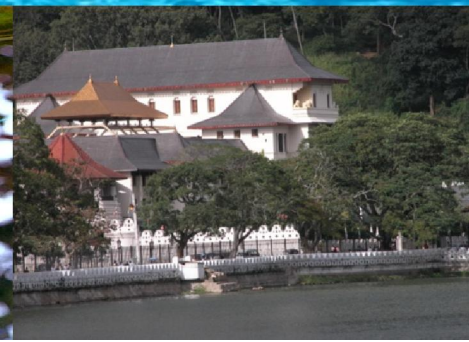
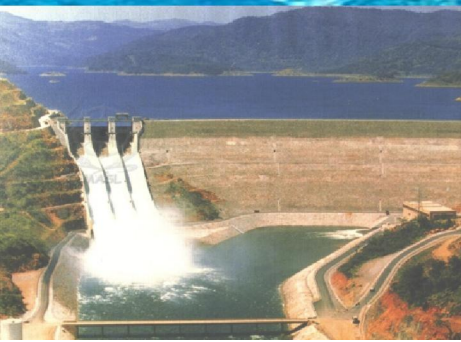


Country Presentation *of* *Sri Lanka*

M.M.N Munawwara - Chief Engineer (Const) Central Province
S.P.Pathirana – Deputy General Manager (Corporate Affairs)
Ceylon Electricity Board
Sri Lanka

**SAARC WORKSHOP ON ENERGY BASED LIVELIHOODS CONTRIBUTING OF
ECONOMIC EMPOWERMENT OF MARGINALIZED SECTORS AND WOMEN IN SRI
LANKA**





