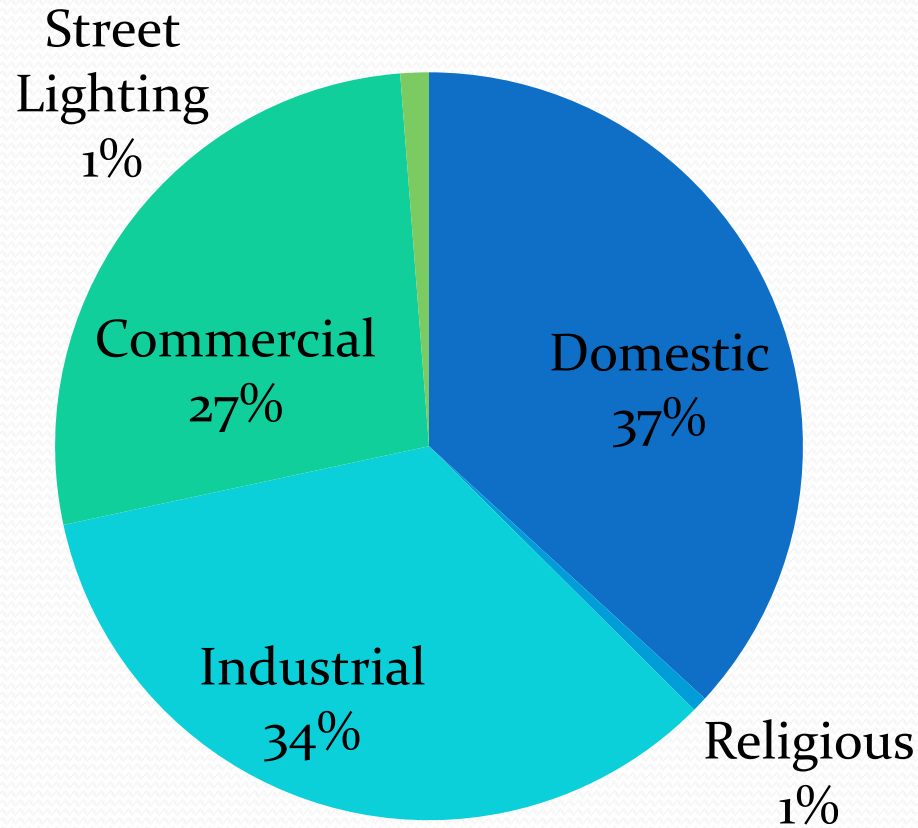


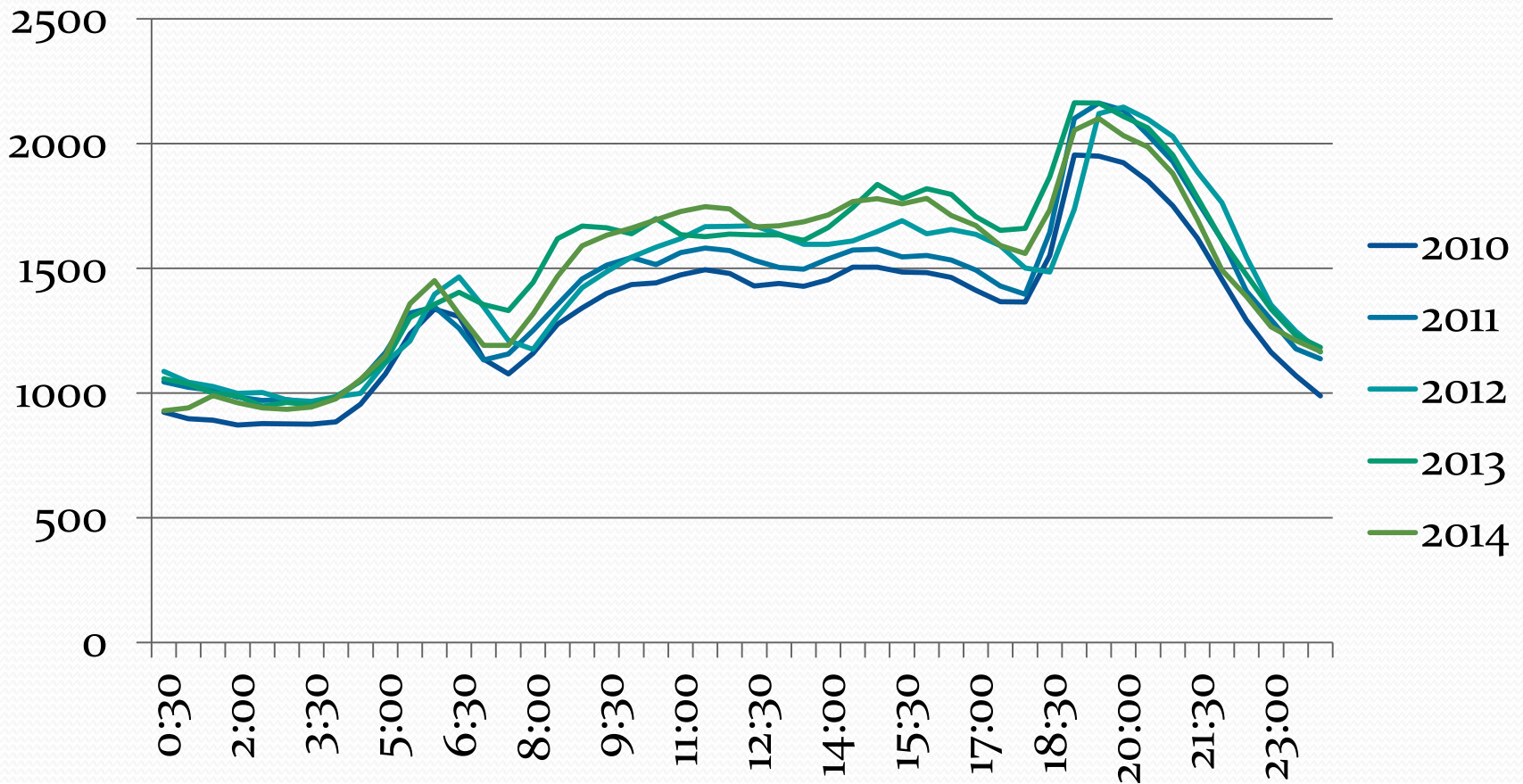
Interventions in Energy Efficient Lighting in Sri Lanka

