

# Energy Efficiency Program in India

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## The power supply position in the country during 2009-10 to 2017-18 :

Year	Energy				Peak			
	Requirement	Availability	Surplus(+)/Deficts(-)		Peak Demand	Peak Met	Surplus(+) / Deficts(-)	
	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
2009-10	8,30,594	7,46,644	-83,950	-10.1	1,19,166	1,04,009	-15,157	-12.7
2010-11	8,61,591	7,88,355	-73,236	-8.5	1,22,287	1,10,256	-12,031	-9.8
2011-12	9,37,199	8,57,886	-79,313	-8.5	1,30,006	1,16,191	-13,815	-10.6
2012-13	9,95,557	9,08,652	-86,905	-8.7	1,35,453	1,23,294	-12,159	-9.0
2013-14	10,02,257	9,59,829	-42,428	-4.2	1,35,918	1,29,815	-6,103	-4.5
2014-15	10,68,923	10,30,785	-38,138	-3.6	1,48,166	1,41,160	-7,006	-4.7
2015-16	11,14,408	10,90,850	-23,558	-2.1	1,53,366	1,48,463	-4,903	-3.2
2016-17	11,42,929	11,35,334	-7,595	-0.7	1,59,542	1,56,934	-2,608	-1.6
2017-18*	1,01,329	1,00,810	-520	-0.5	1,59,590	1,58,393	-1,198	-0.8

**Highlights – To reduce lighting power consumption from 18% to 13% by year 2020 by changing existing domestic light sockets and street lights with LED**

Garnering	Garner technical support from GLA, ISA and Japanese Association JLMA
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## Lighting data

	2005	2014	Est 2020
<b>LIGHTING POPULATION</b>			
Light Points	1.3 billion	>2 billion	> 2.5 billion
Streetlight points	22 million	30.5 million	47 million
Down Lights	15 million	32 million	60 million
<b>PROJECTED SALE</b>			
CFL	20 million	> 450 million	Nil
Incandescent Lamps	1 Billion	800 million	600 million
LED LAMPS	Nil	2 million	600 million
DOWN LIGHTS		1 million	9 million
STREET LIGHTS	1.5 million	3 million	7 million
<b>CFL Manufacturing Capacity in India</b>	4 million	> 1 billion	Conversion to LED manufacturing

# Lighting business projection in India

## Quantity Sales between 2016 to 2020

- Street Lights - > 40 million pieces
- LED Lamps > 1.5 billion pieces
- Down Lights > 50 million pieces

## Value Sales

- TOTAL LED PRODUCTS – Value > Rs 23,000 Cr in year 2020 = US\$ 3.5 billion
- 2017 to 2020 > Rs 75,000 Crores
- US \$ > 12 Billion

