Adani Energy Solutions Limited

Adding power to your aspirations
Growth, the way it is meant to be.

Growth, to us, isn’t about the businesses we’re involved in. Growth is about the real impact we can create. It’s about the lives we can touch, the communities we can nourish, and the future we can inspire. With our sheer size of operations, we have reached out to the remotest of geographies with ease. Be it power transmission, solar energy generation, or agri-logistics, we go for large-scale execution that benefits millions of Indians. We are proud of this quality of our operations, which we have consciously extended beyond our businesses to impact healthcare, education, employment generation, and the creation of sustainable livelihoods for the communities that deserve them. We believe that growth can lead to goodness that inspires and drives us.

Vision

To be a world-class leader in businesses that enrich lives and contribute to nations in building infrastructure through sustainable value creation.
AESL Mission

- Adani Energy Solutions Limited (AESL) has further set an ambitious target to set up 30,000 ckm of transmission lines by 2030 by leveraging both organic and inorganic growth opportunities.

- AESL aspires to be the largest private Transmission and Distribution (T&D) company based out of India, contributing to nation building by transmitting and distributing affordable power using operational excellence and technology-led innovation.

- To achieve the mission, the following are AESL’s top priorities:
  - Maintaining 25% market share in the private transmission market by growing through organic as well as inorganic routes.
  - Augmenting efficiencies in the distribution business.
  - Achieving sustainable operations through business excellence.
  - Driving process innovation through new technology adoption.
• Adani Group forayed into the transmission sector in 2006 to evacuate power from Adani’s Mundra thermal power plant. 5051 ckm of dedicated lines were commissioned till 2014 for power evacuation purpose.

• Looking at the enormous potential in the transmission sector, Adani Energy Solution Limited (AESL) was established (listed) in 2015.

• AESL is one of the largest private sector power transmission companies with a pan-India presence (now in 14 states touching all regions of India).

• Today, AESL has a portfolio of more than 19,779 ckm and 46,001 MVA as of FY23 (March 2023) of transmission lines with more than 40,001 MVA of power transformation capacity.

• AESL has grown through organic as well as inorganic routes by successfully integrating acquired transmission lines from KEC, GMR and KPTL.

• Adani Electricity Mumbai Limited (AEML), a wholly owned subsidiary of AESL, is one of India’s largest private sector power distribution utilities. It meets close to 2,000 MW of power demand in Mumbai’s largest and the most efficient power distribution network.

• AESL prides on maintaining system availability above 99.75% for the last three years by investing in innovative R&D practices and adopting the latest available technology.

• AESL is India’s first private power sector player to secure an international investment grade rating.

Largest private transmission company of India
Transmission

- Strategic presence across 14 states through 35 T&D projects translating to 19,779 ckm.
- 19,779 ckm and 46,001 MVA transformation capacity.
- 99.75% network availability for the last 3 years.

Distribution

- AEML operates a unique integrated model of power generation, transmission and distribution in Mumbai with 572 ckm of lines.
- Integration of Customer and Technology-enabling AEML as a supplier of choice for 12 million consumers in Mumbai.
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Transmission System for 400/220 KV GSS at Alwar and associated schemes/work |
| **Project Location**: Rajasthan  
**Project Type**: Intra State |

| **Adani Transmission Bikaner Sikar Pvt. Ltd.**  
400 KV Transmission System from Bikaner to Sikar |
| **Project Location**: Rajasthan  
**Project Type**: Intra State |

| **Chhattisgarh-WR Transmission Ltd.**  
System Strengthening for IPPs in Chhattisgarh and other generation projects in the western region |
| **Project Location**: Madhya Pradesh, Chhattisgarh, Maharashtra  
**Project Type**: Inter-state |

| **Alipurduar Transmission Ltd.**  
Transmission System Strengthening in the Indian system for transfer of power from new HEPs in Bhutan |
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**Project Type**: Inter-state |

| **Adani Transmission (India) Ltd. (ATIL)**  
Evacuation of power from Mundra and Tiroda Thermal Power Plant of Adani |
| **Project Location**: Gujarat, Rajasthan, Haryana, Maharashtra  
**Project Type**: Inter-state |

| **Hadoti Power Transmission Service Ltd.**  
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Additional System Strengthening Scheme
for Chhattisgarh IPPs (part-B)
Project Location: Chhattisgarh, Maharashtra
Project Type: Inter-state

Ghatampur Transmission Ltd.
Transmission System for evacuation of power from 3X660MW Ghatampur Thermal Power Project
Project Location: Uttar Pradesh
Project Type: Intra State

Bikaner-Khetri Transmission Ltd.
Transmission System associated with Long-Term Access (LTA) applications from Rajasthan SEZ Part-D
Project Location: Rajasthan
Project Type: Inter-state

