

**GOVERNMENT OF INDIA  
NEW AND RENEWABLE ENERGY  
LOK SABHA**

UNSTARRED QUESTION NO:6830  
ANSWERED ON:07.05.2015  
WIND TURBINES  
Jaiswal Dr. Sanjay

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

- (a) the average Capacity Utilization Factor (CUF) of wind turbines being used currently in the country;
- (b) whether the Government is taking any initiatives to promote the development of better wind turbines with increased CUF;
- (c) if so, the details thereof; and
- (d) the other initiatives taken by the Government for repowering the existing wind sites in the country to increase output?

**Answer**

THE MINISTER OF STATE FOR POWER, COAL & NEW AND RENEWABLE ENERGY (INDEPENDENT CHARGE) (SHRI PYUSH GOYAL)

- (a): The average Capacity Utilization Factor (CUF) of wind turbines being used currently in the country is around 25% depending upon site of the project, wind speeds available and grid conditions.
- (b)&(c): The wind industry is moving towards more efficient wind turbines by using gearless & variable speed wind turbines, permanent magnetic generator, higher hub heights and larger rotor diameter. The Generation Based Incentive (GBI) introduced by Government also encourages the developers to increase the CUF to avail maximum GBI at the earliest.
- (d): In view of improved technology, higher hub heights and larger rotor diameter, there is need to repower the old wind power projects. Repower- ing has been envisaged as one of the important activities of proposed Wind Mission.