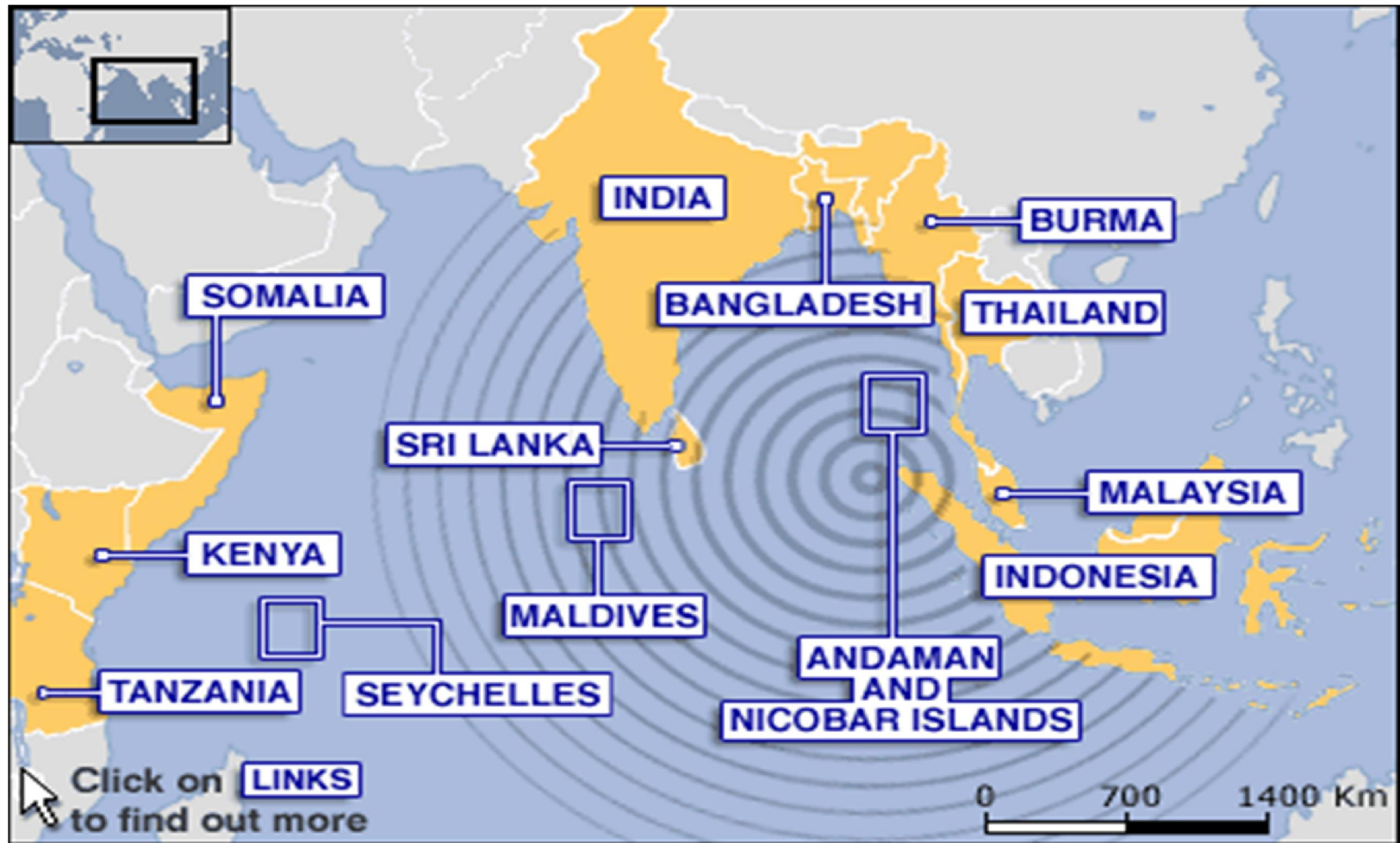
Sri Lanka

Situation of energy in relation to Women and Marginalized Groups

**SAARC Workshop on
Energy Based Livelihoods Contributing to Economic
Empowerment of the Marginalized Sectors and Women
in the SAARC Region**

**M.N.M Munawwara - Chief Engineer (Const) Central Province
S.P.Pathirana – Deputy General Manager (Corporate Affairs)
Ceylon Electricity Board
Sri Lanka**

Countries hit by the tsunami - 26th December 2004





Sri Lanka



- Latitude 5-10 N
- Longitude 79-82 E
- Area : 65, 606 km²



Climate



- **Tropical**
- **Temperature 24 - 30°C**
- **Humidity 60 - 90%**



Rain Fall

- **Two Monsoons**

North-East - Dec. to Feb.

South-West - May to Sep.

- **Average Rain Fall**

Wet Zone 2425 mm

Dry Zone 1450 mm





Physical Features

- Costal Plains
 - Central Hills
- Highest peak 2,524m
- About 100 rivers flow radially





Natural Resources



- Gem Stones
- Minerals
- Sandy Beach about 1600km
- About 100 rivers
- Tropical Forests
- Inland lakes
- Biological diversity





Population



- **About 20.2 Million**
- **Ethnic Structure**
Sinhalese 74% Tamil 18%
Moor 7% Others 1%
- **Religions**
Buddhist 69% Muslim 8%
Hindu 7% Christian 6%
- **Literacy Rate 89%**



