

Transitioning the South Asian Energy Market

July 11-13,2011, Male

Energy Management Program of Sri Lanka

Upali Daranagama

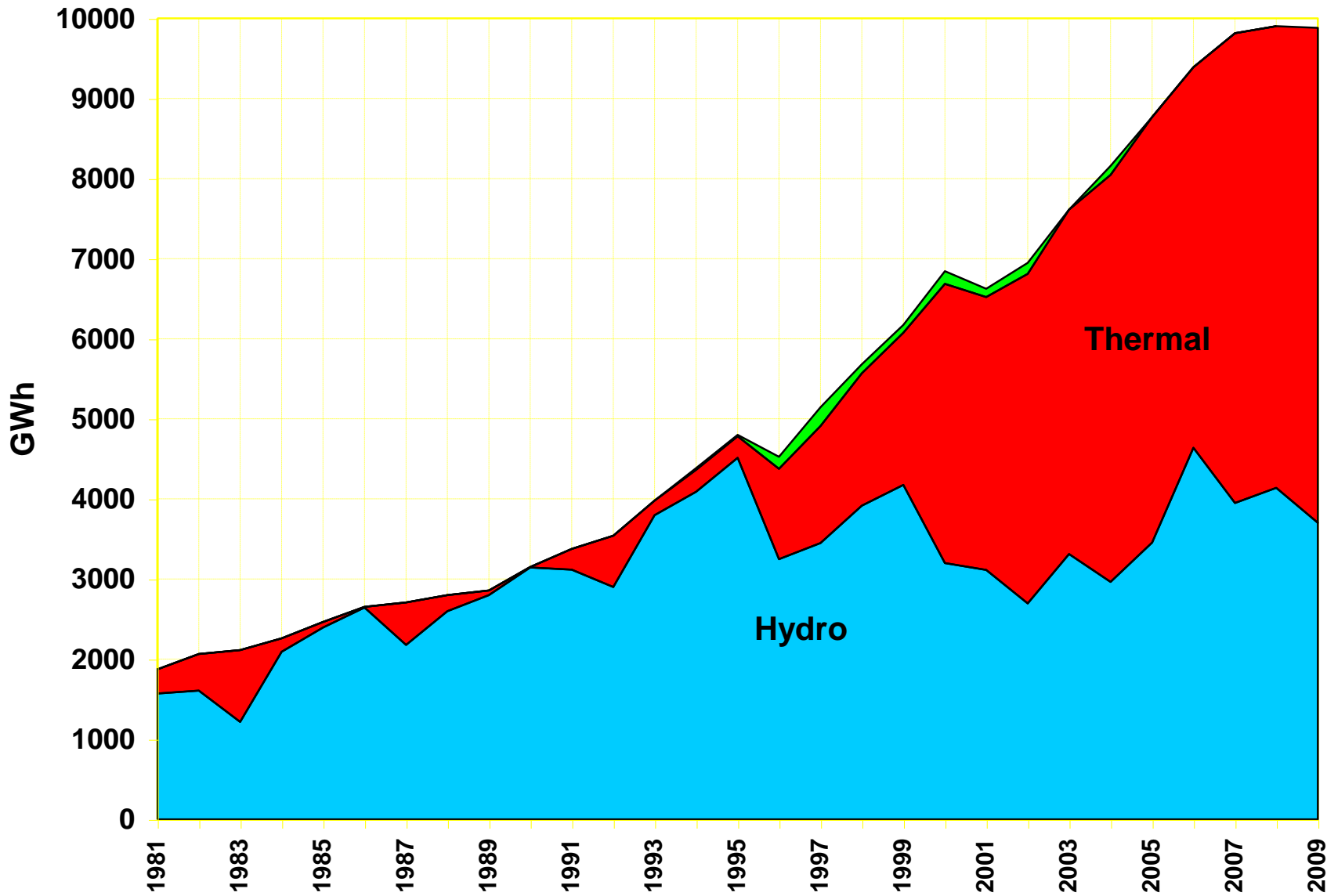
Additional Secretary (Planning and Development)

