



Advait Greenenergy  
Private Limited

# CORPORATE PRESENTATION

Transforming Energy. Transforming Lives.

# Advait Group

## INTRODUCTION

Founded in 2009, Advait Group is an Indian energy and infrastructure platform operating across power transmission, renewable energy, energy storage and green hydrogen. Its flagship company, Advait Energy Transitions Limited, is listed on the NSE and BSE and is headquartered in Ahmedabad. The company delivers integrated manufacturing, EPC and project execution capabilities for utilities and industrial clients, with over 450 projects completed across all Indian states and operations spanning more than 45 countries. Advait's core offerings include stringing tools, aluminium clad steel wires, OPGW, emergency restoration systems, optical fibre cables, insulators, and complex EPC works such as live-line OPGW installations, underground cabling, and MVCC/HT AB systems. Advait is positioned as a reliable execution partner for grid modernization and the energy transition.



# AGPL

## OVERVIEW

Advait Greenergy Private Limited (AGPL), a subsidiary of Advait Energy Transitions Ltd., operates as a fully integrated green hydrogen and clean energy execution platform spanning manufacturing, engineering and project delivery.

Headquartered in Ahmedabad, AGPL delivers industrial-scale clean energy capabilities across Green Hydrogen solutions, Solar EPC and Battery Energy Storage Systems (BESS) EPC.

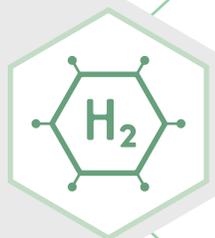
We deliver scalable, high-impact industrial and utility-scale clean energy infrastructure, operating within the National Green Hydrogen Mission framework.

*We know: A future without fossil fuels can only be achieved through a fundamental transformation of the industry. Together with our customers, partners and employees, we are at the forefront of this change.*



### Renewable Energy Generation

AGPL has delivered 200 MWp of Solar EPC projects and is scaling through a defined execution pipeline toward 1 GW of capacity, establishing a utility-scale renewable infrastructure base aligned with India's 500 GW non-fossil roadmap for 2030.



### Green Hydrogen Production

Globally recognized as the fuel of the future, green hydrogen is vital for decarbonizing steel, refining and heavy transport. Under the National Green Hydrogen Mission, Advait Greenergy executed India's pioneering green hydrogen project and secured PLI approval for a 300 MW electrolyser manufacturing facility, accelerating the nation's hydrogen economy.



### Battery Energy Storage Systems

To overcome renewable intermittency, Advait Greenergy is executing a 50 MW / 100 MWh BESS project and planning a 2.5 GWh manufacturing facility (Phase 1), scalable to 5 GWh, ensuring reliable and resilient clean energy.

# Our Mission and Vision



## MISSION

We are committed to accelerating the global energy transition by delivering safe, cost-effective and scalable clean energy solutions. Our mission is to empower communities and industries through sustainable technologies that contribute to national development, impact thousands of lives and lead the path toward a cleaner, greener and more resilient future.



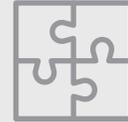
## VISION

Our vision is to emerge as a global leader in next-generation energy infrastructure, driving innovation across Green Hydrogen, Solar Energy and Battery Storage. We aim to play a transformative role in enhancing energy security, enabling industrial decarbonization and improving the quality of life for generations to come.



## VALUES

Innovation	Collaboration
Sustainability	Empowerment
Excellence	Entrepreneurship



# AGPL

Your one-stop partner for clean energy solutions

## GREEN HYDROGEN

- End-to-End EPC for Green Hydrogen Projects
- Electrolyser Manufacturing
- Advait Hydrogen Engineering Services (PMC)
- Green Molecule Sales & BOO Models

## BESS SOLUTIONS

- Standalone BESS
- Firm and Dispatchable Renewable Energy (FDRE)
- Solar + BESS Hybrid
- C&I (Commercial & Industrial) Solutions

## SOLAR EPC SOLUTIONS

- Utility-Scale & Captive Projects
- Project Management Consultancy (PMC)
- PM-KUSUM Projects

## FUEL CELL

- Fuel Cell Manufacturing
- Integration Projects



# GREEN HYDROGEN

## End-to-End EPC for Green Hydrogen Projects

Complete engineering, procurement and construction solutions across the entire green hydrogen value chain.