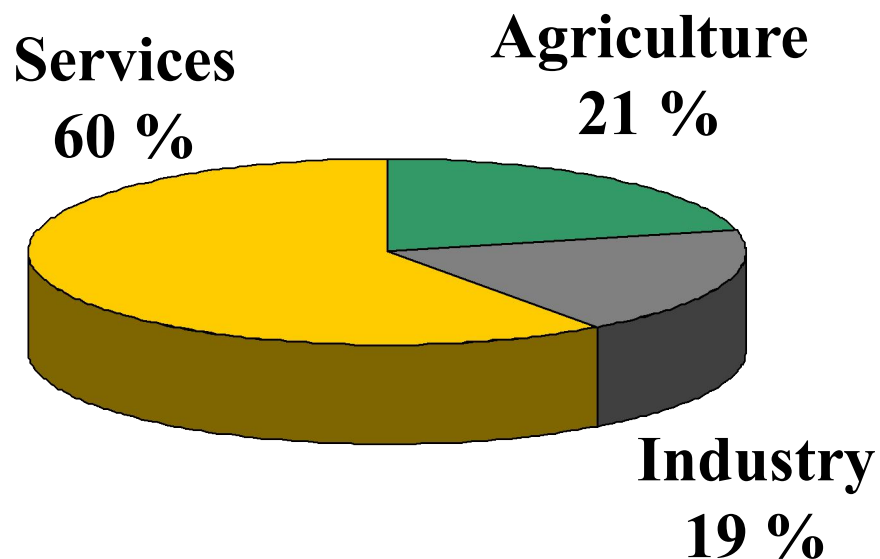
Economic Indicators

- **GDP** **US\$ 39.6 Billion**
- **GDP real growth rate** **6 %**
- **GDP per capita** **US\$ 1972**
- **Population below US\$ 2/day** **45.4 %**
- **Inflation rate** **9 %**
- **Labour Force** **8 Million**

