

PT PLN (PERSERO) PUBLIC STATE ELECTRICITY CORPORATION Task: Public service obligation on electricity service As an electricity company System Interconnection: Java-Bali and the majority of Sumatera Others are still isolated Total installed capacity: 29,500 MW PLN: 26,000 MW (88.6%) IPP: 3,500 MW (11.4%)

PLN POWER PLANT DEVELOPMENT POLICY

- Non oil power plant development
- Non oil primary energy utilization (coal, natural gas etc) for PLN power plant
- Utilization of alternative-renewable energy sources (hydro power, geothermal, biomass, biofuel, solar, wind etc.) as long as in technically & financially feasible
- Reduce of oil consumption for power plant operation composition from 33 % (2007) to 2 % in 2018 (RUPTL-Electricity Supply General Plan 2009-2018)

OIL TO ALTERNATIVE ENERGY CONVERSION PROGRAM

Alternative Energy

- Renewable Energy utilities (geothermal, hydro, solar, wind)
- New Energy utilization (biomass, biogas etc)
- Coal gasification
- Biofuel/Biodiesel utilization

UTILIZATION OF RENEWABLE-ALTERNATIVE ENERGY FOR POWER PLANT

- Feasible in technical, economical and financial aspects
- As a substitution of diesel PP, to reduce oil consumption
- Majority from small scales in rural areas, especially for outside of Java island
- Developed by private participation and PLN as a partnership
- Availability of infrastructure support to reduce investment cost

Policies and Regulation on Renewable Energy for Electricity Generation

- 1. Regulation on Electricity Supply and Utilization (Government Regulation No. 26/2006)
 - As a revision of Government Regulation No. 10 Year 1989 in order to secure national electricity.
 - Relation with new renewable energy development:
 - Putting priority to utilize locally available renewable energy resources for electricity generation;
 - Process of procurement is implemented through direct selection (without tender)

Policies and Regulation on Renewable Energy for Electricity Generation

- Small Distributed Power Generation Scheme for Renewable Energy (Ministerial Decree: No. 1122 K/30/MEM/2002)
 - ☐ Developer : Small Enterprises
 - ☐ Capacity : ≤ 1 MW
 - ☐ Electricity Price by Utility:
 - > 60% x Utility's Production Cost, if connected to the low voltage grid
 - ➤ 80% x Utility's Production Cost, if connected to the medium voltage grid

Policies and Regulation on Renewable Energy for Electricity Generation

- 3. Medium Scale Power Generation Scheme for Renewable Energy (Ministerial Regulation: No. 002/2006)
 - Developer : Business Entity
 - Capacity : 1 < Cap ≤ 10 MW</p>
 - Electricity Price by Utility :
 - > 60% x Utility's Production Cost, if connected to the low voltage grid
 - > 80% x Utility's Production Cost, if connected to the medium voltage grid
 - Purchase Contract : 10 years and could be extended



Capacities, Contracts (PPA), Regional production cost and its declaration









