

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 4229
ANSWERED ON 26/03/2025

TIDAL ENERGY GENERATION

4229. SHRI AZAD KIRTI JHA

Will the MINISTER OF NEW & RENEWABLE ENERGY be pleased to state:

- (a) the total power generation from tidal energy (in million kWh) in the country for each of the last ten years, State-wise;
- (b) The details of installed capacity (in MW) of tidal energy projects in India along with their locations and operational status;
- (c) whether the Government has undertaken any pilot projects or feasibility studies for tidal energy development and if so, the details thereof;
- (d) the challenges identified in the large-scale adoption of tidal energy in India and the steps being taken to address them; and
- (e) whether the Government has any plans or policies to promote tidal energy investment as part of its renewable energy strategy and if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) to (c) As of now, there has been no power generation from tidal energy in the country over the last ten years, in any state. However, the Indian Institute of Technology, Chennai, in association with Credit Rating Information Services of India Limited (CRISIL), conducted a study titled “Tidal & Wave Energy in India: Survey on the Potential & Proposition of a Roadmap” in December 2014. As per report, the tidal energy potential is estimated around 12,455 MW.

No pilot project has been installed so far.

(d) Tidal energy is still at a nascent R&D stage and the major challenges in the large-scale adoption of tidal energy in India include high capital costs and technological barriers.

(e) The Ministry is implementing a “Renewable Energy Research and Technology Development Programme (RE-RTD)” through various research institutions and industry to develop indigenous technologies and manufacturing for widespread applications of new and renewable energy including tidal energy in efficient and cost-effective manner in the country.

Under the Re-RTD programme, the Ministry provides up to 100% financial support to Government/non-profit research organizations and upto 70% to Industry, start-ups, private Institutes, entrepreneur, and manufacturing units.