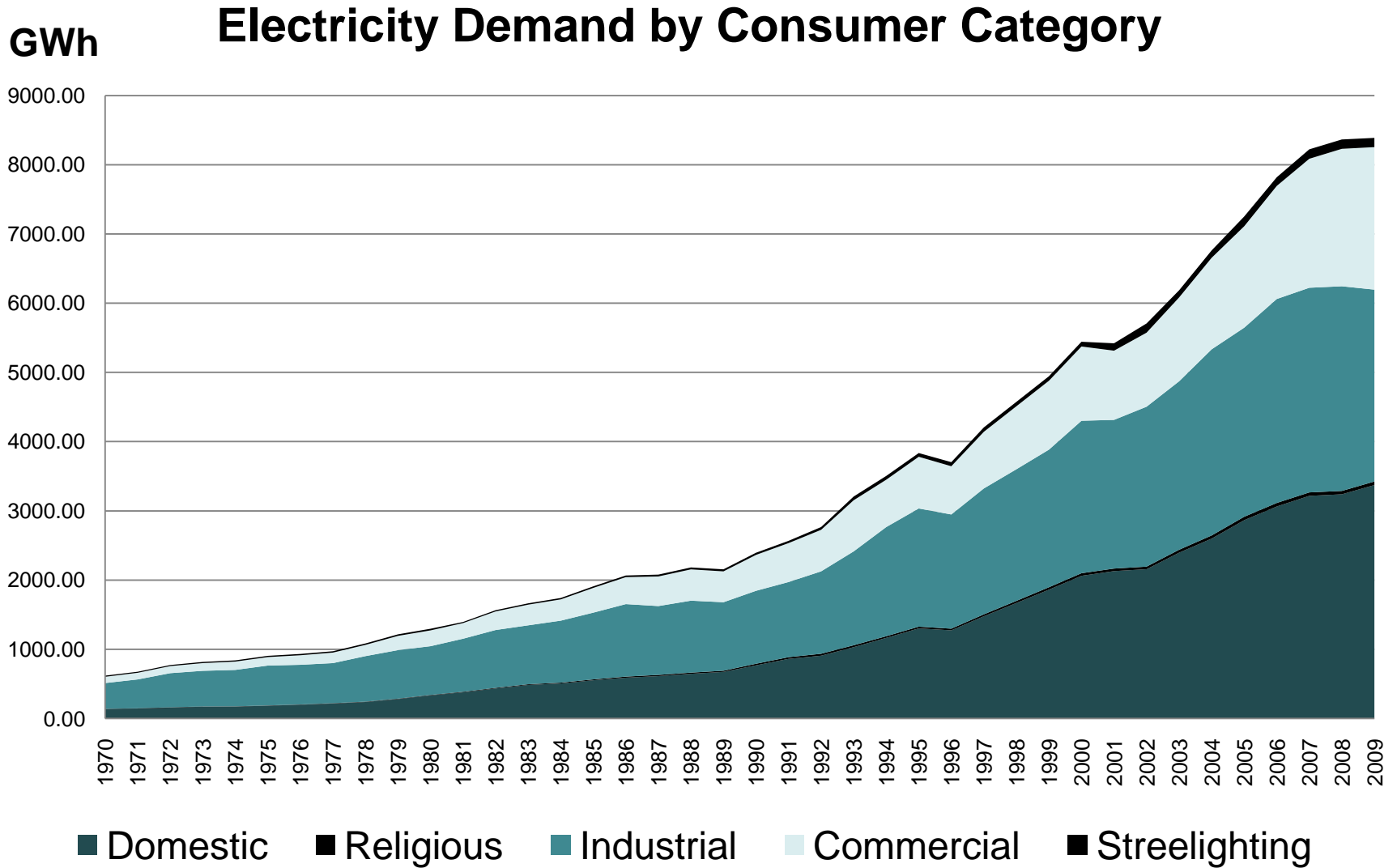
Ministry of Power and Energy

Outline of the Presentation

- Energy Supply and Consumption Pattern
- National Policy
- Interventions on Energy Management

