



# ***Role of Energy Efficiency in contributing Economic Recovery in Energy Sector***

***Abhay Bakre, Director General  
Bureau Of Energy Efficiency  
Ministry of Power  
Government of India***

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# Energy Savings in India in 2018-19 - Highlights

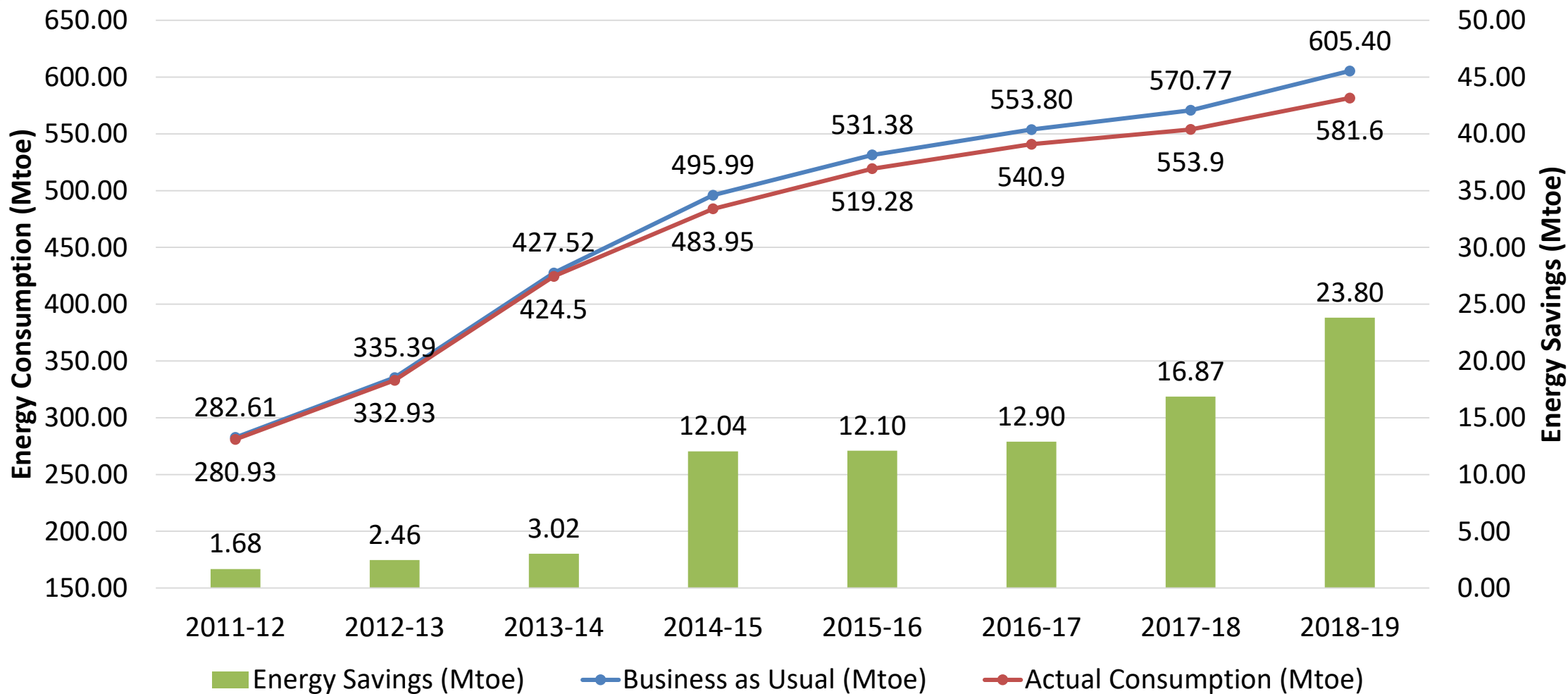


Savings	Electrical	Thermal	Total
Energy	136.37 BU	12 Million Toe	<b>23.73 Million Toe</b>
Monetary (USD Billion)	9.58	3.15	<b>12.73</b>
Emissions	111.83 Mt CO2	39.91 Mt CO2	<b>151.74 Mt CO2</b>

- Avoided capacity generation of **43.24 GW**
- Total energy savings is **2.7%** of total primary energy supply of the country



