



**USAID**  
FROM THE AMERICAN PEOPLE

# NET ZERO ENERGY

STRATEGY | IMPLEMENTATION | CAPACITY BUILDING

Accelerating Transition of Institutions,  
Communities and Cities to Net Zero Energy



Institutions



Cities



Communities



## CONTEXT

South Asia:  
On The Path To Net Zero

- **India** to achieve **Net Zero Emissions** by 2070
- **Bangladesh** to reduce **22% Carbon Emissions** by 2030
- **Bhutan** to continue to be a **Carbon-Negative** country
- **Maldives** to reduce **26% Emissions** by 2030
- **Nepal** to achieve **Net-Zero Emissions** by 2050
- **Sri Lanka** to achieve **70% Renewable Energy** by 2030

# KEY INTERVENTIONS



Accelerating Indian Railways' journey towards Net Zero Carbon Emissions by 2030.



Advancing NTPC's Decarbonisation Journey.



Transforming EESL as a key institution to deliver India's Net Zero commitment.



Continued Support for Nalanda University's Net Zero Carbon Campus.



Piloting South Asia's 1st Grid-Interactive Net Zero Energy Building.



Net Zero Energy Buildings Knowledge Portal for South Asia.



Accelerating Cities and Municipal corporations to Net Zero Energy.

# KEY INTERVENTIONS

01



- **Energy Efficiency**
  - Energy efficiency policy & action plan
  - Low carbon cooling solutions
  - Net Zero certification for buildings
- **Renewable Energy**
  - Strategy & action plan for renewables
- **eMobility**
  - Business models & procurement of 'e-mobility as a service'
- **Green Public Procurement**
  - Innovative tenders & contracts

INDIAN RAILWAYS

## NTPC

- Net Zero Energy Transformation Plan for Townships
- Net Zero Certification
- Low Carbon District Cooling
- Digitization for Real Time Carbon Management
- Mobilizing Climate Finance

## EESL

- Vision & Strategy 2030 for 'Enabling Net Zero'
  - Design & Implementation of programs
  - Innovative Business & Financing Models
- Program Areas
- Cooling
  - Buildings
  - Rooftop Solar
  - eMobility
  - Industries
  - Utilities
  - Cities
  - Villages

02



04



03



05



- Nalanda University Net Zero Carbon Campus
- TSREDCO Grid-Interactive Net Zero Energy Building
- Sustainable Energy Transition Roadmap for Municipal Services & Transport for cities in South Asia

NET ZERO CITIES,  
CAMPUSES, AND  
BUILDINGS

- Web portal for Net Zero Energy Buildings
- NZEB Knowledge Webinar
- NZEB Training & Study tours

NZEB  
KNOWLEDGE  
DISSEMINATION

# KEY ACHIEVEMENTS

MOU between USAID and EESL signed at the Clean Energy Ministerial 2023.

Nalanda University Inauguration by Prime Minister Narendra Modi as the Net Zero Energy, Water, Waste and Carbon Campus.

Net Zero Certification for 64 Indian Railway Buildings

EESL's Net Zero Vision and Strategy 2030 released.

Indian Railways' Energy Efficiency Policy and Action Plan released and adopted across all railway zones.

Tenders for procurement of 20,000 Super-Efficient Air conditioners released.

Indian Railways' Renewable Energy Action Plan developed.

Energy audit of more than 1,150 energy-intensive buildings conducted.

Tender for e-buses by Convergence Energy Services Limited (CESL) released.

