

## Education meets Industry A Win-Win Synergy

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IIT Hyderabad (IITH), a 2nd generation IIT, after tying-up with leading academic institutions around the globe especially Japan with more than 20 universities, has now collaborated with Greenko Group, a city-based India's leading energy transition and decarbonisation solutions' provider with renewable energy generation, energy storage and zero carbon molecules' manufacturing assets.

With an aim to accelerate science, technology, & policy linkages to catalyze effective & just global sustainable energy

transition and industrial transformation, both the education institution and the industry with its matching aspirations and strong belief that the partnership must extend to education,

research, and entrepreneurship beyond technology development, has come together to set up an independent "Greenko School of Sustainable Science & Technology (GSSST)" at IITH campus.

IITH with its many MoUs offers a unique holistic educational ecosystem viz., interactive learning, a highly, flexible academic structure, cutting-edge research, strong industry collaboration, and entrepreneurship. The University has a unique combination of various departments such as Department of Climate Change (unique amongst IITs), Material Science, Chemical Engineering and Artificial Intelligence amongst other disciplines of engineering, liberal arts, design, and management which would further give impetus to the envisaged sectors of sustainable energy and industrial transformation.

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In addition, Greenko Group is a committed and leading renewable energy generation and energy storage player in India with a net 7.5 GWdc installed capacity of RE assets across 15 States in India. Greenko has begun development of storage and green molecule's platform to achieve:

- 100 GWh daily energy storage potential with near-term project pipeline
- 30 TWh under management by 2025
- Electrolyzer installations of ~3.5 GW by 2026-27
- ZeroC business to have 10 GW installations by 2030



and become globally largest storage and green molecules platform. The group aims to transform renewable energy from real-time energy to a dispatchable and controlled medium

through digitalization and storage solutions to support the economy-wide drive for deeper decarbonization across sectors in the country.

Greenko believes that education, research, technology & entrepreneur development is vital for Net Zero & Sustainable transition of the globe. In this direction, it has begun engaging with research and development institutions such C-MET, NEERI, CECRI and BARC and established/establishing partnership in circular economy and net zero technologies. The GSSST would collaborate with global research and educational institutions and contextualise energy transition & industrial transformation technology to India and developing countries.

IITH with its proven track record of excellent academic and research infrastructure built over the last ten years and an active innovation Council, under its mentorship, GSSST would be accessing the infrastructure and faculty of climate change, material science, chemical engineering, and artificial intelligence to conduct education and research programs relevant for energy transition as well as develop entrepreneurship.

GSSST is foreseen to be a center for research academic development and extension in the areas of Climate Change Mitigation, Digitalisation, AI and Space technologies for Energy and Industrial Transition, Circular and Regenerative Economy, Industrial Ecology and Green Chemistry, Hydrogen and Zero Carbon Molecules, etc. and is envisioned to become one amongst the top 10 global education, training, outreach and research organization in Energy and Industrial Sustainability in the coming 10 years.

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A Glimpse of MoU signing