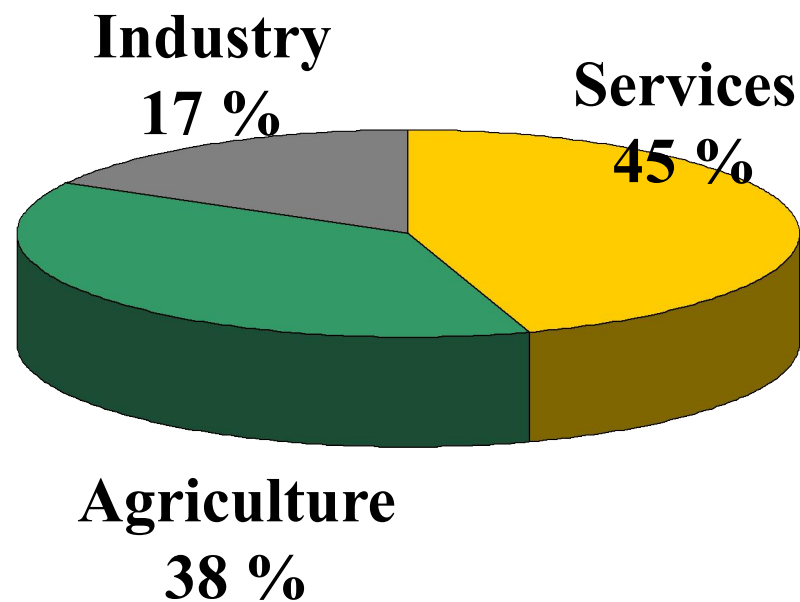


Economic Indicators

GDP composition by sector



Labour Force by occupation





Government of Sri Lanka
Ministry of Power and Energy

GOSL Policy
Directions

Public Utilities Commission
of
Sri Lanka



CEB Generation
Licence GL

Licensing



CEB Transmission
Licence TL

Independent Power Producers

Licensing

Small Power Producers



CEB Disribution
Licence DL 1



CEB Disribution
Licence DL 2



CEB Disribution
Licence DL 3

