

What is India's energy security strategy?

India's energy security strategy is increasingly focused on alternative fuels, with natural gas as a substitute for petrol, and ethanol playing a pivotal role in blending. The rising use of ethanol has supported a reduction in fossil-based gasoline reliance, leading to lower crude oil imports.

Why is energy security important in India?

However, the country relies heavily on oil imports, making it vulnerable to supply disruptions and price volatility. Thus, energy security is paramount. India has set a net-zero emissions goal for 2070 and its major oil and gas companies have similar individual targets between 2035 and 2050.

Why is energy affordability important in India?

In addition, energy affordability is key for the Indian government, which needs policies that balance growing domestic aspirations, fiscal prudence and political capital when prices spike. India's energy security is tied to the energy transition and focuses on adopting clean energy while continuing to use oil and gas for growth.

How is India advancing Advanced Energy Solutions?

As the world watches, India is progressing advanced energy solutions rapidly. India is setting ambitious targets for deploying advanced energy solutions such as clean hydrogen, energy storage and carbon capture. By 2030, it plans to invest over \$35 billion annually in these areas.

What will India's energy future look like?

According to Jennifer Granholm, US Secretary of Energy, "In so many ways, the world's energy future will depend on India's energy future." In line with this, the country is adopting ambitious goals for deploying solutions such as clean hydrogen, energy storage, carbon capture and sustainable aviation fuels.

How has India achieved its energy transition goals?

India has set bold ambitions and demonstrated remarkable progress on energy transition investment. For example, it surpassed its 2030 goal of achieving 40% of installed capacity from renewable energy sources nine years in advance.

The National Energy Trilemma Index 2023 is an attempt by World Energy Council India (WEC India) at the national level to assess performance of Indian States & UTs across three core energy related dimensions: Energy Security, Energy ...

Three COPs and just three years later, there are signs of remarkable progress made by the country as it transitions towards clean energy sources. India's renewable energy capacity has expanded by an impressive 54 GW to reach 203.22 GW as of October 2024, which translates to almost 45 per cent of the entire installed power capacity of the country.

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As a result of its GDP growth potential, urbanisation, growth in built spaces, and the increased demand for electricity as well as materials such as cement and steel, energy demand growth in India is on track to outpace all other regions of the world by 2050.

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