P.S. Maldeniya (Engineer, Professional)
Sri Lanka Sustainable Energy Authority

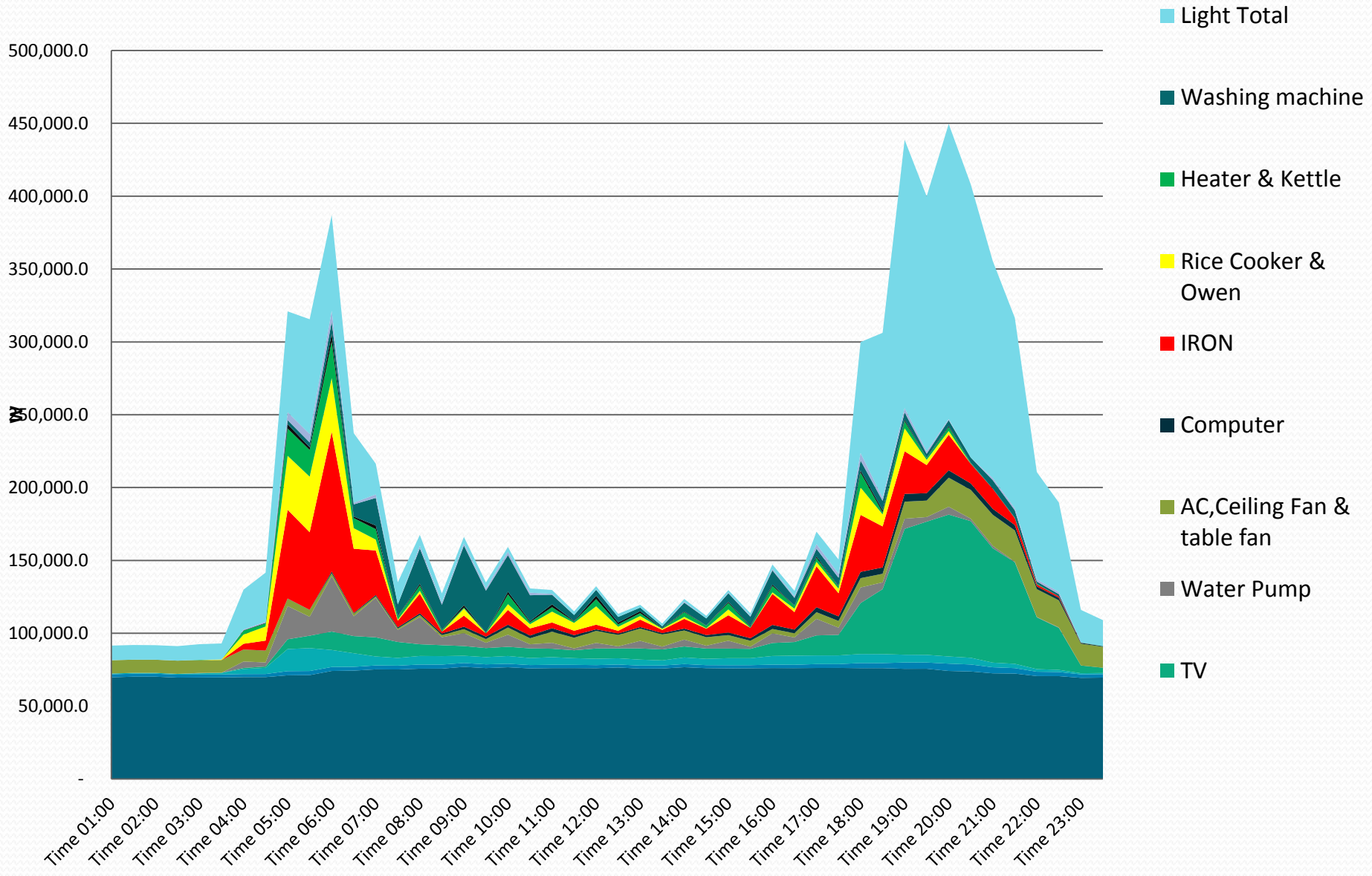
Electricity end use



Daily load curve



Domestic energy usage

