

Adani Power Limited

# Empowering the nation for a greater future



**adani**  
Power



# 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.







## Adani Power Business

### A leader in the private power sector of India

- With the inception of its first unit at Mundra in 2006, Adani Power Limited entered the power sector of India.
- Today, Adani Power Limited is India's leading private thermal power company. It already operates 15,250 MW of power generation capacity with more under development.
- All this has been possible due to our passionate, committed, and result-oriented team, performing

exceptionally in all facets of project development and execution. Strong emphasis has been laid on developing world-class systems and practices, supported by state-of-the-art IT infrastructure to bring efficiency and sustainability into the system and strengthen the foundations of Adani Power Limited.





## Facilitating Affordable Power to All

Adani Power has been at the forefront to help drive India's economic growth engine and give its people the means to turn their dreams into reality.

By navigating the challenges through prudence, persistence and discipline, we have implemented the best available technologies and practices that can serve as benchmarks for the power industry, thus providing affordable and reliable power to all.

We possess proven capabilities in executing world-class projects and turning stressed power assets around after acquisition, aided by competent fuel, logistics management, and technical excellence. This cornucopia of capabilities is directed towards responsible nation-building.





## Cost Leadership

The Adani Group targets large investments in select portfolios without compromising on financial stability.

The Group has established a large capacity aspiration that sends out a strong message about its long-term direction. Its outsized initial capacity establishes economies of scale within a relatively short time horizon that generates substantial cost leadership (fixed and variable) across market cycles and creates a sustainable competitive advantage.

- At the Adani Group, we believe that the ability to make a significant national contribution can only be derived from a broad-based competitive advantage that is not dependent on any one factor but is the result of an overarching culture of excellence - the coming together of rich sectorial experience, timely project implementation, ability to commission projects faster than the sectorial curve, competence to do so at a cost lower than the industry average, the foresight to not only serve the market but also to grow it,

establish a decisive sustainable leadership, and evolve the organisation's position into a benchmark name within the sector of its presence.

- The company's fleet comprises strategically located plants, such as coastal assets using imported coal and hinterland assets consuming domestic coal, proximate to resource mines, representing a logistics cost advantage.
- The company's strategically selected greenfield projects and acquisitions make it competitive in a dynamic market by reducing both its fixed capital costs and variable fuel logistics costs.
- The company is continuously in the process of optimising fuel linkages to moderate logistics costs and transit losses; supply chain integration is expected to improve supply reliability on one hand and moderate costs on the other.

