

Experts throw light on energy solutions, hydropower potential

TIMES NEWS NETWORK

Lucknow: Highlighting the significance of hydropower and storage-based energy solutions in India's energy transition, experts on Tuesday said that pump storage projects (PSPs) will play a crucial role in reducing dependence on fossil fuels.

Addressing a lecture on 'Seismotectonic of the Himalayas and Its Hydropower Potential' organized by the department of geology, Lucknow University, former Additional Director General of the Geological Survey of India, Prabhas Pande, said, "With the right investment in Pump Storage Projects, we can achieve reliable and sustainable power without relying on coal and other fossil fuels. The Himalayas offer vast potential for such projects, and careful geological assessments can ensure their feasibility."



SUSTAINABLE POWER

Pump Storage Projects function by utilizing off-peak electricity to pump water from a lower reservoir to a higher one, storing energy in the form of gravitational potential. During peak demand, water is released to generate hydroelectric power. This system helps balance fluctuations in renewable sources like solar and wind energy, which are intermittent by nature.

Head of geology department, Dhruv Sen Singh, dean of faculty science, Sheela Mishra and ADG and HOD, GSI Northern Region, Rajendra Kumar were also present on the occasion.