## State-of-the-Art Electrolyser Manufacturing

300 MW alkaline electrolyser capacity, scalable to 1 GW, delivering world-class technology for hydrogen production.

## Advait Hydrogen Engineering Services (PMC)

Expert project management and consulting for green hydrogen and derivative projects, ensuring precision and performance.

## Green Molecule Sales & BOO Models

Innovative business models for hydrogen and its derivatives, enabling long-term offtake and sustainable revenue streams.



# EPC Solutions for Green Hydrogen

Advait, a leading EPC contractor in Green Hydrogen and Clean Energy, delivers turnkey solutions from concept to commissioning with a focus on safety, sustainability and precision.



## Key Strengths

- In-house multidisciplinary engineering team
- Strong vendor ecosystem and procurement control
- Proven construction and commissioning expertise
- Digitally integrated workflows

## Quality Gateways

- Peer reviews and client validations (HAZOP, Model reviews)
- Interface alignment across disciplines
- Constructability and operability feedback loops

## Tools Used

- AutoCAD
- HYSYS
- Industry-standard platforms

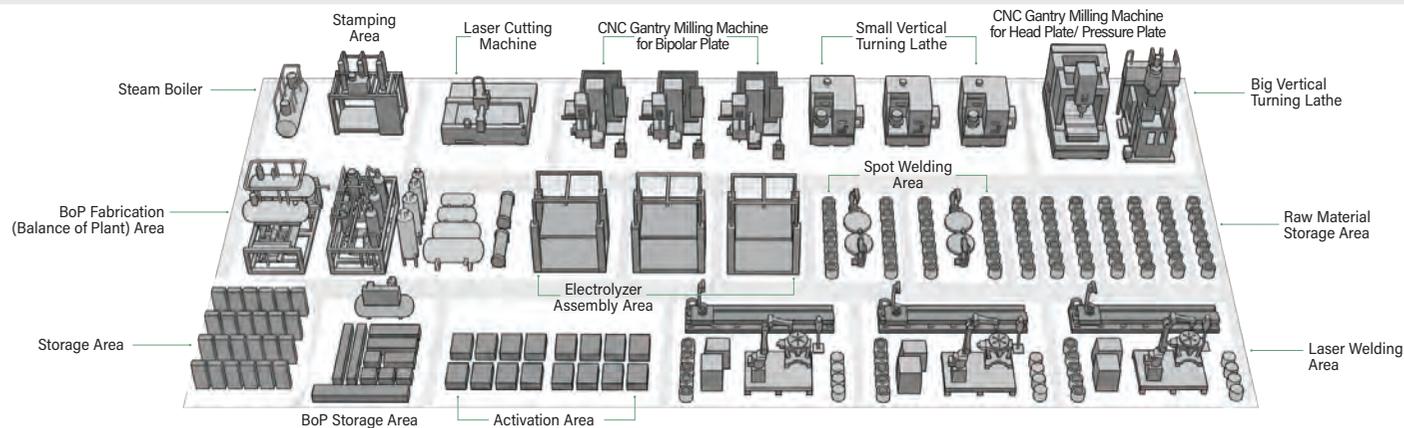
## Execution Framework

Client Requirement ► BEP ► DEP ► Safety Review ► Procurement ► Construction ► Commissioning ► Handover ► O&M



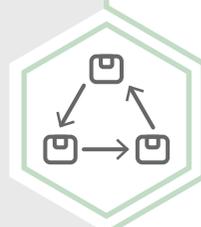
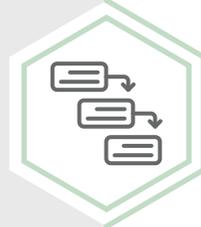
# Electrolyser Manufacturing Facility

