



CEYLON ELECTRICITY BOARD

Sri Lanka Country Presentation

**Transmission and Generation Planning Branch
Transmission Division
Ceylon Electricity Board
Sri Lanka**

August 2017



INTRODUCTION

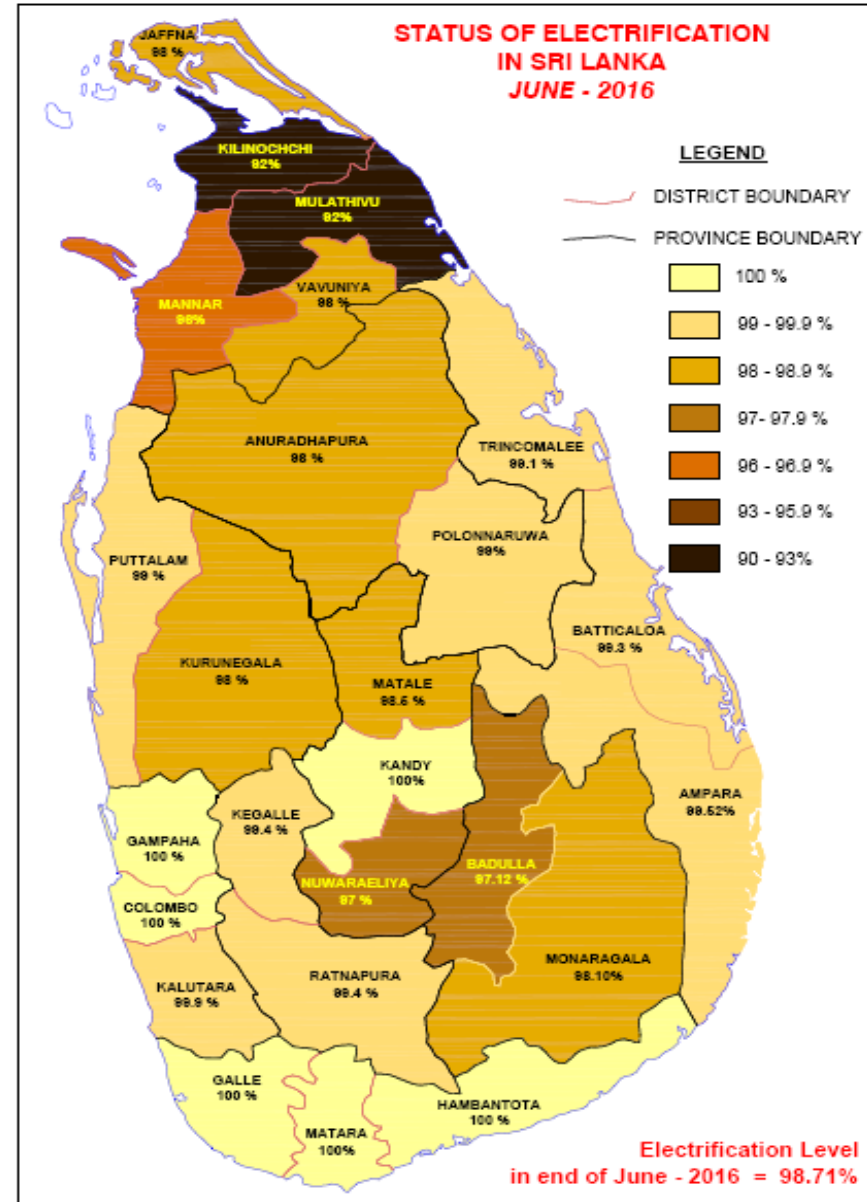
- Total Area : 65,610 km²
- Land Area : 62,705 km²
- Population : 21.2 million
 - Urban : 18.3% Rural : 81.7%
- Population Density : 338 per/ sqkm
- Labour Force : 8.311 million
- Unemployment rate : 4.4%
- Literacy rate : 93.3%
- Life expectancy: 72 yrs (M), 78 yrs (F)
- Monetary Unit : Sri Lankan Rupee
 - (1 USD = 151.9 LKR at January 2017)
- Gross Domestic Product : 11,839 billion LKR (Market Prices)
- GDP per capita : 3,835 US\$ (Market Prices)
- GDP structure 2016
 - Agriculture – 7.1%
 - Industry – 26.8%
 - Services – 56.5%
 - Taxes less subsidies on products – 9.6%