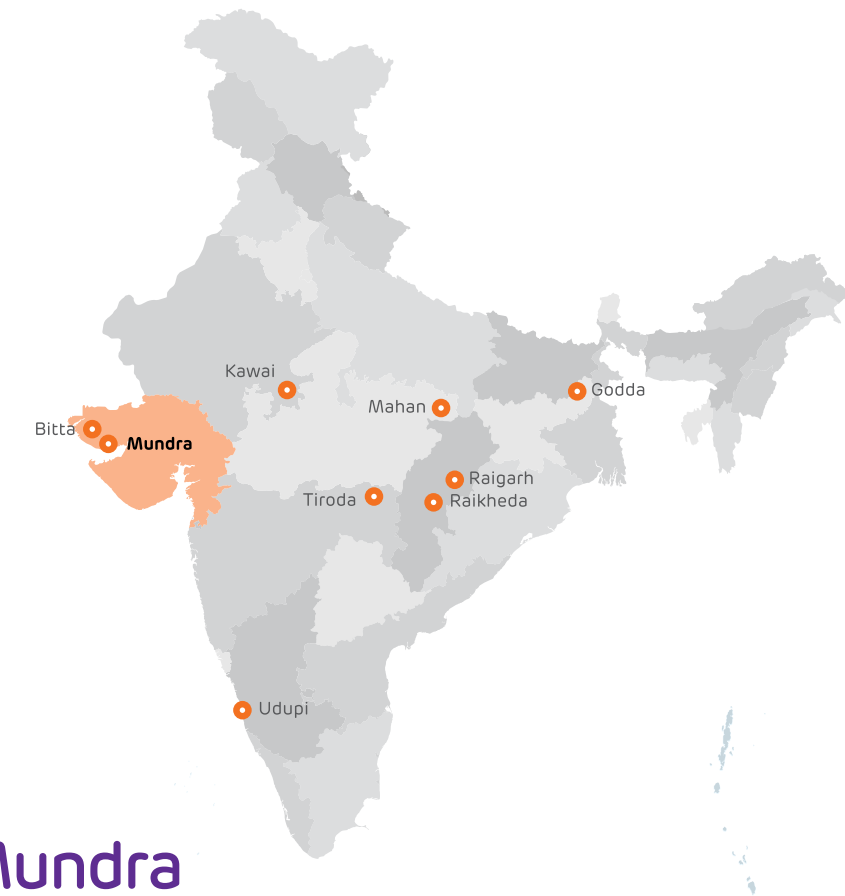




## Our Landmark Achievements

- Mundra power plant is the world's largest private single location coal-based power project.
- Mundra (Phase-III) is the first coal-based thermal power project in the world to be granted carbon credits by UNFCCC.
- Tiroda (Phase-I) is the second coal-based thermal power project in the world to be registered for CDM with UNFCCC.
- Adani Power Limited is the first in the world to develop a methodology for High Voltage Direct Current (HVDC) power transmission lines under CDM and approved by UNFCCC.
- The 433 km, 400 KV transmission line to transmit 1000 MW from Mundra to Dehegam in Gujarat and the 989 km, 500 KV High Voltage Direct Current (HVDC) bipole line with the capacity to transmit 2500 MW from Mundra to Mohindergarh in the northern state of Haryana. The latter is the first and the longest HVDC system by a private player in India.
- The Mundra (4620 MW) power plant consists of 9 units developed in a very compact area, exhibiting the lowest area taken up among other coal-based power plant installations in the country.
- Unit 5 of Mundra TPP (660 MW) was the first super-critical unit to be synchronised in India, that too within 36 months of its inception.
- Godda is the first project in the country that is constructed and made operational under Cross Border Trade of Electricity (CBTE) Guidelines of Ministry of Power, Govt of India.





## Mundra

### Adani Power (Mundra) Limited, Mundra, Gujarat (4620 MW) A flagship experience

- The Mundra power project was built in four phases of 2 x 330 MW, 2x330 MW, 2x660 MW super-critical, and 3x660 MW super-critical units. The 1,980 MW Phase-IV also incorporates Flue Gas Desulphurisers to reduce its SO<sub>x</sub> emissions.
- Mundra plant sets global benchmarks for power producers in terms of size, efficiency and sustainability. Despite its enormous capacity, the facility stands out in the world when compared on the basis of area used per MW.
- Supercritical 660 MW Unit-7 has created a national record of continuously running for 444 days in 2020.
- Towards safety standards, the power plant was awarded a five-star rating by the British Safety Council (BSC) in 2021, which is considered to be the highest in its category.
- Received IC RBNQA (Ramakrishna Bajaj National Quality Awards) Performance Excellence Trophy 2022.





## Tiroda

### Adani Power Maharashtra Limited, Tiroda, Maharashtra (3300 MW) Another feather in the cap

- With a total capacity of 3300 MW, Tiroda comprises 5 x 660 MW units. All units at this location utilise super-critical technology and supply efficient coal-based power generation.
- Tiroda uses the latest technology for environmental management and has been registered under CDM by UNFCCC.
- Tiroda operates a unique Rail Under Rail system, the first of its kind in the power sector.
- Received IC RBNQA (Ramakrishna Bajaj National Quality Awards) Performance Excellence Trophy 2019.





