



## RENEWABLE ENERGY GRID INTEGRATION: INDONESIA's PERSPECTIVE

Andi Novianto

Presented at:

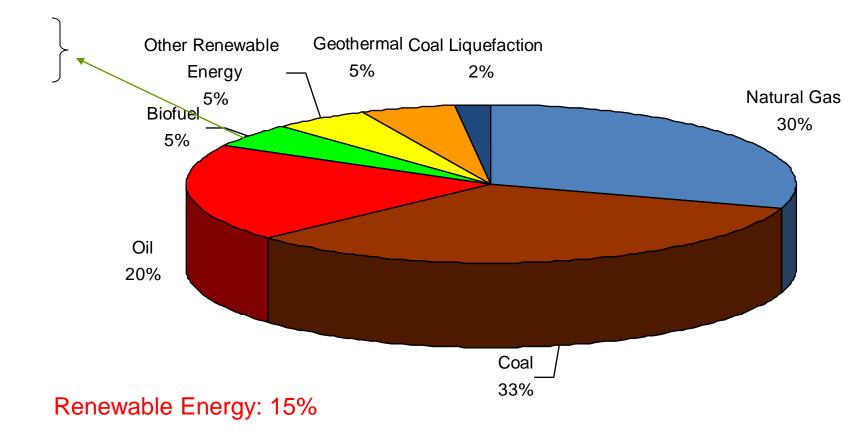
Workshop: "Addressing Grid-interconnection Issues in Order to Maximize the Utilization of New and Renewable Energy Resources"

Tokyo, 12 October 2010

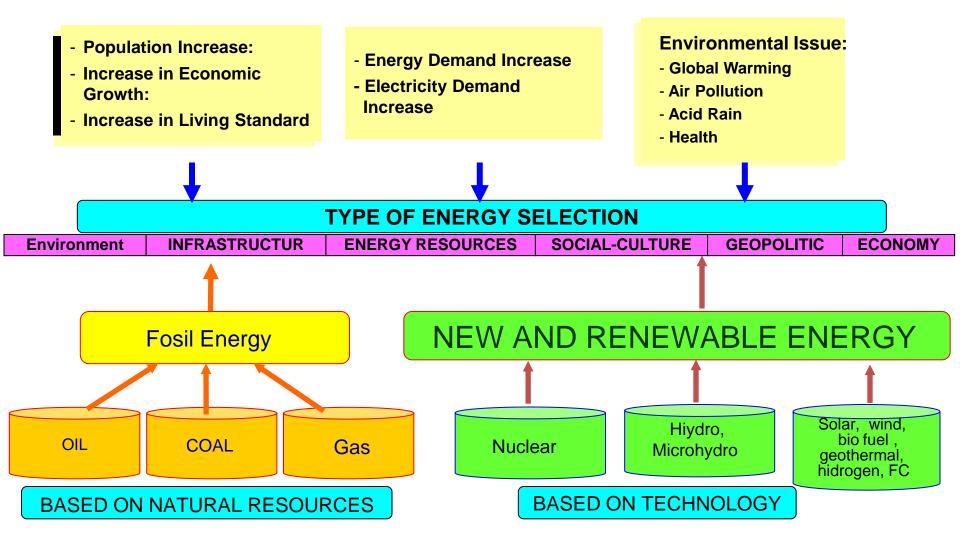
### **Background:**

- Limited energy reserves.
- Increasing energy consumption: 7% per year.
- Uncertainty of international energy prices.
- High domestic subsidy.
- Abundant unutilized renewable energy.
- Electrification ratio: 65% in 2009.
- Dependency on oil (unbalanced energy mix).

