



सत्यमेव जयते
Government of Tripura



TRIPURA ENERGY VISION 2030 ROADMAP

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EXECUTIVE SUMMARY

Tripura State's dedication to sustainable development aligns with the Government of India's vision, as evidenced by the unveiling of the "Sustainable Development Goals (SDG) Vision 2030 Tripura" in 2020. To support this vision in the energy sector, Research Triangle Institute (RTI) International India collaborated with the Government of Tripura to create "The Energy Vision 2030 Roadmap." This strategic roadmap outlines essential interventions to ensure the sector's sustainable growth, emphasizing *affordability, availability, and reliability of energy supply*. In harmony with the national vision of "Sabka Saath Sabka Vikas," Tripura's forward-looking approach and collaborative efforts exemplify a commitment to inclusive and environmentally conscious progress.

The Energy Vision 2030 Roadmap paves the way for transformation across Generation, Transmission and Distribution segment and highlights major objectives from development of renewable energy, modernization of distribution utilities to upgradation of distribution infrastructure and cross border power exchange for ensuring energy security, industry investments and revenue generation for the government and the utilities.

Section 1 highlights the economic growth trajectory and causal relationship between economic growth and electricity consumption which sets the context for energy requirement and exploitation of different sources of energy to cater to the increasing demand from various sectors. As compared to State Government's expectation of 10.2% year on year growth of real GSDP/capita, energy consumption is growing at a 7% CAGR which needs to be accelerated to ensure socio-economic development in the state. There is an imminent need to explore potential contributors like industrial sector to the state economy.

Section 2 depicts the power sector scenario of Tripura encompassing Electricity Generation, Transmission and Distribution and highlights the major issues and thrust areas in the sector from generation efficiency improvement requirement, renewable capacity addition to strengthening of transmission and distribution network, infrastructure upgradation etc. Evaluation of these areas has helped in identifying various potential interventions required to strengthen the sector like development of low cost RE generation, conversion of open cycle gas plants to combined cycle, increase in cross border trading to tariff rationalization (reducing ACS-ARR gap), reduction in AT&C losses along with a list of key takeaways depicting the focus areas which will form the basis for the list of interventions mentioned as part of strategic roadmap.

RE sources	Potential
Solar	2.08 GW
Hydro	47 MW
Biomass	3 MW
Waste to Energy	2 MW

Source: MNRE