## Kawai

**Adani Power Rajasthan Limited, Kawai, Rajasthan (1320 MW)**  
A beacon of inspiration

- Kawai has a total installed capacity of 1320 MW. It comprises of 2x660 MW units of super-critical technology.
- For immediate connectivity, Kawai has a 1500m long airstrip and uses state-of-the-art technology for environment management.
- The power plant was awarded a five-star rating and the Sword of Honour in 2019, which is considered to be the highest in its category.
- Received IC RBNQA (Ramakrishna Bajaj National Quality Awards) Performance Excellence Trophy 2022.





## Udupi

### Udupi Power Corporation Limited, Udupi, Karnataka (1200 MW) Growing inorganically

- Udupi Power Corporation Limited is a 2 x 600 MW imported coal-based power project in the Udupi district of Karnataka.
- UPCL is the first Independent Power Project (IPP) in the country using 100% imported coal as fuel.
- UPCL places safety measures at its very core. The power plant was recently awarded for its safety principles by the FICCI Safety Excellence Award with a five-star rating and the Sword of Honor in 2020, which is considered to be the highest in its category.
- Received IC RBNQA (Ramakrishna Bajaj National Quality Awards) Performance Excellence Trophy 2022.





## Raipur

Adani Power Limited, Raipur, Chhattisgarh (1370 MW)  
Growing inorganically

- Adani Power Limited, Raipur (formerly GMR Chhattisgarh Energy Limited) was an acquisition by Adani Power in 2019.
- Raipur plant has a total installed capacity of 1370 MW, comprising 2x685 MW super-critical units.
- Towards enhanced safety standards, the power plant was awarded a five-star rating by the British Safety Council (BSC) in 2022, which is considered to be the highest in its category.





## Raigarh

**Raigarh Energy Generation Limited, Raigarh, Chhattisgarh (600 MW)**  
Growing inorganically

- Raigarh Energy Generation Limited (formerly Korba West Power Company Limited) is a recent acquisition by Adani Power.
- Raigarh plant has a total installed capacity of 600 MW comprising 1 x 600 MW unit.





## Mahan

Mahan Energen Limited, Bandhaura, Madhya Pradesh.  
Growing inorganically

- Adani Power recently acquired Mahan Energen Limited (formerly ESSAR Power MP Limited).
- The plant has an installed capacity of 1200 MW comprising 2 x 600 MW units.





## Godda

Adani Power Jharkhand Limited, Jharkhand (1600 MW)  
The new Crown Jewel

- Adani Power recently commissioned its new ultra supercritical technology based (2x800 MW) plant located in Godda district of Jharkhand.
- This is the first project in the country that was constructed and made operational under Cross Border Trade of Electricity (CBTE) Guidelines of Ministry of Power, Govt. of India.
- Godda is the first power plant in the country which started its operations from day one with 100% Flue Gas Desulphurisation (FGD), SCR and Zero Water Discharge.





