



Country
Presentation
Sri Lanka

Regional Clean Coal Partnership Programme

September 16-19 of 2008
Kolkata, INDIA



SARI / Energy

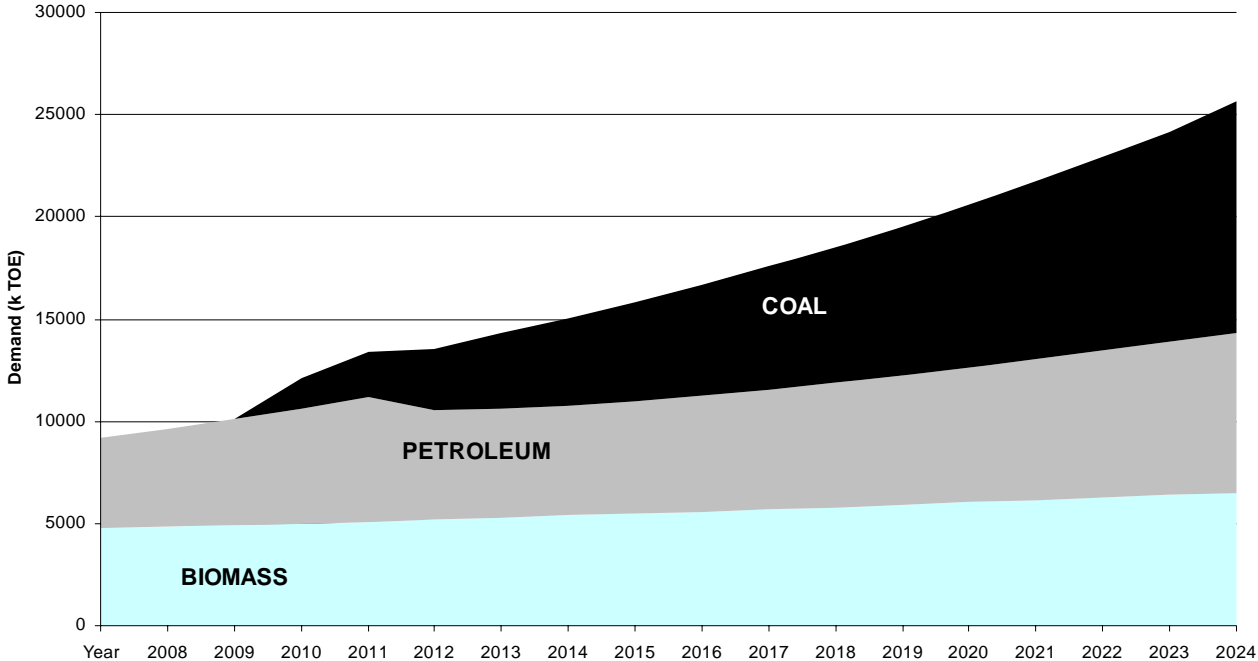
Energy Supply of Sri Lanka

- Indigenous primary sources
 - Hydro
 - Biomass
- Imported primary sources
 - Crude oil
 - Coal
- Imported secondary sources
 - Refined fuel (Diesel, LPG, etc.)
 - Electricity (from the Regional Grid in the future)

End User Energy demand in Sri Lanka

Aggregated Demand for Biomass, Petroleum and Coal

Source: Regional Energy Security Study - Sri Lanka Country Report



Electricity	7.8 %
Petroleum	36.6%
Biomass	55.6%

An Overview of the Electricity Sector in Sri Lanka



Ministry of Power and Energy

Public Utilities Commission of Sri Lanka

Sri Lanka Sustainable Energy Authority

Ceylon Electricity Board

Regulation

- Renewable Energy Development
- Implementation of Energy Efficiency /conservation measures
- Energy Security

Lanka Transformers Ltd.

