



RESEARCH PAPER

Hydropower potential in Assam: Assessment and analysis

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Abstract : Electricity is a must in every aspect of life. It has been identified as a fundamental human desire. It is the foundation of a country's socio-economic growth. The provision of low-cost electricity to rural India is critical to the country's overall growth. The service sector has made a significant contribution to our economy's development. The availability of a high-quality electricity supply is critical to the sector's long-term development. Energy consumption is rapidly increasing, as are greenhouse gas emissions from the energy industry. In terms of socio-economic indicators, Assam lags behind the rest of India. The vast hydroelectric potential of the area is due to the abundance of seasonal rivers and water bodies. However, it has been observed that hydropower development is hampered by a number of factors, including technical difficulties, political problems, a lack of adequately investigated projects, environmental concerns, power evacuation issues and many more. Exploitation of the huge hydro potential in Assam could be used for export to the power deficit regions of the country. Construction of infrastructure in remote hilly areas, communications, and energy supply, will benefit the country as a whole, resulting in a higher standard of living. The study's aim is to determine the current power situation in Assam in terms of hydropower and also highlighting the region's hydropower sector's potential opportunities and challenges.

Key Words : Hilly areas, Hydro power, Renewable energy

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