

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 605
ANSWERED ON 22.07.2026

DECENTRALIZED SOLAR AND WIND ENERGY POTENTIAL

605. SHRI BAPI HALDAR

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether the Government is aware of the enormous potential for decentralized solar and wind energy in the Sunderbans delta including areas of Mathurapur Lok Sabha constituency that face power outages;
- (b) if so, the details of renewable energy installations or pilot projects initiated by the Government in South 24 Parganas or similar coastal ecosystems;
- (c) whether the Government is proposes to consider Mathurapur as a priority zone for decentralized renewable energy microgrids; and
- (d) if so, the details thereof and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) & (b) As per the inputs received from Government of West Bengal, the State Government through its parastatal - West Bengal Renewable Energy Development Agency (WBREDA) has been undertaking various initiatives for the utilization of the decentralized solar and wind energy in the Sunderbans delta. The details of such initiatives are given in **Annexure**.

Under the PM Surya Ghar: Muft Bijli Yojana, 281 Nos. of households are solarised in the South 24 Parganas district.

In order to access the wind potential in the region, the National Institute of Wind Energy has established two (2) Wind Monitoring Stations in the South 24 Parganas District under the Mathurapur Lok Sabha Constituency. The measured mean wind speeds at these two locations are 4.77-4.81 m/s at 25 m height.

The wind resource measured indicates relatively low wind speeds, which are not considered economically viable for commercial wind power development.

(c) & (d) As per the inputs received from Government of West Bengal, the Sundarbans region is one of the priority areas for deployment of Renewable Energy (RE) technologies, considering its ecological significance and the need for conservation of its unique biodiversity. Since Mathurapur is a part of the Sundarban region, it also falls within this focus area for RE interventions

Annexure referred to in reply of part (a) & (b) of the Lok Sabha Unstarred Question

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Details of initiatives undertaken by Government of West Bengal for the utilization of the decentralized solar and wind energy in the Sunderbans delta

- i. Acquiring technical knowledge effecting future implementation of Battery Energy Storage Systems (BESS) to support the grid at the time of power outages.
- ii. Solar PV Home Lighting System, PV Street Lighting System, PV Power Plant with local grid, Wind- Gasifier-Diesel Hybrid Power Plant through micro-grid in various blocks like Sagar, Namkhana, Patharpratima, Gosaba, Hingalganj, Sandeshkhali-I &II.
- iii. Under different flagship programmes [Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY), Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY)] of the Government, different islands of Sundarbans are covered with utility grid of the distribution company and the DRE applications have become support systems to the grid excepting some few places like Ghoramara Island etc., which are still not covered by utility grid of the DISCOM.
- iv. The Non-Conventional and Renewable Energy Sources (NRES) Department has also accorded significant importance to the introduction and promotion of Renewable Energy (RE) technologies in the ecologically fragile Sundarbans region.