- Generation
- Transmission
- Distribution of electricity

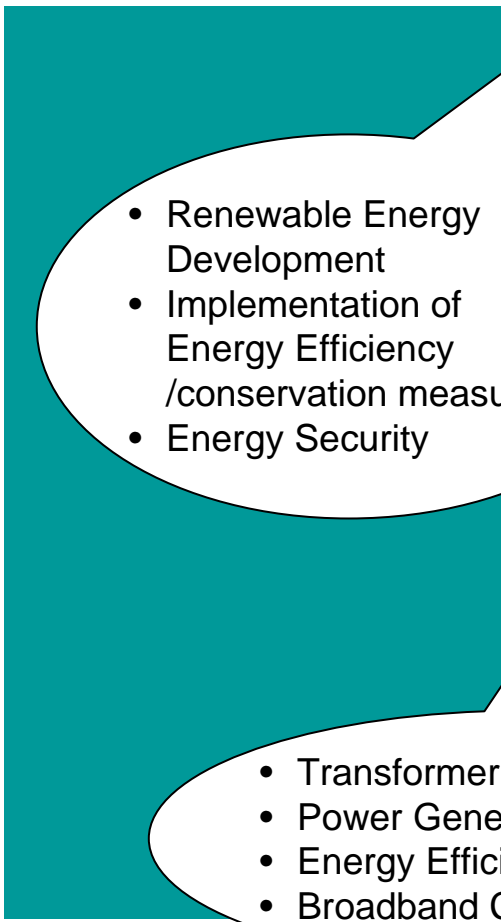
Lanka Electricity Company Ltd

Lanka Coal Company Ltd

- Transformer Manufacture
- Power Generation
- Energy Efficiency
- Broadband Communication

Distribution of electricity

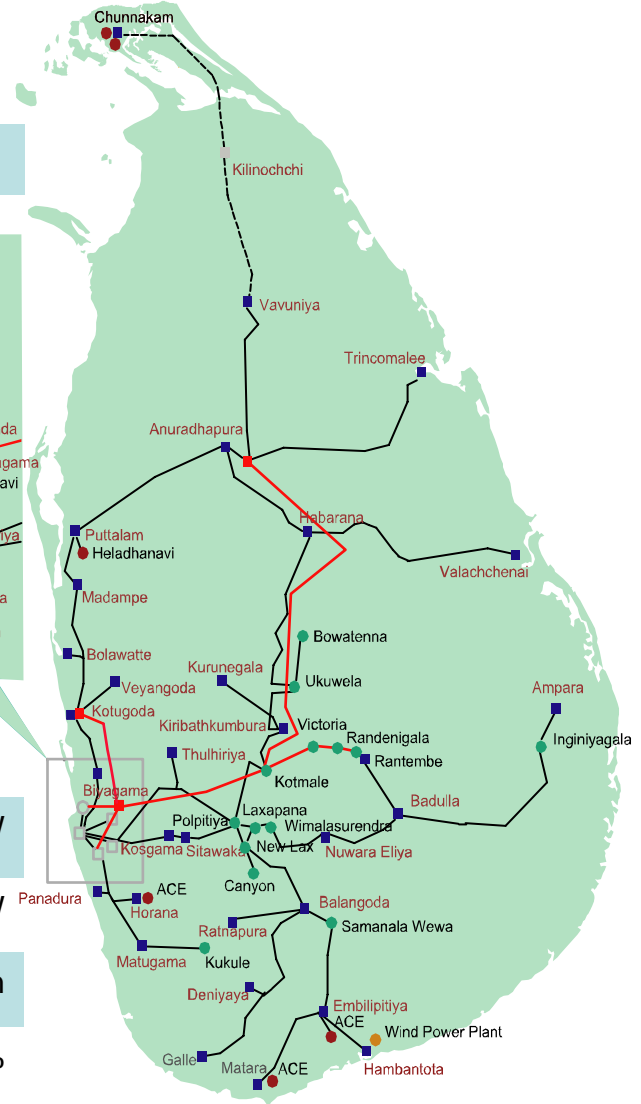
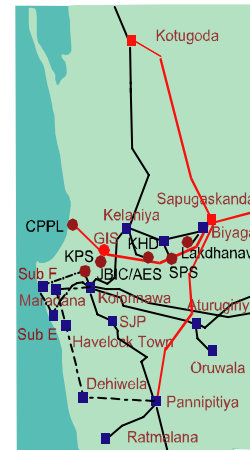
Coal Procurement and supply for Sri Lanka