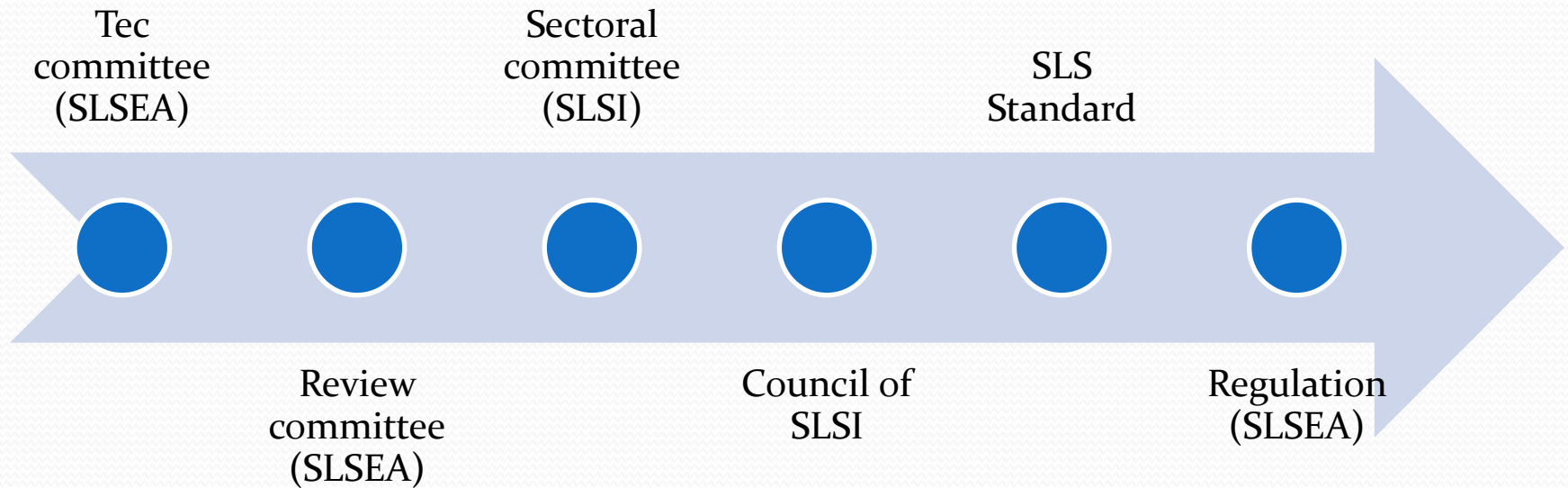


Promotion of efficient lighting and barriers

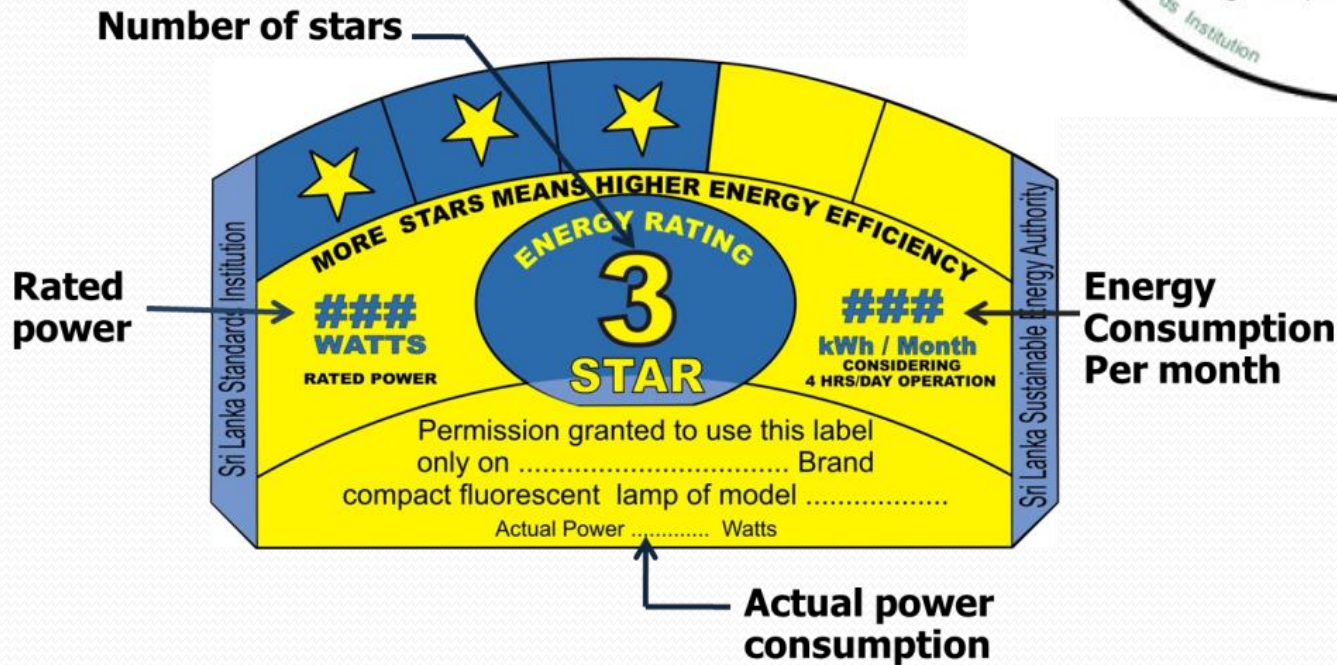
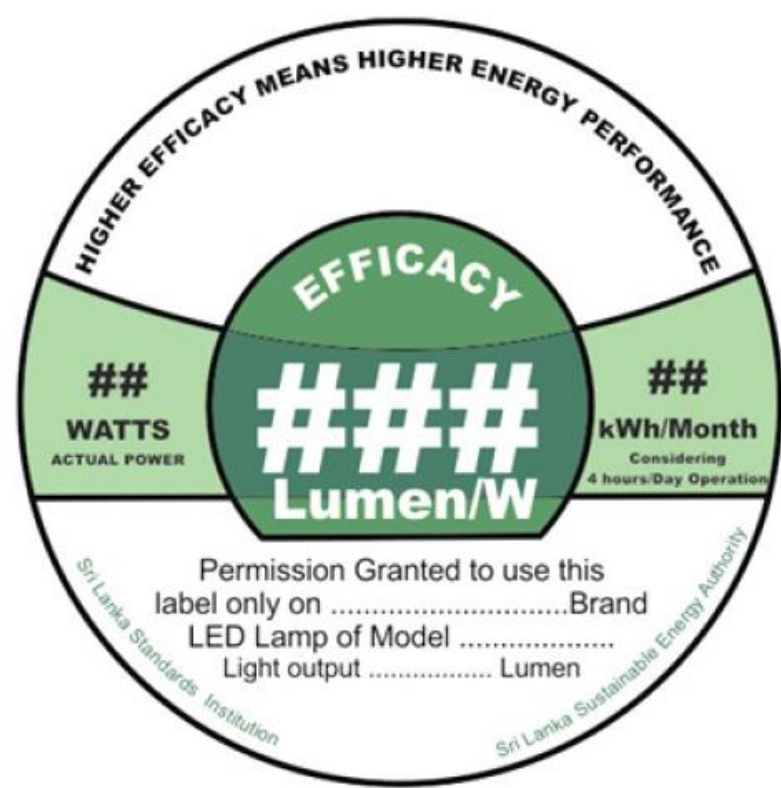
- Cost of lights
- Lack of Awareness- media campaigns, exhibitions, distribution of CFL/LEDs during pilot surveys, awareness
- Low quality (inefficient) products-labelling regulation
- Test facilities (Lighting research center)
- Mercury addition



