Iran Energy Efficiency Organization (IEEO)

Islamic Republic of Iran

Introducing a model for targeted urgent distribution of CFL lamps

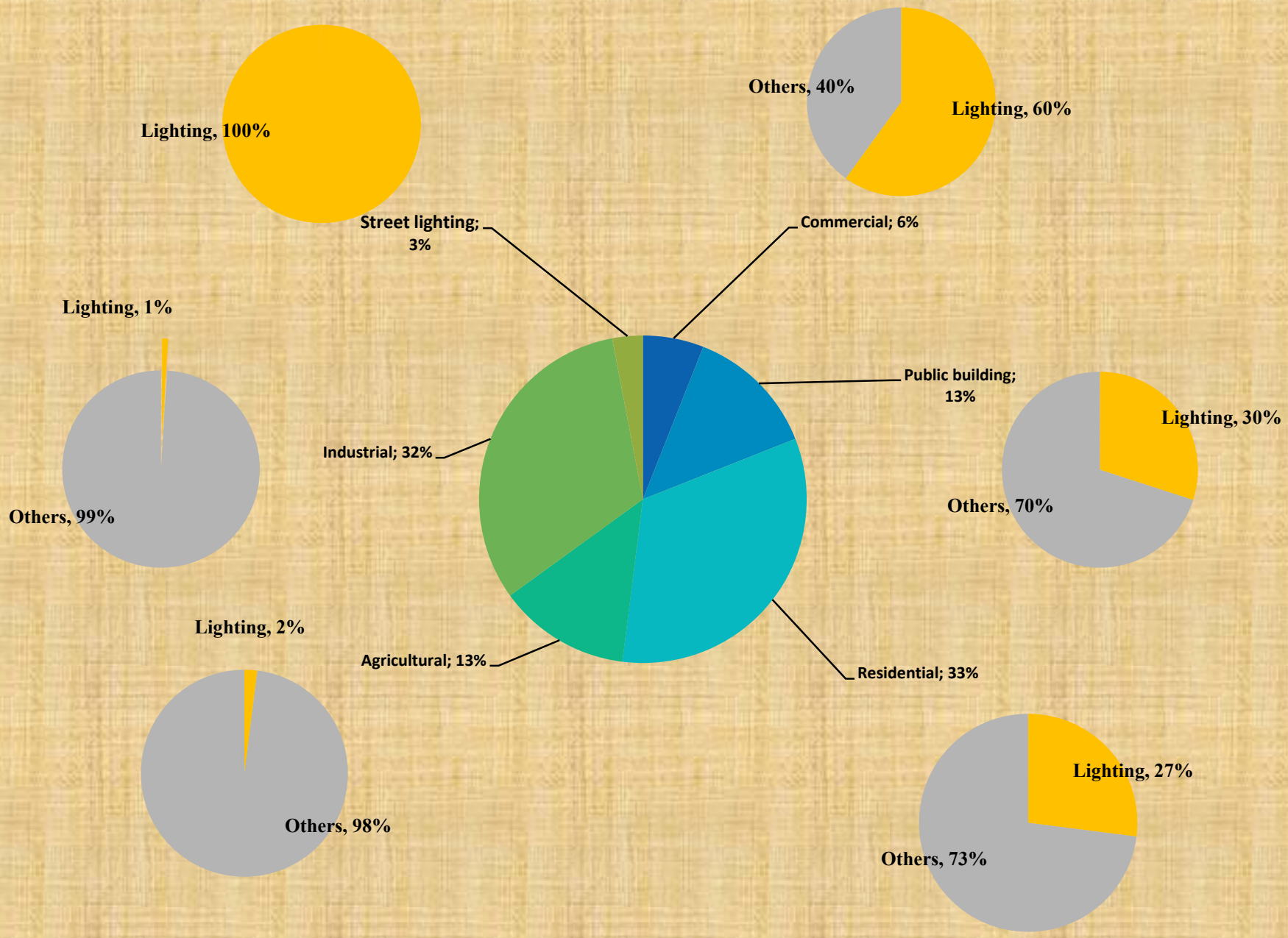
Zarbakhsh-M.H. Mohazzab torabi-S

WWW.SABA.ORG.IR

Summary of project

- Since the growing rate of electricity consumption per year was about 7-8% and there was a sharp peak load, then the Ministry of electricity has launch a project by "Iran Energy Efficiency Organization" to distributed 100 million CFL lamps in last than 2 years for 21 million household.