An Overview of the Electricity Sector in Sri Lanka



The Network



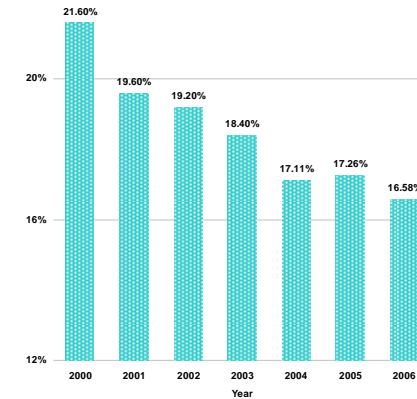
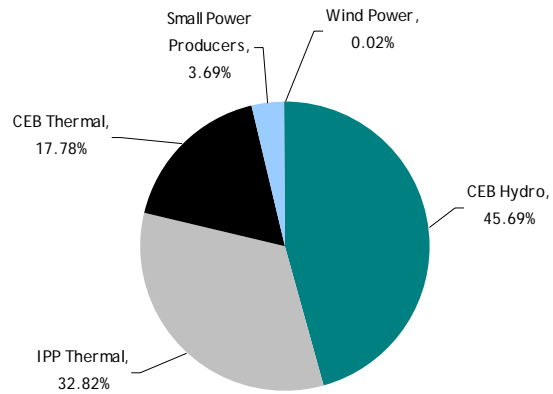
Total Installed Capacity 2,444 MW

Maximum Demand 1,922 MW

Annual Energy Generation 9,814 GWh

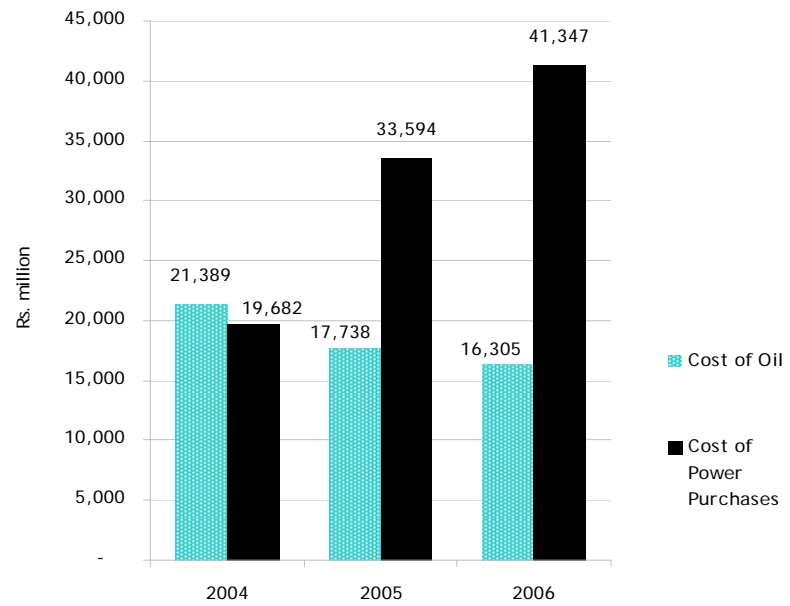
Number of households electrified 80 %

An Overview of the Electricity Sector in Sri Lanka



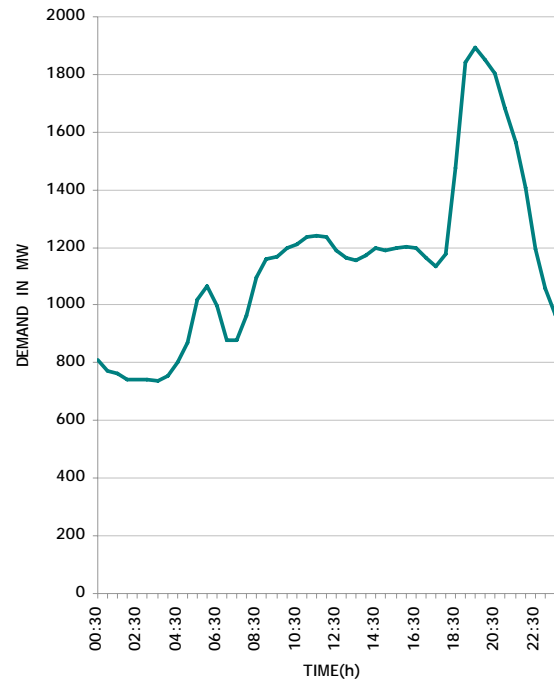
Annual Energy Generated

System loss



Annual cost of Energy Generated

Demand and supply of electricity in Sri Lanka



Daily Demand Curve



Total Installed Capacity	2,444 MW
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CEB Hydro	1,207 MW
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CEB Oil-fired	548 MW
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CEB Wind	3 MW
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IPP Oil fired	567 MW
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Renewable Small Power	119 MW
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Maximum recorded night-peak	1,922 MW
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Maximum recorded day-peak	1,400 MW
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Maximum recorded daily energy demand	29.3 GWh
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Annual Energy Generation 2007	9,814 GWh
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Natural energy resources in Sri Lanka