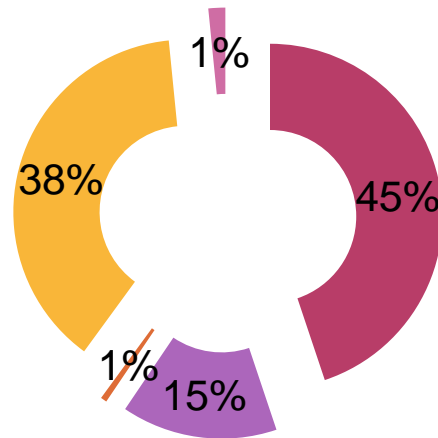
Hydro – Thermal Share





• Energy Scenario

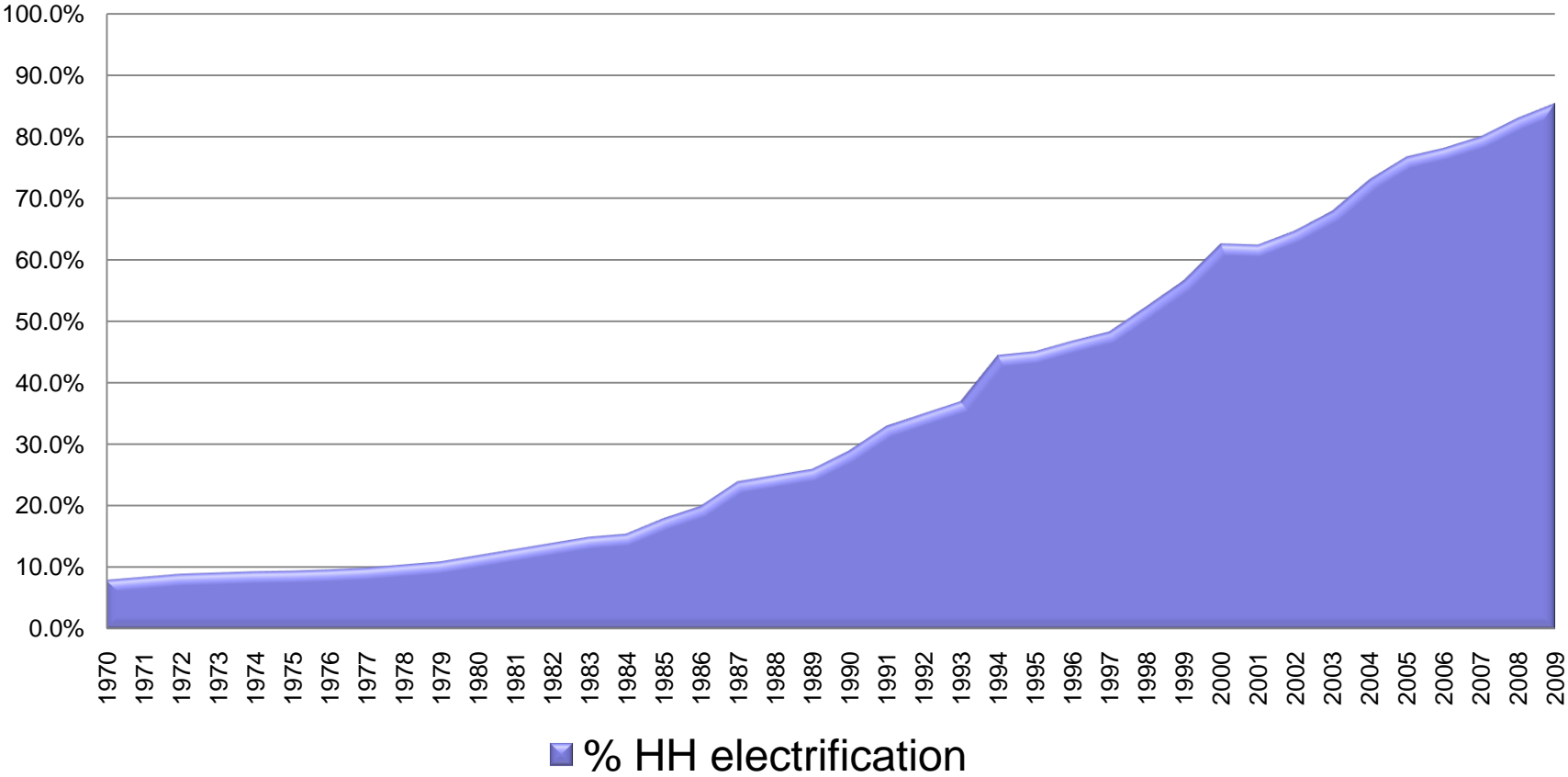
▪ Electricity Consumption by Sectors



- Large & medium (Industry & Commercial)
- Small (Industry & Commercial)
- Religious
- Domestic
- Street Light

Sector	Annual Consumption (2008) GWh
