



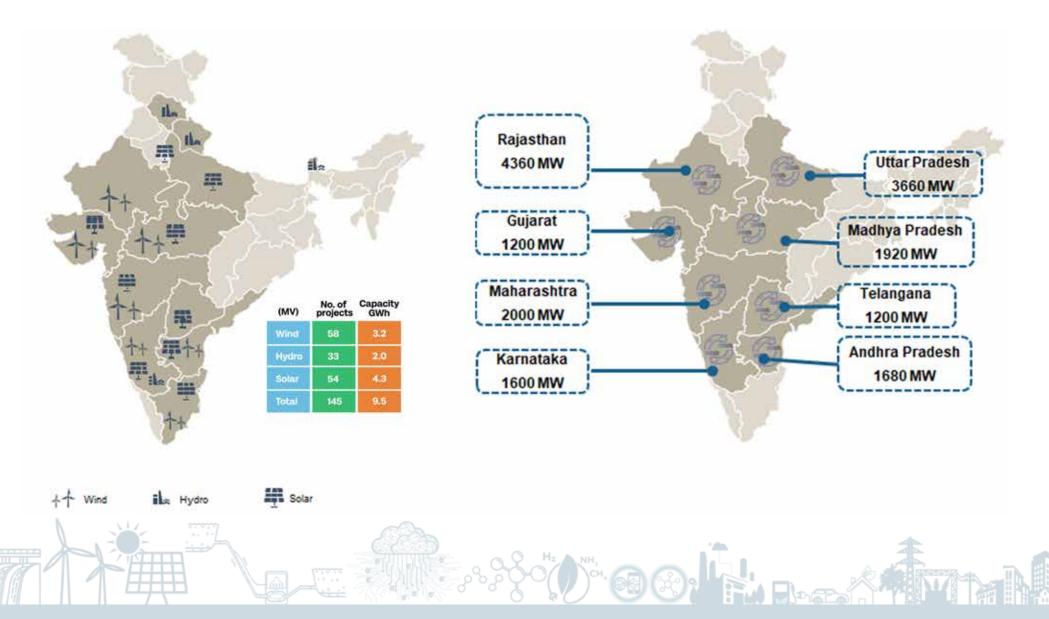


Greenko Group: Asset base geographical diversification

Diversified portfolio of Assets: Total 145 operational projects across 15 states

Renewable Energy Operating Assets

RE Storage Assets Portfolio



Renewable Energy Operating Assets Strengths

- Advanced Predictive Analytics resulting in highest asset availability integrate with Al & Drone based technologies
- Multi-model Forecasting of Wind & Solar resources to map the Energy Discharge
- Over 98% of machine availability
 at the respective generating seasons

Energy Storage Assets Strengths

- Enables the Firming and Dispatchability of ~100 GW of renewable energy capacity
- Enables the democratization of Energy
 Transfer between RE producers and RE consumers
- Total digital Cloud platform to serve energy as service
- 24/7 Carbon Free Energy
- Peak Renewable Energy
- Ancillary services such as Frequency Regulation, Voltage Regulation, Black Start and Inertial Response

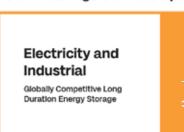
Greenko Evolution and Decarbonization Strategy:

2012 2015 2019 2021

"Large scale Clean-Tech IPP"

Electricity Commercialization and Execution of Renewable Energy Projects at Scale

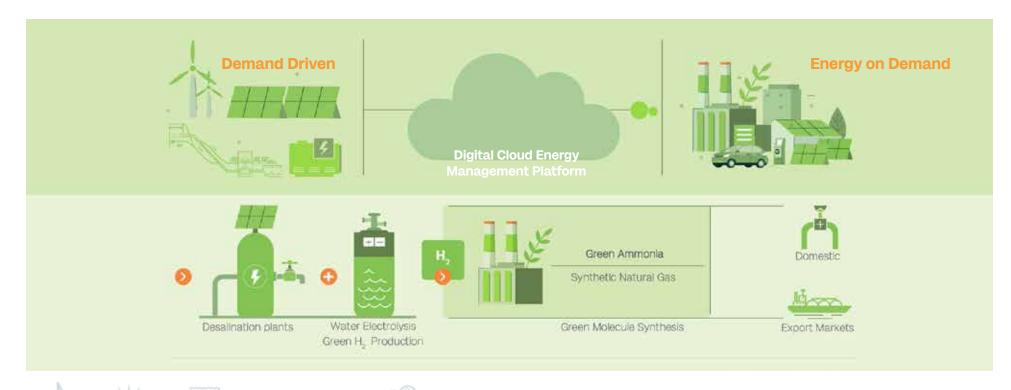
"Cloud Storage Services Specialist"



