

# **Presentation Outline**

#### OUR PROBLEMS

- Costs of Generation
- Absence of cost-reflective tariff
- Liabilities

#### **OUR ACHIEVEMENTS**

#### THE FUTURE

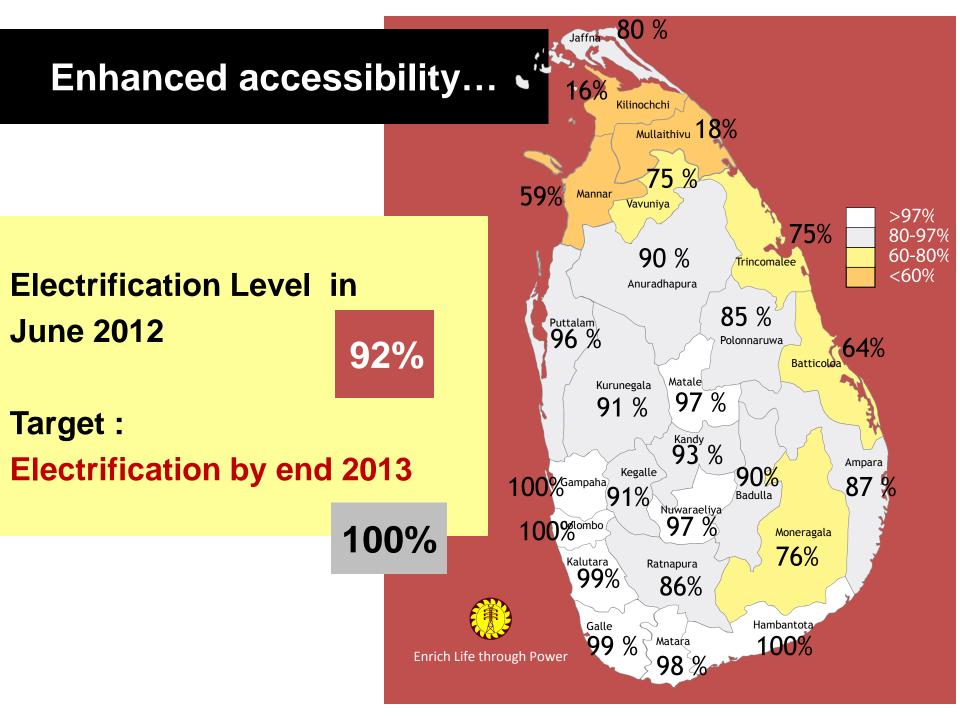
- Capacity enhancements
- Encouraging Innovation



## **Our Achievements**

- Improve Supply Quality : Enhanced accessibility
- Improved consumer services
- Reduced system losses
- Installed Generation Capacity
- Improved transmission capability
- Meeting the Demand Conservation Measures





