

Adani Energy Solutions Limited

Adding power to your aspirations

adani
Energy Solutions

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.

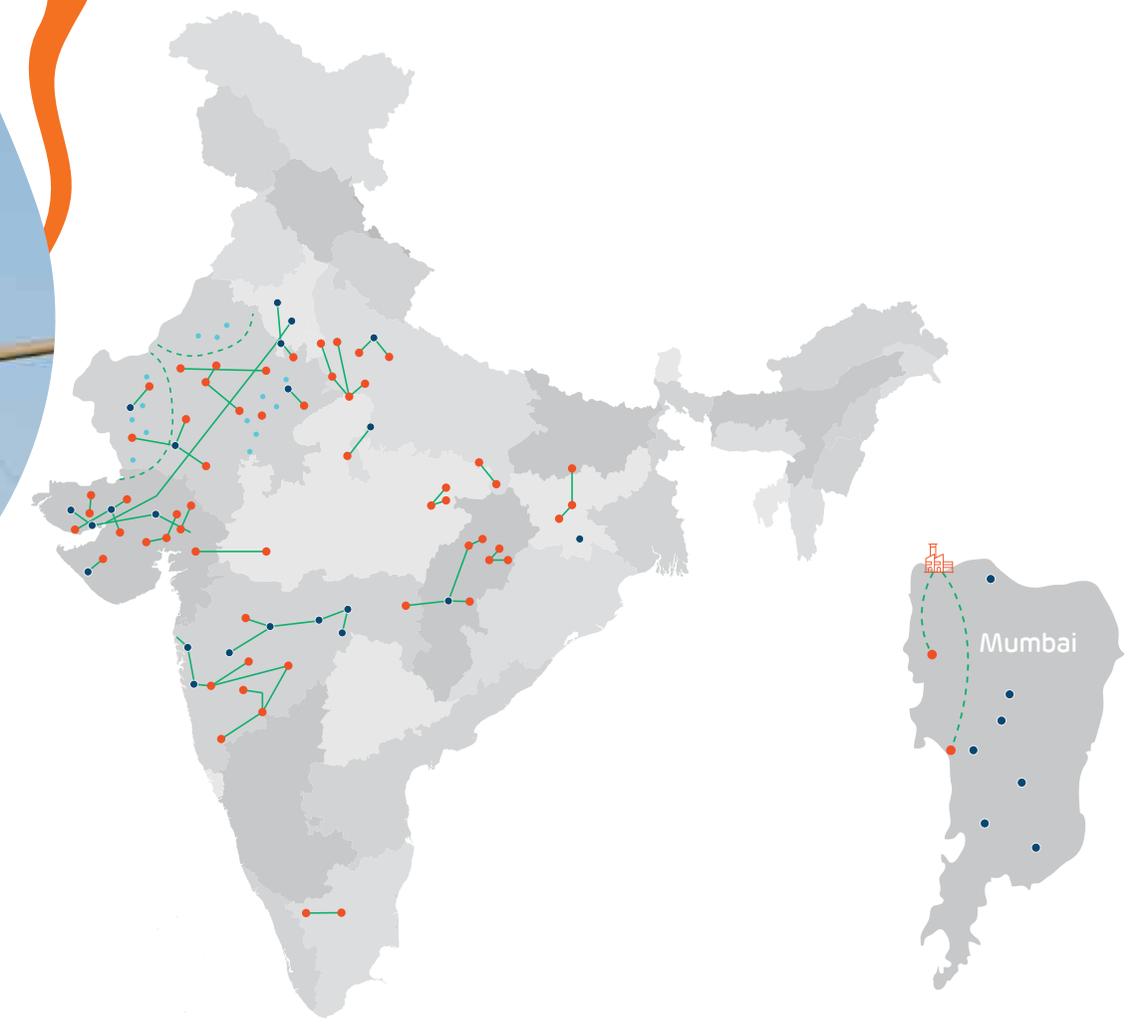


Largest private transmission company of India

- 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.



AESL Footprint



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.

Operational Projects



Hadoti Power Transmission Service Ltd.

220 KV and 132 KV Grid Substation and associated transmission lines and associated scheme/works under RAJ/PPP-8

Project Location
Rajasthan

Project Type
Intra State



Aravali Transmission Service Company Ltd.

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

Project Location
West Bengal, Bihar

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



Barmer Power Transmission Service Ltd.

132 KV Grid Substation and associated transmission lines and associated scheme/works under RAJ/PPP-9

Project Location
Rajasthan

Project Type
Intra State



Adani Transmission Rajasthan Ltd.