Energy labelling process



Energy label



Present status of standards and regulations

Product	Standard	Regulation	Scope
Compact Fluorescent Lamps	SLS 1225:2002	1611/10 of 2009	Self ballasted lamps operating on main supply of 230 V a.c, 50 Hz nominal
Ballasts	SLS 1200:2012	2016 (due)	magnetic ballasts used with 18/20 W and 36/40 W tubular fluorescent lamps operated on a.c. supplies at 50 Hz, 230 V nominal
Linear Fluorescent Lamps	SLS 1625: 2013	2016 (due)	Fluorescent Lamps of 18 W to 40 W with pre-heated cathode, operating with or without starter on mains supply of 230 V, a.c. 50 Hz nominal
LED	SLS XXXX:2016	2016 (due)	self ballasted integral type LED lamps for general lighting services , rated power up to 60 W having screw and

Test facilities



- ❑ National Engineering Research & Development Centre (NERDC) (LED,CFL, LFL, Ballast)
- ❑ Regional Centre for Lighting (RCL) (LED,CFL,LFL)
- ❑ Sri Lanka Standards Institution (SLSI)
(Ballast,LED,CFL,LED)

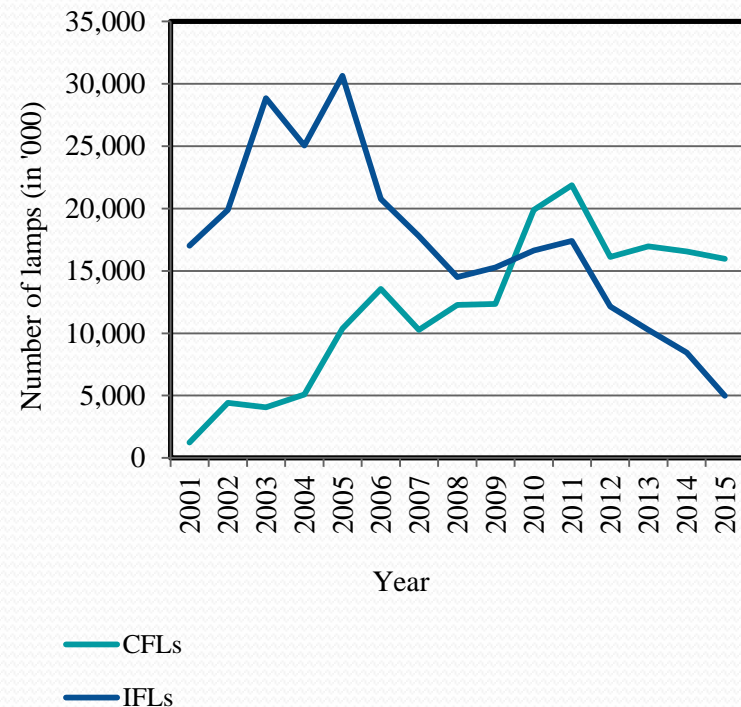
achievements

Domestic Electricity consumers

year	number
2005	3,338,859
2010	4,363,324
2011	4,578,596
2012	4,810,595
2013	5,024,077
2014	5,205,453