- Sri Lanka has no proven fossil fuel resources. However, exploration of off-shore oil/gas resources have now been initiated
- Total hydro power potential has been estimated to be in the range of 2,000 MW by various studies. Only about 650 MW to exploit
- High wind power potential has been estimated to be in the range of 6,750 MW
- Energy Plantation : Technical Potential about 1,200 MW

Renewable and
alternative energy
in
Sri Lanka

- Identification and development of renewable resources is an objective of the Sri Lanka Sustainable Energy Authority
- The Government actively promotes renewable energy development through private sector
- Concessions are made available to Small Power producers

Role of the Government in the Energy Sector of Sri Lanka



- The Government presently plays multiple roles of owner and operator of many energy sector entities
- Regulatory role of the Government is being re-defined
- Large scale Hydro Power generation to remain in Government control
- Transmission network is under Government Control
- Fuel Oil Supplies are under the regulatory control of the Government

Role of the Government in the Energy Sector of Sri Lanka



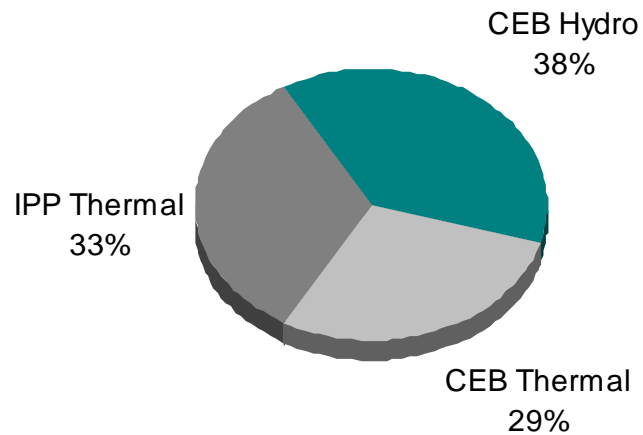
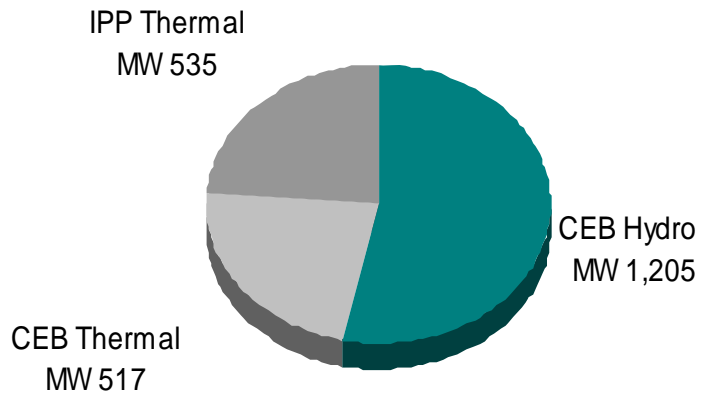
- Ten large independent power plants of total installed capacity of 567 MW are in operation
- 64 small renewable power plants owned by private sector with a total installed capacity of 119 MW are in operation, contributing 345 GWh in 2007

