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SUSTAINABILITY

Vedanta advances clean energy strategy, cuts nearly 20 lakh tonnes of CO₂

On National Energy Conservation Day, Vedanta outlines how renewable energy, efficiency and circular practices are cutting emissions across operations.



by **Staff Writer**

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Vedanta Limited marked National Energy Conservation Day by reaffirming its focus on accelerating India's clean energy transition through a structured

decarbonisation strategy. The company reported that it has mitigated nearly 20 lakh tonnes of carbon dioxide equivalent (CO₂e) by sourcing renewable energy and improving operational efficiency across its businesses.

Renewable energy and efficiency drive emissions reduction

Vedanta's decarbonisation roadmap is anchored on four levers: renewable energy adoption, transition to low-carbon fuels, energy and process efficiency, and carbon offsets. Up to November FY26, the group sourced 2.58 billion units of renewable energy, reducing close to 2 million tonnes of CO₂e emissions—comparable to taking over 4 lakh cars off Indian roads for a year.

Since FY21, Vedanta has mitigated more than 28 million tonnes of CO₂ emissions. In FY25, the company invested around USD 170 million towards its net-zero ambitions, reinforcing its long-term energy transition strategy.

Process innovation and circularity initiatives

During FY26, Vedanta implemented over 30 energy-saving and decarbonisation projects across its operations. These initiatives include improved waste-heat recovery systems, equipment overhauls and energy optimisation through advanced pot controllers. Together, these projects are expected to reduce emissions by more than 150,000 tonnes of CO₂ annually.

Supporting the Government of India's 'Waste to Wealth' mission, Vedanta has increased the use of biofuel derived from biomass and agricultural residue. In 2025 alone, the company used 182 kilotonnes of biomass, mitigating over 300,000 tonnes of CO₂ emissions.

Low-carbon materials power India's energy transition

Vedanta continues to expand low-carbon production of transition metals and critical minerals essential for renewable energy, electric mobility and infrastructure. Since 2021, the group has reduced its carbon intensity by nearly 30 per cent.

Vedanta Aluminium is expanding capacity from 2.4 to 3.1 million tonnes per annum, supported by its low-carbon 'green' aluminium brand, Restora. Hindustan Zinc is progressing its 2x growth plan with EcoZen, a green zinc product offering significantly lower carbon intensity for infrastructure applications.

As part of Energy Conservation Week, Vedanta also rolled out awareness initiatives across sites, including energy-saving campaigns, greener commute programmes and community engagement activities. The company reiterated its commitment to achieving net-zero emissions by 2050 or earlier.

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