year	2007/08	2010
Houses with only incandescent	33%	21%

Import statistics of CFL and incandescent lamps



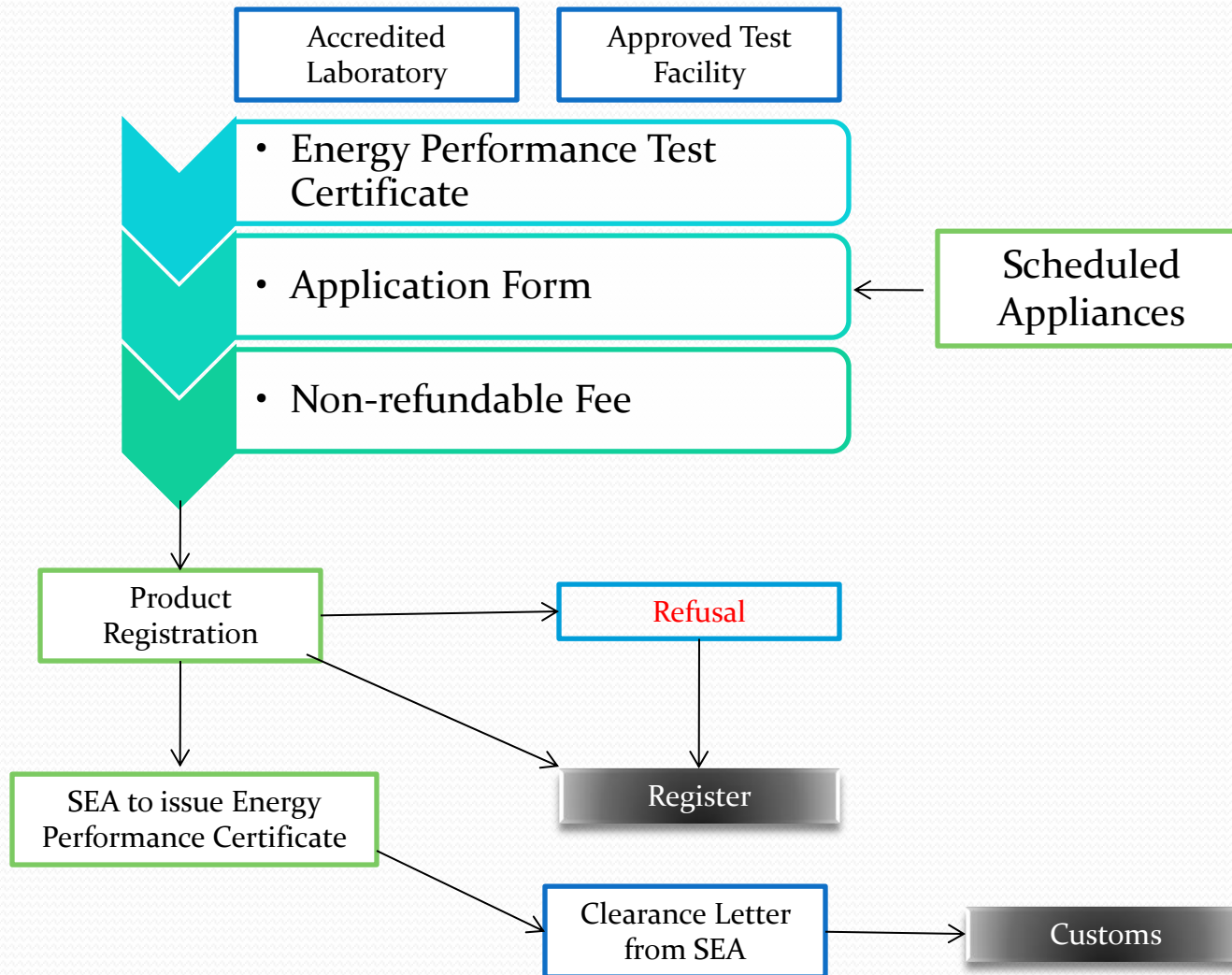
Lessons learnt and future directions

- Energy labelling is a programme which require many expensive inputs
 - Programme establishment
 - Sustaining same, with monitoring and vigilance
- Technology development
 - Keeping pace with new products difficult and costly
 - Standards need frequent updating, waste of effort

Future Directions

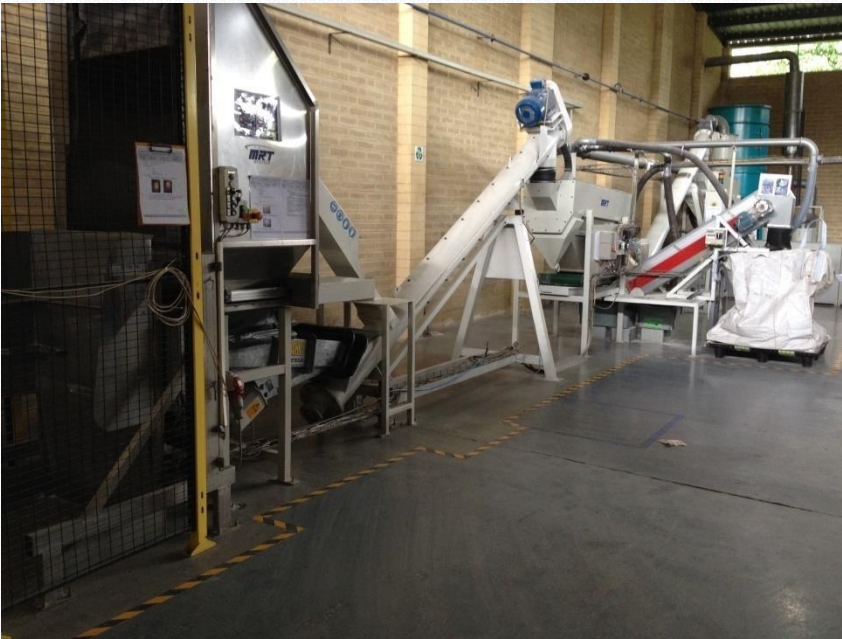
Initiate	Voluntary	Mandatory	Prohibitions	Fiscal	Review
