



COAL SUPPLY TO COAL-FIRED POWER PLANTS OF PETROVIETNAM

PETROVIETNAM POWER CORPORATION (PV POWER)



- Date of establishment: 17 May 2007;
- The 2nd power generator in Vietnam;
- 10 years production: 138 billion kWh;
- FY2016: 21 billion kWh, accounting for 12 – 13% of total national electricity output.

POWER GENERATION

OPERATING POWER PLANTS

No.	Power Plant	Type	Capacity (MW)	COD
1	Ca Mau 1	Gas-fired	750	2008
2	Ca Mau 2	Gas-fired	750	2008
3	Nhon Trach 1	Gas-fired	450	2009
4	Nhon Trach 2	Gas-fired	750	2011
5	Hua Na	Hydro	180	2013
6	Nam Cat	Hydro	3	2013
7	Dakdrinh	Hydro	125	2014
8	Vung Ang 1	Coal-fired	1,200	2014
Total capacity			4,208	

PETROVIETNAM COAL-FIRED POWER PLANTS



Long Phu 1



Song Hau 1



Long Phu 3



Thái Bình 2



Vung Ang 1



COAL DEMAND



No.	CFPP	Location	Capacity (MW)	COD	Coal demand (mtpa)
1	Long Phu 1	Soc Trang	1,200	2018	3.0 – 3.5
2	Song Hau 1	Hau Giang	1,200	2019	3.0 – 3.5
3	Long Phu 3	Soc Trang	1,800	2021	4.5 – 5.0
	Total		4,200		10.5 – 12.0

Specifications:

- CV gad 5,500 – 6,500; CV gar: 5,000 – 6,000;
- TM: max 28%; VM: 26 – 45%; Ash: max 15%; TS: max 1%;

COAL SUPPLY CHAIN

Coal sources



International Transportation



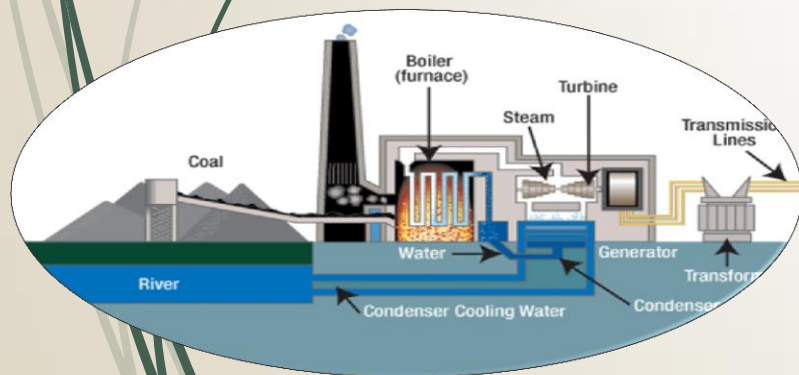
Coal Transshipment



Domestic Transportation



CFPP



DOMESTIC TRANSPORTATION



- Power plants are located in land, bank of Hau river;
- Only barges of upto 10,000 DWT can access river channel;
- PV Power plans to do transshipment at Go Gia anchorage, that can accept 100,000 DWT vessels;

CHALLENGES IN COAL IMPORTATION

1. PV Power meet difficulties in approaching to global coal market: seeking suitable sources, selection of capable suppliers, competition from other importers such as: China, India, Japan, Korea, Taiwan, etc...;
2. PV Power will have to perform transshipment (from ocean going vessel to barge) to supply coal to power plants, that will cause many risks and costs for coal importation.
3. Need legal guildlines and and stipulations on long term coal procurement and pricing mechanism, in order to make suitable coal procurement plan and recover all costs relating to coal importation.

THANK YOU !!!