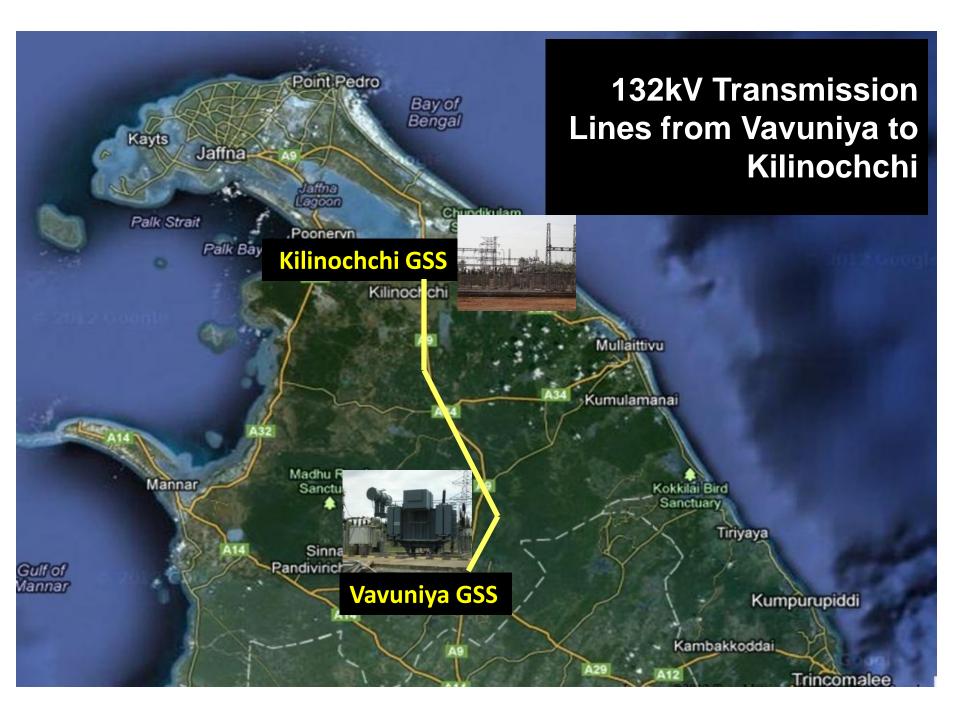
### **Enhanced Consumer Services...**

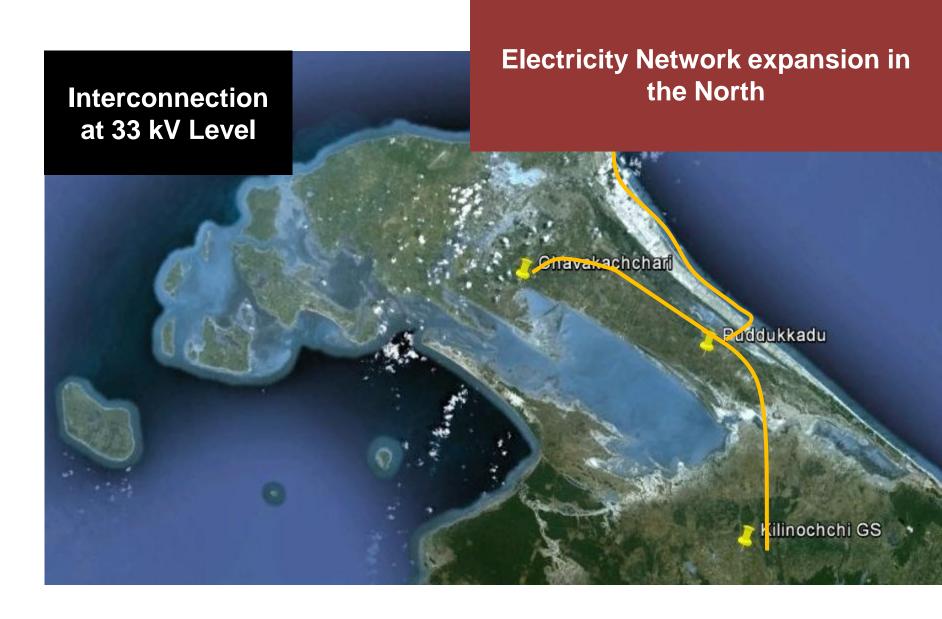
- Establishment of new eCity consumer service centres
- Enhanced internetbased facilities for consumers for bill payment
- SMS-based facilities for outage notification













#### Kilinochchi Grid Substation June 2009



# Electricity Network expansion in the North



#### Kilinochchi Grid Substation September 2012



#### Installed Capacity 2010-2012

Puttalam Coal Power 300 MW Stage I and Upper Kotmale Hydro 150 MW were added to the network.





#### Upper Kotmale 150 MW

# Installed Capacity 2010-2012



#### **Puttalam Wind Power**

Small-scale Renewables of 32 MW from 7 power plants were also added to the network



#### Non Conventional Renewable Energy By August 2012, a total of 126 small private power producers were connected to the Grid, Gross Electricity Generation (GWh) nstalled Capacity (MW adding 281 MW Biomass (GWh) Hydro (GWh) — Hydro (MW) — Biomass (MW) — Wind (MW) Wind (GWh)

# Transmission

#### **CEB Transmission Network 2012**



- 220 kV/ 132 kV Grid Substation
- Hydro Power Plant
- Thermal Power Plant

#### CEB owns and operates the entire transmission network that operates at 220 kV and 132 kV

	2010	2011	2012
220 kV	483 km	483 km	501 km
132 kV	1,755 km	1,774 km	1,840 km
Grid Substations	55	57	58