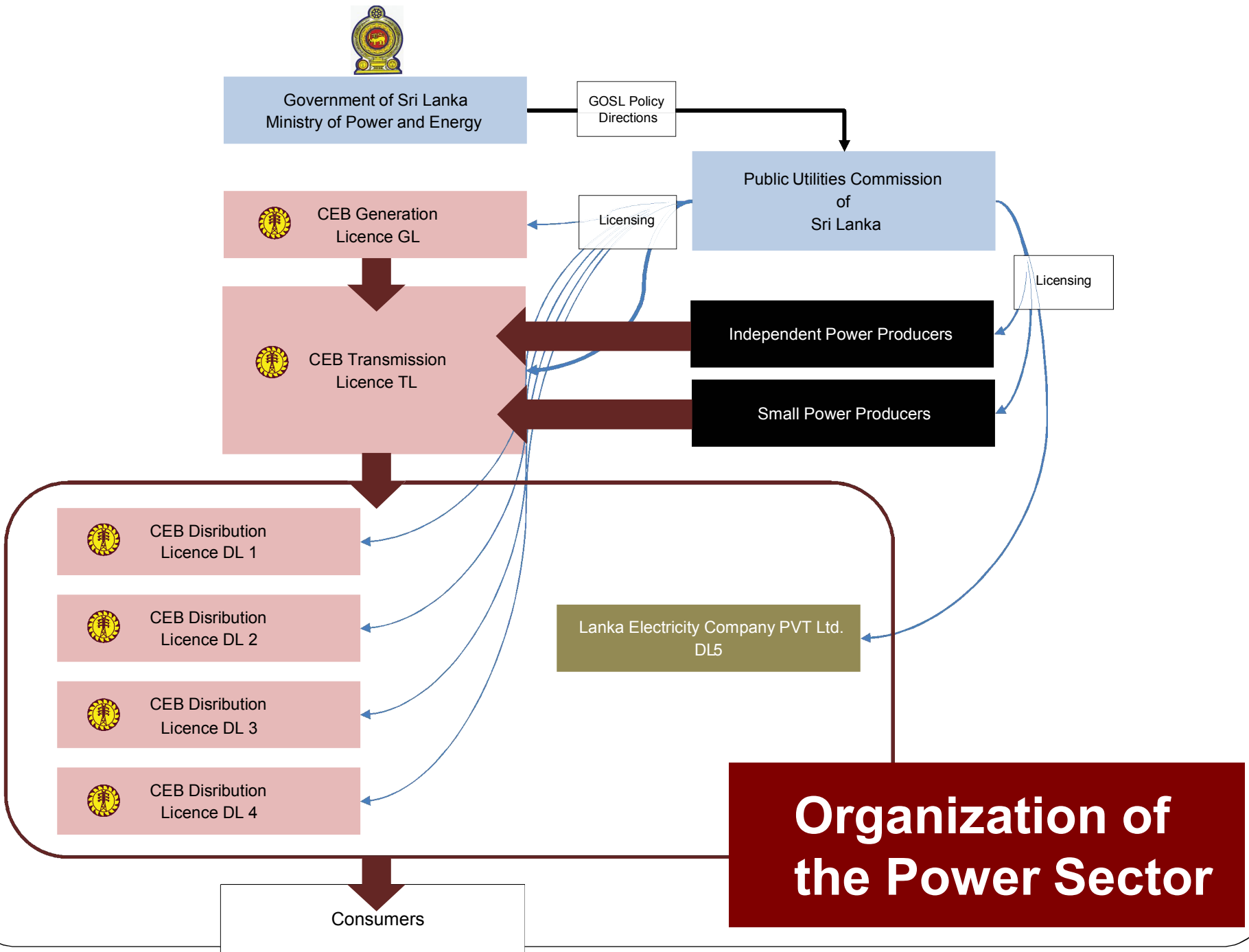


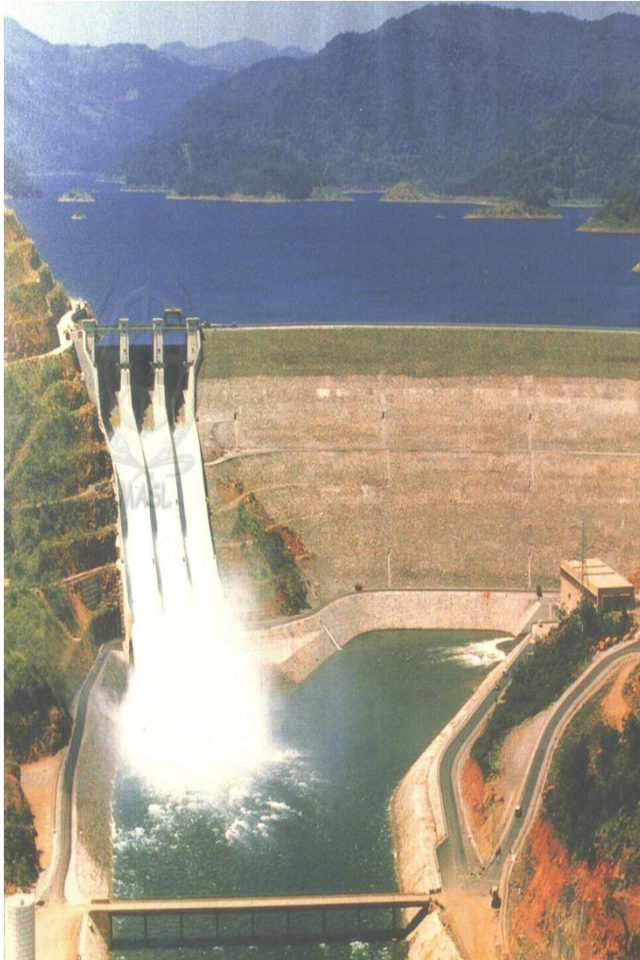
CEB Disribution
Licence DL 4

Lanka Electricity Company PVT Ltd.
DL5

Consumers

**Organization of
the Power Sector**





Ceylon Electricity Board

- **Government Organization**
- **Established in 1969**
- **Responsible for**
Generation
Transmission
Distribution

Electricity - 2014



- **Installed Capacity 4050 MW**
 - **Coal 900 MW**
 - **Thermal Power – 1335 MW**
 - **Hydro Power – 1375 MW**