<p><b>30 MW</b></p>	<p><b>Electrolyser Assembly Plant</b></p>	<p><b>Commissioning and Inauguration</b> February 2026</p> <p>Scope: Assembly and testing of alkaline electrolyser stacks and skids</p>
<p><b>100 MW</b></p>	<p><b>Electrolyser Manufacturing Plant</b></p>	<p><b>Commissioning Target</b> December 2026</p> <p>Expansion to include in-house stack manufacturing, coating and balance of plant fabrication</p>
<p><b>300 MW</b></p>	<p><b>Electrolyser Manufacturing Plant</b></p>	<p>Complete integrated facility for electrolyser stack, cell, frame, coating, assembly and testing under one roof. Designed to serve domestic and international green hydrogen projects.</p>



# Project Management Solutions for Green Hydrogen

Advait offers end-to-end Project Management Consultancy (PMC) and execution support for Green Hydrogen projects, ensuring seamless delivery from concept to commissioning.



## Our Solutions

### Comprehensive Planning & Scheduling

Detailed project timelines, resource allocation and milestone tracking for EPC and BOO models.

### Risk Management & Compliance

Identification and mitigation of technical, financial and safety risks; adherence to ISO, BIS and global hydrogen standards.

### Vendor & Procurement Control

Strong vendor ecosystem with transparent procurement processes and quality assurance for critical components like electrolyzers, compressors and storage systems.

### Interface Management

Alignment across disciplines - process, mechanical, electrical, civil and instrumentation - for smooth integration.

### Digital Workflow Integration

Use of advanced tools (AutoCAD, HYSYS, Primavera/MS Project) for design validation, progress monitoring and real-time reporting.

### Quality & Safety Gateways

Peer reviews, HAZOP studies, constructability checks and operability feedback loops to ensure world-class standards.

### Lifecycle Support

From basic engineering (BEP) and detailed engineering (DEP) to commissioning, O&M readiness and performance guarantee testing.

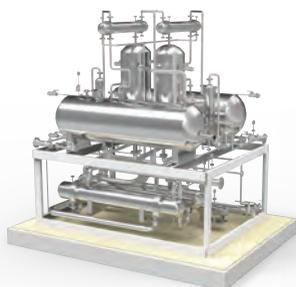
# Alkaline Electrolyser

## Product Details

Capacity in MW	250 kW	500 kW	750 kW	1 MW	1.5 MW	2.5 MW	4 MW	5 MW
H <sub>2</sub> Production Rate	50 Nm <sup>3</sup> /hr	100 Nm <sup>3</sup> /hr	150 Nm <sup>3</sup> /hr	200 Nm <sup>3</sup> /hr	300 Nm <sup>3</sup> /hr	500 Nm <sup>3</sup> /hr	800 Nm <sup>3</sup> /hr	1000 Nm <sup>3</sup> /hr
O <sub>2</sub> Production Rate	25 Nm <sup>3</sup> /hr	50 Nm <sup>3</sup> /hr	75 Nm <sup>3</sup> /hr	100 Nm <sup>3</sup> /hr	150 Nm <sup>3</sup> /hr	250 Nm <sup>3</sup> /hr	400 Nm <sup>3</sup> /hr	500 Nm <sup>3</sup> /hr
Nominal Pressure	1.6/3.2 MPa	1.6/3.2 MPa	1.6-2.5 MPa	1.6-2.5 MPa	1.6-2.5 MPa	1.6 MPa	1.6 MPa	1.6 MPa
H <sub>2</sub> Purity	99.999%							
Water Consumption	1 Liter/Nm <sup>3</sup>							
Power Consumption	4.1 to 4.3 kW/Nm <sup>3</sup>							



Electrolyser Stack



Gas-Liquid Separation System



Gas Purification System

### Pressurized Alkaline Electrolysis Solution

- Unique scalability and modularity, which makes us a contender to larger projects
- Ability to handle dynamic operations with variable loads suitable for renewable energy
- Plug-&-play units with modular in-a-box design allowing for clustered solutions