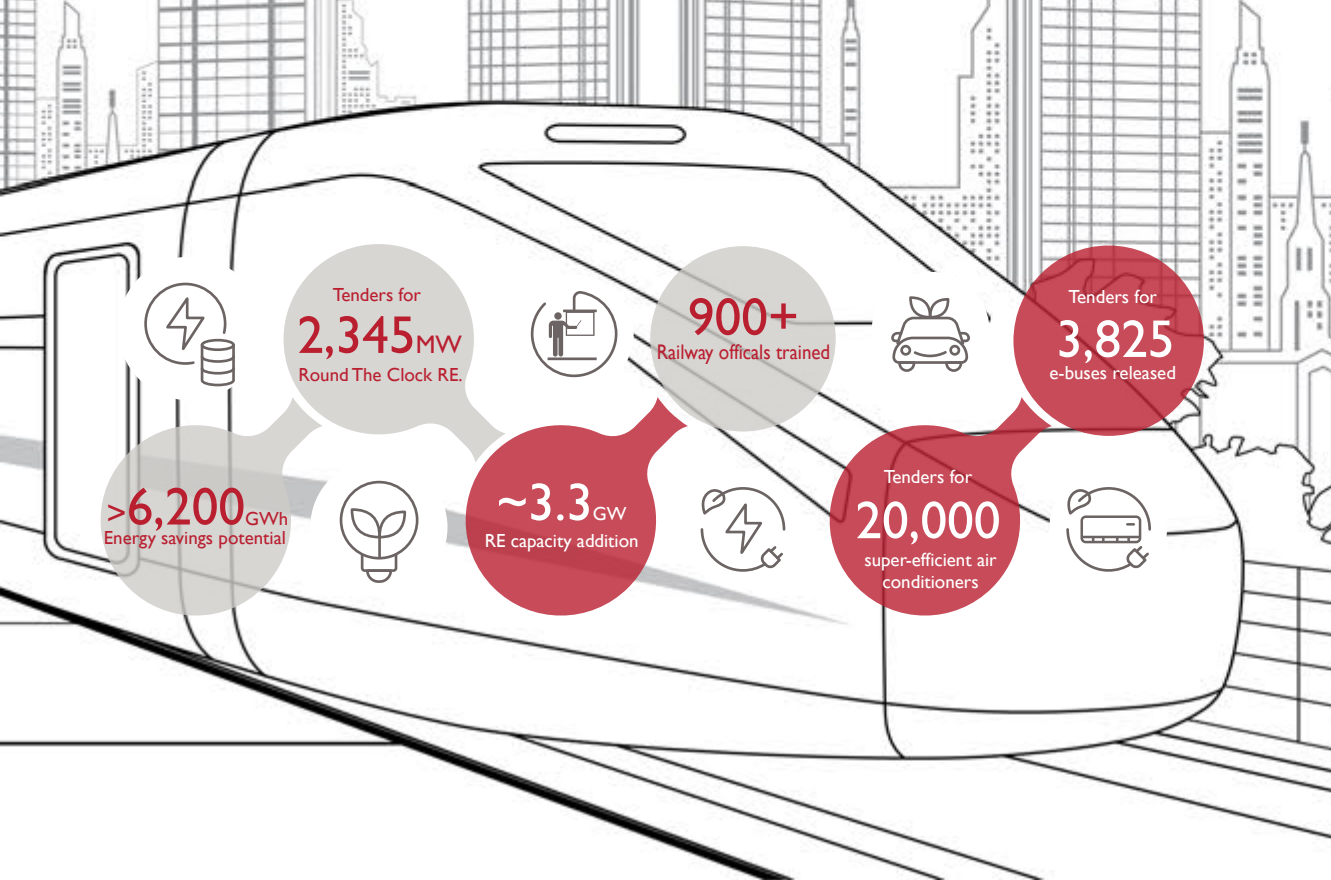
Indian Railways' tenders for procurement of Round The Clock (RTC) renewable energy awarded.

Net Zero training program adopted by Indian Railway training institutes & Training of trainers conducted.

## MoU between USAID and Indian Railways signed and declared under U.S. - India joint statement.



Both leaders welcomed the signing of an MOU under which the U.S. Agency for International Development will support Indian Railways' ambitious target to become a "net-zero" carbon emitter by 2030.



## Partners

- Indian Railways
- NTPC Ltd.
- Energy Efficiency Services Limited (EESL)
- National Smart Grid Mission (NSGM)
- Telangana State Renewable Energy Development Corporation Limited (TSREDCO)
- Nalanda University
- Ahmedabad Municipal Corporation
- Gurugram Metropolitan Development Authority
- Thimphu Thromde - Bhutan
- Kathmandu Metropolitan City Authority - Nepal
- Dhaka North City Corporation - Bangladesh
- Maldives Ministry of Climate Change, Environment & Energy (MCCEE)

## About SAREP

The South Asia Regional Energy Partnership (SAREP), a flagship program to advance objectives of the U.S. Government's Clean Asia Enhancing Development and Growth through Energy (Clean EDGE), is a five-year initiative (2021-26) that aims to improve access to affordable, secure, reliable, and sustainable energy across six South Asian countries—Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka—in line with these countries' climate and clean energy priorities.



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