



HAPUA

Heads of ASEAN Power Utilities/Authorities

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HAPUA

- **Under the Organization of ASEAN**
- **ASEAN Members : 10 Countries**
 - **Brunei Darussalam**
 - **Indonesia**
 - **Cambodia**
 - **Lao PDR**
 - **Malaysia**
 - **Myanmar**
 - **Philippines**
 - **Singapore**
 - **Thailand**
 - **Vietnam**



ASEAN – A Region of Growth

Population:

550 million

GDP Growth:

4.1%

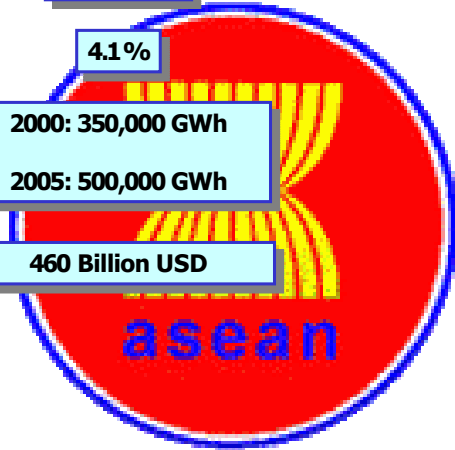
**Electricity demand
Forecast:**

2000: 350,000 GWh

2005: 500,000 GWh

**Electricity Sector
Investment Needs,
2001-2020**

460 Billion USD



ASEAN Plan of Action 2004-2009

- ASEAN Power Grid
- Trans ASEAN Gas Pipeline
- Coal Utilization
- Energy Efficiency and Conservation
- Renewable Energy
- Regional Energy Policy and Planning