Share of lighting in electricity consumption in different sector



Old Method of Distribute

1- Concentrated approach (distributed by 1 company) ,this process has started in 2001-2002

2-Non concentrated(by several company) which created unnecessary technical contractual condition such as : high power factor , low harmonic current distortion

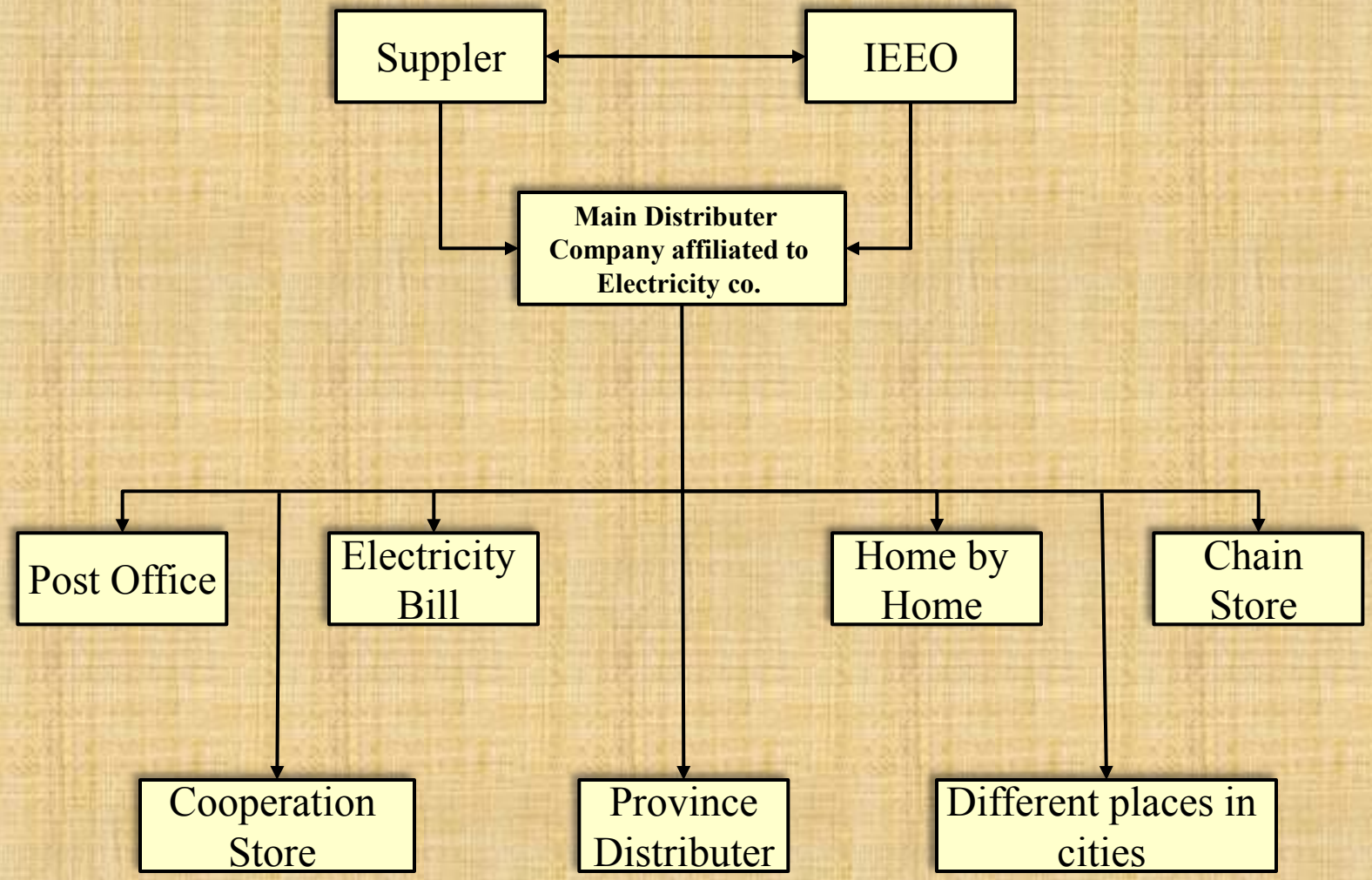
3- To leave to third party legal company , through conducted a contract between regional electrical company and 1 CFL producer & 1 cooperation distributer.

The results: in 2001-2007 could distribute 15 million CFL

Introducing a model for targeted urgent distribution of CFL

Designing a new formula & method

Methods of distributed CFL under Central control by IEEO



Organized the group of electricity personnel to dispatch to different places

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Promotion of energy efficiency and CFL at school