Transmission System for 400 KV D/C
Suratgarh-Bikaner

Project Location
Rajasthan

Project Type
Intra State



Thar Power Transmission Service Ltd.

132 KV Grid Substation and associated transmission lines under RAJ/PPP-9

Project Location
Rajasthan

Project Type
Intra State



Western Transmission (Gujarat) Ltd.

400 KV WTGL Transmission System

Project Location
Gujarat,
Madhya Pradesh

Project Type
Inter-state



Maru Transmission Service Company Ltd.

Transmission System for 400/220 KV GSS
at Deedwana

Project Location
Rajasthan

Project Type
Intra State



Sipat Transmission Ltd.

Additional System Strengthening Scheme
for Sipat STPS

Project Location
Chattisgarh

Project Type
Inter-state



Maharashtra Eastern Grid Power Transmission Ltd.

Tiroda - Koradi III - Akola II - Aurangabad Transmission Lines, 400 KV D/C Akola I - Akola II Transmission Line and associated 765/400 KV Substations and bays

Project Location
Maharashtra

Project Type
Intra State



Western Transmission Power (Maha) Ltd.

400 KV WTPL Transmission System

Project Location
Maharashtra

Project Type
Inter-state



Raipur-Rajnandgaon-Warora Transmission Ltd.

Additional System Strengthening Scheme
for Chhattisgarh IPPs (part-B)

Project Location
Chhattisgarh, Maharashtra

Project Type
Inter-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



Ghatampur Transmission Ltd.

Transmission System for evacuation of power from 3X660MW
Ghatampur Thermal Power Project

Project Location
Uttar Pradesh

Project Type
Intra 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



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	Project Type
Jharkhand, Bihar	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	Project Type
Maharashtra	Intra 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	Project Type
Maharashtra	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	Project Type
Madhya Pradesh	Intra State



Karur Transmission Ltd.

Evacuation of power from renewable energy sources in Karur/Tiruppur wind energy zone (Tamil Nadu) (1000 MW)

Project Location	Project Type
Tamil Nadu	Inter-state



Khavda-Bhuj Transmission Ltd.

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

Project Location	Project Type
Gujarat	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	Project Type
Greater Mumbai, Maharashtra	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	Project Type
Rajasthan	Inter-state



WRSS XXI (A) Transco Ltd.

ISTS Network Expansion scheme in western and southern regions for export of surplus power during high RE scenario in southern region

Project Location	Project Type
Karnataka, Maharashtra	Inter-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	Project Type
Gujarat	Inter-state



Growth with a focus on ESG

AESL ESG Goal

“To be amongst the Top Companies of the World in ESG Benchmarking of Electric Utility Companies by 2023.”