SRI LANKA



SRI LANKAN POWER SECTOR

- ❖ **Installed capacity** **4,018 MW**
 - ❖ **Peak Demand** **2,483 MW**
 - ❖ **Energy Demand** **12,785 GWh**
 - ❖ **Electricity Generated** **14,249 GWh**
 - ❖ **System Losses** **10.28 %**
 - ❖ **Elec. Consumption per Capita** **603 kWh**
 - ❖ **Level of Electrification** **98.71%**
- (June 2016)

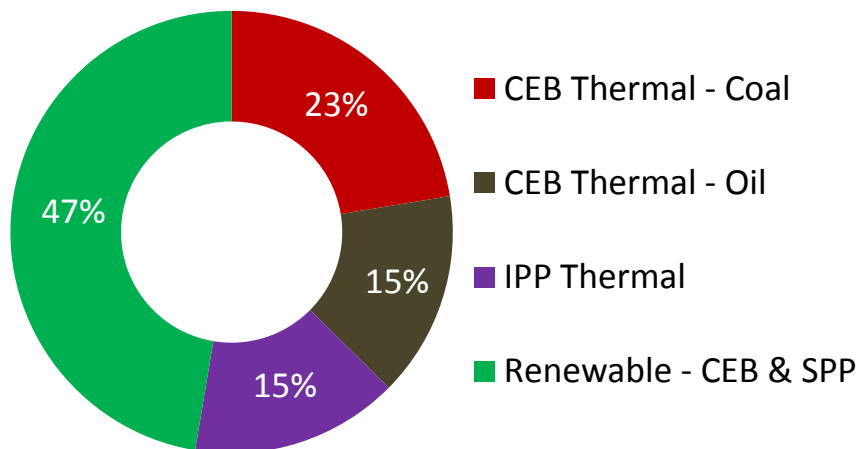


PRESENT CAPACITY & ENERGY MIX AS AT DECEMBER 2016

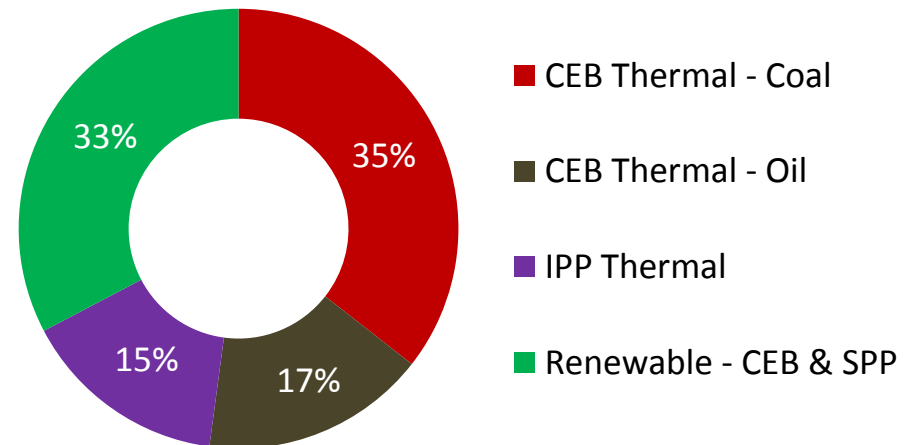
Total Installed Capacity & Energy

Source	Capacity (MW)	Energy (GWh)
Renewable - CEB & SPP	1,903	4,659
CEB Thermal - Coal	900	5,067
CEB Thermal - Oil	604	2,360
IPP Thermal	611	2,164
Total	4,018	14,249

Capacity Share (MW)