Large & medium (Industry & Commercial)	3775
Small (Industry & Commercial)	1229
Religious	49
Domestic	3230
Street Light	133
Total	8416

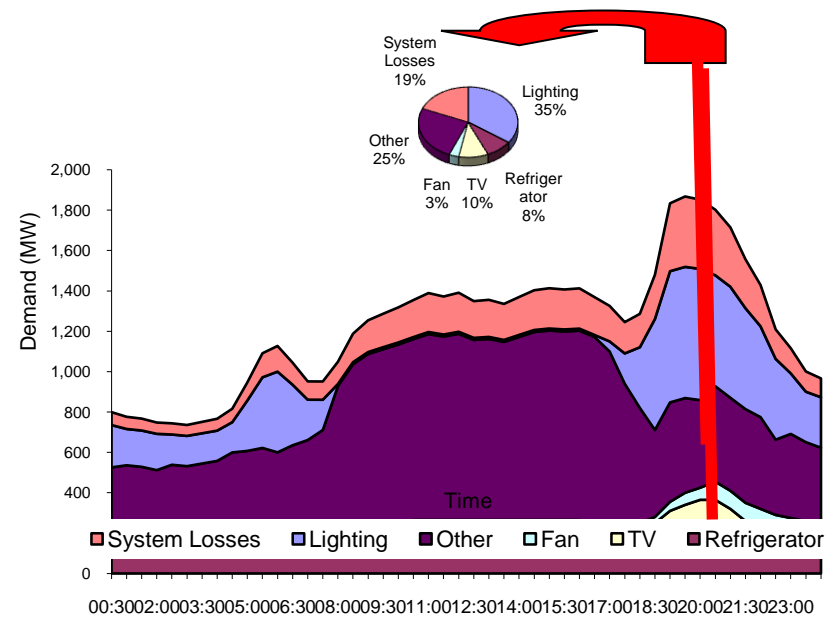
Percentage of HH Electrification in Sri Lanka



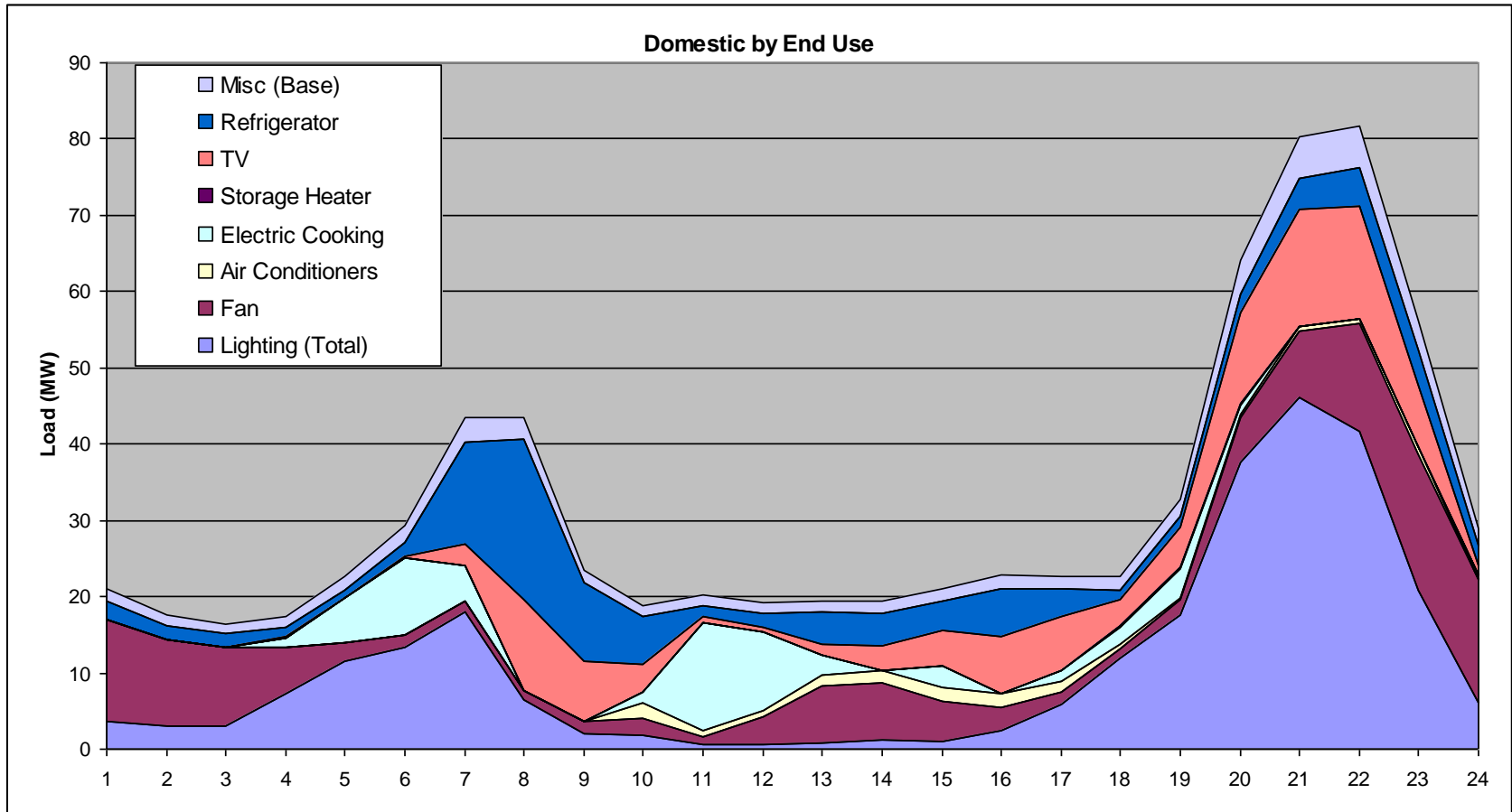
Lighting – Principal Contributor to Electricity Demand