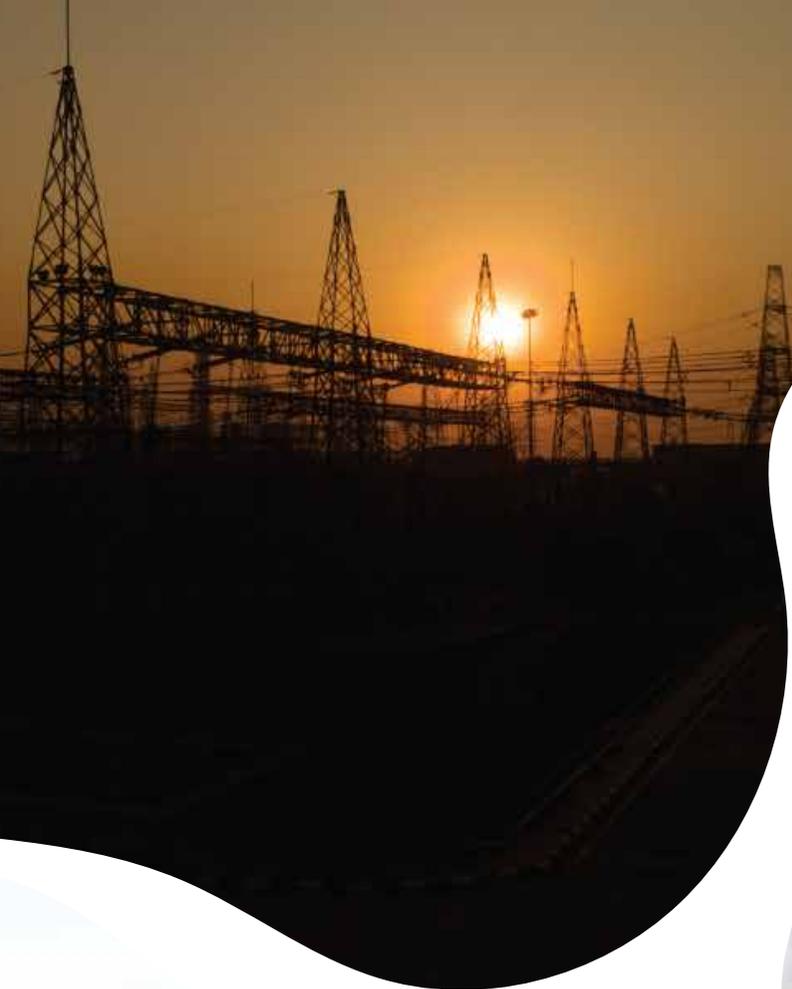
Biodiversity and Environment

- 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.



Growth with a focus on ESG



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.

2500 MW, BiPolar, HVDC Terminal Station - Muramba



Best-in-class Project Management Capabilities

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

Goodness is a practice that ought to be ingrained in those who truly believe in it. We, at Adani, leave no stone unturned to bring happiness and livelihood at every step of our journey towards Nation Building. The Adani Group invests about 2% of its total profit in social initiatives through the Adani Foundation, its community engagement arm.

Since 1996, the Foundation has remained deeply committed to making strategic social investments for sustainable outcomes throughout India. It has been active in the core areas of education, health, sustainable livelihoods, skill development, and community infrastructure. Its strategies are rooted in national priorities and global Sustainable Development Goals (SDGs). By building institutions of people and focusing on sustainability, it contributes to the dignity, well-being and wealth of the communities surrounding Adani businesses and beyond. The Adani Foundation's reach is extensive, currently operating in 5,753 villages across 19 states, positively impacting 7.3 million lives.

1. Education
In FY 2022-23, 3,094 students received free education in Adani Vidya Mandirs, 26,336 students received education in Adani Schools, 113k children were supported through 552 Government Schools

To facilitate holistic learning in an enabling environment, making it available and affordable to as many children as possible through smart technology and engaging partnerships, the Adani Foundation has been nurturing this mission called 'Education' through its flagship programs, viz., Adani Vidya Mandirs, Adani Schools, Utthan, and Gyanodaya.

A total of 4 **Adani Vidya Mandirs** are providing free education to more than 3,000 meritorious students annually, from economically weaker sections of the society. The schools offer best-in-class infrastructure and facilities to students, many of whom are first-generation learners, along with healthy meals, uniforms, books, stationery, and transportation. The AVM schools are currently operational in Ahmedabad (Gujarat), Bhadrashwar (Gujarat), Surguja (Chhattisgarh), and Krishnapatnam (Andhra Pradesh).

The Foundation runs 32 **Adani Schools** to impart quality education with a human touch to 26,000 students annually. This includes Adani Public School in Mundra (Gujarat), Adani Vidyalayas in Tirora (Maharashtra) and Kawai (Rajasthan), Adani DAV Public School in Dhamra (Odisha), Adani World School in Krishnapatnam (Andhra Pradesh), and Navchetan Vidyalaya in Hazira (Gujarat). Also included are 5 Ambuja Schools, 15 ACC schools, and 2 adopted schools.

Gyanodaya is a digital education initiative helping students in Jharkhand's Godda district. In collaboration with the Godda District Administration and Eckovation Pvt. Ltd., it is delivering a cutting-edge interactive curriculum to more than 82,000 students across 316 schools through smart classrooms. The project is covering 230 remote and untapped villages in 9 blocks of Godda district, declared an aspirational district by NITI Aayog. The passing percentage of Class 10 students has significantly improved from 50% in 2018 – when the project was introduced – to 96.59% in 2022.

Utthan aims to empower government primary schools to improve the foundational literacy and numeracy among progressive learners. An Utthan Sahayak (supplementary teacher) is appointed in each school who acts as a catalyst and facilitator. The project is reaching more than 32,000 students in 236 Government primary schools of Gujarat, Odisha, Mumbai, and Chhattisgarh.

2. Community Health
 The Adani Foundation believes that good health of people is critical for the development of our nation. Its vision of extending equitable healthcare services in remote locations, to the underprivileged sections of the society, has taken the shape of mobile healthcare units (MHCUs), rural clinics, hospitals, general and specialised health camps, and much more.

