



# Adani Solar Driving the Solar Evolution

**GET SUNPLUGGED TODAY**

# EMPOWERING A BRIGHTER TOMORROW



## About Adani Group

- Founded in 1988.
- Leading business conglomerate of India and a global integrated infrastructure play with businesses in key industry verticals - renewables, logistics, energy and infrastructure.
- 13 publicly traded companies with a combined market cap of over USD 150 billion.
- Expanding global footprints across Australia, Bangladesh, China, Dubai, Indonesia, Myanmar, Singapore, and the United States of America.

**Visionary leadership, illustrious experience, and remarkable track record have been the signature of our legacy.**

# ADANI PORTFOLIO: A WORLD CLASS INFRASTRUCTURE & UTILITY PORTFOLIO



## Infrastructure

- ▶ Airports
- ▶ Defence & Aerospace
- ▶ Data Center
- ▶ Road, Metro & Rail



## Energy & Utilities

- ▶ Energy Solutions
- ▶ Thermal Power
- ▶ Green Energy
- ▶ City Gas Distribution
- ▶ Water Treatment Plants
- ▶ Green Hydrogen
- ▶ Solar Manufacturing
- ▶ Wind Turbine
- ▶ Electrolyzer
- ▶ Battery Energy Storage



## Transport & Logistics

- ▶ Ports
- ▶ Logistics
- ▶ Industrial Land
- ▶ Agri Logistics



## Materials

- ▶ Cement
- ▶ Copper
- ▶ Natural Resources
- ▶ PVC



## Listed Companies

- ▶ Adani Enterprises Ltd
- ▶ Adani Ports & SEZ Ltd
- ▶ Adani Power Ltd
- ▶ Adani Energy Solutions Ltd.
- ▶ Adani Green Energy Ltd
- ▶ Adani Total Gas Solutions LTD
- ▶ ACC Ltd
- ▶ Ambuja Cements Ltd
- ▶ NDTV Ltd
- ▶ Sanghi Industries Ltd
- ▶ Orient Cement Ltd



## Real Estate

- ▶ Adani Reality



## Direct to Consumers

- ▶ Adani Agrifresh



## Media

- ▶ Broadcasting Business
- ▶ Digital Services



## Sports

- ▶ Adani Sportsline

### **At COP26, Prime Minister Narendra Modi declared India's target to:**

- Reach non-fossil energy capacity to 500GW by 2030.
- Meet 50% of energy requirements from renewable energy by 2030.
- Reduce total projected carbon emissions by 1 billion tonnes till 2030.
- Reduce the carbon intensity of its economy by less than 45% by 2030.
- Become Net Zero by 2070

## **INDIA'S RENEWABLE VISION**



India has set a target of achieving 500 GW of renewable energy capacity by 2030, out of which solar alone will contribute nearly 60% - about 280 GW. According to industry estimates, to stay on track, India must add 25–30 GW of new solar capacity every year.

## IN TUNE WITH BIG VISION

Of all the renewable energy technology options, solar is the fastest-growing power source today. Over the past decade, the price of solar panels has dropped by 90%; possibly, over the next decade, we will see price drops of the same magnitude as panels become even more efficient and new materials come into play. The marginal cost of solar power is moving towards "zero" which is both transformative and disruptive.

### **\$50-70 bn investment**

Over the next decade, we will invest over 20 billion dollars in renewable energy generation. Our overall organic and inorganic investments across the entire green energy value chain will range between 50 and 70 billion dollars. This will include investments with potential partners for electrolyser manufacturing, backward integrations to secure the supply chain for our solar and wind generation businesses, and AI-based industrial cloud platforms.

Adani Group focuses on renewable energy to enable a responsible energy transition with accelerated footprints in the energy sector. Our proactive investments in clean energies and technologies validate our commitment to our sustainable future.

