

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
UNSTARRED QUESTION 1834
TO BE ANSWERED ON 08.12.2021**

TRACK ELECTRIFICATION

1834. SHRI GAURAV GOGOI:

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways is on track to achieve its aim of electrification of the entire network by December 2023;**
- (b) if so, the details of the length of tracks electrified since 2014, zone-wise and year-wise;**
- (c) the details of amount of high-speed diesel consumption by the Railways since 2014, zone-wise and year-wise;**
- (d) the details of the solar power generation projects of the Railways that have been completed, under construction and sanctioned so far; and**
- (e) the details of the decarbonising efforts of the North East Frontier Railway?**

ANSWER

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

(a) to (e) A Statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF UNSTARRED QUESTION NO. 1834 BY SHRI GAURAV GOGOI TO BE ANSWERED IN LOK SABHA ON 08.12.2021 REGARDING TRACK ELECTRIFICATION

(a) Yes, Sir. Indian Railways (IR) has embarked upon a major electrification program to electrify its Broad Gauge (BG) network by December, 2023.

(b) Zone wise and year wise details of length of tracks electrified since 2014 is as under:

Zone	Year						
	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Central	81	192	194	181	223	210	408
East Coast	13	136	113	326	425	160	102
East Central	140	87	133	449	594	373	204
Eastern	22		225	72	263	182	255
North Central	133		39	216	338	218	126
North Eastern	226	159	161	166	438	541	561
Northeast Frontier				113	139	67	333
Northern	184	527	276	333	907	399	696
North Western		72		530	631	561	385
South Central		94	91	609	445	95	401
South East Central		36		343	181	117	197
South Eastern				118	42		244
Southern	377	173	82	213	196	180	189
South Western			244	96	35	145	477
West Central		26	67	177	295	357	515
Western			21	145	124	664	588
Konkan Railway						109	334
Total	1,176	1,502	1,646	4,087	5,276	4,378	6,015

(c) The details of diesel consumption zone-wise and year-wise are as under:

Diesel Consumption by locomotives (KLs) BG+MG+NG						
	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Central	165953	178828	186958	189890	182275	170424
Eastern	137683	138539	131700	138539	122080	108453
East Central	125149	123927	123366	114418	111541	82216
East Coast	99438	109266	116252	119339	118598	106778
Northern	351874	347000	327752	315051	318007	290412
North Central	57440	58932	53251	55446	60371	54845
North Eastern	146839	154432	153586	159283	153078	133876
Northeast Frontier	177715	166469	152139	147370	156996	124093
North Western	227785	225039	223144	219327	221133	202367
Southern	194018	194869	190385	178167	167729	136107
South Central	304170	303126	293104	287892	178839	194803
South Eastern	118842	116710	114023	108046	105299	88179
South East Central	65137	69027	61191	58635	60144	53500
South Western	204164	201033	198525	197667	200915	198258
Western	285125	290871	257611	262923	261808	232321
West Central	194853	196282	209976	226438	222329	188667
Total	2856185	2874350	2792963	2778431	2641142	2365299

(d) So far, Indian Railways (IR) has already set up about 128 Mega Watt (MW) of Solar Power Plants (121.47 MW on rooftops and 6.7 MW on land). In order to proliferate solar power on unused vacant Railway land, Indian Railways has taken up 3 pilot projects:

(i) 2 MW solar plant at Diwana (Haryana) connected directly to State Transmission Utility (STU) network.

(ii) 1.7 MW solar plant at Bina (Madhya Pradesh) feeding solar power directly to 25 kilo Volt (kV) Traction System of IR.

(iii) 50 MW solar power plant on vacant unused land at Bhilai, connected directly to Central Transmission Utility (CTU) network.

For further proliferation of solar plants on vacant unused Railway land, IR has planned to set up about 1.4 GW of solar plants.

(e) So far, about 4 MW of rooftop solar plants on Railway stations and service buildings have been provided in Northeast Frontier Railway.