Distributing CFL and pamphlet to public

Distributing CFL

Distributing CFL

Collecting high consumer lamps

Collecting incandescent lamps

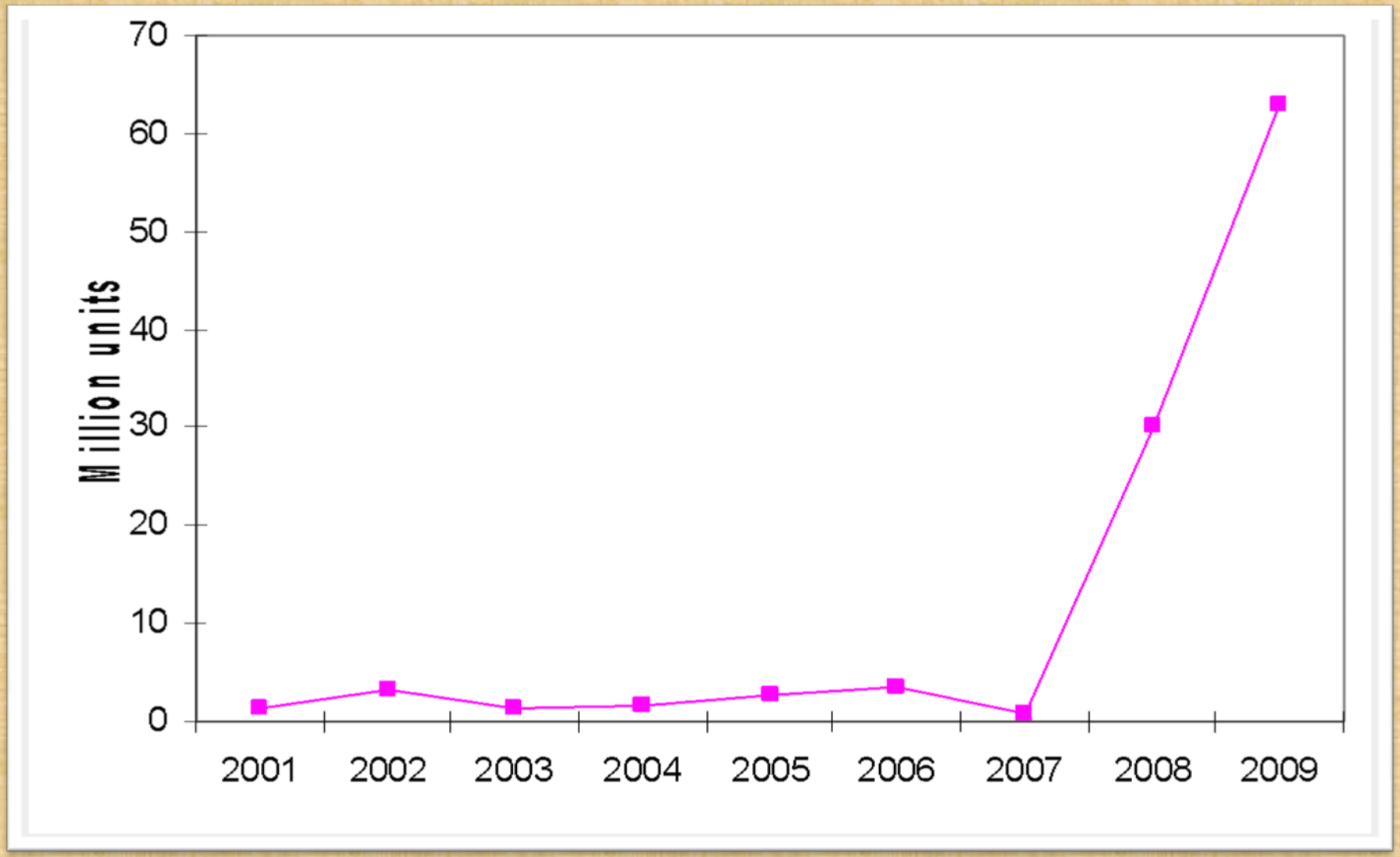
Use of CFL in Mosque

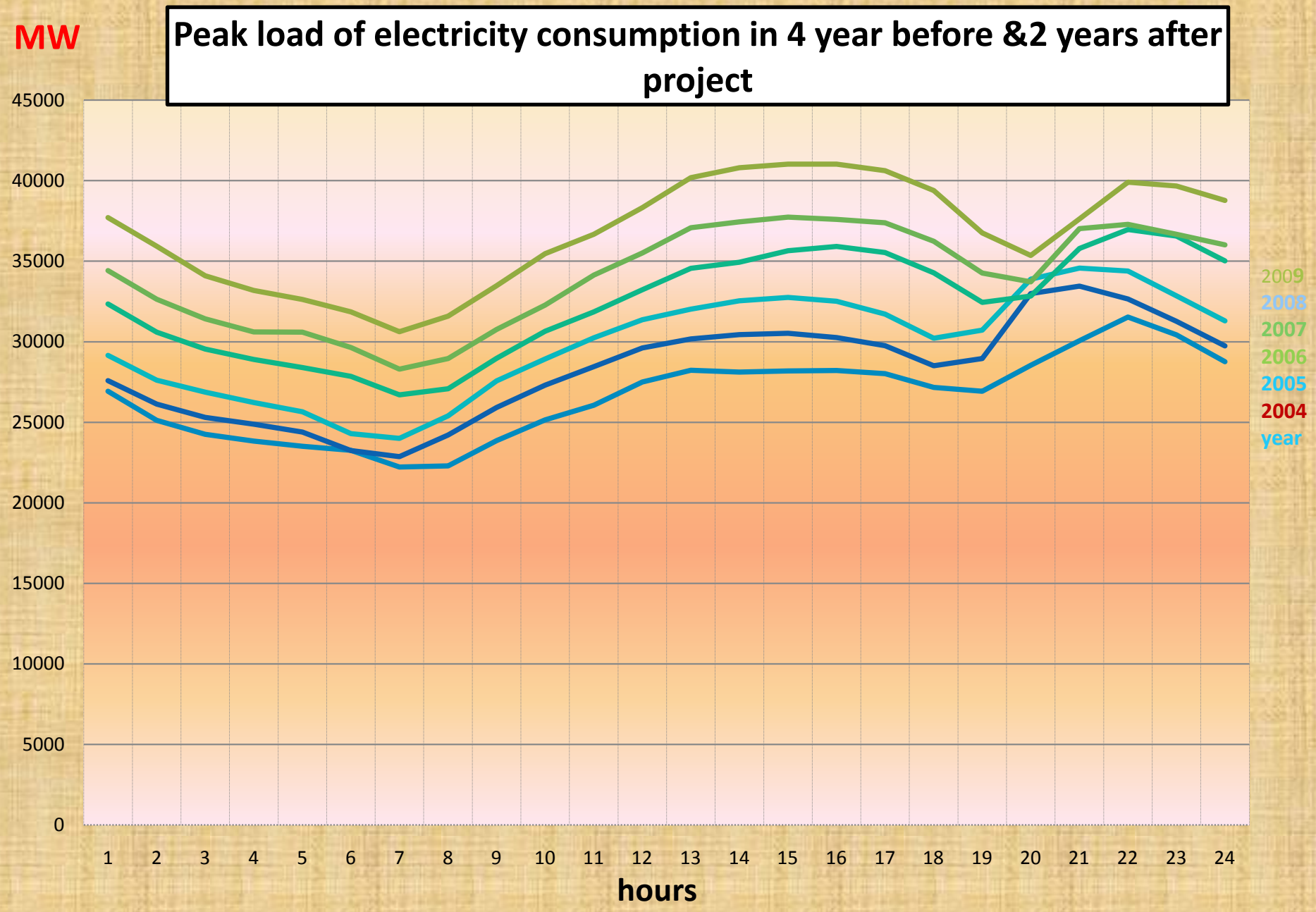
Use of CFL in market

Use of CFL in commercial building

Use of CFL in fruit market

Trend of CFL distributed before implemented project and after




Peak load of electricity consumption in 4 year before &2 years after project
MW
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
hours
2009
2008
2007
2006
2005
2004
year

Achievement of the development plan for CFL Lamp

Overall, the distribution of CFL lamps with subsidy in the country has following results:

♣ reduce power consumption rate of at least 1750 MW in the peak network

♣ save at least 3.8 billion kilowatt hours in annual energy consumption