# ADANI SOLAR: LEADING THE SOLAR REVOLUTION WITH RESPONSIBILITY



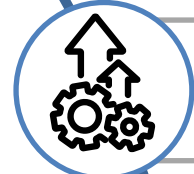
**Committed to making solar energy  
affordable and accessible to all**

- Solar manufacturing arm of Adani Group.
- India's first and largest **vertically integrated solar company** offering the latest technology products across the spectrum of photovoltaics manufacturing.
- Produces and offers **Mono PERC and TOPCon** (Monofacial and Bifacial) modules with superior efficiency, higher performance and enhanced reliability.
- Dominant market share of around **60% in Residential Rooftop and PM-KUSUM Scheme** in India, supporting distributed solar adoption and rural energy access.
- One of the **Largest exporters of solar modules from India**

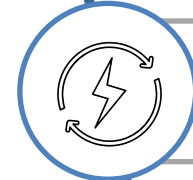
## ADANI SOLAR HIGHLIGHTS



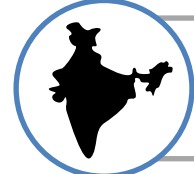
Annual production capacity of **4 GW** placing it amongst **Top 15 Global Solar manufacturers**



An additional **6 GW production** line scheduled to commence operations in 2026



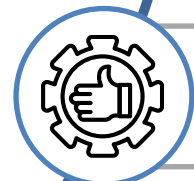
Shipped over **15,000 MW** of solar modules globally (including 6 GW+ in USA)



**Ecosystem with ancillary units** that can supply key raw materials by substituting its imports



Facilities are **ISO 9001 & ISO 14001** certified & energy efficient building with **IGBC Platinum** rating



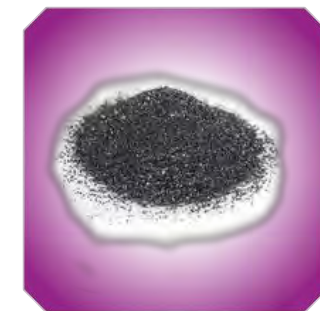
Best in class equipment from **European** suppliers



Strong & experienced team with **~4,500 employees**

# VALUE CHAIN

Building the World's 1st ever Fully Integrated and Comprehensive Solar Manufacturing Ecosystem of 10 GW in India



**Metallurgical Grade Silicon**



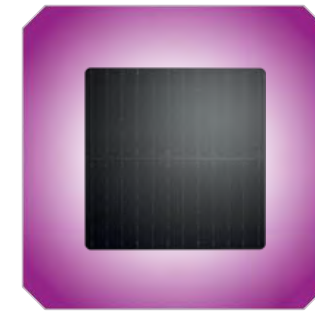
**Polysilicon**



**Ingots**



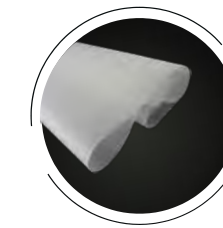
**Wafers**



**Solar Cells**



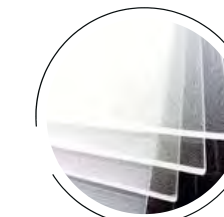
**Modules**



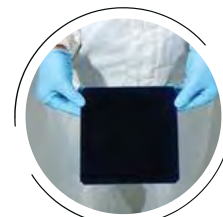
**Encapsulant Facility**



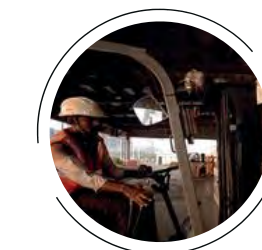
**Backsheet Facility**



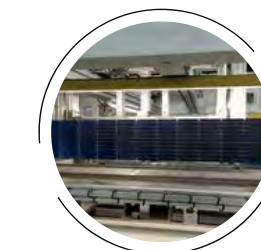
**Glass Facility**



**Cell & Module Facility**



**Warehouse**



**Training & Testing Lab**



**Aluminium Frame Facility**

**Just in Time Supplies**

**Reduced import dependency**

**Seamless supply of key raw materials**

## OUR MANUFACTURING UNIT/PLANT



**Facilities strategically situated in the port city of Mundra, Gujarat, within India's largest Electronics Manufacturing Cluster covering 800 acres.**