Fatehgarh-Bhadla Transmission Ltd.
Transmission System for Ultra Mega Solar Park in Fatehgarh, Dist. Jaisalmer
Project Location: Rajasthan
Project Type: Inter-state
Upcoming Projects

Warora-Kurnool Transmission Ltd.
Additional Inter-Regional AC link for import into Southern Region (SR) i.e. Warora – Warangal and Chilakaluripeta - Hyderabad - Kurnool 765 KV link

Project Location
Maharashtra
Project Type
Inter-state

Kharghar Vikhroli Transmission Private Ltd.
Transmission System for 400 KV Vikhroli receiving station and associated incoming transmission lines for strengthening the Mumbai Transmission System

Project Location
Maharashtra
Project Type
Inter-state

Karur Transmission Ltd.
Evacuation of power from renewable energy sources in Karur/Trichy wind energy zone (Tamil Nadu) (1000 MW)

Project Location
Tamil Nadu
Project Type
Inter-state

MP Power Transmission Package-I Ltd.*
Development of Intra-State Transmission Work in M.P. through Tariff-based Competitive Bidding: PACKAGE-I

Project Location
Madhya Pradesh
Project Type
Intra-state

Sangod Transmission Service Ltd.
Construction of 2x400/220 KV, 500MVA GSS at Sangod along with 220/132 KV, 160 MVA transformer and associated transmission line i.e. 7.5 Km LILO of One Circuit of 400 KV D/c Kalisindh (400 KV) – Anta (765 KV) line at 400 KV GSS Sangod under RAJ/PPP-11

Project Location
Rajasthan
Project Type
Inter-state

WRSS XXI (A) Transco Ltd.
1STS Network Expansion scheme in western and southern regions for export of surplus power during high RE scenario in southern region

Project Location
Karnataka, Maharashtra
Project Type
Intra-state

North Karanpura Transco Ltd.
Evacuation for north Karanpura (3x660 MW) generation project of NTPC along with the creation of a 400/220 KV Substation at Dhanbad (ERSS- XIX)

Project Location
Jharkhand, Bihar
Project Type
Inter-state

Khavda-Bhuj Transmission Ltd.
Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
Gujarat
Project Type
Inter-state

Karur- Bhuj Transmission Ltd.
Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
Gujarat
Project Type
Inter-state

Karur Transmission Ltd.
Evacuation of power from renewable energy sources in Karur/Trichy wind energy zone (Tamil Nadu) (1000 MW)

Project Location
Tamil Nadu
Project Type
Inter-state

Khavda-Bhuj Transmission Ltd.
Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
Gujarat
Project Type
Inter-state

Khavda-Bhuj Transmission Ltd.
Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
Gujarat
Project Type
Inter-state

Adani Electricity Mumbai Infra Ltd. (AEMIL)
Intra-state licensed transmission scheme to support import of power into Mumbai area and a greater penetration of renewable energy by reducing dependence on older embedded generation sources

Project Location
Greater Mumbai, Maharashtra
Project Type
Intra State

Khavda II-A Transmission Ltd.
Transmission scheme for evacuation of 4.5GW RE injection at Khavda PS under Phase-II Part A

Project Location
Gujarat
Project Type
Inter-state

Warora- Kurnool Transmission Ltd.
Additional Inter-Regional AC link for import into Southern Region (SR) i.e. Warora – Warangal and Chilakaluripeta - Hyderabad - Kurnool 765 KV link

Project Location
Maharashtra
Project Type
Inter-state

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Project Location
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Project Type
Inter-state

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Project Type
Intra-state

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Project Location
Gujarat
Project Type
Inter-state

Karur Transmission Ltd.
Evacuation of power from renewable energy sources in Karur/Trichy wind energy zone (Tamil Nadu) (1000 MW)

Project Location
Tamil Nadu
Project Type
Inter-state

Khavda-Bhuj Transmission Ltd.
Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
Gujarat
Project Type
Inter-state

Karur Transmission Ltd.
Evacuation of power from renewable energy sources in Karur/Trichy wind energy zone (Tamil Nadu) (1000 MW)

Project Location
Tamil Nadu
Project Type
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Transmission Scheme for evacuation of 3GW RE injection at Khavda P.S. under Phase-I

Project Location
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Project Location
Gujarat
Project Type
Inter-state

Karur Transmission Ltd.
Evacuation of power from renewable energy sources in Karur/Trichy wind energy zone (Tamil Nadu) (1000 MW)

Project Location
Tamil Nadu
Project Type
Inter-state
To be amongst the Top Companies of the World in ESG Benchmarking of Electric Utility Companies by 2023.