# Energy savings vis-à-vis Energy Consumption

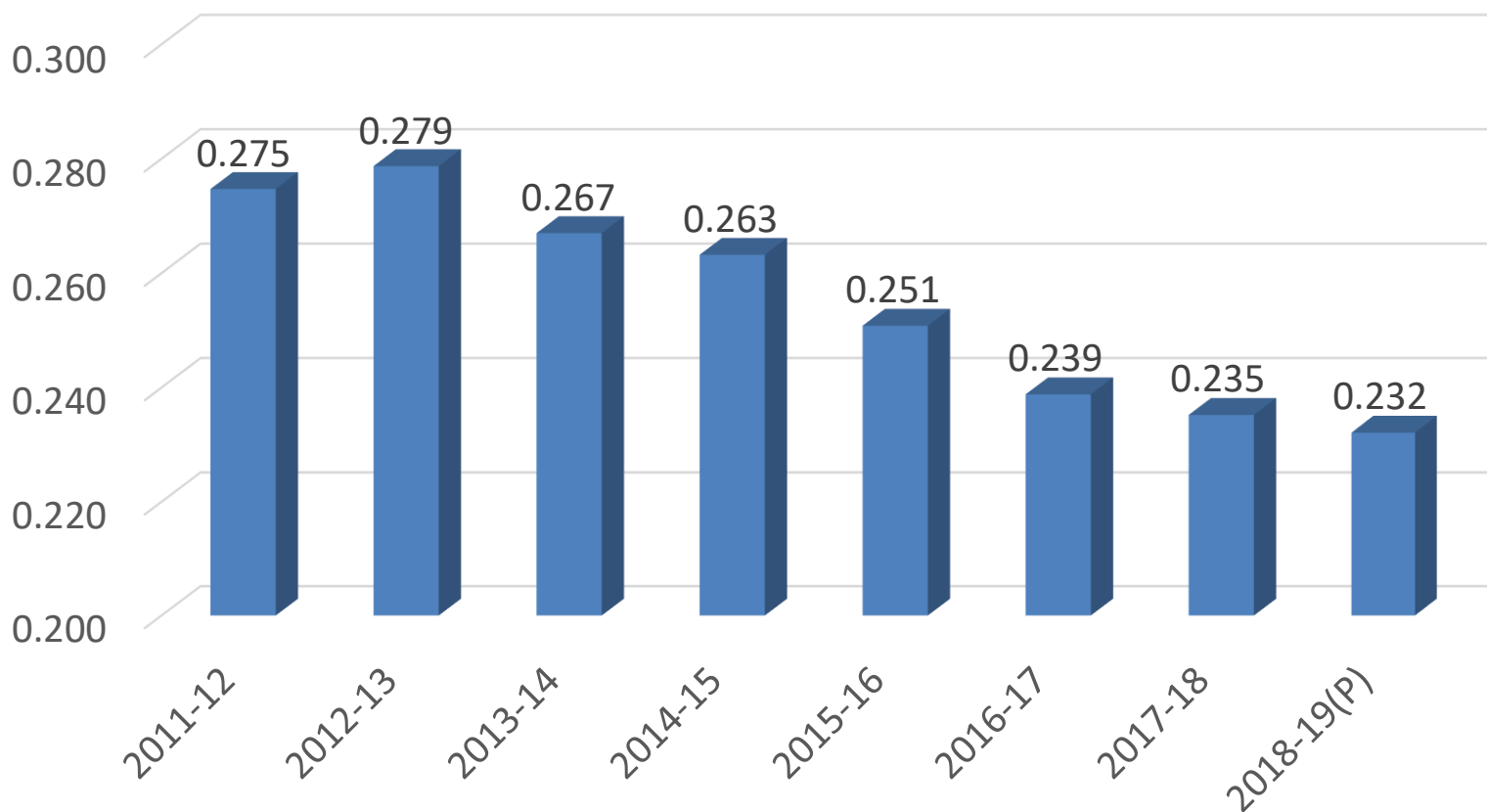




# Declining Energy Intensity - INDIA



Energy Intensity of India at 2011-12 prices in Mega Joule / rupee



Source: Energy Statistics 2020

This decline may be due to:

- Faster growth of GDP than energy demand
- The services sector having a growing share of the economy
- **Effective implementation of energy efficiency programmes**



# Impact of major sectors on Energy Savings



Name of the Sector	Thermal (Mtoe)	Electrical (BU)	Reduction in CO <sub>2</sub> emission (Mt CO <sub>2</sub> )	Monetary Savings (USD Million)
Industry (Perform, Achieve and Trade)	11	30	62	4920
Appliance (Standards & Labelling)	-	49	40	3475
Domestic Lighting (UJALA)	-	47	39	3362
Street Lighting (SLNP)	-	7	6	530



# Sector-wise Potential 2030



Sector	Energy Consumption (BAU)	Savings	Emission Reduction	Investment Potential
	Mtoe	Mtoe	(MtCO <sub>2</sub> )	(USD Billion)
Agriculture	64.4	5.7	14	7.35
Commercial	29.5	4.9	34	11.59
Domestic	98.6	12.1	101	17.18
Municipal	8.0	0.9	7	1.19
Industrial	443.4	47.5	185	73.59
Transport	232.9	15.8	97	32.29
<b>Total</b>	<b>876.8</b>	<b>86.9</b>	<b>438</b>	<b>143.19</b>

**Energy Efficiency is likely to contribute 45% - 50% towards India's NDC Commitments**



# Economic Recovery Options



- Promoting Indigenous component manufacturing.
- Cover new appliances to promote energy efficiency .
- Increasing acceptability of BEE star labelled products abroad.

- Technology replacement: ESCO model
- Accelerated Deployment of Energy Efficient technologies to stimulate MSME sectors
- Enhancing MSME Technology Services

- Promoting Cold-chain sector
- Create skilled technical manpower and job opportunities
- Accelerating adoption of clean technologies

- EE measures through deep-retrofitting in Hospital & govt. buildings
- Supporting construction through manufacturing of EE Glass

## Economic Recovery Options