# WAFER, CELL & MODULE LINE



# OUR PRODUCTS

## MonoPerc

Wafer Size M10 – 188 mm  
144 Cells | 520-560 Wp  
21.5% Efficiency

**30**  
YEARS  
Warranty

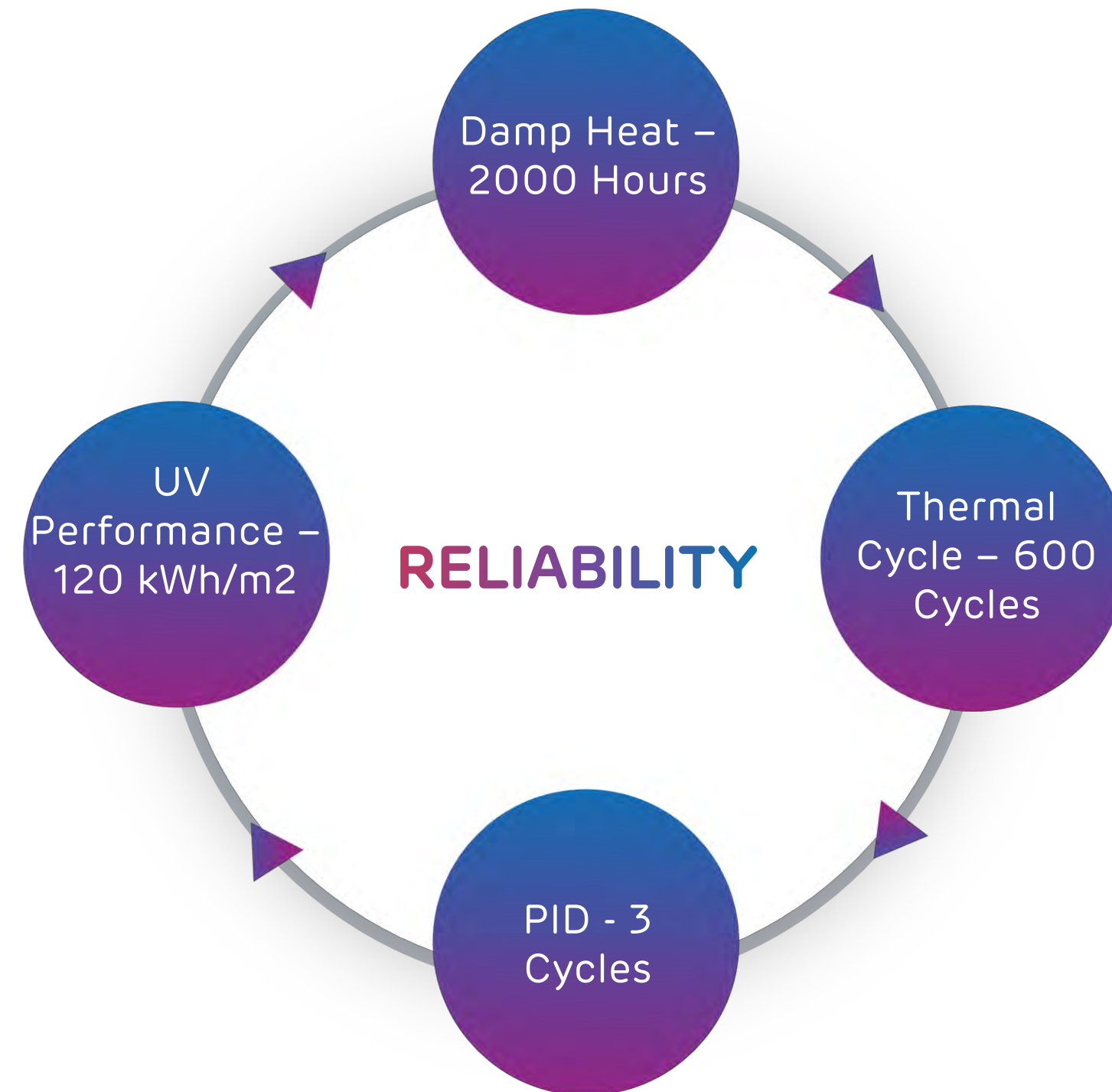
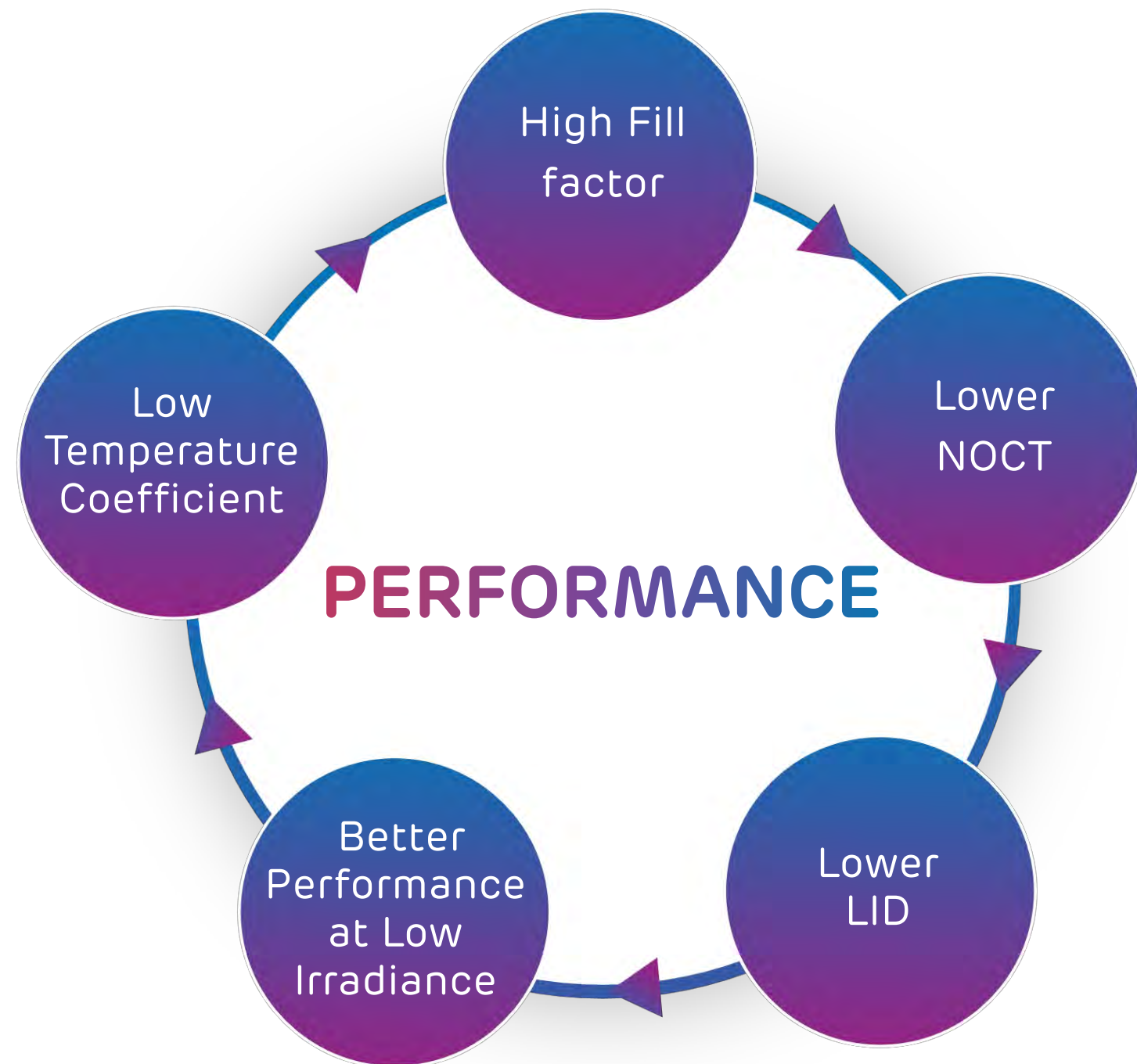


