

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION NO. 2983
TO BE ANSWERED ON 11.03.2020**

HEAD ON GENERATION (HOG) TECHNOLOGY

2983. SHRI P. RAVEENDRANATH KUMAR:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the South Central Railway (SCR) zone has introduced Head On Generation (HOG) technology trains so as to cut down on its energy bills;**
- (b) if so, the details thereof and whether it has been executed by the Government on pilot basis;**
- (c) if so, the details thereof and whether the Government has also planned to expand this technology in all other trains; and**
- (d) if so, the details thereof including the plan of action proposed by the Government in this matter?**

ANSWER

MINISTER OF RAILWAYS AND COMMERCE & INDUSTRY

(SHRI PIYUSH GOYAL)

(a) Yes, Sir.

(b) Indian Railways has adopted an energy-efficient power supply system for coaches called Head On Generation (HOG) system wherein power supply is drawn from Over Head Equipment (OHE) through converters provided in electric locomotive (WAP-7/WAP-5) for coach AC, lighting, fans etc. In SCR zone, 44 trains have been converted to Head On Generation (HOG) technology trains.

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(c) & (d) This system is being provided in End On Generation trains, where power cars equipped with DG sets, are provided at both the ends. The system is considered to provide a cost effective, reliable and energy efficient supply system for coaches. This eliminates use of Diesel Alternator set in power cars which creates noise & air pollution.

As on date, 1010 trains out of 1050 trains are HOG compliant and it has been decided to convert the balance trains as HOG compliant, in a phased manner.