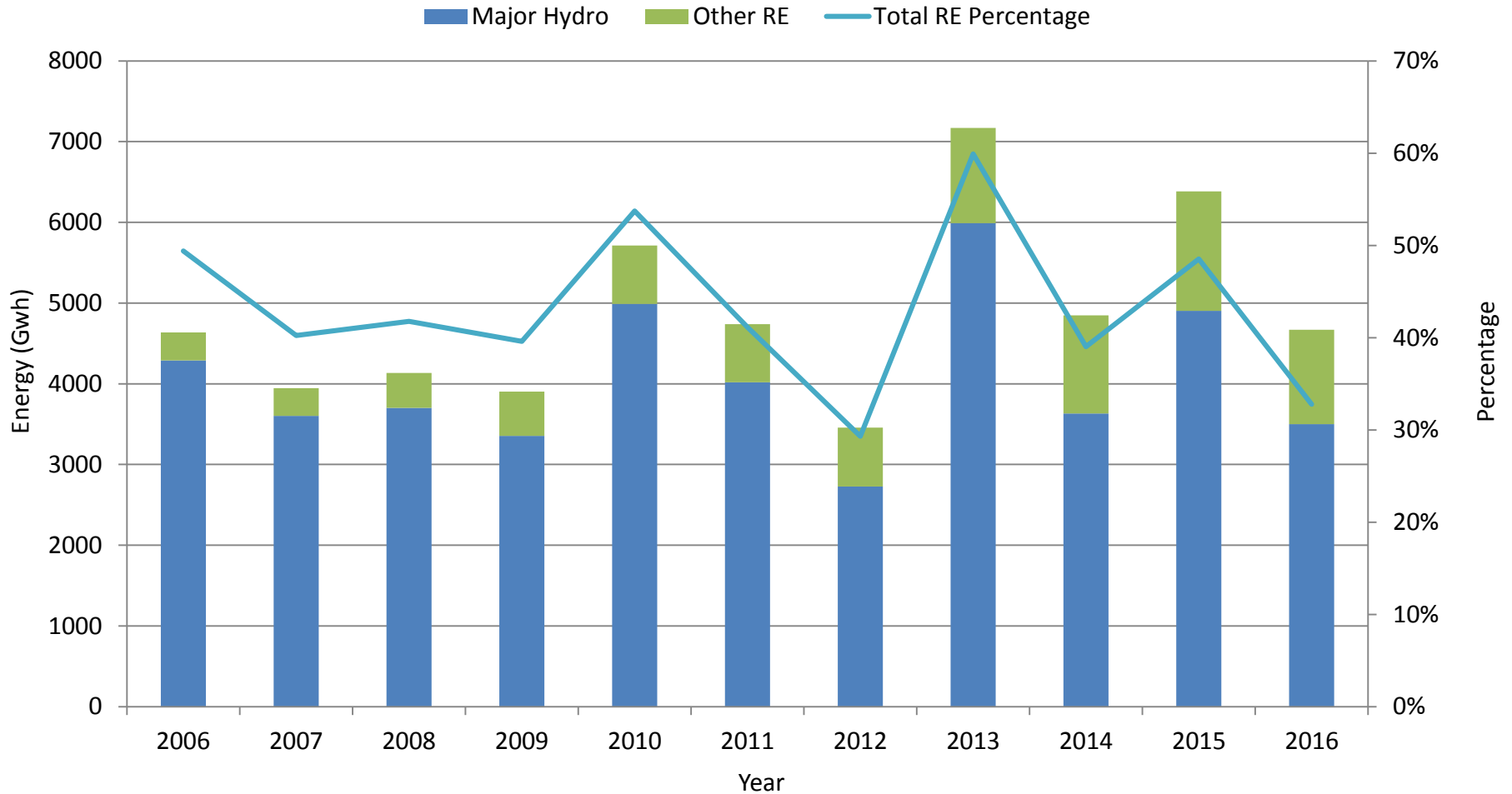


Energy Share (GWh)