Government Policy on end use of Coal in electricity sector



Present Fuel mix

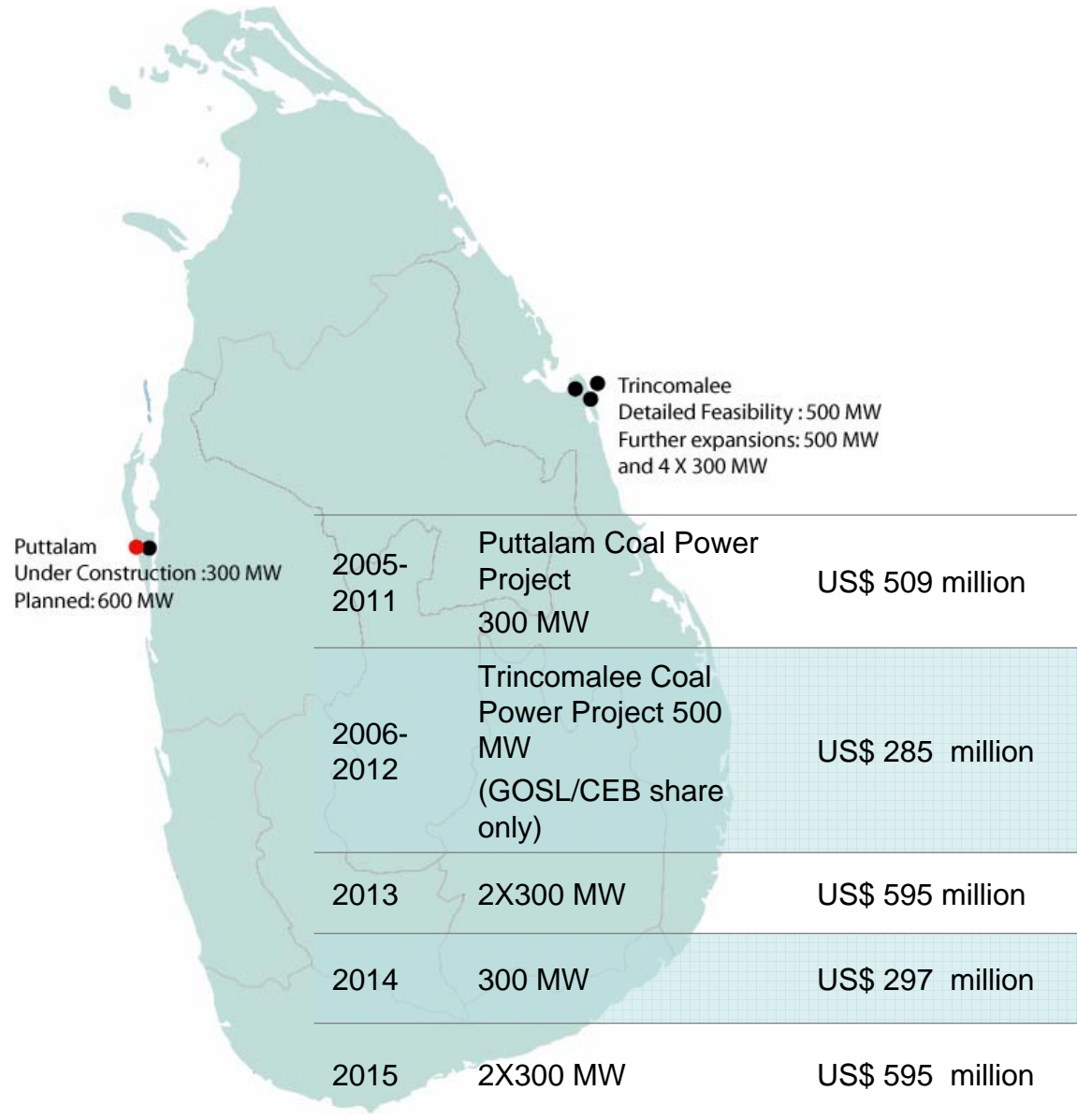
Source: CEB- Long Term
Generation Expansion Plan 2006