Lighting, especially residential, major user of electricity and principal contributor to peak load

- Evening demand for lighting contributes to ~35% of peak demand
- 1/3 of South Asia electricity used by residential and commercial sectors (234 TWh/year in 2008)
- 40% CEB (Sri Lanka) electricity consumed by residential sector, mainly for lighting

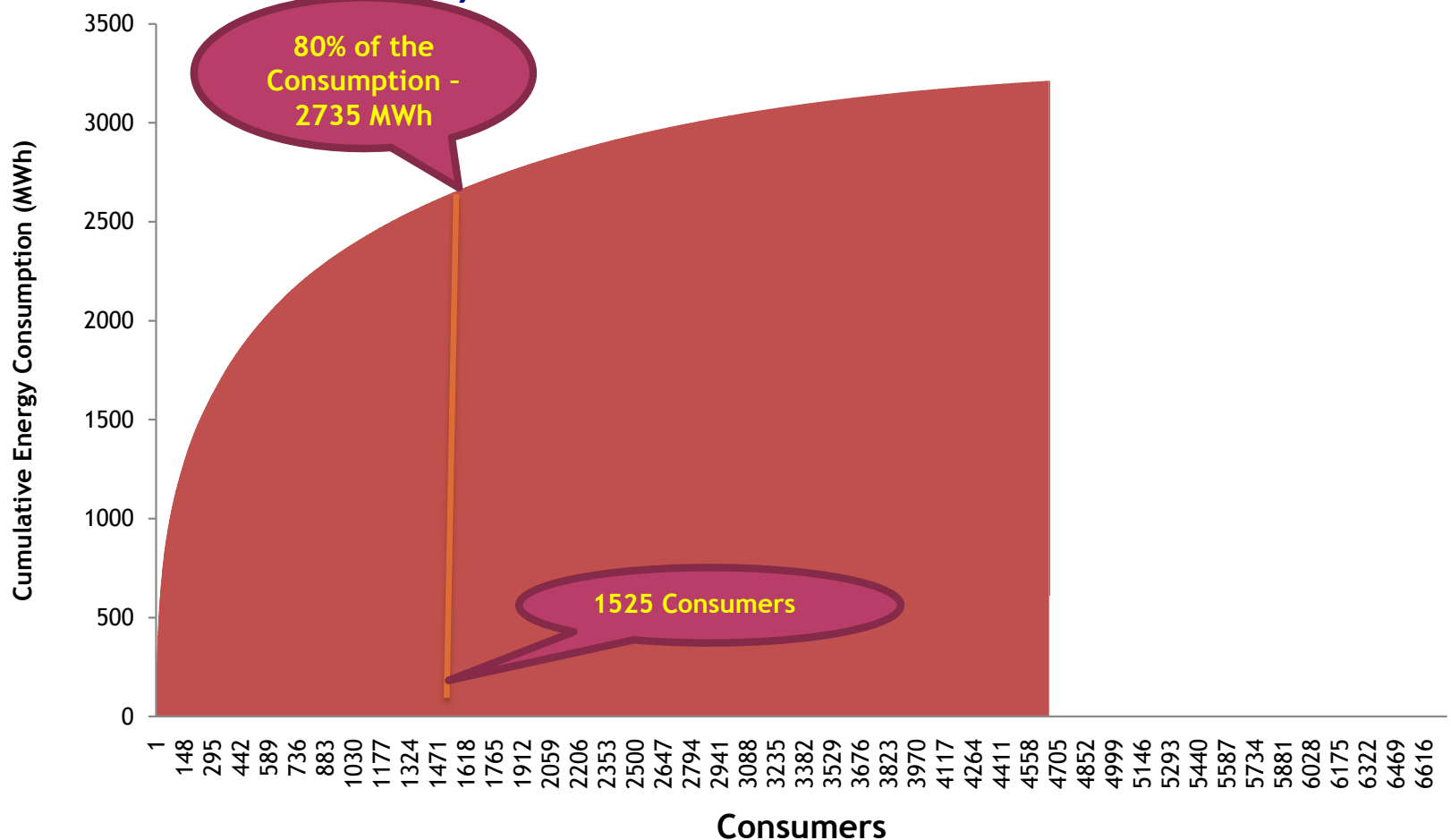


Domestic end-use profiles



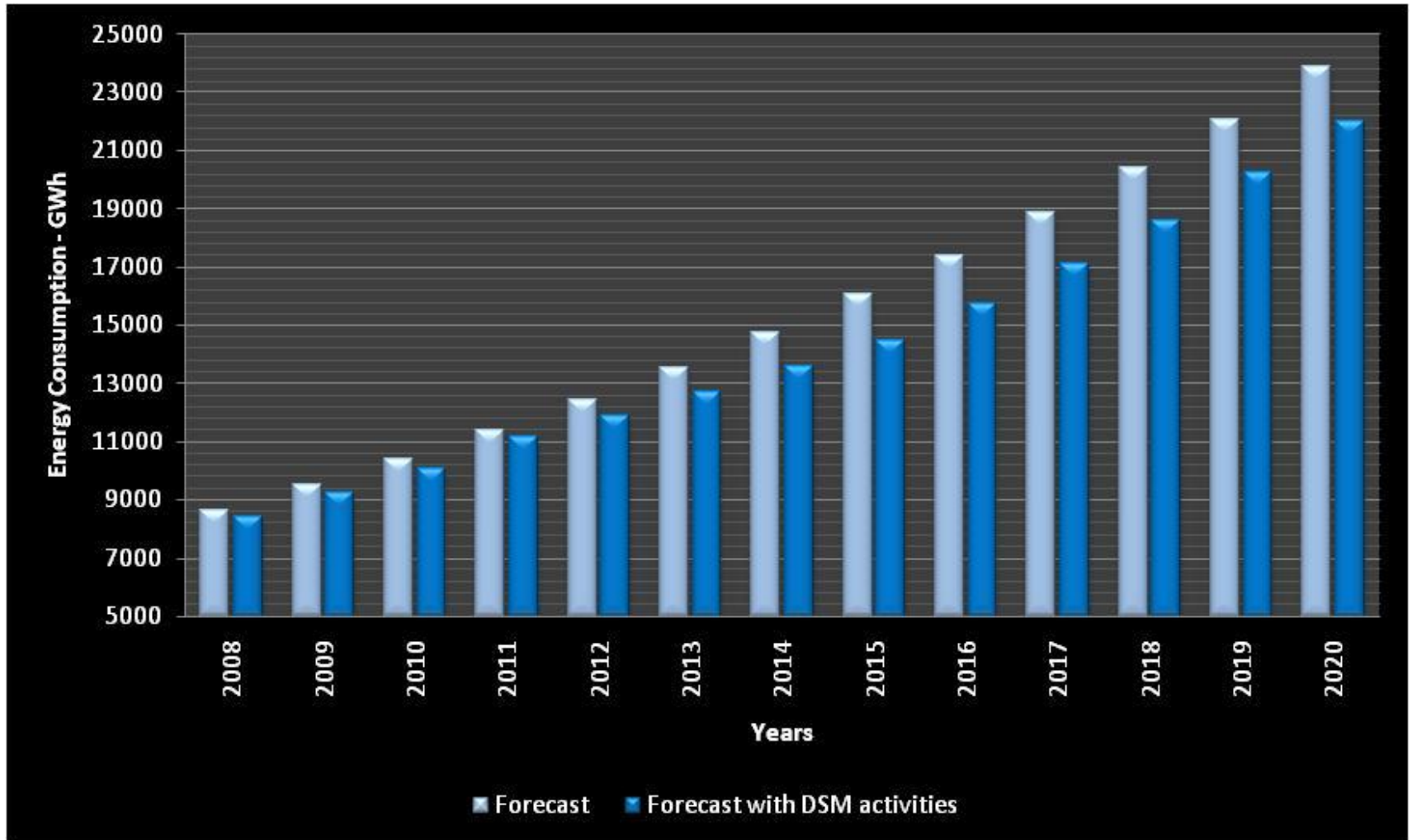
Energy Scenario Industrial and Commercial

- Cumulative Consumption of Large & Medium (Industrial & Commercial Sectors)