# Project Execution Capabilities

## India's First Green Hydrogen Microgrid | THDC Rishikesh

### Project Overview

Successfully commissioned by Advait on January 26, 2024, this pioneering microgrid integrates:

- 300 kW Pressurized Alkaline Electrolyser with Hydrogen Storage System
- 70 kW PEM Fuel Cell. Supplies clean power to THDC Guest House, Rishikesh

### Key Highlights

- Decentralized & Flexible: Combines multiple small-scale sources for efficient energy delivery
- Plug-and-Play Architecture: Rapid deployment with minimal site preparation
- Sustainability Milestone: Reduces carbon footprint and sets a benchmark in India's green hydrogen journey

### Strategic Impact

A landmark achievement showcasing Advait's capability to deliver innovative, scalable and clean energy solutions aligned with national sustainability goals



# Project Execution Capabilities

## 1 MW Green Hydrogen Project

Matar, Gujarat

### Project Overview

Advait is executing a 1 MW Pressurized Alkaline Electrolyser Plant for KP Group, designed to supply green hydrogen for the galvanization process. The project is currently in the commissioning phase, with completion expected by January 2026.

### Execution Milestones

- LOA received - July 2024
- Engineering and procurement initiated: Post-LOA
- HAZOP Study: Completed in March 2025
- Site work commenced: April 2025
- Commissioning Phase: In progress

### Strategic Impact

A milestone in India's green hydrogen revolution, this project demonstrates Advait's capability to deliver fast-track, industrial-scale clean energy solutions, reducing carbon footprint and enabling sustainable manufacturing.





# SOLAR EPC

## Utility-Scale & Captive Projects

Comprehensive Engineering, Procurement and Construction (EPC) services for large-scale solar power plants and captive installations, delivering optimized design, high efficiency and reliable performance.

## Project Management Consultancy (PMC)

Expert guidance and end-to-end project oversight for solar projects, ensuring timely execution, cost control and compliance with industry standards.

## PM-KUSUM Projects

Specialized solutions under the Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM) scheme, enabling farmers and rural communities to adopt solar energy for irrigation and power needs, promoting sustainability and rural empowerment.



# Solar Projects

COMMISSIONED

A fast-tracked, high-efficiency solar project, delivered on schedule, boosting Gujarat's renewable infrastructure and showcasing Advait's EPC expertise.

30  
MWp

## Khavda Solar Project (EPC)

<b>Project Type</b>	Solar power project (IPP - Independent Power Producer)
<b>Capacity</b>	200 MW (AC) / 240 MW (DC)
<b>Location</b>	Khavda, Gujarat
<b>Offtaker</b>	Gujarat Urja Vikas Nigam Limited (GUVNL)
<b>Timeline</b>	6 months (successfully delivered)
<b>Project type</b>	EPC
<b>Current Status</b>	Project commissioned



# Solar Projects

ONGOING



## Project 1

A large-scale, high-efficiency solar project - delivering rapid execution, advanced technology, and strong value as part of India's renewable energy drive.

### Client

Coal India Limited

### Lead EPC

KPI Green Energy Limited (via competitive bidding)

### EPC Partner

Advait Energy Transitions Limited (67.5 MWp scope)

### Location

Khavda, Gujarat

### Technology

Single Axis Tracker MMS for enhanced generation efficiency

## Project 2

### Backed by Industry Leaders

Adani Green Energy Limited spearheading one of the world's largest renewable energy expansions with a total planned capacity of 30,000 MW.

### Client

Adani Green Energy Limited

### EPC

Advait Energy Transitions Limited ( 100 MWp scope under developer mode)

### Location

Khavda, Gujarat

### Technology

Fixed Tilt MMS system for stable, reliable and cost-efficient solar generation

### Project type

BOS Supply + Service

### Current Status

Under construction



# BESS SOLUTIONS

## Standalone BESS

Reliable energy storage systems designed to stabilize grids and support renewable integration.

## RTC (Round-the-Clock) Solutions

Combining renewables with storage to deliver firm, uninterrupted power supply 24/7.

