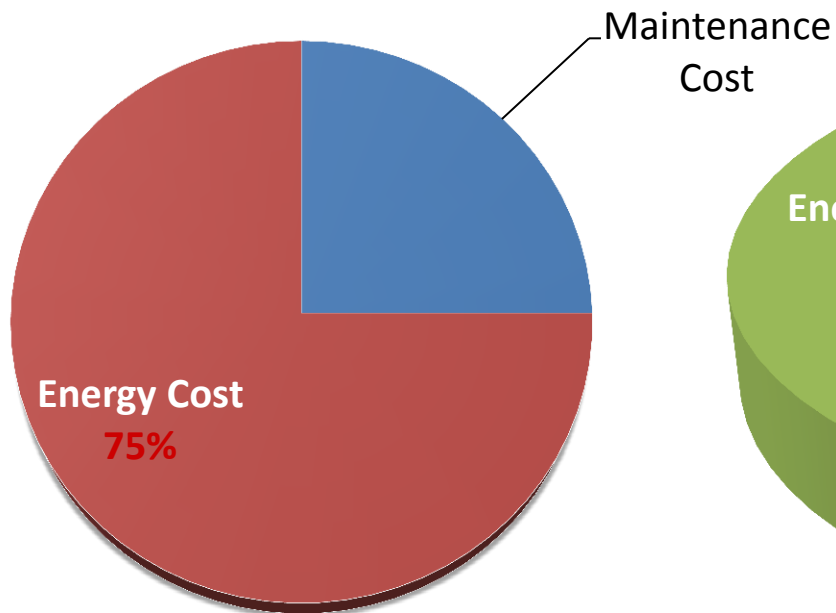


** A typical conceptual process*

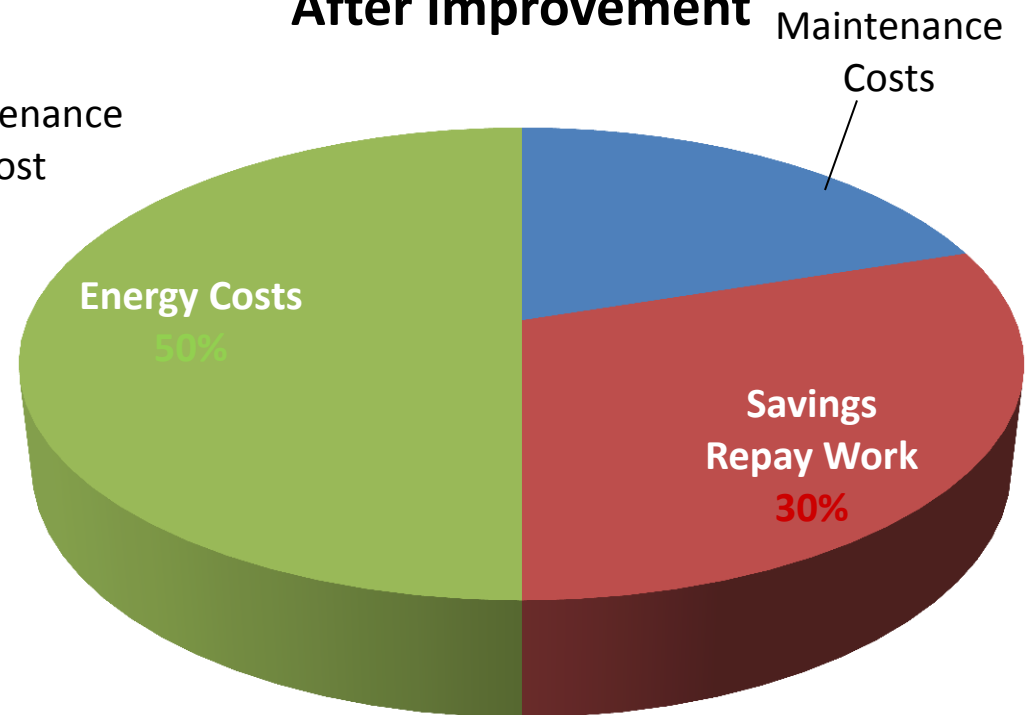
Our Services

Retrofitting

Before Improvement



After Improvement



Our Services

EPC Solutions Provider for RE

Sunsource covers **end-to-end turnkey project** development services from project feasibility analysis, project planning & initiation, managing approval applications from authorities, preliminary design, grid connections as well as testing and commissioning.

We offer integrated services for **cost optimisation** to our customers. In view of this objective, Sunsource applies reliable and creative energy solutions to provide a sustainable and innovative EPC services while leveraging on Sunsource's years of experience.

Sunsource's solutions ranged from rooftop setups to on & off grid connections. Our offerings are not limited to the delivery of projects but also the **operations & maintenance (O&M) of the systems.**



Our Services

Waste-to-Energy Power Generation

To achieve environmental sustainability and to minimize wastage of resources, Sunsource turns biogas generated from **waste into a precious renewable energy** source.

Biogas is biologically generated gas mainly consisting of **methane** which may originate from anaerobic wastewater ponds, anaerobic biomass digester tanks and etc. Sunsource collects the gas such collection systems may include a biogas storage tank in order to provide consistent flow of biogas into the prevailing flare or power generation system.

Power can be generated from biogas which is **supplied into a gas engine towards activating the turbine hence producing renewable electricity**.



Our Services

Water & Wastewater Treatment

Sunsource specializes on **treating high pollutant loading wastewater and contaminated water**. We have experience in design, build, supply and commissioning of wastewater treatment plants for various industries. In addition, Sunsource is capable of handling and implementing emergency contamination incidences management system and medium to long term wastewater treatment systems.

Our range of services covers ;

- Project evaluation / assessment
- Design and Build of systems
- Construction/Project Management Consultancy
- Operations and Maintenance
- System Upgrading works
- Training
- Wastewater Treatability Trial and Characteristics Study



PROJECT REFERENCES

ENERGY EFFICIENCY & RENEWABLE ENERGY

1. Project manager of 1MW plant of landfill gas-to-energy in Negeri Sembilan.
2. EPC contractor for medium scale RE project in Selangor (~15 MW).
3. Operation and maintenance works for medium scale RE Project in Selangor (~15 MW)
4. 2MW Biogas Grid Connection Contractor
5. Energy Management Consultancy for a commercial building in Section 9, Shah Alam
6. Energy Efficiency Audit & Professional Services for a commercial building in Jalan Ipoh, KL



PROJECT REFERENCES

WASTE MANAGEMENT

1. BioCell Waste Filing Project in Negeri Sembilan.
2. Design and build of the Mobile Effluent Treatment Plant for Ministry of Housing and Local Government, Malaysia.
3. Operation and maintenance for Mobile Effluent Treatment Plant for Jabatan Pengurusan Sisa Pepejal Negara (JPSPN).
4. Process Design for Leachate Treatment Plant at Negeri Sembilan for Jabatan Pengurusan Sisa Pepejal Negara (JPSPN).
5. Project consultant of Leachate Treatment Plant at Kuantan for Jabatan Pengurusan Sisa Pepejal Negara (JPSPN)



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