"Decarbonization Solution Provider"

Industrial and
Global Energy
Markets
Engineered Green Molecules







Globally Largest Storage & Green Molecule Platform:

Diversified Energy Generation

Largest RE & Storage Company



25 GW Capacity

Wind: 3.2 GW Solar: 4.3 GW Hydro: 2.0 GW PSP: 20 GW

~Platform to reduce upto 60 million tonnes of CO2 annually avoided annually

Digital Energy Platform & Strategic Manufacturing

Largest Digital Platform

5 GW Manufacturing ~ 100TWh Managed Energy

Supply de-risking of solar modules 3 GW per annum

Electrolyser Manufacturing capacity of 2 GW per annum

~100 TWh Digital Energy Management Services



~100 GWh Storage Potential

~60 million tonnes of CO2 avoided annually

~25 TWh under management by 2025

Key products include peak power, flexible energy and storage services

Globally Largest Energy Storage Cloud

Cloud Storage Solutions

10 GW Molecule Platform

~8 million tonnes of CO2 avoided annually

ZeroC business to have 10 GW installations by 2030

Electrolyzer installations of ~3.5 GW by 2026-27

Largest Green Molecule Delivery by 2025

Green Molecules

Greenko Disruptive Solutions Enabling Shift from Conventional Energy:

Replacing Conventional Energy Solutions across Utilities & Industries

From Carbon-Based Solutions.....

Greenko driving new-age solutions transformation across Industries

..... To Next-Gen Decarbonisations Solutions



Flexibility to manage dynamic loads

Gas Generation

Transforming Utilities

Flexible Energy
Peak Power
Storage Services





Reliable Industrial Power through Captive Solutions Gas & Coal Power

Transforming Industrial Electricity Consumption

Round-The-Clock
Carbon Free
Energy(CFE)





Steam Methane Reforming for H₂ production Imported LNG

Transitioning to ZeroC Molecules for Industrial Feedstock

Green Hydrogen
Green Ammonia
Synthetic Natural
Gas



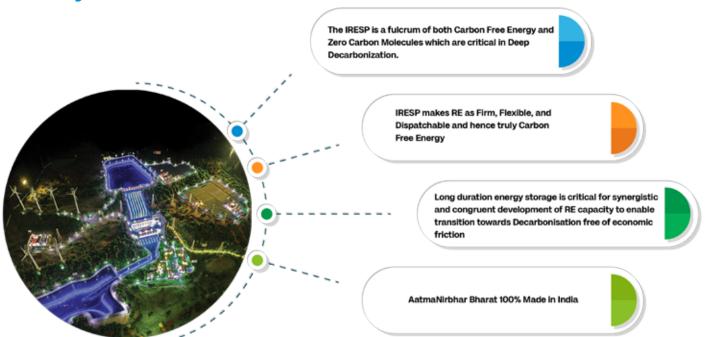








Case Study 1 - AP 01 IREP



Project Overview				
Capacity	1680 MW			
Storage Capacity	6 Hours / cycle / day			
	1680 X 6 = 10,080 MwH / cycle / day			
Connectivity	400+ kV CTU National Grid			
Location	Andhra Pradesh, India			
Туре	Integrated Renewable Energy Storage Project - Off Stream Closed Loop Pumped Storage			
Asset life	75+ Years			
RE Integration Capacities	Solar : 4000 MW Wind : 1000 MW			
AP01 Services / Products:	Carbon Free Energy Round The Clock Renewables CFE for Green Molecules Ancillary Grid Services Renewable Firming and Energy Shifting			



GREENKO'S INTELLIGENT ENERGY CLOUD PLATFORM

(Digital Energy Management, Artificial Intelligence/Machine Learning based Energy Forecasting & Scheduling, Portfolio Dispatch, VPP, IoT Platform)

Products & Services from IRESP

SECI	MW	Peal	k P	owe
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Peak power supply to Rajasthan, DVC & Bihar

Arcelor Mittal

Green steel production in Arcelor Mittal's Gujarat steel plant

RE IPPs

Third party services for their storage and energy firming needs.