# LED Scenario – 2016-17

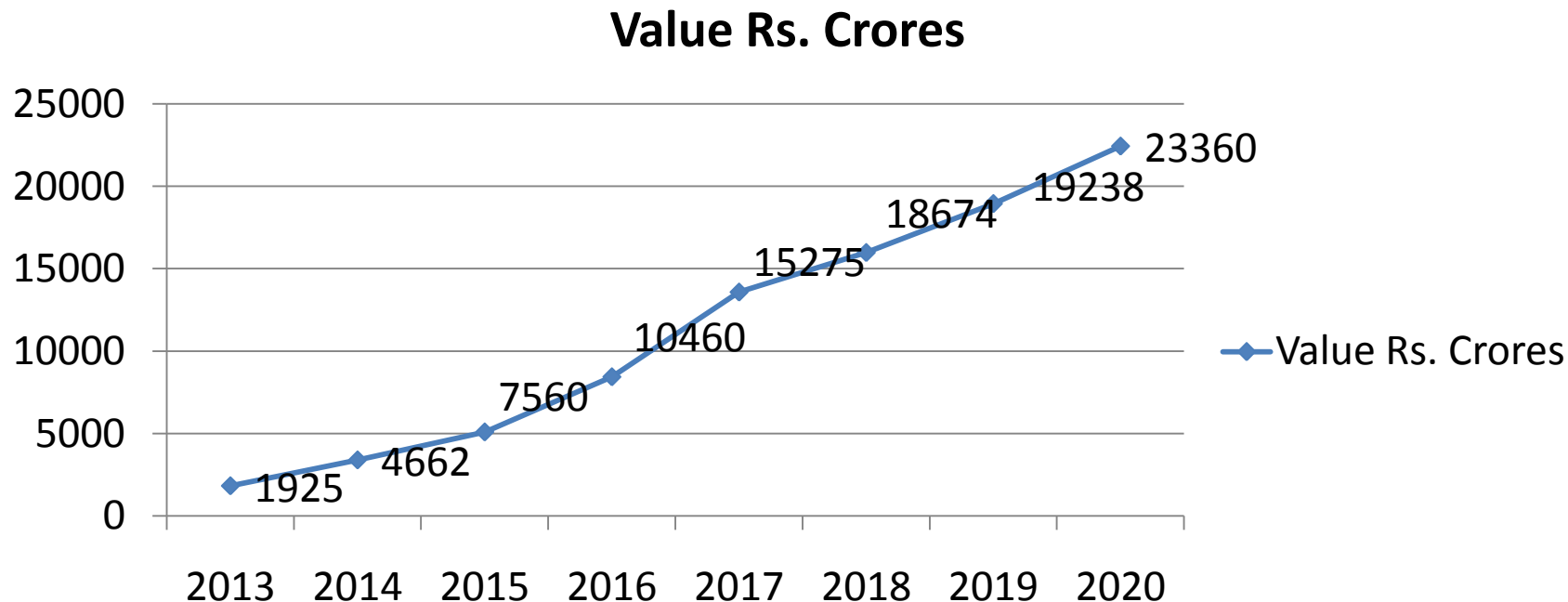
- Members reduced MRP of 9W LED Lamp to less than Rs. 100
- Given complete range from 1W to 25W to counter EESL one wattage lamp of 9W
- Industry full diversion on making of LED Lighting products in India
- State governments initiated large procurement for LED Lamps and Street Lights
- Compulsory Registration Scheme by Deity
- BEE initiated LED Labeling program
- Shift government regulation to BIS to make standards mandatory and give license
- Many new global manufacturers entering in LED Business in India
- Initiative of one lighting point to all unelectrified households
- Solar street lights in all villages
- Special Street Light technicians training program