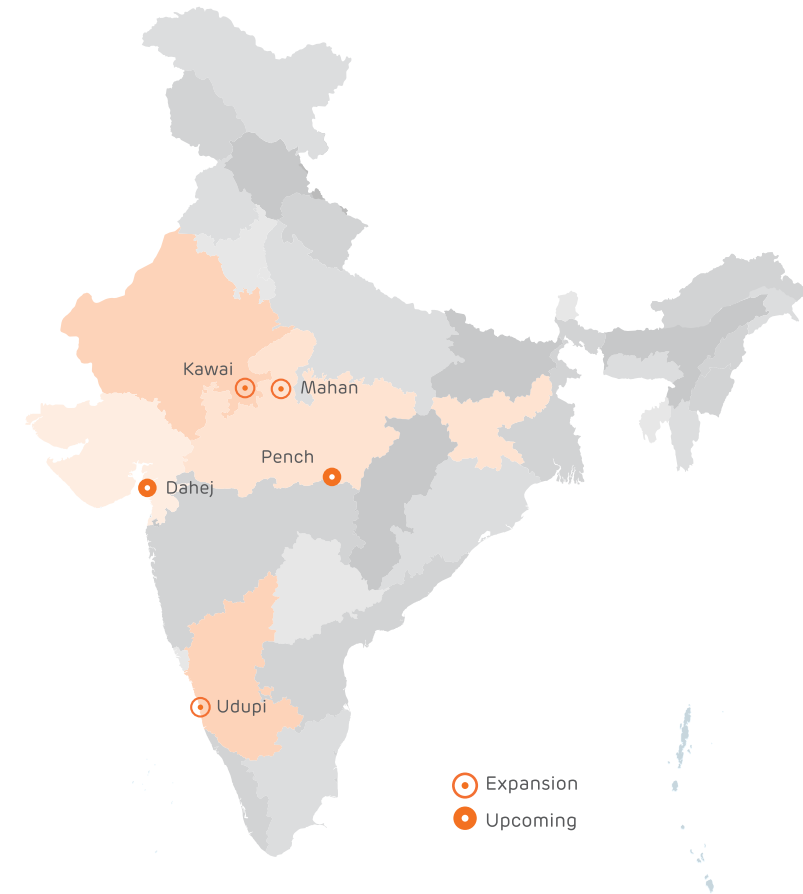
## Bitta

**Adani Power Limited (Solar Plant), Bitta, Gujarat**  
Capacity: 40 MW Type: Solar Based

- The Adani Group commissioned a 40 MW solar power plant in Bitta, Kutch district, Gujarat in December 2011 in a record time of

165 days. This solar power plant marked Adani's first big foray in the renewable energy sector.





○ Expansion  
● Upcoming

## Future Projects

Multiple projects in planning  
A journey to realise one vision

- Adani Power Limited is planning to construct a 2 x 800 MW thermal power project at Mahan, Madhya Pradesh.
- All upcoming projects will leverage the latest technological developments in the industry with the installation of state-of-the-art super-critical/ultra super-critical units.





## Project Execution Capabilities

### Executing projects with efficiency

- Over the years, Adani Power Limited has built strong internal capabilities in engineering, procurement, project management, project execution, and commissioning. It has continually evolved in the area of project implementation by adopting the best global practices.
- Adani Power believes in delivering state-of-the-art power plants that are built in a cost and time efficient manner.





## Operations and Maintenance

### Increasing product life cycle

- Operations and Maintenance (O&M) plays a key role in ensuring the smooth functioning of the grid and in providing reliable and uninterrupted quality power supply to our consumers.
- Energy efficiency has been achieved by adopting supercritical units. Grid discipline is furthered by strict adherence to the grid code.
- Installation of technologically advanced emission control systems such as Flue Gas Desulphurisation, Electrostatic Precipitators, and NOx Reduction Burners, in addition to monitoring ambient noise, air quality, and emissions at plant locations, have aided in the preservation of the local ecosystem.
- To enhance its competency, O&M imparts expert training to its employees along with practising mechanised and automated housekeeping methods, and using advance technology for inspection, monitoring and repair.
- Leveraging data analytics for asset performance monitoring, root cause analysis, and performance improvement.





## Quality, Health, Safety & Environment

### Adopting the best industry practices

Adani Power is committed to achieving excellence in all areas. Having a strong system-oriented culture, four of its plant locations (Mundra, Tiroda, Kawai, Udupi) are certified with Integrated Management System (IMS), consisting of Quality Management System (ISO 9001:2015), Environmental Management System (ISO 14001:2015), Occupational Health & Safety Management System (ISO 45001:2018), Asset Management System (ISO 55001:2014), Water Efficiency Management System (ISO 46001:2019), and Business Continuity Management System (ISO 22301:2011).

Demonstrating their passion for energy conservation, these four locations are also certified with Energy

Management System (ISO 50001:2018). All certifications are accredited by renowned companies like TuV Nord and Bureau Veritas. Further, by adopting the best practices from the Total Quality Management (TQM) model, the plant locations at Mundra, Tiroda, Kawai, and Udupi have implemented and achieved 5S (Workplace Management System) certification jointly offered by the Japanese Union of Scientists and Engineers (JUSE) and Quality Circle Forum of India (QCFI).

