

Overview of vietnam electricity development

Nguyen Manh Hung Dr.
Deputy Director of Energy
Department
Chairman of IPP projects.
Vietnam Ministry of Industry

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introduction of vietnam

- **Position:**
on Eastern Seaboard of the Indochina Peninsula
- **Area:** 330.991 km²
- **Population:** 81 million
- **Capital:** Hanoi
- **Climate:** tropical country
- **Main religion:** Buddhism
- **GDP:**

Vietnam energy sector

Role of Energy sector in VN economy:

In 2000, energy sector account:

12% GDP

25% government revenues

25% exports, 13% import

US\$ 261 million to State budget

Vietnam energy sector

Energy resources & potential exploitation for power generation:

<u>Energy resources</u>	<u>Pot.exploitation for power</u>
Coal: 3.88 bi.tons	6-8 mi. tons
Oil: 2.3 bi.tons (615-957bi.T proven)	
Gas: 1,207-1,507bi.m3 (600bi.m3 proven)	12 bi.m3
Tech. Hydropower: 50-70 bi.kWh	50-60 bi.kWh

Vietnam energy sector

Energy resources & potential exploitation for power generation:

Other energy resources

Uranium deposits:	300,000MT of U3O6
Geothermal resources:	200 - 400 MW
Biomass energy:	300 MW

Energy consumption:

Modern energy consumption:	440kgoc/capita
Electricity consumption:	309kWh/capita (in2000)
Rural electricity consumption:	<15 kWh/month

Current situation of Vietnam electricity development (2002)

Electricity production

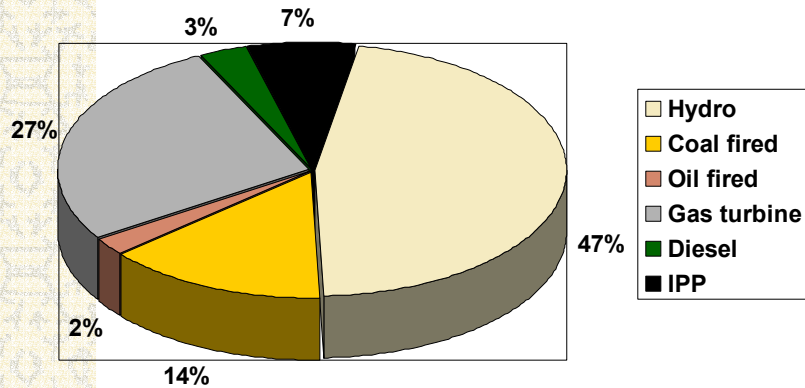
✦ average growth rate from 1995-2002:
13.7%/year

1995: 15.6 billion kWh

2002: 33.7 billion kWh

installed capacity	Pmax	per capita	Loss
8781 MW	6552 MW	379 kWh	13.4 %

Electricity generation structure



Electricity production

Transmission line: quantity capacity

500 kV	1,529.5 km	2,250
MVA		
220 kV	4,187.6 km	8,949
MVA		
110 kV	8,410.6 km	11,236
MVA		

Distribution line:

MVA	82,652 km	82,652
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Electricity consumption

Total power sale:	30.42	billion
kWh		
- Industry & construction:	12.75	billion kWh
- Households:	14.29	billion kWh
- Agriculture & Forestry:	0.49	billion kWh
- Commerce & Services:	1.37	billion kWh

VN electricity development plan 2006 - 2010

Target by 2010:

- Load demand: 93 billion kWh
- household coverage: 90%
- Power losses: 10%

Estimated load demand: growth rate:

	2006	2007	2008	2009	2010
bi.kWh	59,5	66,6	74,5	83,2	93

VN electricity development plan 2006 - 2010

Investment amount:

- Power generation:
 - EVN's projects: 8,425 MW
 - others': 1,949 MW
- Transmission line:

500 kV	400 km	4,200 MVA
220 kV	2,639 km	7,689 MVA




Government Policies for electricity development

- Develop various resources of energy;
- Diversify supplies of electricity and give priority to development of domestic resources;
- Encourage all kind of investment in power generation and grid;



Government Policies for electricity development

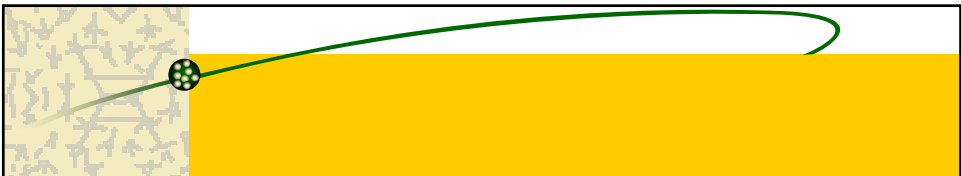
- Give subsidies for power projects in rural and mountainous areas
- Ensure the sustainability of energy development
- Formulate policies for a competitive energy tariff for establishment of an energy market
- Formulate Energy Science & Technology policies



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