## Firm and Dispatchable Renewable Energy (FDRE)

Advanced storage-backed solutions ensuring predictable and dispatchable clean energy for utilities and industries.

## Solar + BESS Hybrid

Integrated solar generation with battery storage for optimized performance and maximum utilization.

## C&I (Commercial & Industrial) Solutions

Customized energy storage systems for commercial and industrial clients to reduce costs, improve reliability and meet sustainability goals.



# BESS Project

ONGOING

A landmark grid-scale storage project - enhancing grid stability, renewable integration and peak demand management in Gujarat, backed by strong financial viability.

50/100  
MW

## Radhanpur BESS Project

**Client**  
**Developer**  
**Connection**  
**Location**  
**Technology**  
**Support**

Gujarat Urja Vikas Nigam Limited (GUVNL)  
Advait Energy Transitions Limited  
66 kV connectivity  
220 kV Substation, Radhanpur, Patan  
Advanced Lithium-ion batteries, 2 cycles/day  
₹ 27 lakh/MWh Viability Gap Funding (VGF). VGF support is provided by MNRE (Ministry of New and Renewable Energy), Government of India  
18 months (execution underway)

**Timeline**





# BESS Manufacturing

## Cell-to-Pack-to-Module Line

Our 5GWh Battery Energy Storage System manufacturing facility represents a state-of-the-art hub for clean energy innovation, designed to produce advanced battery packs that enable large-scale renewable integration and grid stability. Its capacity of 5 GWh annually supports utility-scale solar and wind projects, industrial backup systems, and EV charging infrastructure, making it a cornerstone of the energy transition by playing a pivotal role in meeting India's and global clean energy mandates.

### Manufacturing Process Flow

End-to-end assembly line covering cell assembly, module integration, pack assembly, and final testing.

### Technology & Automation

Equipped with:

- AI-enabled quality control
- Robotic welding
- Precision coating machines
- Smart logistics systems

Automation ensures high consistency, reduced labor dependency and faster ramp-up.

### Quality & Safety Standards

Multi-stage testing for electrical performance, thermal stability, mechanical durability, and safety compliance. Certified under IEC, UL and BIS standards.

### Applications

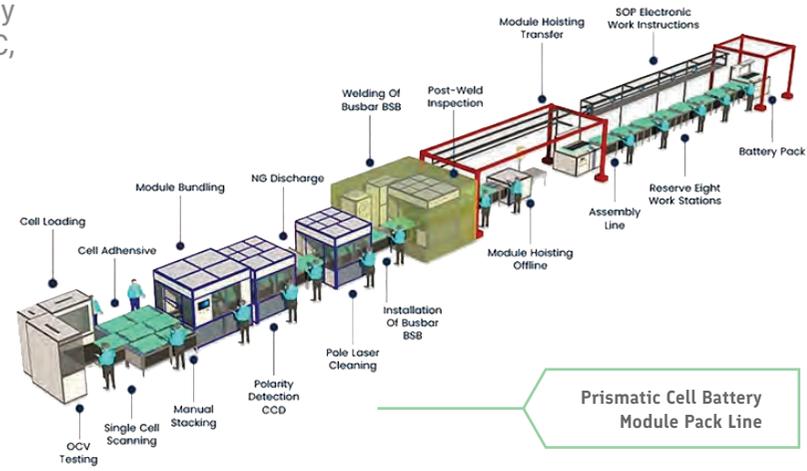
Product serves:

- Grid balancing
- Peak load management
- Renewable energy storage
- Industrial backup

**India's Premier BESS Gigafactory**

Planned Phase 1  
**2.5 GWH**

Planned Total Capacity  
**5 GWH**





# FUEL CELL SOLUTIONS

## Fuel Cell Manufacturing

Cutting-edge production capabilities for fuel cell stacks and modules, leveraging global technology partnerships to deliver reliable and scalable solutions.

## Integration Projects

End-to-end integration of fuel cells into vehicles, distributed power systems, and hybrid renewable setups, ensuring seamless performance and compliance with international standards.



