

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
UNSTARRED QUESTION NO. 1081
ANSWERED ON 10.02.2023

CLEAN ENERGY

1081. SHRI DEREK O'BRIEN:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways plan to achieve carbon neutrality by 2030, if so, the details thereof;
- (b) the progress that has been made on this target, details thereof;
- (c) whether it is a fact that by 2029-30, the expected requirement of installation of renewable capacity would be about 30 gigawatts; and
- (d) If so, the percentage of this capacity that has been installed so far?

ANSWER

MINISTER OF RAILWAYS, COMMUNICATIONS AND
ELECTRONICS & INFORMATION TECHNOLOGY
(SHRI ASHWINI VAISHNAW)

(a) to (d) Indian Railways has set a target of becoming Net Zero Carbon Emitter by 2030. IR has taken a number of initiatives to reduce its carbon emissions which include use of energy efficient technologies like completely switching over to production of three phase electric locomotives with regenerative features, use of head on generation (HOG) technology, use of LED lights in buildings and coaches, star rated appliances, water conservation and management, afforestation, bio toilets on coaches and waste management. The key strategies that have been identified for achieving the Net Zero Carbon emission target are procurement of power through renewable energy sources; shifting from diesel to electric traction; promotion of energy efficiency; and afforestation.

To achieve Net Zero Carbon Emission, expected requirement of renewable capacity by 2029-30 would be about 30,000 MW. As of January 2023, about 145 Mega Watt (MW) of solar plants (both on Rooftops and on land) and about 103 MW of Wind power plants have been commissioned. Further, about 2150 MW of renewable capacity has also been tied up.

In addition, IR has planned to progressively procure renewable energy from different power procurement modes for its future energy requirements.