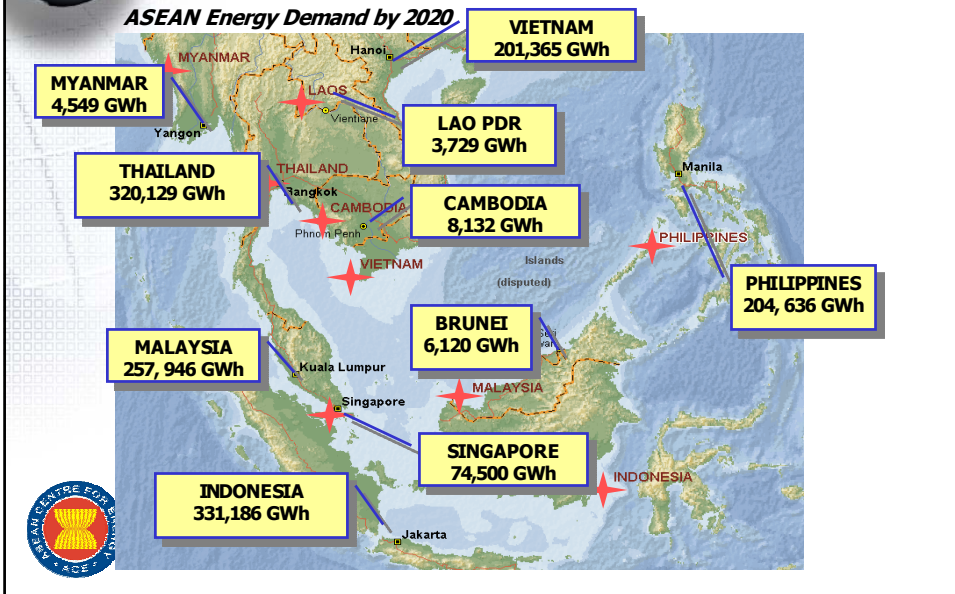


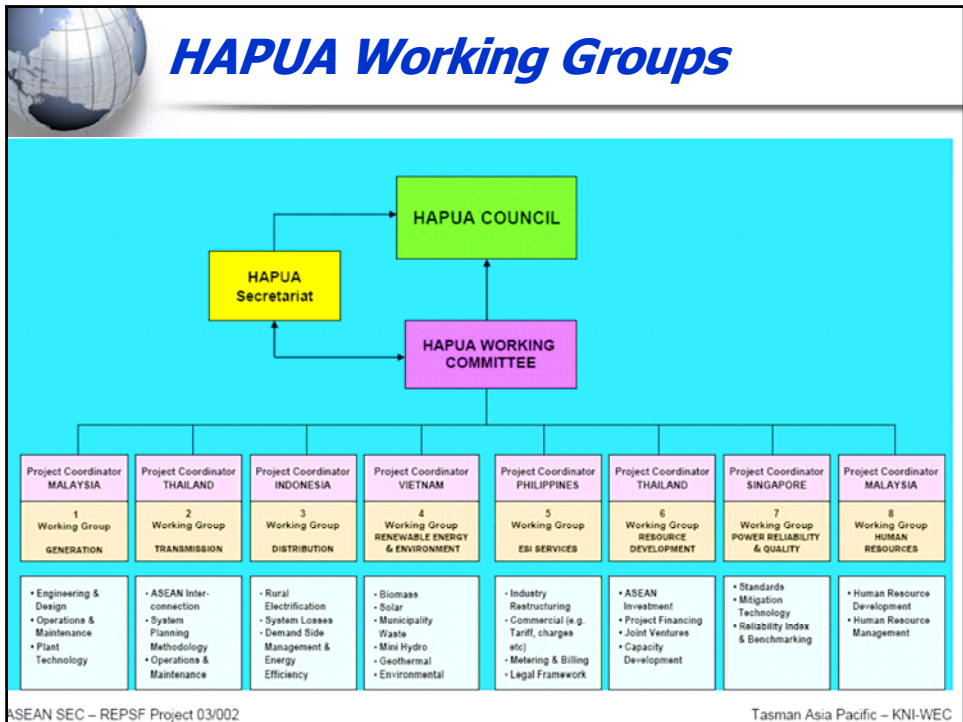
ASEAN Power Grid



By 2020, ASEAN Electricity Demand will reach 1.4 mGWh

ASEAN Energy Demand by 2020







HAPUA Objectives

- To support **developing electricity projects** in ASEAN
- To cooperate between **ASEAN** and **Others**
- To provide **trainings ,strategic planning** in ASEAN
- To act as a **forum for exchange of information** and **discussion** on issues related to electricity in ASEAN



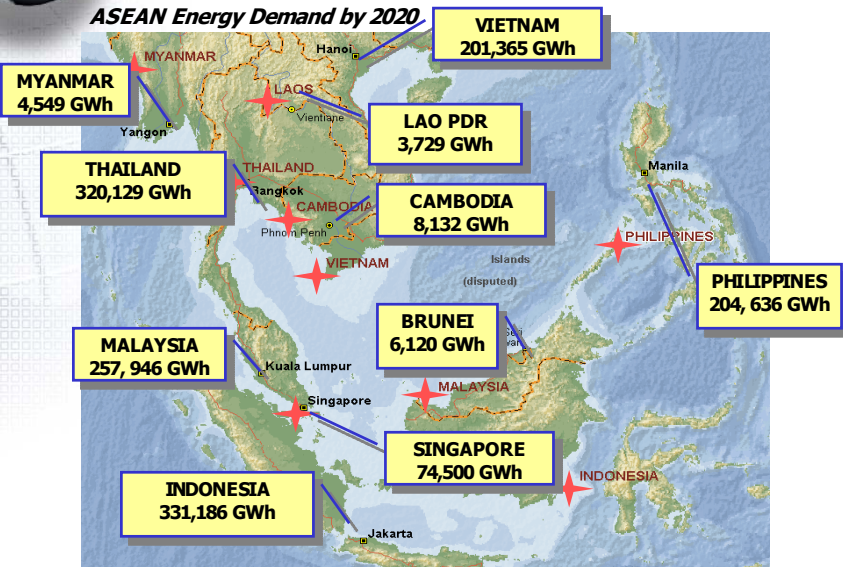
Target group of network

- Strengthening **interconnection** development
- Enhancing greater **private sector** participation in power development
- Encouraging **standardisation of equipment** for power development leading to manufacturing of these equipment within ASEAN;
- Cooperation in **joint development** and **utilisation of energy resources** for power generation in ASEAN; and
- Cooperation in **human resources development** in the power sector in ASEAN.



By 2020, Demand will Reach 1.4 M GWh

ASEAN Energy Demand by 2020



HAPUA Members Must Work Together to Leverage Opportunities

- Asian economy will lead growth of global electricity consumption
- Fossil fuel price will continue to be unpredictable
- ASEAN dependence on fossil fuel will continue





... *Regional Power Resources are not matched with the demand*



Power Demand in ASEAN countries, by 2015



Vision ASEAN 2020 Creating a Competitive Economic Region

- To create a stable, prosperous and highly competitive ASEAN economic region,
- To facilitate a free flow of goods, services, investments, capital, and equitable economic development
- Reduce poverty and socio-economic disparities





ASEAN Vision 2020 ***- Specific to Energy and Utilities***

- 1) To establish interconnecting arrangements for electricity, natural gas and water
- 2) To promote cooperation in energy efficiency and conservation, as well as the development of new and renewable energy resources.



KEY STRATEGIES ***– ASEAN POWER GRID***

- **Develop ASEAN Power Grid Interconnection**
- **Optimize Generation sector viz-a-viz indigenous resources**
- **Invite private sector participation**
- **Address barriers to interconnection**





KEY STRATEGIES ***– TRANS ASEAN GAS PIPELINE***

- **Implement the Trans ASEAN Pipeline MOU**
- **Undertake detailed feasibility studies for East Natural gas field development**
- **Implement 5 years work program**



KEY STRATEGIES - COAL

- Strengthen institutional and policy framework
- Promote Clean coal technology
- Promote private sector involvements
- Promote intra ASEAN coal trade
- Promote environmental assessment of coal projects





KEY STRATEGIES – ENERGY EFFICIENCY & CONSERVATION

- Information sharing and networking
- ASEAN energy standards and labeling
- Expand private sector involvement
- Capacity building
- Promote ESCO business
- Promote energy efficiency in transport sector



KEY STRATEGIES – NEW & RENEWABLE SOURCES OF ENERGY

- Develop policy and framework for development
- Promote development and contribution of RE in energy supply
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