**30**  
YEARS  
Warranty

## TOPCon

Wafer Size G12R – 210 mm  
132 HC Cells | 620+ Wp  
23.2% Efficiency  
Up to 85% Bifaciality

# HIGH EFFICIENCY MODULES FOR UNPARALLELED PERFORMANCE



# CERTIFICATES

## ABOUT BIS CERTIFICATE

- BIS is India's national standards body that ensures solar photovoltaic (PV) modules meet Indian quality and safety standards.
- BIS certification is mandatory for solar panels sold in India under the Compulsory Registration Scheme (CRS).

## ABOUT IEC CERTIFICATE

- IEC develops global standards for solar PV modules to ensure performance, durability, and safety across international markets.
- IEC certification enables global acceptance of solar panels, supporting international trade and interoperability.

## List of Adani Solar PV Modules certifications as per IS/IEC Standards

<b>IS 14286/ IEC 61215</b>	Design Qualification	Ensures reliability through type approval testing
<b>IS/IEC 61730</b>	Safety Qualification	Defines requirements for electrical and mechanical safety
<b>IEC 63209-1</b>	Extended-stress Testing	Specifies long-term reliability assessments
<b>IEC 62804 (IS 17210-1:2019)</b>	Potential-Induced Degradation	Assesses vulnerability to PID effects
<b>IEC 61701 (IS/IEC 61701:2011)</b>	Salt Mist Corrosion Testing	Examine resistance to humidity and salt spray
<b>IEC 62716 (IS 16664:2018)</b>	Ammonia Corrosion testing	Ensures durability in ammonia-rich environments.
<b>IEC 61853-1 (IS 16170-1 :2011)</b>	Irradiance and Temperature performance measurements and power ratings	Evaluates module efficiency under various conditions
<b>IEC 61853-2 (IS 16170-2 :2016)</b>	Spectral responsivity, incidence angle and module operating temperature measurements	Determines sensitivity to incident angle of light and variations of output according to it
<b>IEC 62759-1</b>	Transportation and shipping of module package units	Simulate transportation and shipping conditions
<b>IEC 60068-2-68</b>	Environmental Testing Part 2 Dust and Sand	Series of tests for environmental impacts

## IMPORTANCE OF BIS CERTIFICATIONS

- BIS standards set clear benchmarks, ensuring panels meet durability and performance criteria, especially under Indian environmental conditions. This forces high manufacturing standards.
- Modules undergo safety testing (e.g., electrical hazards), ensuring safe operation and minimizing risks such as fires and short circuits.
- Testing ensures panels endure over time, with proven performance under harsh conditions (heat, dust, etc.), guaranteeing long-term energy generation.
- BIS certification is mandatory for all solar panels in India, ensuring legal market access and raising product quality standards.
- Only BIS-certified panels can be sold in India, making certification essential for market access and government schemes.
- The BIS mark enhances brand reputation, signaling government-approved quality and boosting consumer confidence in the product's reliability and safety.
- Incorporation of BIS standards into production processes ensures manufacturers maintain high quality through continuous auditing and compliance checks.

# IMPORTANCE OF IEC CERTIFICATIONS

- The IEC (International Electrotechnical Commission) is a global standards organization that develops and publishes international standards for electrical, electronic, and related technologies—including solar photovoltaic (PV) systems.
- Globally recognized benchmarks for quality and safety.
- Ensure module performance under real-world conditions.
- Essential for international bankability and project approval.
- Protect against financial loss and field failures.
- Guide R&D and continuous improvement.

# BRIGHTER SIDE OF THE BUSINESS



India's leading solar PV manufacturer, rated Tier-1 by BloombergNEF



Top Brand PV 2025 by EUPD Research, Leading the Way in Solar Module Excellence



Audited by PI Berlin, CEA, Black & Veatch, Solar Buyer, STS, TUV Rheinland



Only Indian company ranked in Wood Mackenzie's global Top 10 for Solar PV module manufacturing



RETC Award 2025 Global Recognition of Adani Solar's Excellence in Module Quality & Reliability



Top Performer by PVEL 2018-2025 (Highest reliability & best performance)

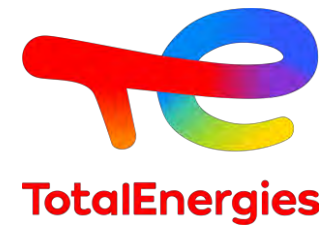


Recognized for ESG Excellence 2025, Leading Sustainable Innovation by EUPD

# MOST BANKABLE INDIAN COMPANY



# TRUSTED BY INDUSTRY LEADERS





## INNOVATION AND IMPACT: ADANI SOLAR IN ACTION

# SCAN TO VISIT US

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