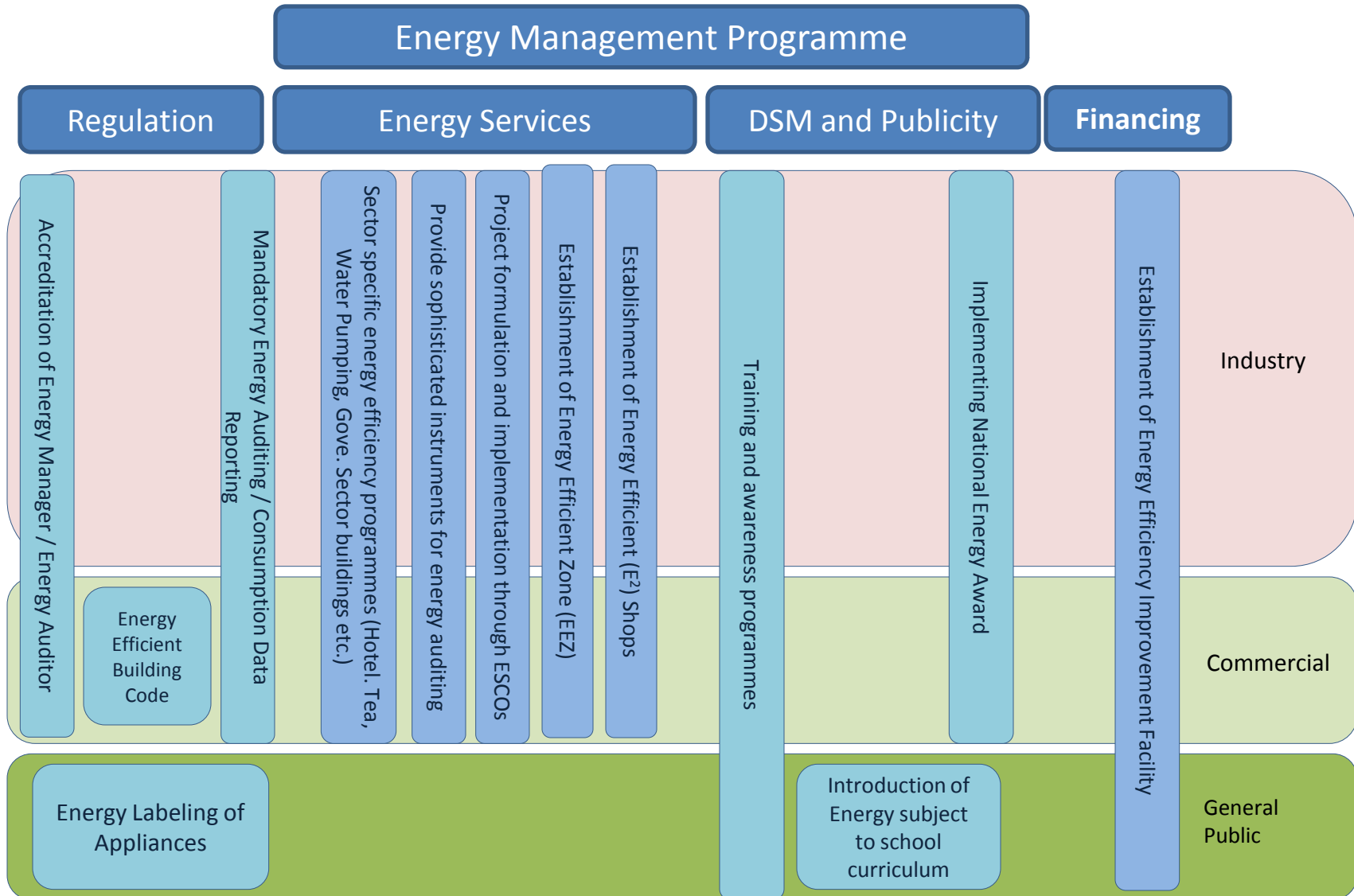


Targets

- Saving of 20% of 2010 energy consumption by 2020



Interventions

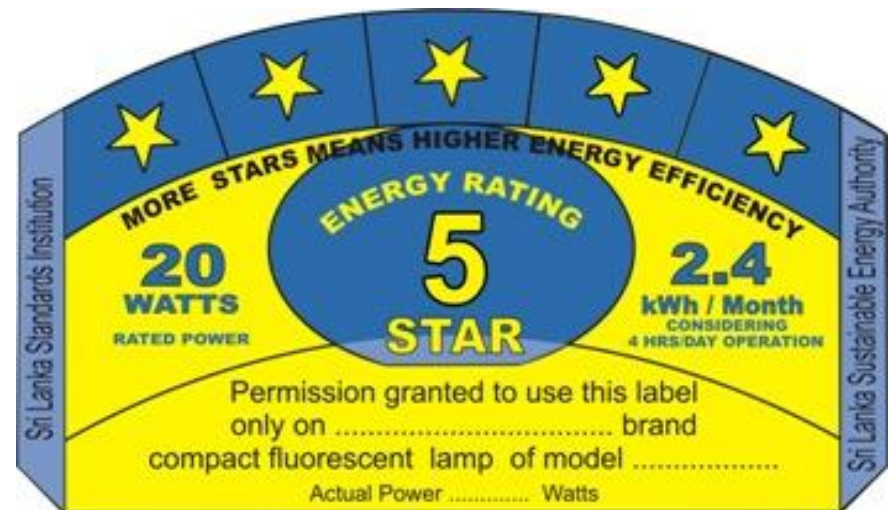
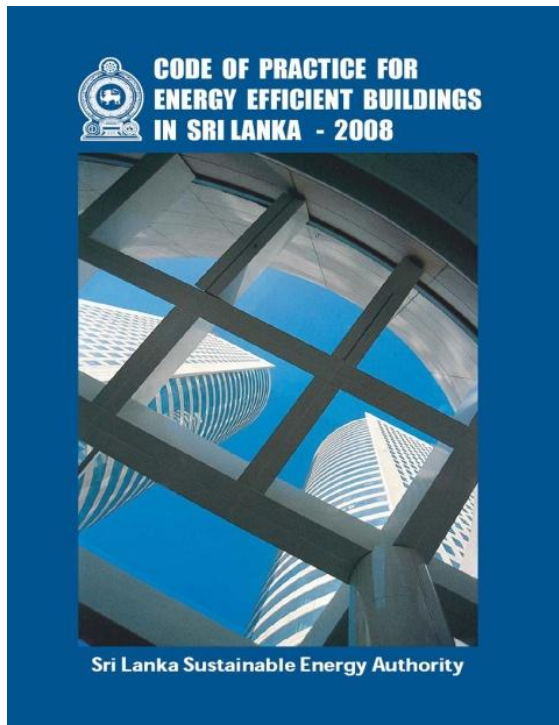


