



### Biomass Power Plant Projects Consultant



- 1) Owner Engineering Services
- 2) Lender Engineer or Independent Engineering Services Clients:

Lenders (Banks or Financial Institutes), Investors, Funders, and/or Project Developers



### Owner Engineer & Consultancy Services for Biomass Power Plants



### Scope of Services



#### Studying and Project Development Phase:

- Preliminary Design, Conceptual Design
- Project's Feasibility Study
- Site Survey, Site Selection

#### Phase II



#### **EPC & Suppliers Selection & Contracting Phase:**

- - Tendering
- - Contractor / Equipments / Vendors Evaluation
- - Contracting

#### Phase III



#### Implementation Phase:

- **Engineering Approval**
- Monitoring and Supervision on Construction
- Commissioning, Performance Testing, Handover





Owner Engineer Services







### **Surat Thani Province**

- 6.5 MW EFB/Palm Fiber Fired
- ✓ Cogeneration Plant, Palm Oil Mill 60 T-FFB/hour







#### **Surat Thani Province**

- **W** Boiler Plant
- ✓ Capacity 50 ton/hour









**Surat Thani Province** 

✓ Fluegas Cleaning System (ESP)









# EFB Shred and Press for Fuel Preparation., Size and Moisture Reduction







#### **Surat Thani Province**

- 2.5 MW EFB/Palm Fiber Fired
- Cogeneration Plant, Palm Oil Mill 90 T-FFB/hour









#### **Surat Thani Province**

- 2.5 MW EFB/Palm Fiber Fired
- Cogeneration Plant, Palm Oil Mill 90 T-FFB/hour







### Lender Engineer or Independent Engineering Services Services for Biomass Power Plants



### Scope of Services

#### Phase I



#### Studying and Project Development Phase:

- Site survey & Site selection
- Raw material survey, Data and information gathering
- Technology review and selection

#### Phase II



#### **Suppliers Selection & Contracting Phase:**

- Provide services for power plant's permits and licenses
- Review and recommend for EPC contracts and consult owner for contract negotiation

#### Phase III



#### Implementation Phase:

- Site Visit, Monthly Meeting between EPC Contractor, Owner Site Engineer, Independent Engineer (Bank Engineer, etc.)
- Review milestones, deliverables, approval on supported document for loan payment, L/C issuance



# Lender Engineer or Independent Engineering Services



Lenders (Banks or Financial Institutes), Investors, Funders, and/or Project Developers



**CIMB Thai Bank Public Company Limited** 



**Export-Import Bank of Thailand** 



TMB Bank Public Company Limited



Maybank Kim Eng (Thailand) (MBKET)



Buriram Sugar Public Company Limited





Lender Engineer Services







**Surin Province** 

**№** 17 MW Rice Husk Fired Power Plant









#### Nakhon Ratchasima Province

9.9 MW Rice Husk Fried Power Plant







#### Nakhon Ratchasima Province

**№** 9.9 MW Rice Husk Fried Power Plant











#### Nakhon Ratchasima Province

**№** Boiler Fluegas Cleaning and Stack







#### Nakhon Ratchasima Province

#### Water Treatment Plant







#### Nakhon Ratchasima Province

**№** 9.9 MW Steam Turbine Generator







Chachoengsao Province



**Buriram Province** 

200,000 LPD Ethanol Distillation Plant



9.9 MW Wood Bark Fired
Power Plant









**Phrae Province** 



**№** 4.9 MW Woodchip Fired Power Plant







### **Phitsanulok Province**



**№** 4.9 MW Woodchip Fired Power Plant











- ▼ Technical Independent Engineer, Infrastructure Fund Setup
- 2 x 9.9 MW Bagasse Fired Power Plant







- **™** Technical Independent Engineer, Infrastructure Fund Setup
- 2 x 9.9 MW Bagasse Fired Power Plant







- ▼ Technical Independent Engineer, Infrastructure Fund Setup
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- Technical Independent Engineer, Infrastructure Fund Setup
- 2 x 9.9 MW Bagasse Fired Power Plant







#### Nakhon Ratchasima Province











#### Nakhon Ratchasima Province



2 MW Cassava Pulp Cake Biogas Power Plant









#### Nakhon Ratchasima Province









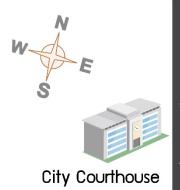




### **Green Energy Network**



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Department of International Trade

Cafe Amazon

Soi Ratchadaphisek 30

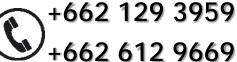
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Ratchada-Lat Phrao Intersection

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