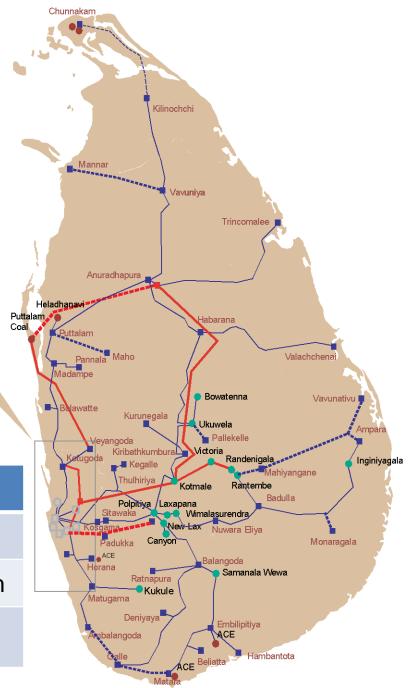
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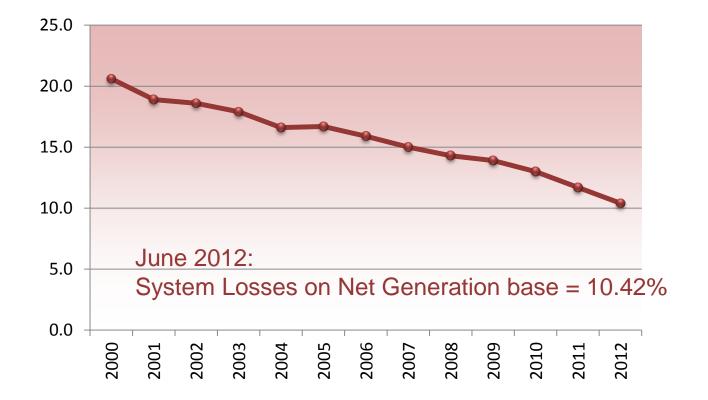
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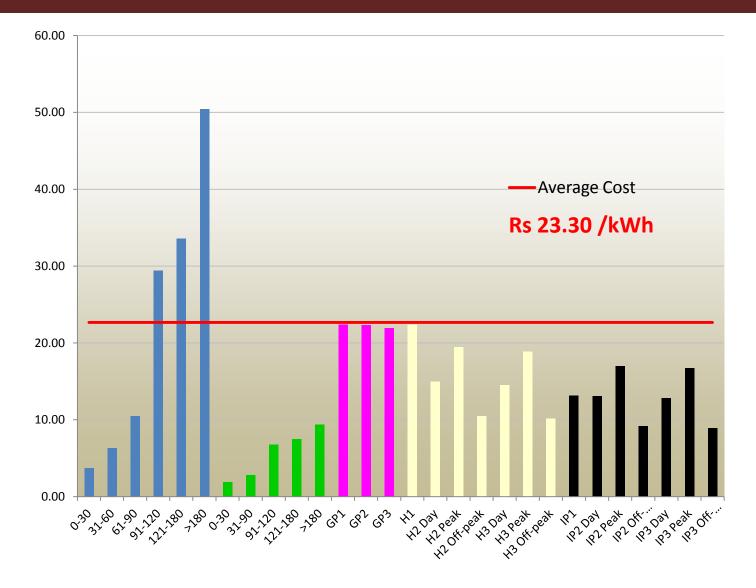
#### **Reducing System Loss**