 - **Renewable – 442 MW**
- **Maximum Demand 2152 MW**
- **Gross Generation 12357 GWh**
- **38% Domestic & 39% Industries 20% Commercial**
- **System Energy Loss 10.5%**
- **No. of Consumers 5.5 Mn**
- **Household Electrified 98.4%**

Electricity Data for 2014

❖	Access to Electricity	- 98.4%
❖	Elec. Consumption per Capita	- 519 kWh
❖	Avg. Cost per unit (at selling point)	- 19.97 Rs/kWh
❖	Avg. selling price	- 18.50 Rs/kWh

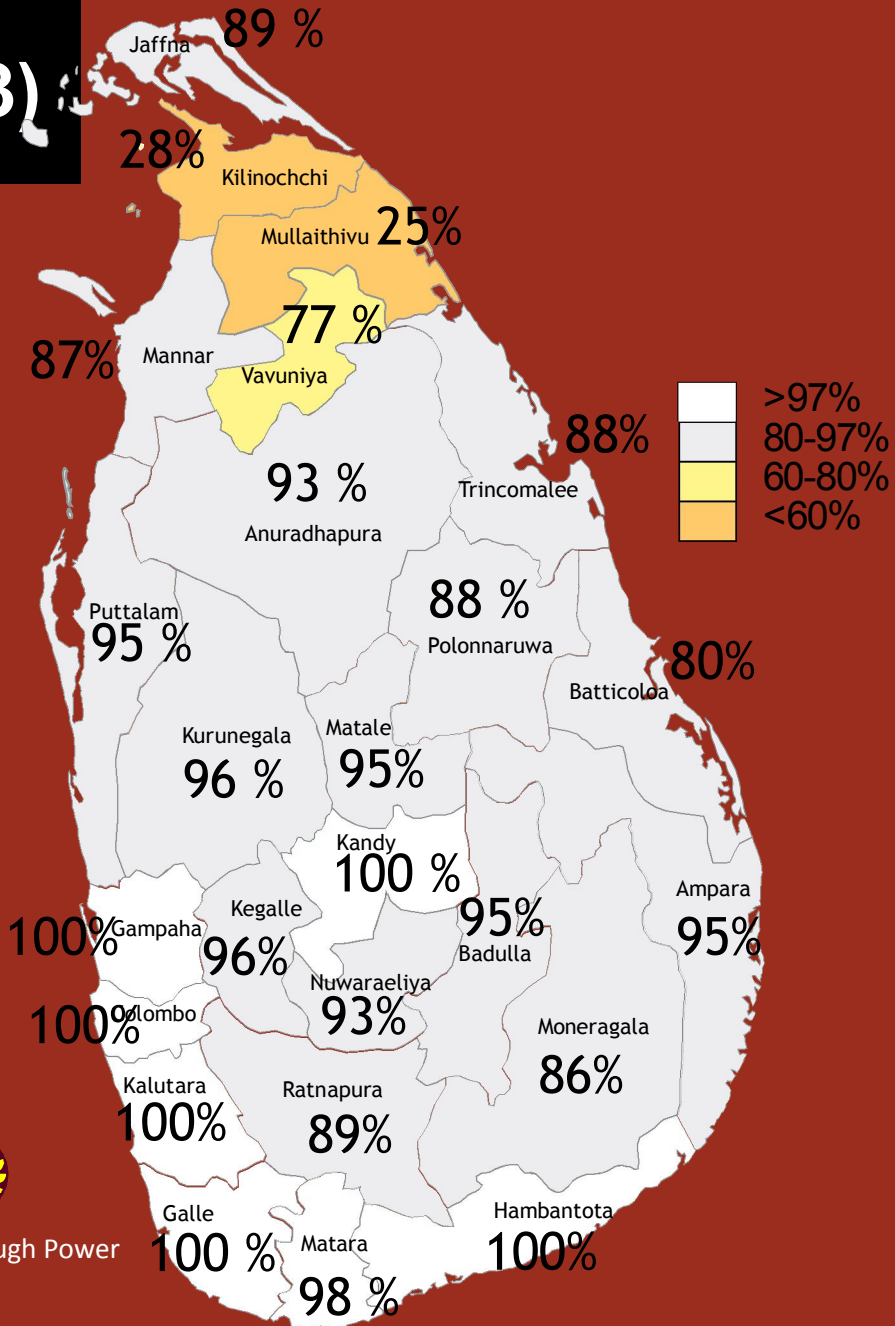
Enhanced accessibility(2013)