# Development of Lighting business projection in India

## Year 2020

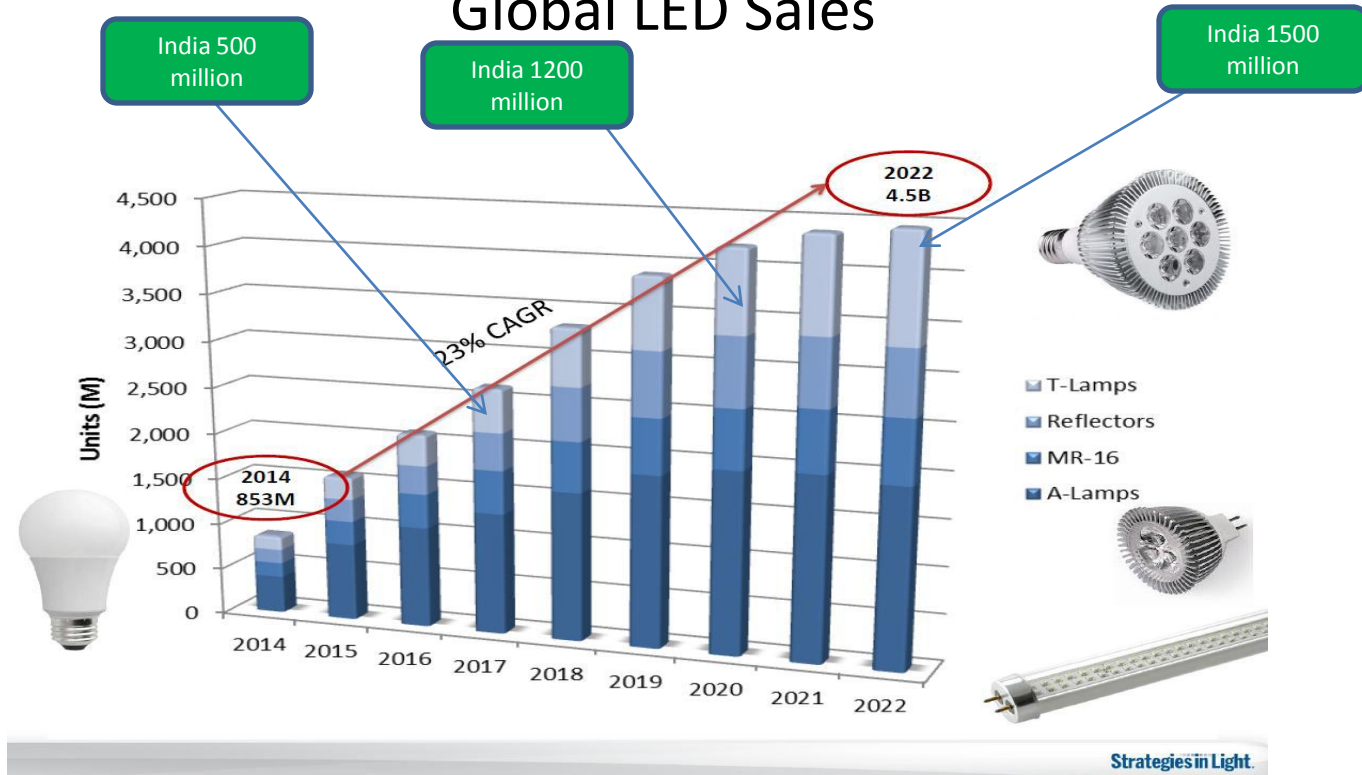


# Estimated LED Business Development





# Global LED Sales



# EESL Vs Industry

## LED LAMPS PROCURED AND DISTRIBUTED FROM 2014 TO 2016

LED Lamps 2014-2016

Qty million pieces

YEAR	EESL	INDUSTRY	TOTAL	
2014/2015	114.45	22.09	136.54	
2016	103.00	147.90	250.09	
TOTAL 2014-2016	217.45	169.99	387.44	Actual distributed
Actual procured	228.25	169.99	398.24	
STREET LIGHTS	1.60	2.10	2.38	Million Pieces

# Off-grid lighting program in India

- 2010 > 35% without electricity
- 2016 > 30%
- Action on war footing to provide electricity to all by off-grid lighting by year 2019
- **Status of Rural Electrification (RE) under DDUGJY**
- Government of India has launched the scheme “Deendayal Upadhyaya Gram Jyoti Yojana” for rural electrification. Rural Electrification Corporation is the Nodal Agency for implementation of DDUGJY.
- Under DDUGJY-RE, Ministry of Power has sanctioned 921 projects to electrify 1,21,225 un-electrified villages, intensive electrification of 5,92,979 partially electrified villages and provide free electricity connections to 397.45 lakh BPL rural households. As on 30th June 2015, works in 1,10,146 un-electrified villages and intensive electrification of 3,20,185 partially electrified villages have been completed and 220.63 lakh free electricity connections have been released to BPL households.

# More Opportunities

- “Make in India”
  - Manufacturing Partnerships with OEMs
  - LED Chip manufacturing – government support
- 100 Smart Cities
- New Intelligent Lighting
- Beyond lighting
  - Poultry
  - Medical / Health
  - Horticulture
- Off-grid Lighting

Thank you

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