

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.910
ANSWERED ON 21.07.2022**

USE OF RENEWABLE ENERGY FOR CHARGING ELECTRIC VEHICLES

†910. SHRI RAKESH SINGH:

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

- (a) whether the conventionally generated electricity to charge the batteries used in electric vehicles in the country produces a lot of carbon emissions;**
- (b) if so, the details thereof;**
- (c) whether the Government has formulated any scheme to generate electricity from renewable energy for charging electric vehicles from the point of view of environmental protection and if so, the details thereof; and**
- (d) whether the Government has set any targets in this regard and if so, the details thereof?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : The Charging Stations take connection from DISCOMs which in turn take the supply of electricity from the Grid. The power is supplied to grid from both Non-Renewable and Renewable Sources and this power is used for charging the Electric Vehicles (EVs).

As per the “CO₂ Baseline Database for the Indian Power Sector” prepared by the Central Electricity Authority (CEA), the weighted average specific emissions for Coal based stations over the last 8 years can be seen at Annexure.

(c) & (d) : Ministry of Power issued the revised consolidated Guidelines & Standards for charging infrastructure on 14.01.2022. Para 2.2 of the guidelines provides that any Public Charging Station/Chain of Charging Stations may obtain electricity from any generation company through open access. Open access shall be provided within 15 days for this purpose. The provision allowing Open Access would enable the Renewable Energy to be utilized for the purpose of Charging of Electric Vehicles through these Public Charging Stations (PCS).

The total installed capacity of Renewable Energy Sources (RES) other than large hydro plants in India as on 30.06.2022 is 114064.01 MW. This would enable the Renewable Energy so generated to be utilized for various purposes including for Charging of Electric Vehicles.

ANNEXURE**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED
QUESTION NO. 910 ANSWERED IN THE LOK SABHA ON 21.07.2022**

Weighted average specific emission tCo2/MWh								
Sl. No	Financial Year							
	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
1	1.03	1.01	0.99	0.98	0.97	0.98	0.98	0.97