To make the process more compact, Six Sigma projects have been implemented in Mundra, Tiroda, Kawai, and Udupi to achieve better results.





## APL ESG Performance in FY 23

1. Adani Power Limited (APL), a part of the Adani Group, has received a 'B' score for climate change transparency from CDP (Carbon Disclosure Project) for 2022. This is higher than the global and Asia regional average of 'C', and same as the thermal power generation average of 'B'. This score highlights APL's stewardship in setting competitive benchmarks and fulfilling commitment to reducing the impact of climate change. In the thermal power generation sector, 12% companies fall in disclosure band, 16% in awareness band, 48% in management band, and 24% in leadership band.
2. APL also received a 'B' score in water security. This is on par with the thermal power generation, Asia regional, and global average of 'B'. APL performed well in the areas of business

- impacts, integrated approaches to environmental challenges, water-related opportunities, water policies, water accounting, targets and goals, governance, and business strategy. APL is among 48% of companies that reached Management Level in climate change and is among 77% of companies that reached Management Level in water security.
3. APL achieved a score of **54/100** in **Corporate Sustainability Assessment (CSA) by S&P Global**, which is better than the World Electric Utility average score of **33/100**.
  4. APL scored **3.5/5.0** in FTSE ESG rating, which is better than World Utilities average score of **2.7/5.0** in Dec '22. APL is a constituent company in the **FTSE4Good Index Series**.
  5. APL scored 87% in CSR HUB ESG rating in Jan '23, which is better than the global industry average.

## Highlights of ESG practices at APL in FY 23

### A) Waste Management

APL has utilised 100 % ash during FY 23. We follow the "Zero Single-Use Plastic" policy wherein single-use plastics are not permitted within site premises. APL's seven out of nine power generating units are certified SUP-free by CII. The certification process got completed which comprised of training and capacity building of stakeholders, gap assessment, certification, and verification of requirement of SUP-free by CII.

Our Tiroda, Kawai, and Udupi TPP locations installed waste paper recycler on its premise.

We have initiated the composting of organic waste generated at all operating locations for good-quality compost and manure for the green belt and landscaping locations.

### B) Water Management

The regulatory limit for surface water consumption by thermal power plants is fixed at 3.5 m<sup>3</sup>/MWh. However, we at APL have set an even more stringent limit of 2.5 m<sup>3</sup>/MWh of surface water consumption. In FY 23, the specific water consumption of APL is 2.3 m<sup>3</sup>/MWh (as per GRI).

### C) Energy Efficiency and

### Climate Change Commitment

GHG emission intensity in FY23 stood at 0.85 tCO<sub>2</sub>e/MWh. We have set the target for reducing GHG emission intensity to 0.84 tCO<sub>2</sub>e/MWh by 2025. In the current reporting period, PAT-III Cycle, Measuring & Verification (M&V) Audit has been carried out, translating to 1,35,492 energy saving certifications. Being a TCFD supporter, APL has initiated its annual sustainability report in line with the TCFD Principle, apart from other standards and principles.

### D) Corporate Governance

Pursuant to Adani Power Limited's commitment to 'Growth with Goodness', value creation, and keeping ESG principles, in FY 22, APL has established a claw-back policy that applies to the CEO and all senior management employees in the company.

We're in the process of implementing the Information Security Management System (ISMS), ISO 27001, and Social Accountability Accreditation (SA8000).





## Our Real Assets

### The people power

At Adani, people are our competitive advantage. Our employees continually create extraordinary results for our customers and stakeholders. We pride ourselves on our people management processes that help us meet our commitments consistently. Through acquiring the right talent, creating a motivating work environment, empowering employees to be proactive, encouraging informed risk-taking, providing growth opportunities, and developing future leaders, we have built a strong team culture. At Adani, our people always come first and profits follow naturally. Training and development of human resources is our real asset. People power plays an important role in effectively managing a skilled workforce. We are committed to developing our people's dexterity and offer a wide range of opportunities to help them build on their existing

technical, managerial and leadership skills. A continuous process of training and evaluation of effectiveness is followed across all our people, processes, and throughout the talent management processes of the employee life cycle. The focus of learning and development activities is to:

