

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 2222**  
ANSWERED ON 08/08/2023

**WIND ENERGY IN ANDHRA PRADESH**

2222. SHRI MASTHAN RAO BEEDA

Will the Minister of New and Renewable Energy be pleased to state:

- (a) whether it is a fact that Andhra Pradesh is one of the 8 States in the country with the highest wind energy potential;
- (b) whether there is any scheme to aid the replacement of old and less efficient turbines with advanced turbines;
- (c) whether any policy is being formulated to repower old turbines and issue guidelines to recycle old turbines;
- (d) if so, the details thereof and if not, the reasons therefor; and
- (e) the quantum of funds invested in Andhra Pradesh for it to develop its wind energy potential in the past three years?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**

**(SHRI R.K. SINGH)**

(a) The wind resource assessment conducted by the National Institute of Wind Energy indicates an estimated wind power potential of about 695.5 GW at 120 meter and 1164 GW at 150 meter above ground level in the country. However, the wind resource is highly site-specific and its commercially exploitable potential is available majorly in eight states, including Andhra Pradesh. The state-wise wind power potential of these eight windy states is given as under;

State	Wind Power Potential (in GW) at 120 m above ground level	Wind Power Potential (in GW) at 150 m above ground level
Andhra Pradesh	74.90	123.33
Gujarat	142.56	180.79
Karnataka	124.15	169.25
Madhya Pradesh	15.40	55.42
Maharashtra	98.21	173.86
Rajasthan	127.75	284.25
Tamil Nadu	68.75	95.10
Telangana	24.83	54.71
Others	18.95	27.14
<b>Total</b>	<b>695.5</b>	<b>1163.85</b>

(b) to (d) Government has issued 'Policy for Repowering of the Wind Power Projects' on 05<sup>th</sup> August, 2016 which, inter alia, provides an incentive of additional interest rate rebate of 0.25% over and above the interest rate rebates available to the new wind projects being financed by Indian Renewable Energy Development Agency (IREDA).

Majority of wind turbine components are made up of metals which can be recycled and for Fiber Reinforced Plastics (FRP) used in blades, the Central Pollution Control Board (CPCB) has issued 'Guidelines for Disposal of Thermoset Plastic Waste including Sheet moulding compound (SMC)/Fiber Reinforced Plastic (FRP)' on 25<sup>th</sup> May, 2016.

(e) The wind power projects are set up mostly by developers based on technoeconomic viability of the project. The estimated investment made for installing wind energy projects in the past three years in Andhra Pradesh are as under;

Financial Year (FY)	Wind Capacity Addition (MW)	Estimated Investment (Rs. in Crore)
2020-21	4.2	29.4
2021-22	0	0
2022-23	0	0
2023-24 (upto 30 <sup>th</sup> June, 2023)	0	0

\*Considering the estimated cost of Rs. 7 Cr/MW for wind power project.

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