#### **TARGET ENERGY MIX 2025:**



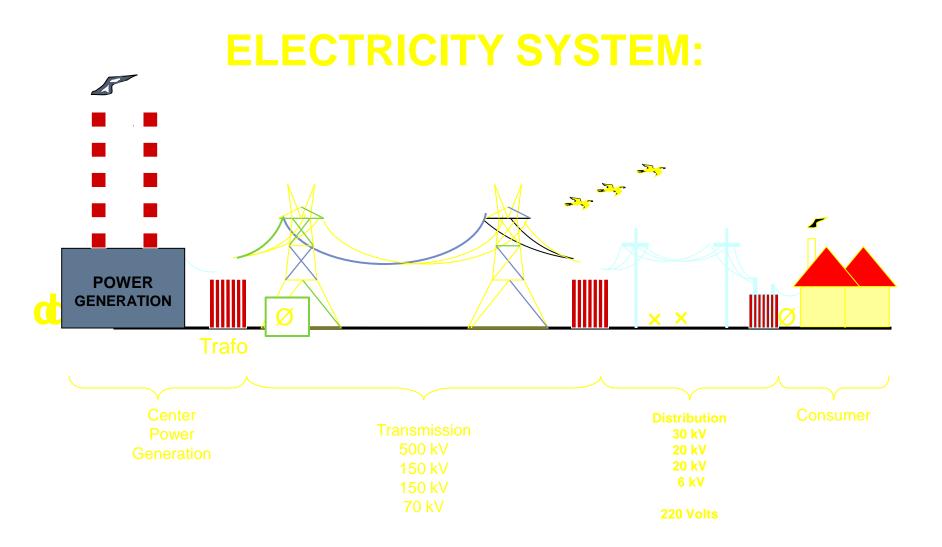
#### **NATIONAL ENERGY PLANNING to 2025:**

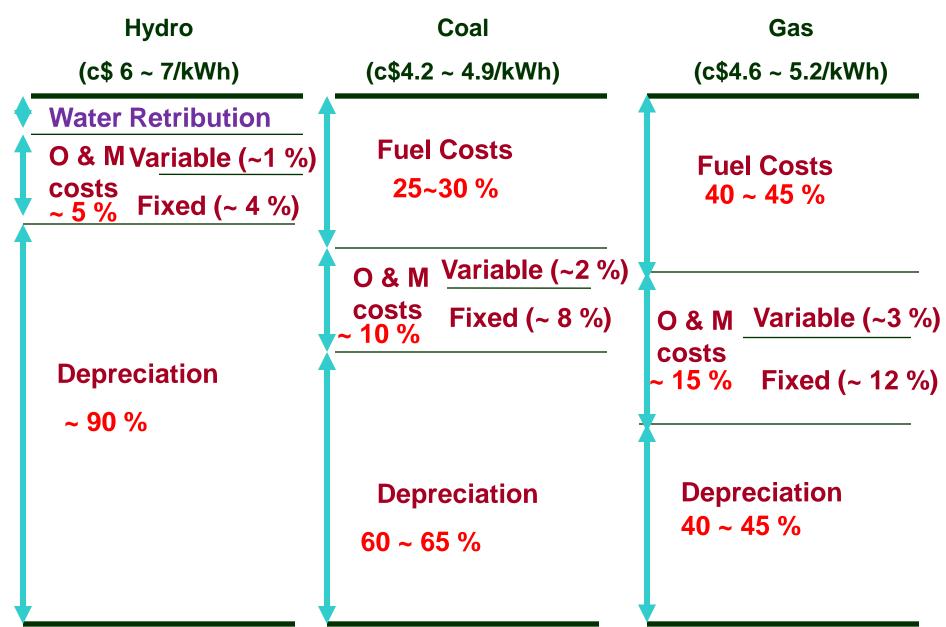


# RENEWABLE ENERGY POL

#### **POWER SECTOR CONDITION:**

- Installed Capacity of National Electricity. 30 GW with around 83% supplied by The National Electricity Company (PT PLN), 14% by Independent Power Producers/IPP) and 3% by private power utility.
- Power Generation sources coal (34.3%), gas (25.3%), oil (24.4%), hydro (12.3%), and geothermal (3.7%).
- Consumerof electricity: household(90%), public (6%), business (4%).





#### **CONCLUDING REMARKS:**

- RenewableEnergyhas alot of potency to be developed in Indonesia The Government of Indonesia has given priority in developing renewable energy, through incentives and regulations, mainly to substitute fossilfuel used in transportation and power generation
- Efforts need to be done to push the development of renewable energy, including providing incentives through fiscal policy, to stimulate grid integration, and to develop rural and remote areas
- Aspart of the international community, Indonesiasharesits concernon the environment and development issues by introducing cleanrenewableenergyto reduceCQ emission