Interventions

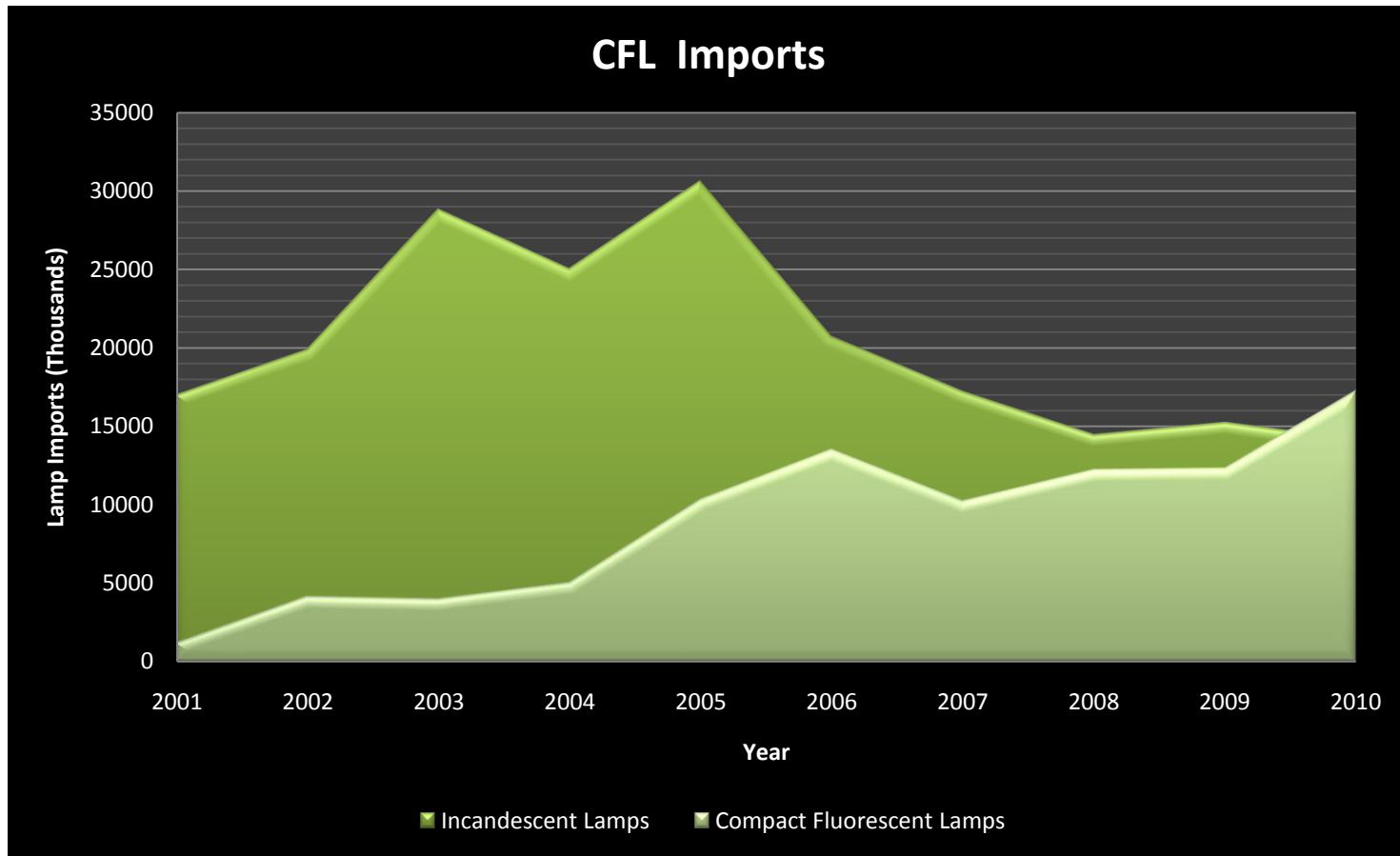
- ✓ **Energy Manager & Energy Auditor Regulation** About 1525 industries and establishments (consume 80% electricity)
- ✓ **240 GWh annual saving potential**
- ✓ **Main Elements:**
 - **Energy consumption reporting**
 - **Appointment of certified energy managers/auditors**
 - **Implementation of plans of action on energy conservation**
- ✓ **Applicable for Any Industry and Commercial Establishments**
- ✓ **1st Phase of Implementation:**
 - **Annual Electricity Consumption > 600,000 kWh or**
 - **Annual Thermal Energy Consumption > 4,500 TOE**

Interventions

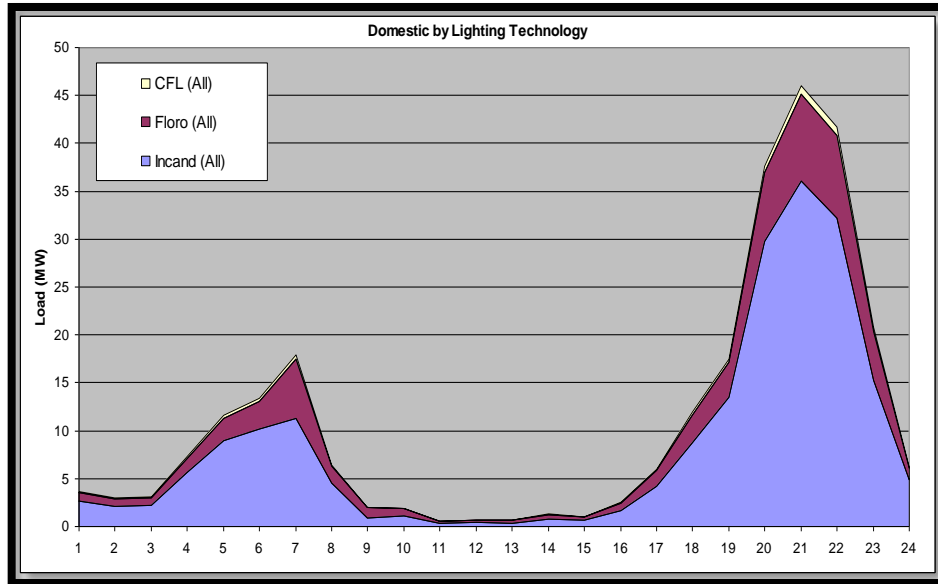
- Code of Practice / Green Certification of Buildings
- Energy Labeling Programme