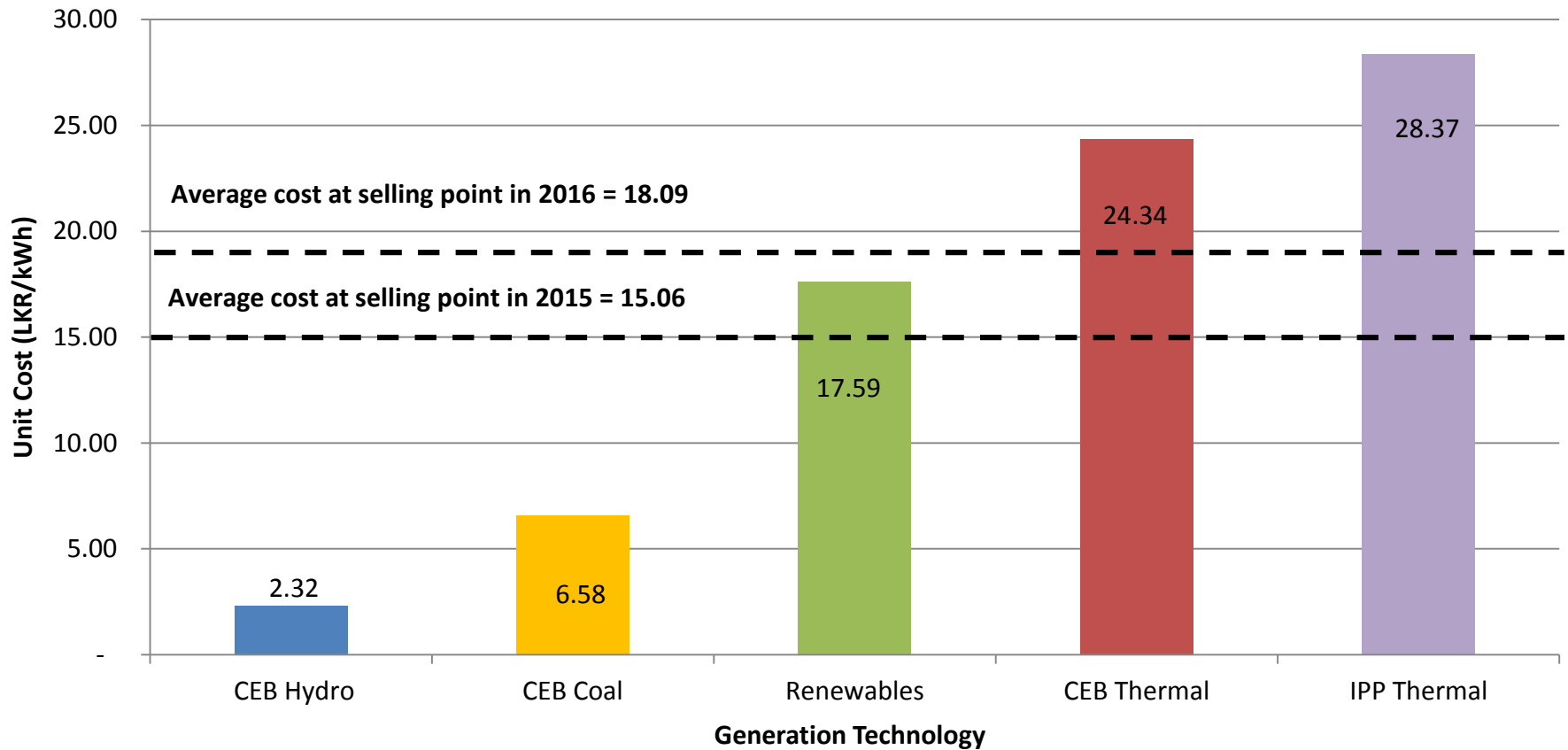
RENEWABLE ENERGY AS AT DECEMBER 2016

Renewable Energy Contribution