Electrification Level in December 2014

98%



Enrich Life through Power



Present Transmission Network -2014

❖ Transmission voltage levels

- 220 kV
- 132 kV

❖ Transmission Lines/Cables – 2348 km

- 220 kV 502 km
- 132 kV 1846 km
 - OH 1796 km
 - UG 50 km

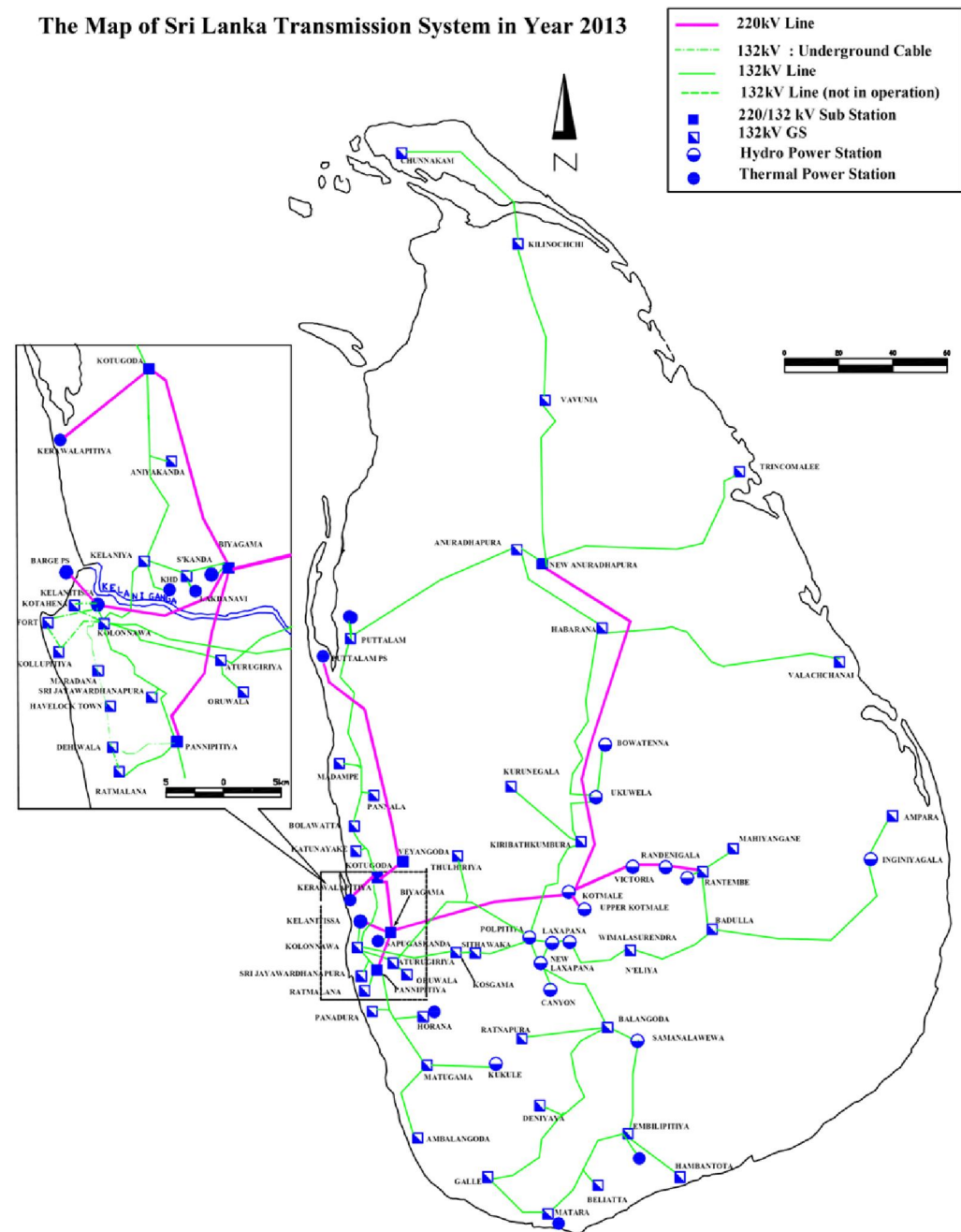
❖ Grid Substations No | MVA

- | | | |
|-----------------|----|------|
| ▪ 132/33 kV | 48 | 3045 |
| ▪ 220/132/33 kV | 5 | 2100 |
| ▪ 220/132 kV | 2 | 405 |
| ▪ 220/33 kV | 1 | 70 |
| ▪ 132/11kV | 5 | 369 |



2014 Sri Lankan Transmission System

The Map of Sri Lanka Transmission System in Year 2013



Sri Lanka Economy and Electricity

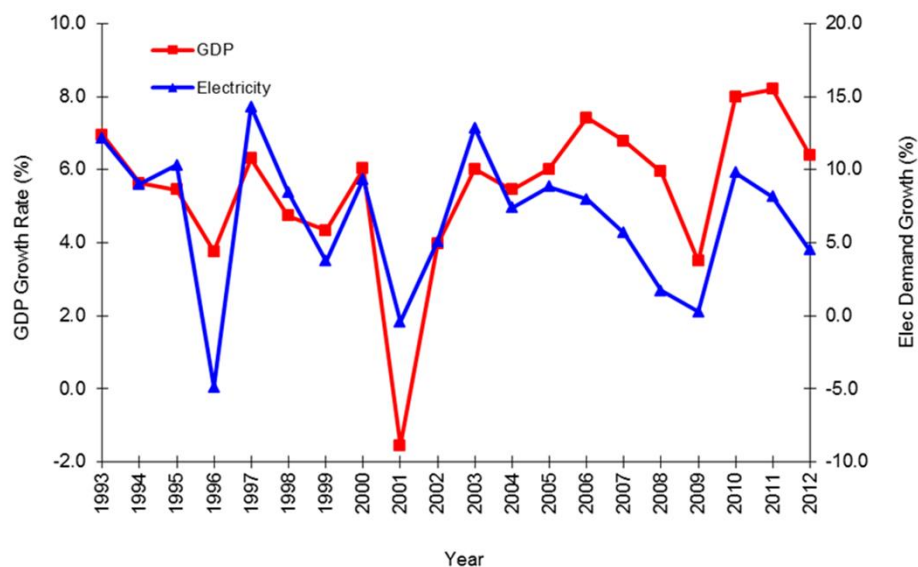
Sri Lankan Economy

Demographic and Economic Indicators of Sri Lanka

	Units	2008	2009	2010	2011	2012	2013	2014
Mid-Year Population	Millions	20.22	20.45	20.65	20.87	20.32	20.483	20.675
Population Growth Rate	%	1.0	1.1	1.0	1.0	1.0	1.0	n.a
GDP Real Growth Rate	%	6.0	3.5	8.0	8.2	6.3	7.2	7.4
GDP /Capita (Market prices)	US\$	2,014	2,057	2,397	2,836	2,922	3,283	3,625
Exchange Rate (Avg.)	LKR/US\$	108.33	114.94	113.06	110.57	127.60	132.05	133.37
GDP Const 2002 Prices	Mill LKR	2,365,501	2,449,214	2,645,542	2,863,854	3,047,277	3,266,041	3,506,227