Establish MEPS	Issue Labels to products which meet MEPS	Make it compulsory to paste labels	Products which cannot meet MEPS prohibited	Efficient products taxed less	MEPS to be refined every 2 years
	Other products remain with no labels			Inefficient products taxed more	
2015	2016	2017	2018	2019	Every 2 years

Expedited Labelling Process



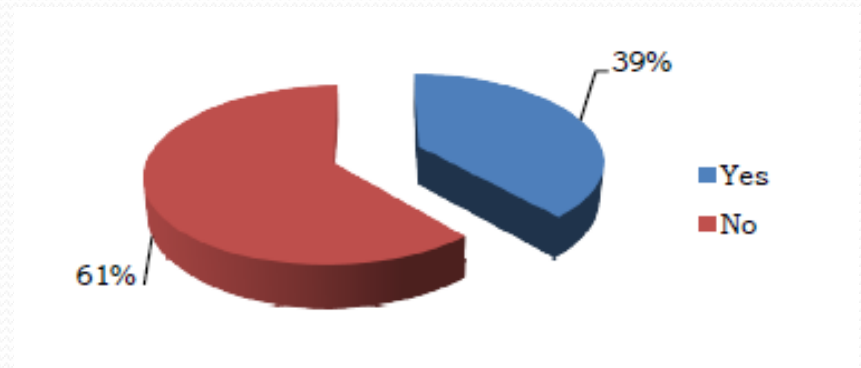
Addressing the harmful effects

CFL recycling plant



Awareness on harmful effects of CFL disposal

- Recycling plants in operation
- Waste collection not very effective





Thank you