

**GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS**

**LOK SABHA  
UNSTARRED QUESTION NO.1342  
TO BE ANSWERED ON 25.07.2018**

**SOLAR PANEL ON TRAINS**

**† 1342. SHRI SATISH CHANDRA DUBEY:**

**Will the Minister of RAILWAYS be pleased to state:**

- (a) whether the Railways has installed rooftop solar panels on some trains on experimental basis;**
- (b) if so, the details thereof and the outcome of such experiment;**
- (c) whether the Railways proposes to install such rooftop solar panels on other trains;**
- (d) if so, the details thereof, zone-wise and if not, the reasons therefor; and**
- (e) the steps taken by the Government in this regard?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF RAILWAYS**

**(SHRI RAJEN GOHAIN)**

**(a) Yes, Madam.**

**(b)&(e) Details of fitment and outcome are as below:**

- (i) Solar Panels on trial basis have been retrofitted on the rooftop of 06 Nos. Trailer Coaches of Diesel Electric Multiple Unit (DEMU) in July 2017.**
- (ii) Solar Panels have been installed on 10 Nos Exhibition Coaches of Swachhata Express in March 2018.**
- (iii) In addition to above flexible solar panels have also been retrofitted on 11 coaches of Sitapur-Rewari passenger in the month of July 2018 to augment the battery charging.**
- (iv) 50 no. of Guard vans have been retrofitted with solar panel in 2017-18.**

**Outcome:**

- (i) Retrofitment of Solar Panel on roof of DEMU Trailing Coaches exhibition coaches and passenger coaches produces 10 Kwh (units) of electricity per clear day which is sufficient to run fans and lights.**
- (ii) Solar Panel in guard van produces 1.2 KWh (Kilo Watt Hours) of electricity per clear day.**
- (c)&(d) There are further sanctions available for provision of Solar Panels on 530 Nos. Trailing Cars of DEMUs and in 750 nos Guard Brake vans and the work of retrofitment of Solar Panels in coaches will be done in different workshops and DEMU Sheds of Indian Railways.**

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