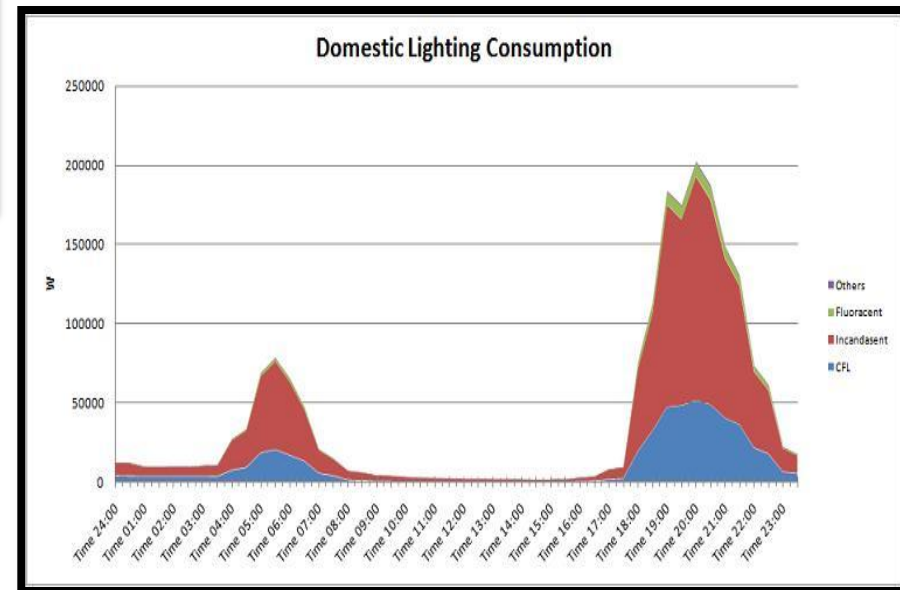
CFL Penetration in Sri Lanka



Impact of CFL on the Load Curve



Year 2000



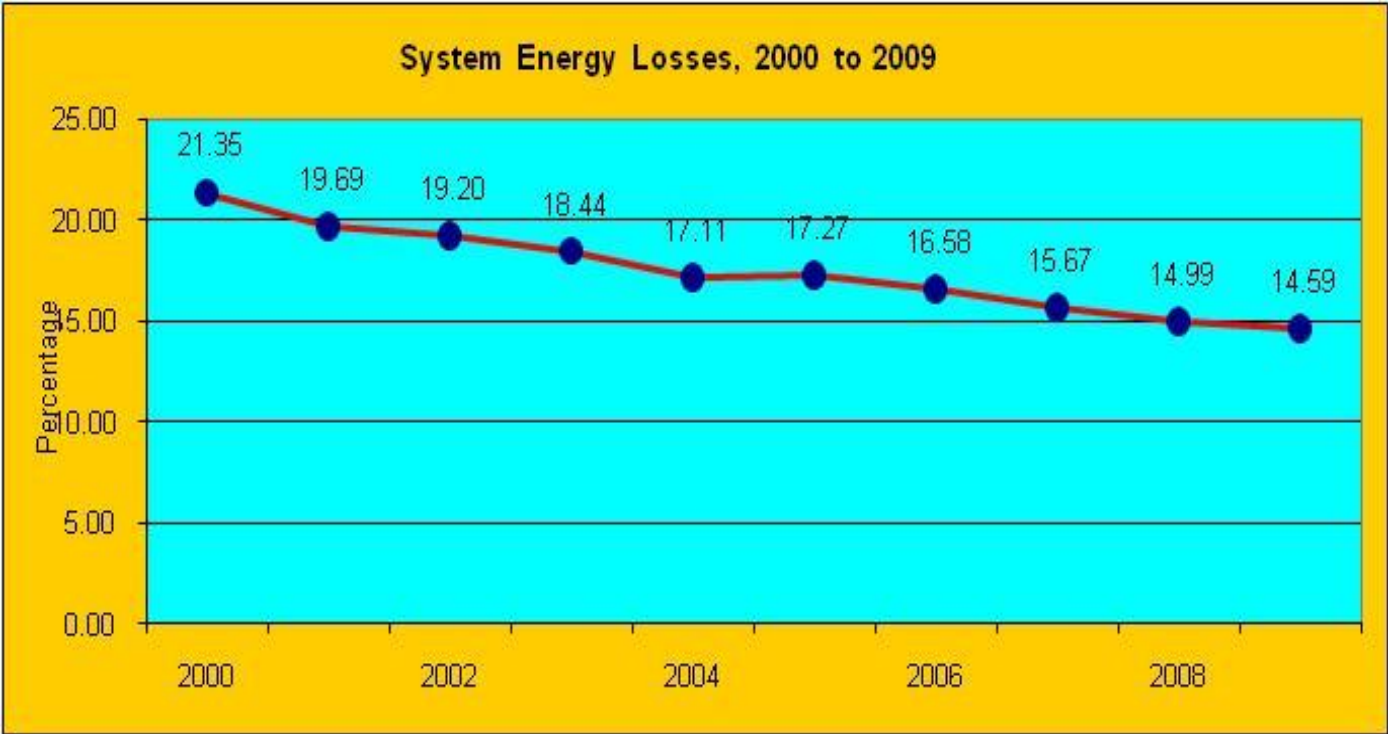
Year 2010

Regional Center for Lighting RCL

- University affiliated formal educational courses
Short courses, seminars etc. and exposure for Academic staff with the support from **knowledge partner, Lighting Research Centre (LRC) of Rensselaer Polytechnic Institute, New York**
- State of the art Photometry Laboratory catering to the needs of manufacturers, dealers and users
- Library and Information Center



Supply Side - System Loss Reduction



Thank You

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