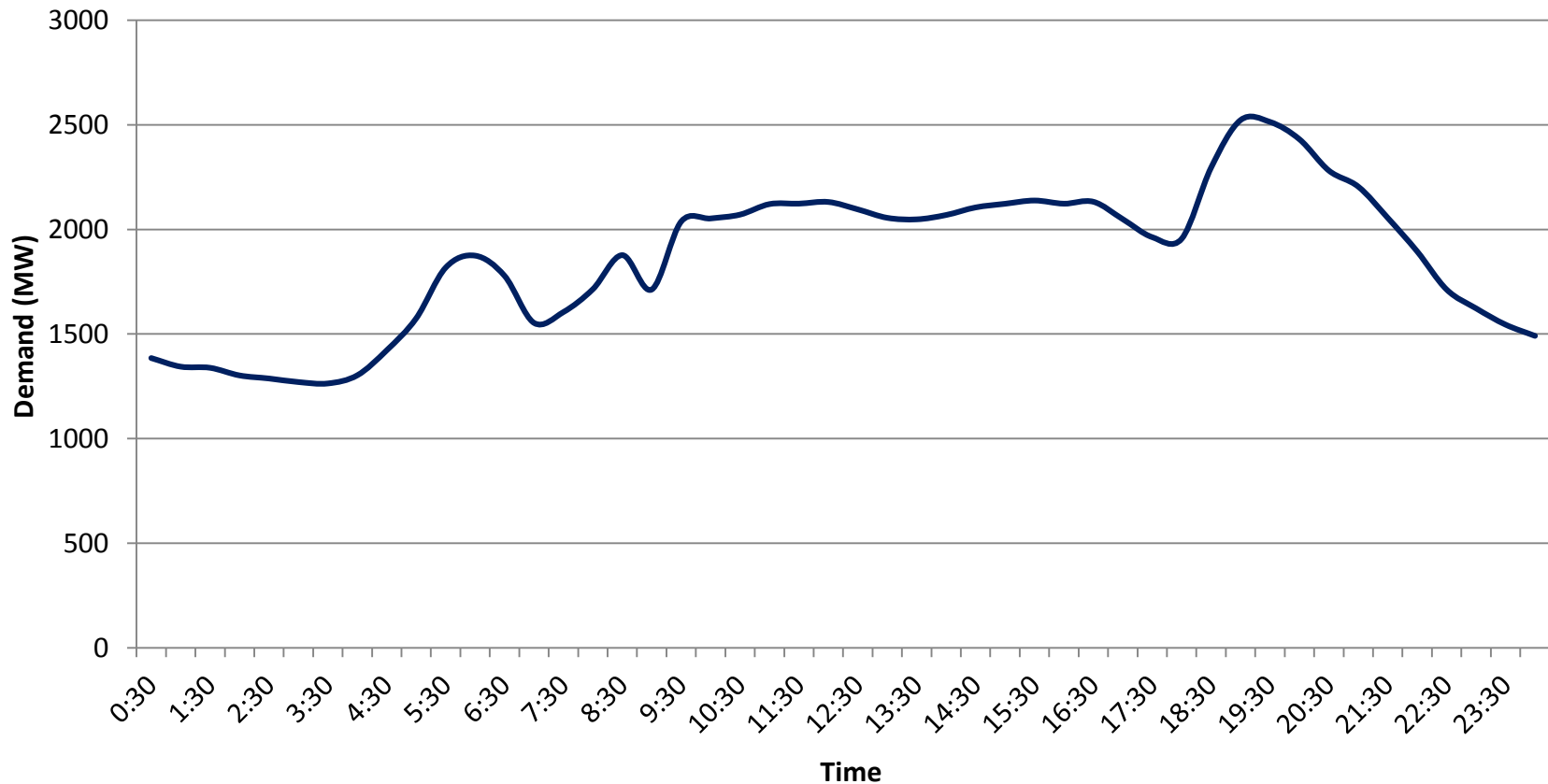
Average Cost per Unit for Generation Technologies