**JV Signing at Norway Embassy, Delhi with AVL**



# Fuel Cell Applications

Fuel Cells are versatile and effective. Many different varieties of hydrogen and hydrogen derivatives can be used as fuel for the fuel cell to provide with energy.

## Fuel Flexibility

- **Methanol / Ammonia**  
Active research on pre-treatment
- **Metal Hydride Hydrogen Storage**  
Unique fuel tank-fuel cell heat regulation system
- **Liquid Organic Hydrogen Carriers (LOHC)**  
Eliminates the need for compression and makes it safer
- **Liquid Hydrogen (LH<sub>2</sub>)**  
Maintains high efficiency with low H<sub>2</sub> input pressure
- **Compressed Hydrogen (CH<sub>2</sub>)**  
Can operate on pressure ranges up to 700 bar





# Fuel Cell Manufacturing Facility

Advait Greenery is building a strong foundation for advanced hydrogen technologies through strategic global collaborations. These partnerships position Advait as a technology leader, combining global expertise with local execution to accelerate India’s clean energy transition.

<p><b>50 MW PEM</b></p>	<p><b>Stack Assembly Line by 2026</b></p>	<p>Launching a cutting-edge assembly line for Proton Exchange Membrane (PEM) fuel cell stacks, enabling high-efficiency hydrogen solutions for mobility and stationary applications</p>
<p><b>400 MW PEM</b></p>	<p><b>Automated Plant by 2029</b></p>	<p>Developing a fully automated, large-scale manufacturing facility to deliver next-generation fuel cell and electrolyser systems, ensuring scalability, precision and cost competitiveness</p>

Cell Production



Cell Production



Stacking



System Assembly



Test Systems





# Industry Partnerships and Collaborations

	<b>Haryana Gas Distribution</b>	<p>Signed a Memorandum of Understanding (MOU) between Haryana Gas Distribution (Bhiwadi) Limited and Advait Energy for Supply sum installation and execution of turnkey projects for Green Hydrogen/Green Ammonia and Carbon credits consultancy services. Advait will also provide its services for 2000MTPA Hydrogen plant to Haryana Gas.</p>
	<b>Guofuhee</b>	<p>Technology transfer (ToT) executed with Guofuhee for alkaline electrolyser design and manufacturing technology. Joint collaboration for process setup, training and quality assurance. Strategic partnership enabling 'Make in India' electrolyser manufacturing for domestic and export markets.</p>
	<b>TECO</b>	<p>Advait Energy Transitions Limited has entered into a strategic partnership with TECO2030 Fuel Cell Technology AS (Norway) to enable the manufacturing, assembly and deployment of hydrogen PEM fuel cell technologies in India and the SAARC region. This collaboration combines TECO2030's advanced fuel cell technology platform with Advait's market access, manufacturing capabilities and execution expertise, positioning the partnership to support India's transition towards zero-emission energy solutions.</p>
	<b>AVL</b>	<p>Advait Greenergy Private Limited has entered into a strategic development partnership with AVL, a global engineering company specialising in powertrain and fuel cell technologies. The collaboration is focused specifically on fuel cell system development, including simulation, validation, and testing, to support AGPL's fuel cell initiatives in India. AVL's global engineering expertise complements AGPL's execution and manufacturing capabilities, strengthening the development and deployment of high-performance and reliable fuel cell systems.</p>



# Key Customers and Partners





# Leadership



**Shalin Sheth**  
Founder & Managing  
Director



**Rejal Sheth**  
Executive Director



**Rutvi Sheth-Kundalia**  
Director - Strategy & HR



**Vatsal Kundalia**  
Managing Director



**Priyank Shah**  
Head Corporate Affairs



**Chaitanya Mallurwar**  
AVP - GH2 Systems



**Harsh Shah**  
CFO



**Arun Gangrade**  
AGM - Process Engineering



**Bhavik Chapadiya**  
AGM - Solar EPC



**Harsh Shah**  
Manager  
BESS Solutions



**Advait Greenergy  
Private Limited**



# Thank You

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Kadi District - Mehsana - 382715

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