CONSULTING
ENGINEERS

Enmac Sekutu Sdn Bhd

Company Profile

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About Us

Enmac Sekutu Sdn Bhd is an established professional engineering consultancy firm based in Malaysia specialising in Mechanical and Electrical engineering services. Our company was founded in 1986 and incorporated as a Private Limited Company (Sdn Bhd) in 1996.

Our company serves as an one stop solution centre. We provide tailored solutions and we collaborate with relevant specialists to deliver results in adherence to the clients' needs and in compliance with authority standards. Our engineering personnel are registered Professional Engineers (PE) in their respective fields. We are a dedicated team of professionals from different disciplines working together to produce cost-effective results in a timely manner.

Our core services include :

- **Mechanical and Electrical Engineering Design**
- **Project Management and Consultancy**

We look forward to the exciting opportunities and challenges in the years ahead. We are committed to actively contribute to society and the environment.

Our company philosophy is :

"Ethical conduct, mutual trust and teamwork to complete projects on time and within budget."

Capabilities

Enmac Sekutu Sdn Bhd is capable in providing consultation services during all phases of industrial, commercial and residential projects. We have undertaken diverse roles ranging from initial concept planning to detailed engineering design, authority liaison and project management.

Our extensive industry experience has equipped us with valuable knowledge and know-hows to ensure smooth completion of projects. We routinely collaborate with specialists to ensure all aspects of projects are considered and serving the clients' best interests.

Supported by a team of professional engineers, draughtsman, technical assistants and other service oriented management and administrative staff, Enmac Sekutu is confident in adding value to your projects in a timely manner.

Our key capabilities are in :

Project Management and Consultancy

We assist clients in identifying project feasibility and provide services in project planning and development. Our accrued industry experience and in-depth knowledge of authorities liaisons are valuable asset for project development.

Engineering Design

We specialise in Mechanical and Electrical system design in compliance with authority requirements and technical standards.

Services

We provide a broad scope of Mechanical and Electrical engineering services with primary focus on building services and power delivery systems. We work closely with clients to understand their needs and determine the services best suited to their requirements. Our company also has experience in liaising with local authorities to satisfy design standards and public safety requirements. We have the technical expertise and know-hows to assist you in maximising your projects' potential.

Our design and consulting services encompass :

Project Management and Consultancy

We assess project feasibility and proactively engage specialists for optimum outcome and in compliance with authority standards.

- Client Engineer
- Independent Engineer
- Local authority submission and liaison
- Feasibility studies and cost analysis
- Network and engaging specialists
- Project planning and development
- Project Co-ordination
- Turnkey project structure and procedures
- Negotiation of Power Purchase Agreement

Building Services

We provide integral Mechanical and Electrical building services including:

- HVAC systems including Clean Room
- Fire Protection System
- Plumbing Network
- HT & LT Transmission and Distribution
- Main Switchboard and Distribution Boards
- Standby Generator Sets
- Luminaires
- ELV System
- Telecommunication
- Earthing and Lightning Protection System
- Horizontal and Vertical Transportation
- Liquefied Petroleum Gas (LPG) System

Specialised Systems

We specialise in design and integration of power delivery systems and industrial plant systems. We actively seek out new technologies and strategies which best serve stakeholders' interests. We are committed in delivering renewable energy programs to reduce our environmental impact.

- Clean Room Systems
- Power Plant design
- Co-generation plant and District Cooling
- Township Planning
- Waste Disposal System
- Oil and Bitumen Storage Facilities
- Palm Oil Mills
- Solar PV Plants
- Biomass and Biogas Plants
- Green Agriculture

Key Projects

Hospital and Medical Centres

Project Name	Klang Specialist Hospital for KPJ Healthcare (2012)
Project Description	Proposed integrated 300-bed hospital with full specialist facilities
Project Specification	• 6 levels of hospital beds and consultant offices • Building M&E services including electrical system, ELV system, fire fighting system, HVAC system, plumbing system, lift services, medical gas pipelines and building control system • Design specification to meet healthcare regulations
Role	Performed detailed M&E system engineering design and feasibility studies

Mawar Hemodialysis Centre (PHM), Seremban

Pharmaceutical Plants and Laboratories

Project Name	YSP Pharmaceutical Factory, Bangi (1992)
Project Description	Proposed pharmaceutical factory for YSP Group Sdn Bhd
Project Specification	• First MOH GMP-compliant pharmaceutical factory in Malaysia • Design specification to meet healthcare regulations
Role	Performed detailed M&E system engineering design and develop GMP guidelines in conjunction with MOH

Project Name	Kotra Pharma Sdn Bhd Pharmaceutical Factory, Malacca (1995)
Project Description	Proposed pharmaceutical factory for Kotra Pharma
Project Specification	• Building M&E services including electrical system, ELV system, fire fighting system, HVAC system and plumbing system • Design specification to meet healthcare regulations
Role	Performed detailed M&E system engineering design

Pharmaniaga Manufacturing Factory, Seri Iskandar, Perak

Consultant for Factory Extension

RAPID Package 14-1701 Main Control Buildings and Main Laboratory Buildings for PETRONAS, Pengerang