AS AT DECEMBER 2016



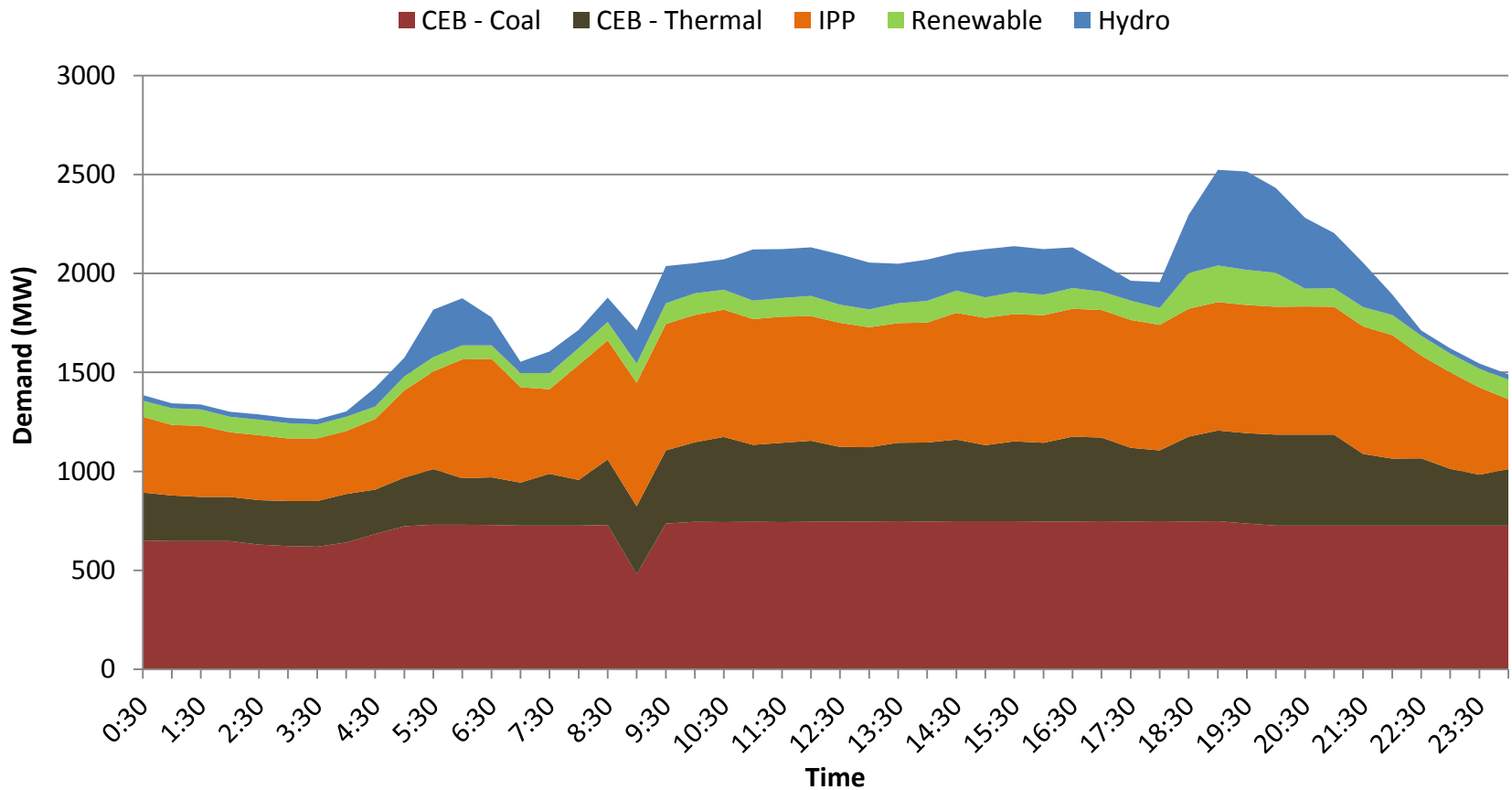
TYPICAL LOAD CURVE OF SRI LANKA

Daily Load Curve as at 17th May 2017



TYPICAL LOAD CURVE OF SRI LANKA

Daily Load Curve as at 17th May 2017 – Generation Mix



THANK YOU