

Energy Efficiency Services Limited (EESL)

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About the Energy Efficiency Services Limited

- Energy Efficiency Services Limited (EESL) is an Super Energy Service Company (ESCO) of the Government of India and is the world's largest public ESCO.
- Founded in 2009, EESL is promoted by the Ministry of Power, Government of India as a Joint Venture company of four Central Public Sector Undertakings, viz.
 - National Thermal Power Corporation (NTPC) Limited
 - Power Finance Corporation (PFC) Limited
 - Rural Electrification Corporation (REC) Limited and
 - POWERGRID Corporation of India Limited
- EESL was formed under India's Ministry of Power to facilitate energy efficiency projects

Vision

Universal access to sustainable energy solutions to enable a low carbon future, with significant economic and social impact.

Key features of EESL

- EESL is implementing the world's largest energy efficiency portfolio across sectors like lighting, buildings, electric mobility, smart metering, agriculture, etc. at a scale which no organization has been able to achieve.
- EESL's energy efficiency solutions have saved India over 47 billion kWh energy annually while reducing 36.5 million tonnes of carbon emission.
- It focuses on solution-driven innovation with no subsidy

or capital expenditure (CAPEX).

- EESL is the world's largest energy service company (ESCO) that is driving numerous initiatives that are potential game-changers in building a conducive ecosystem for energy-efficient technologies, across geographies.
- It aims to create market innovations with a solutions-driven approach through its Zero-Subsidy, Zero-Capex, and Pay-As-You-Save (PAYS) novel business model.
- EESL has taken its market transformation business model to the UK, Middle East, South Asia, and South-East Asia

Various projects under EESL

- **UJALA programme:** Launched on 5th January 2015, Unnat Jyoti by Affordable LED for All (UJALA) programme. Under UJALA scheme, LED bulbs, LED Tube lights and Energy efficient fans are being provide to domestic consumers for replacement of conventional and inefficient variant
- **The Street Lighting National Programme (SLNP):** It aims to replace 3.5 crore conventional street lights with smart and energy-efficient LED street lights in rural and urban areas
- **Agriculture Demand Side Management:** The objective of the AgDSM program is to reduce peak demand and total energy consumption of agriculture. The program is to replace inefficient agricultural pump sets for BEE star-energy-efficient pump sets to reduce energy consumption
- **Atal Jyoti Yojana:** EESL is implementing Atal Jyoti Yojana (AJAY), a sub-scheme under Off- Grid and Decentralized Solar Application Scheme of MNRE. Under AJAY, Solar LED Lights are being installed in rural, semi-urban and urban areas which don't enjoy adequate coverage of power.
- **Municipal Demand Side Management:** EESL identified a great potential to tap the municipal demand-side management (MuDSM) in India which includes replacing the

inefficient pump sets in the municipalities with efficient ones.

- **Solar Agricultural Pump sets:** EESL intends to provide a reliable source of agricultural pumps via solar mini-grids. With such grids, farmers could receive considerable revenue by selling the excess power to the grid over 25 years.
- **Creating and Sustaining Markets for Energy Efficiency project:** EESL partnered with the Global Environment Facility (GEF) for the project Creating and Sustaining Markets for Energy Efficiency, focusing on energy efficiency programs, and aiming to mitigate CO2 emissions by 60 million tonnes. This is one of the largest funding by GEF so far

Achievements of EESL

- EESL implemented 10 energy efficiency projects during the financial year 2014-2015, with an investment of Rs.147 crores.
- This saved 285 MW or 96.36 MU and thereby reduces carbon-dioxide emission by 77 million kg per year. EESL says it makes energy efficiency accessible, affordable, and safer.
- Its programs distributed over 36.15 crore LED light bulbs and replaced 1.07 cr street lights with LED lights on 30 January 2020.
- EESL spearheaded and implemented the Government of India's zero-subsidy UnnatJyoti by Affordable LEDs for All (UJALA) programme by distributing LED bulbs and Street Lighting National Programme (SLNP) by retrofitting street lights with LEDs
- Today, UJALA is the world's largest domestic lighting project and SLNP is the world's largest streetlight replacement programme.
- EESL and Provincial Energy Authority, Ministry of Interior, Royal Thai Government exchanged an MoU during

the event for long-term cooperation and collaboration to advance the implementation and deployment of energy efficiency measures at SMEs in Thailand.