♣ No need for producing gross electricity of 2100 MW

♣ avoid producing 2.7 million tons of greenhouse gases

♣ 80% savings in energy consumption and 75% in lighting costs per subscriber

♣ increase the quality of domestically produced lamps

♣ Reducing the production cost lamps by providing high volume production facilities

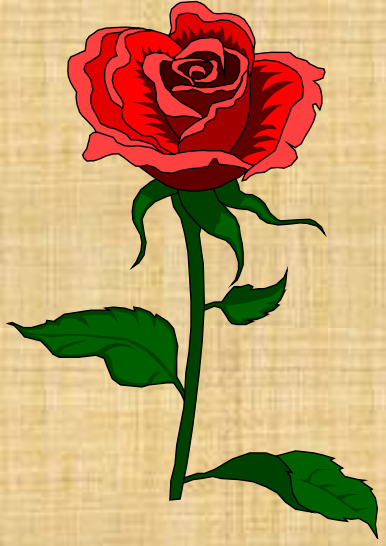
♣ increase consumer satisfaction by increasing longevity and lamps LUX

Suggestions to World Energy Day 2011

1- Preparing a supporting program to replace 10 million incandescent bulbs every year till 2020 (free of charge).

2- Preparing a supporting program for making and promotion of self generate electricity for home appliances through renewable energy .

3- Create global energy box to help and support their energy efficiency activities for under develop countries .



THANK YOU

and have a

SUSTAINABLE FUTURE