AESL ESG Goal

**Biodiversity and Environment**
- AESL has become a signatory to India Business and Biodiversity Initiative (IBBI). It strengthens the commitment of the company towards biodiversity.
- AESL has publicly disclosed its Biodiversity Policy signed by the MD & CEO, which communicates the commitment of the company to do business with no-net-loss of biodiversity. AESL is taking various initiatives in line with this policy.
- Greening of sub-stations by organic cropping and plantation of cereals and fruit varieties which are native and extensive in the wild.

**Waste**
- AESL has initiated Single-Use Plastic Free Project to become a single-use plastic-free company by 2022-2023.
- AESL is certified with Zero Waste to Landfill with over 99% waste diversion rate away from landfill for its 100% assets in O&M.
- Adani Dahanu Thermal Power Station (ADTPS) is certified with Zero Waste to Landfill with over 99% waste diversion rate away from landfill.
- It also became Net Water Positive for all operational sites.
• AESL has been supporting the communities to improve education, employability of women, and enhance the safety and cleanliness culture.

Climate Change
• AESL has set a voluntary target of emission intensity reduction by 40-45% within five years from the baseline (FY 18-19) against India’s National Determined Contribution (NDC) in 2015 under the Paris Agreement and ‘Intended Nationally Determined Contribution (INDC)’.

• AEML, a subsidiary of AESL, has committed to increasing their renewable power procurement share from the current 3% in FY21 to 30% by FY23 (achieved 30% this year).

Corporate Citizenship
• AESL has been supporting the communities to improve education, employability of women, and enhance the safety and cleanliness culture.

Growth with a focus on ESG
1. Project Excellence

- Built the longest private HVDC line in Asia with a single hop of ~1000 kms and a capacity to transmit 2500 MW of power in a record time of 24 months.
- New Tower Design of Delta Tower (1st time in India) in 765 KV D/C Fatehgarh-Bhadla line Rajasthan.
- First private company in India to execute 765 KV Transmission Lines and Substations in the state of Maharashtra.
- AESL pioneered the use of π (Pi) shape tower at the Sami Substation with 6 phases Quad Moose strung on the same beam.
- The first private company to use a pre-fabricated steel structure valve hall in India.

2. O&M Excellence

- In-house team with vast O&M experience.
- Remote operation of sub-stations (Rajasthan assets) and predictive maintenance through the Energy Network Operating Centre (ENOC).
- Low-cost and condition-based O&M through tools like SCADA, and processes like IMS and Disha for robust and sustainable O&M.

3. Design & Technological Excellence

- In-house design team capable of designing towers using tools like PLS Tower and STAAD-PRO.
- Drone inspection for Asset maintenance and Pre-bid survey (LIDAR method)(1).
- ERS tool for emergency restoration of lines up to 765 KV within 48 hours for higher reliability and incentive income.
Adani Foundation

Adani Foundation is an arm of the Adani Group that works towards improving the quality of life of people in India. Established in 2003, the foundation is focused on several areas such as education, health, skill development, and community infrastructure. It operates in 19 states across India and has a reach in 5,753 villages, positively impacting 7.3 million lives.

1. Education

In FY 2022-23, 4,004 students received free education at Adani Vidya Mandir, 24,336 students received education in Adani Schools, 175 children were supported through 232 Government Schools.

2. Community Health

The Adani Foundation runs 17 MHCUs covering 7.5 lakh people and in FY 2022-23, they provided on-the-spot medical assistance to patients in remote locations. MHCUs have contributed to the proper medical and social support to encourage mothers to adopt a healthy lifestyle and behavioral change.

3. Sustainable Livelihood

The Adani Foundation supports the development of sustainable livelihoods through initiatives such as self-help groups, joint livelihood groups, and farmer organizations. It supports farmers through techniques in crop production and animal husbandry. It also supports the fishermen community.

4. Community Infrastructure Development

The Adani Foundation is building and strengthening public infrastructures. It is involved in the development of roads, water conservation structures, construction of roads, etc. for efficient water conservation and management.

5. Project Udaan

Project Udaan is a learning-based endeavor that targets government primary schools to improve the status of adolescent girls and women in the reproductive age group. Village Health Workers (VHWs) are provided with Superman and Saksham centres.

6. Saksham

Saksham or Adani Skill Development Programme (ASDC) is a skilling programme that focuses on the skills deficit prevailing among the youth of our nation. It aims to ignite the spark of ambition and aspiration among the youth of our nation.

7. Youth Empowerment

Youth Empowerment is a key focus area of the Adani Foundation, aiming to provide on-the-spot medical assistance to patients in remote locations.
Adani Energy Solutions Limited

Adding power to your aspirations

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