EPCC Design Consultant

Aromatic Gas Plant (KR II), Kertih, Kuala Terengganu

Consultant for Toyo Engineering Corporation

Overseas Projects

- HVAC system design for Cocoa processing plant in Côte d'Ivoire (2012)
- Engineering system design for Palm Oil Refinery in Mozambique (2012)
- Engineering system design for 45T FFB/hr Palm Oil Mill in Batik Nau, Bengkulu, Indonesia (2008)
- Engineering system design for 60T FFB/hr Palm Oil Mill in Seluma, Bengkulu, Indonesia (2008)
- Feasibility studies for 2 x 600 MW coal-fired power plant in Dominican Republic (2004)
- Township planning and engineering design for Nanyang Industrial Park in Huai Bei, Anhui Province, China (2002)
- Aircraft docking system M&E design for Thai Airways at U-Tapao Airport, Thailand (2000)

District Cooling System

40 MW KLIA2 District Cooling Plant, Sepang

PMC and Independent Engineer

The Curve Shopping Complex, Petaling Jaya

System design upgrade and extension works supervision

Colour Picture Tube Industrial Complex for Chunghwa Picture Plant Corporation, Subang Industrial Park

Detailed engineering design and feasibility studies

Bandar Baru Klang township, Klang

Basic engineering design based on preliminary load estimation

Combined Cycle Power Plant

1,750 MW Tunku Jaafar Combined Cycle Power Station, Port Dickson

Local submitting engineer for Mitsubishi Heavy Industries (MHI)

300 MW Gelugor Combined Cycle Power Plant, Penang

Local submitting engineer for Kawasaki Heavy Industries (KHI)

2 x 20MW Cogen Plant in Toray Industrial Complex, Prai, Penang

Local submitting engineer for Shinryo Corporation

3.2 MW Biogas Plant in Bukit Tagar under Renewable Energy Initiative

M&E System Engineering Design

Highway Projects

LED streetlighting along Kuala Lumpur - Karak Highway

Industrial / Chemical Plants

Chemical Plant Extension for Polyplastics Asia Pacific Sdn Bhd, Gebeng

Consultant for Mitsubishi Kakoshi Kaisha (MKK)

Ethylene Oxide and Ethylene Glycol (MEOG) Plant, Kertih, Kuala Terengganu

Consultant for Toyo Engineering Corporation

PVC Paste Plant construction and extension for Kaneka Sdn Bhd, Gebeng

Consultant for Mitsubishi Kakoshi Kaisha

Ethylene Petrochemical Plant, Kertih, Kuala Terengganu

Consultant for Toyo Engineering Corporation

Gas Processing Plant DPCU (II), Kertih, Kuala Terengganu

Consultant for Toyo Engineering Corporation

Bitumen Plant for Shell Malaysia Sdn Bhd, Tanjung Gelang

Process system design and steam piping system upgrade for Genting Sanyen Paper Mill, Kuala Langat

Ball Bearing Factory for SKF, Nilai

Aerospace Systems

Docking system in Hangar 6 for Malaysian Airline Systems (MAS), Kuala Lumpur International Airport

Docking system for Thai Airways, U-Tapao Airport

with Muhibbah Engineering as EPCC contractor

Malaysian Airline System Catering Centre for MAS, Kuala Lumpur International Airport

Commercial Complexes

Putrajaya 2G3 and 2G4, Putrajaya Precinct 2

Wisma MKH and Metro Inn Hotel, Kajang

Metro Point Complex, Kajang

SSTwo Mall in Petaling Jaya

as Client Engineer

Hotels and Resorts

Mandarin Court Hotel, Kuala Lumpur

Redang Beach Resort, Pulau Redang

as Design Engineer

Klang Executive Club for PNSB Acmar, Klang

Seri Malaysia Budget Hotels for JKR Holdings, various locations

as Design Engineer

Residential Projects

Ceriaan Kiara, Mont Kiara

Sri Kenny Condominium, Bukit Tungku

Sri Intan Condominium, Kuala Lumpur

Bandar Baru Klang Condominium for PNSB Acmar, Klang

Renewable Energy and Energy Efficiency

Our engagement in power plant design and power supply systems puts us in a unique position to promote sustainable development. We believe we can contribute by increasing utilisation of alternative energy resources and maximising resource efficiencies. We adopt a holistic approach in our projects and aim to incorporate various strategies to promote the sustainability agenda.

> *" Look and listen for the welfare of the whole people and have always in view not only the present but also the coming generations, even those whose faces are yet beneath the surface of the ground - the unborn of the future Nation."*

We have experience in designing and building palm oil processing plants which utilise biomass for power production. Zero waste disposal palm oil mill is an attainable goal with the current technology available. Our renewable energy projects and energy saving strategies include :

- 3.2 MW Biogas Landfill Power Plant design in Bukit Tagar
- Detailed design proposals for 60T FFB/hr and 45T FFB/hr Palm Oil Mills in Indonesia
- Incorporation of energy-saving Thermal Storage Tank (TES) for KLIA2 DCP
- Design proposal for energy-efficient LED street light along Kuala Lumpur - Karak Highway
- Participated in Malaysia SEDA FiT mechanism application for 5 MW solar PV farm

The Malaysian Government has taken a step towards joining the international initiative in renewable energy production. The Renewable Energy Act 2011 was passed to encourage growth in the renewable energy industry. Malaysia aims to have 13% share of renewable energy in the power mix by 2050.

Apart from clean energy production, increasing resource efficiency is crucial in minimising our environmental footprint. We have undertaken numerous retrofitting projects and integrated new energy-saving technologies in projects. Our personnel have also successfully completed Green Building Index Facilitator course.

We believe with the strong support from government policies, there is huge potential for renewable energy projects in Malaysia. We look forward to more active participation in renewable energy and green projects.