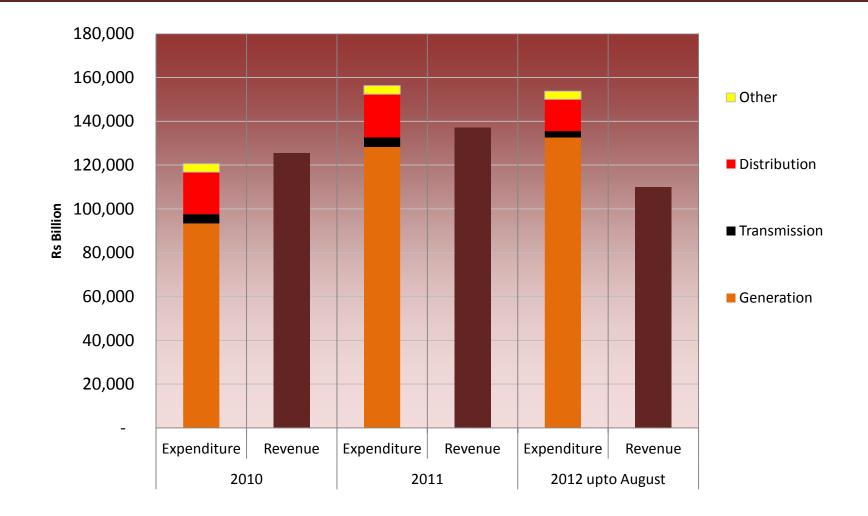




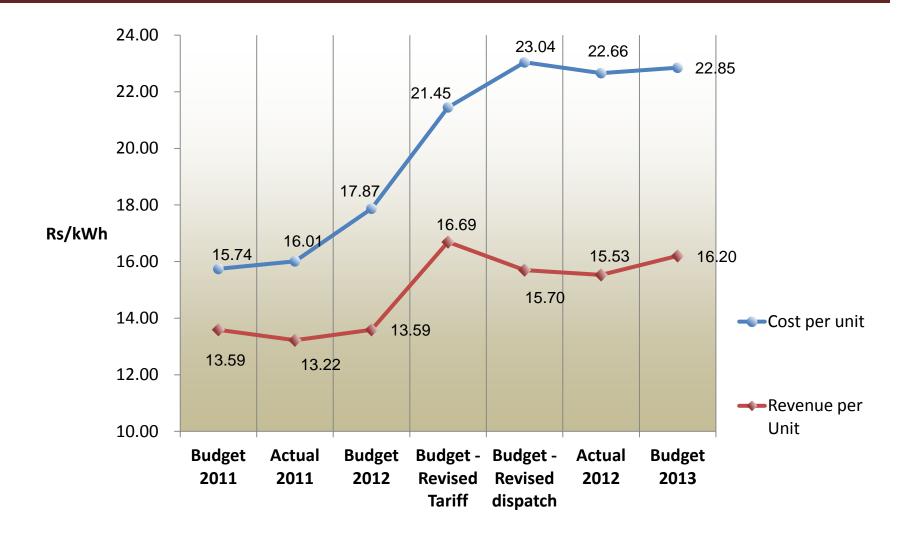
#### **Comparison of Consumer Tariff vs Cost**



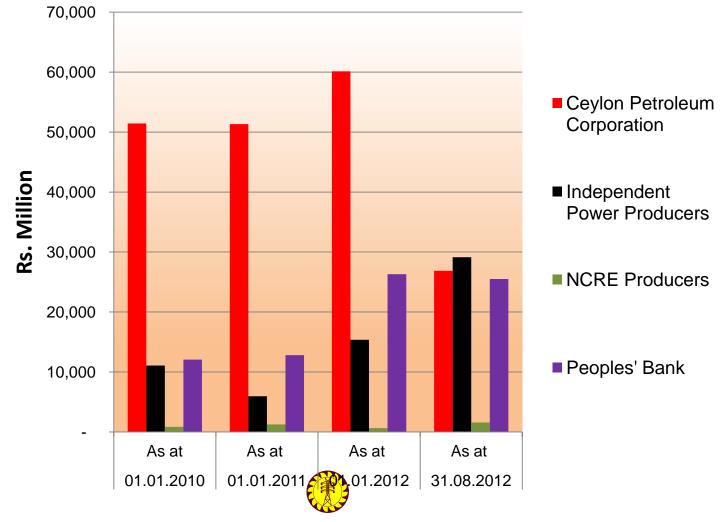
#### **CEB Revenue and Total Expenditure**



#### **Comparison of Revenue and Cost**



#### Liabilities



#### **Energy Conservation**

- CEB conducted a Drive for Energy Conservation throughout 2012. The main features of this were:
- Public education through advertising, promotional walks, hand bills, community leader education etc.
- SMS-based conservation Raffle Draw



# A saving of 83 GWh during three months



#### Major targets for 2013

• January 2013:

Commissioning of 24 MW Jaffna Power Plant

• October 2013

Commissioning of Second Stage 300 MW of Lakvijaya Power Plant at Puttalam

• **2013** 

100% Electrification of Sri Lanka

• **2013** 

System Loss to reach below 10% of Net Generation



### **Beyond 2013...**

#### Capacity additions

Year		Capacity
2014	Puttalam Stage 3	300 MW
2015		
2016	Trincomalee Stage 1	500 MW
2017	Trincomalee Stage 2	250 MW
2018	Trincomalee Stage 2	250 MW



### Beyond 2013...

#### **Projected Loss**

Year	Loss Rs Billion
2012	70,946
2013	45,862
2014	(29,459)

#### **Main Assumptions**

- Annual Tariff increase = 10%
- Price escalation of Oil = 5%
- Price escalation for coal = 5%
- No price escalation for NCRE
- Puttalam Coal Phase 2 available by October 2013
- Puttalam Coal Phase 3 available by April 2014
- Hydro inflow 2013 = 80% dry
- Hydro inflow 2014= 63% dry



## More info: <u>www.ceb.lk</u> bandula.tilakasena@ceb.lk



# **CEB cost structure**