There are 14 **Rural Clinics and Wellness Centres** that are serving 57,732 people annually. The Foundation also operates **Mobile Health Care Units (MHCUs)**, providing on-the-spot medical assistance to patients in remote locations. MHCUs are armed with qualified medical professionals, generic medicines and basic diagnostic tools. Currently, 17 MHCUs cover 7.5 lakh people and in FY 2022-23, they provided 3.6 lakh treatments. **Health Camps** provide essential screening services and generate awareness alongside necessary treatment and referrals. General and specialised camps for cancer screening, gynaecology, eye health, pediatrics, etc. are held. In FY 2022-23, 490+ health camps benefitted 64,322 people.

The Adani Foundation also runs two hospitals in Gujarat. **Gujarat Adani Institute of Medical Sciences (GAIMS)** in Bhuj is the first Public-Private-Partnership (PPP) endeavor between the Government of Gujarat and Adani Education & Research Foundation. It is the only medical college and multi-specialty modern teaching district hospital (G.K. General Hospital) in Kutch district. In FY 2022-23, it catered to 3.56 lakh patients in the Out-Patient Department (OPD) and 40,558 patients in the In-Patient Department (IPD). The **Adani Hospital** in Mundra is a 100-bed secondary care hospital catering to healthcare needs of the local

population of Mundra and neighbouring areas. It is committed to grooming medical professionals and providing clinical services at affordable rates. In FY 2022-23, it provided 46,135 OPD and 1,821 IPD services.

3. Sustainable Livelihood Development
 The Adani Foundation's work is rooted in the belief that a society made of self-reliant individuals can contribute towards the well-being of their family, society and the nation at large. We promote efficiencies in agriculture and allied activities as well women's entrepreneurial ventures for establishing sustainable sources of livelihood. The objectives of these initiatives are to increase, diversify and sustain the income of community members.

The programs span from skilling and offering support in market linkages to creating Self-Help Groups (SHGs) and the adoption of new and innovative techniques in crop production and animal husbandry. It also supports bringing alternate livelihood to the fishermen community and supporting tribal artisans.

More than 16,928 members are engaged in 1,558 community-based groups such as Self-Help Groups (SHGs), Joint Livelihood Groups (JLGs) and Farmer Producer Companies (FPCs), and their turnover in FY 2022-23 was INR 30.57 crores. Each member is earning INR 3,300 per month on an average, with a total turnover of INR 40 crores till date.

4. Community Infrastructure Development
 The Adani Foundation is building and strengthening public infrastructures. It is dedicated to assessing community needs and aspirations for designing and providing suitable infrastructure solutions. The approach is to supplement Government's efforts in schools, primary health care centres, large water conservation structures, construction of roads, etc. For efficient water conservation and management, the Foundation has constructed 21 check dams and revived 400+ ponds and streams across various CSR sites in India. This initiative has helped boost the water storage capacity to 10 million cubic metres, bringing more than 20,000 acres of land under irrigation.

SuPoshan: Project SuPoshan is a community-based intervention to combat malnutrition in children under five years of age and improve the nutritional status of adolescent girls and women in the reproductive age group. Village level volunteers are identified and trained to become SuPoshan Sanginis, who play a pivotal role in spreading awareness, promoting referrals and catalysing behavioural change. The initiative is spread across 13 states in more than 3.51 lakh households. 535 SuPoshan Sanginis, the village-level volunteers, ensure the proper medical and social support to encourage mothers to adopt a healthy lifestyle.

Saksham: Saksham or Adani Skill Development Programme (ASDC) is a skilling program that focuses on bridging the skill gap among the youth, making them employable and thus, contributing to nation-building. The program is in line with the Government of India's Skill India Mission. Saksham has partnered with the National Skill Development Corporation (NSDC) and has trained more than 1,25,018 young persons. Its innovative courses include simulator-based crane operation, 3D printing and welding through Augmented Reality. Currently, there are 30 Saksham centres operational across 10 states in India, offering skill training in 75+ trades.

Udaan: Project Udaan is a learning-based endeavour that specifically targets the youth of our nation. It aims to ignite the spark of ambition and aspiration within them. As part of this initiative, carefully planned exposure tours are organised, offering students a unique opportunity to visit various Adani Group sites, including Adani Port, Adani Power, Adani Airports, and Adani Wilmar facilities. These immersive trips serve as an invaluable learning experience for the students, granting them firsthand insights into the intricacies of large-scale business operations. Till date, more than 4 lakh students and teachers from 6,205 institutions participated in Project Udaan.



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