Installed Capacity

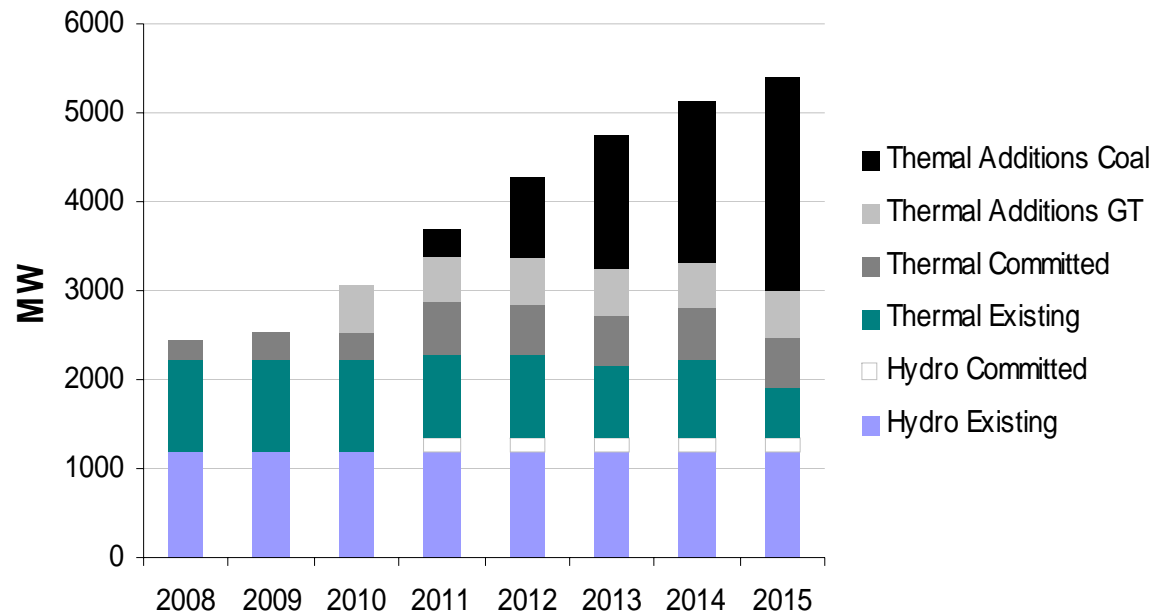
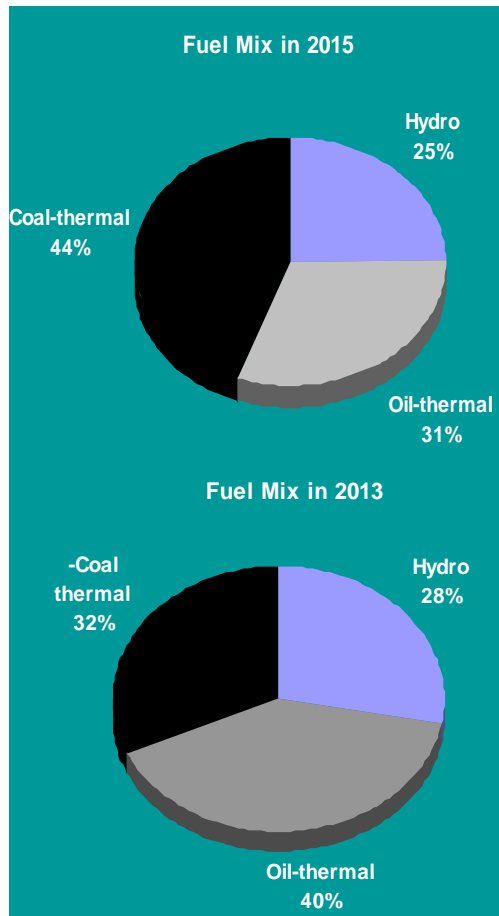
Energy Generation

Planned Investments in Coal Power



Planned Capacity additions

Plant/Year	2008	2009	2010	2011	2012	2013	2014	2015
Hydro Existing	1185	1185	1185	1185	1185	1185	1185	1185
Hydro Committed				150	150	150	150	150
Thermal Existing	1044	1044	1044	959	939	824	892	564
Thermal Committed	200	300	300	570	570	570	570	570
Thermal Additions GT			525	525	525	525	525	525
Thermal Additions Coal				300	900	1500	1800	2400
Total	2248	2528	3053	3688	4268	4753	5053	5394



Source: CEB- Long Term Generation Expansion Plan 2006

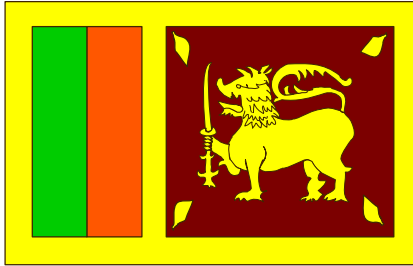
State interventions
in the energy
sector in the future



- Promotion of indigenous energy sources
- Energy Conservation and Management, R&D
- Technology Transfer
- Recognizes cross-border energy cooperation and trading
- Facilitating cross-border investments

Our Expectations

Harmonious interaction and networking among the South Asia regional players in the areas of Coal procurement, supply and utilization



The End

Thank

You