

Our company provides engineering consultancy services to lenders (bank or financial institutes), investors, funders, and/or project developer as Project Consultant. Our services can start from project studying in technical and financial aspects, review & recommendations for power plant technologies, identify for specifications of main equipments, plant performances, review for project contracting, and then monitoring for project construction progress and plant performance acceptance test until project handover. Scope of services are classified as follows;

## Phase 1:

### Studying Phase: Project's feasibility study and review on project's descriptions

To study project descriptions (technical and commercial aspects), Conduct preliminary design, project descriptions and feasibility study for these following items.

- Project's design descriptions, major equipments to be used
- Project's technical performance in terms of power plant efficiency, fuel used and electricity output, and required necessary resources
- Review on site location, necessary area used, plant layout and allocation, connected grid and allowable load, logistic of fuel, etc.
- Review on fuel resources availabilities, supplied location and their transportation, backup and/or supplementary of fuel resources (if any)
- Conduct project's feasibility study for decision making.

## Project References



*17 MW Rice Husk Fired Power Plant,  
Surin Province*



*2.4 MW Empty Fruit Bunch/Palm Fiber Fired  
Power Plant, Surat Thani Province*



*9.9 MW Rice Husk Fired Power Plant,  
Nakhon Ratchasima Province*



### Phase 2:

#### **Contractor Evaluation/Contracting Phase: Prepare project tender documents, contractor evaluation and contracting.**

- Prepare tender documents for EPC contractor bidding process
- Review EPC proposal, EPC contract with technical and commercial details
- Evaluate major equipments specifications, capabilities and references, conformance of technical specifications with local/international technical and environmental standards
- Review on project's technical performance in terms of power plant efficiency, fuel used and electricity output, and required necessary resources based on guarantee of suppliers and EPC contractor
- Review on liquidate damage (penalties from unfulfilled performance against EPC contracts), guarantee and warranty condition of EPC contractor
- Review on project cost based on EPC contracts, and others out of scope of EPC contractor
- Support for project's permits and licensing process

### Phase 3:

#### **Implementation phase.**

- Review for project's final technical provision
- Review and approve for engineering works
- Conduct and review details of installation and construction as site engineer/owner engineer
- Review for project's monthly progress report, status of construction, fabrication, installation and erection of equipments
- Attend site visit and monthly meeting, update for the progression of plant's construction
- Review required documents and deliverables for payment
- Coordination to acquire project's permits and licenses acquiring and approval
- Services relating to mechanical & electrical works completion major equipments commissioning and testing
- Services relating to plant performance test and provisional plant acceptance (PPA)



*9.9 MW Wood Bark Fired Power Plant,  
Buriram Province*



*6.5 MW Empty Fruit Bunch/Palm Fiber Fired Power  
Plant, Surat Thani Province*



*200,000 LPD Ethanol Distillation Plant,  
Chachoengsao Province*