Source: Annual Report 2014, Central Bank of Sri Lanka

Electricity and Economy



Forecast of GDP Growth Rate in Real Terms

Year	2012	2013	2014	2015
GDP Growth Rate (%)	7.2	8.0	8.3	8.5

Source: Annual Report 2011, Central Bank of Sri Lanka

ENERGY DATA - 2013

- Total Energy — 11,125 ktoe
 - Bio Mass — 4814 ktoe
 - Fossil Fuels - 4582 ktoe
 - Hydro - 1442 ktoe
- 56% Total Energy – Bio Mass+ Hydro
- 44% Fossil Fuel - Import

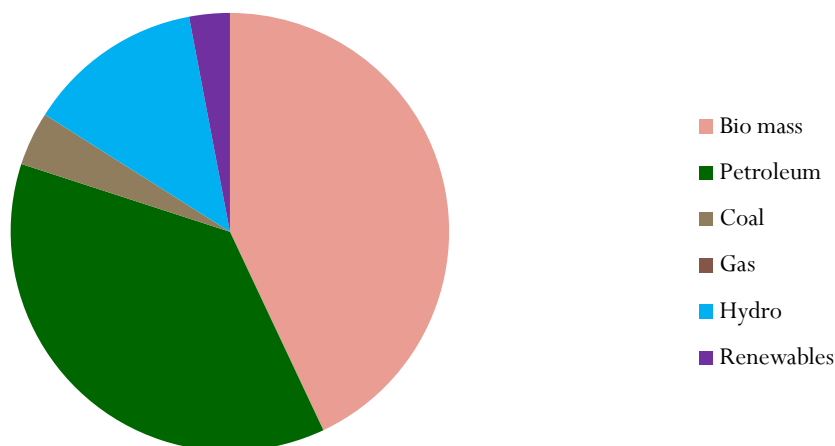
Major Challenges in the Energy sector in Sri Lanka

- Increasing demand trends across all sub – sectors
- Energy Wastage and losses
- Unsustainable consumption patterns
- Large Investment need for infra structure development in the power and energy sector
- High Cost Electricity
- 100% depend on imported oil for the transport sector

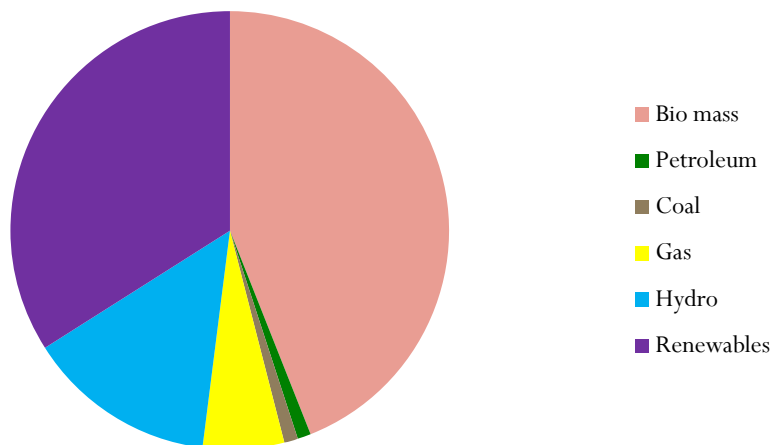
The Power & Energy Sector of Sri Lanka
is looking forward to an energy self
sufficient nation by 2030 and

Total Energy Supply by Source

Primary Energy Supply 2013



Primary Energy Supply 2030





Thank You