1. Align learning with the business
2. Integrate learning with HR and other business processes
3. Create a learning culture
4. Provide appropriate learning options
5. Manage learning effectively
6. Support application of skills in the workplace
7. Evaluate learning and development
8. Adopt advanced analytics as key drivers for business excellence
9. Create a centre of excellence





## Adani Power Training and Research Institute (APTRI)

### Empowering our assets

Adani Power Training and Research Institute (APTRI) was launched to provide training support to projects, and to the generation, transmission, and distribution of business development, in addition to techno-commercial, finance, human resources, and other services. APTRI is a centre of excellence and knowledge, built on the deep, rich and diverse experience of senior experts from top national and international organisations. The institute has tied up with several reputed training providers to train employees on power generation,

transmission and other related areas. The institute has been accredited by the Central Electricity Authority (CEA). APTRI is a permanent member of the Indian Society for Training and Development (ISTD) and is actively associated with activities and events at International Association for Continuous Education and Training (IACET), Institution of Electrical and Electronic Engineering (IEEE), Society for HR Management (SHRM), and Conference Internationale des Grandes Reseaux Electriques France (CIGRE).





## Facilitating Sustainable Growth

For over two decades now, Adani Foundation has contributed to the holistic development of underprivileged communities. It has been able to envelop people, planet, and prosperity in the formulation and execution of its programs. Today, its reach covers 7.3 million people in 5,753 villages across 19 Indian states through the following interventions:

### Core Areas

**Education** - The Adani Foundation is committed towards making quality education available and affordable to as many children as possible. It is running several cost-free schools as well as subsidised schools across India. A banquet of projects is designed and implemented to improve the soft and hard infrastructure of education and its delivery. The Foundation is reaching out to progressive learners in government schools, providing digital tools and classrooms to students for advance and easy learning, supporting young minds to compete through coaching, scholarships to deserving students, and facilitating learning to those who are behind through evening classes.

**Health** - The Adani Foundation is investing in community health through deployment of resources and services on ground. The aim is to reach out to the most needy and vulnerable population at the grassroots. The health interventions are designed to make them accessible and affordable with quality assurance. The impetus is on pan India projects - Mobile Health Care Units for doorstep delivery of healthcare, running wellness centres and rural clinics, organising health camps, and building and running multi-speciality hospitals.

**Sustainable Livelihood Development** - The Adani Foundation is committed to facilitate creation of wealth by the people for their prosperity. It is building a self-sustainable ecosystem to leverage both the human potential and community resources for socio-economic growth. The initiatives are designed for on-farm, off-farm, and non-farm domains with objectives to increase, diversify, and sustain incomes. Through SLD, the Foundation offers a banquet of initiatives like water conservation, organic farming, dairy development through strategic animal husbandry projects, and augmentation of women's enterprises by supporting them with knowledge, skills, and market linkages.

**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 the Government's efforts in schools, primary health care centres, large water conservation structures, public ponds, roads, etc.

The organisation has been instrumental in constructing water conservation structures in water scarce regions of the country. It is also facilitating rooftop rainwater structures in rural households with an objective to reduce the drudgery of women who are mostly responsible to fetch water for the house. Similarly, hundreds of borewells have been dug and ponds have been deepened to ensure water availability round the year for domestic use, animals, and agriculture.

### Special Programs

**Saksham:** Upskilling of youth and women through Adani Skill Development Centres. Trained 68,149 people across 10 states.

**Udaan:** Igniting young minds and inculcating an entrepreneurial spirit. 3.48 lakh students visited Adani Group facilities across 6 locations.

**Swachhagraha:** Inspiring behavioural change for creating a culture of cleanliness. Reached more than 30.5 lakh students across 19 states.

**SuPoshan:** Fighting malnutrition and anaemia through community-based intervention. 640 SuPoshan Sanginis covered more than 3.2 lakh households.







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