Greenko ZeroC

(Green H2/ Ammonia)

Production of Green Hydrogen, Green Ammonia and Green Methanol to export across the World

Ancillary Service

- Frequency regulation
- Voltage Regulation
- Black start service
- Inertial response

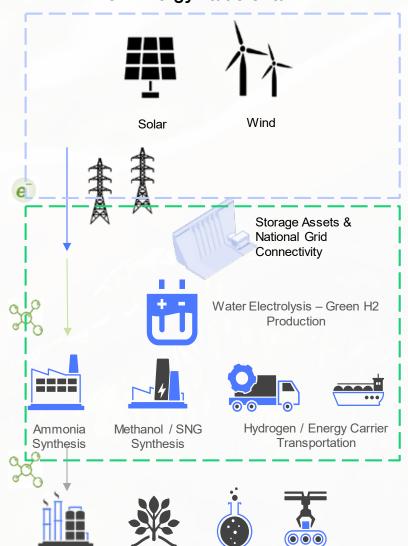




Energy Transition:

Traditional Energy Value Chain Hydrocarbon fields Steam Methane Reforming Methanol / SNG Ammonia Synthesis Synthesis

New Energy Value Chain



- Grey Molecule - Commodity Business

e - Green Electron – Utility Business

UPSTREAM

MIDSTREAM

DOWNSTREAM

æ?

- Green Molecule – Commodity
Business

Greenko: Key Operational Numbers:

Energy Assets 30 GW / 24 TWh **Cloud Storage Solutions** 100+ GWh

Carbon Free Molecules 10 GW

Digital Services and Manufacturing



Hydro 2.0 GW / **10 TWh**

Wind

3.2 GW /

7.3 TWh



RTC Power 60 GWh / 51 TWh



Green H₂ 7.3 GW / 1.0 MTpa



Green NH₃ 1.9 GW / 1.6 MTpa



HCNG 0.6 GW / 1.6 MTpa



Other Molecules 0.3 GW / 0.08 MTpa



Digital Services 100+GWh



Electrolyzer Facility **2 GW**



Solar Modules **3 GW**



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Solar 4.3 GW / 6.7 TWh



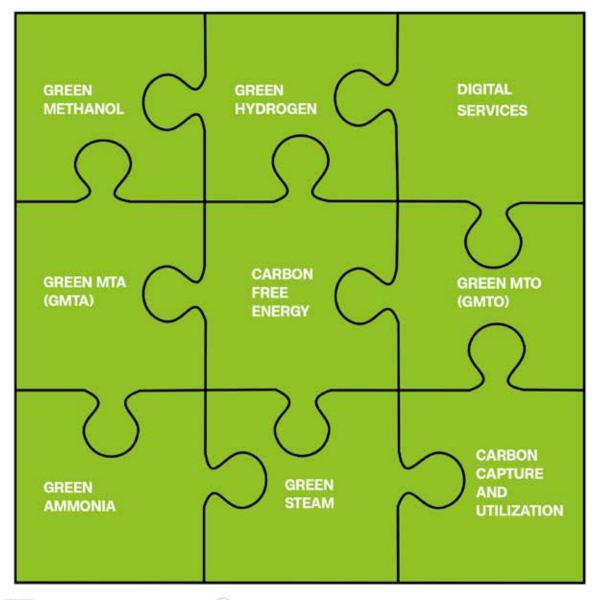
Energy Storage & Peak Power **72 GWh** / 19 TWh



Market Operations and **Grid Services 22 TWh**



Enabling Complete & Integrated Decarbonization Solutions:







Greenko commits to Climate Pledge:

Greenko has joined 114 businesses across the globe and accepted the challenge of Climate Pledge. This requires Greenko to Decarbonise, Report and Offset.

Circular Economy Initiative: E- Waste Recycling Technologies:

Greenko and C- MET entered into a joint venture to establish centre of excellence (CoE) on E-Waste recycling. The CoE is engaged in scaling up the recycling of End of Life Sillicon Solar cells, Permanent Magnets, End of Life Li-ion batteries and PCBs.



Greenko School of Sustainability:

Greenko has partnered with the Indian Institute of Technology Hyderabad to establish the Greenko School of Sustainability. The school is established with the aim of Conducting R&D in processes, products, and systems to achieve sustainable development goals.

The school offers a variety of programs in sustainable science and technology. The School will also act as a resource center for curriculum development and teacher's training to introduction of Sustainable Science and Technology.

The school will be structured as an interdisciplinary centre.



greenk



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