

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO-1087
ANSWERED ON-07/12/2021

PRODUCTION COST AND IMPORT OF SOLAR PANELS

1087. MS. SUSHMITA DEV

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether India is capable of producing low cost solar panels to meet its domestic demand;
- (b) the year-wise details of the total number of solar panels made in the country since 2014 to 2021;
- (c) the year-wise details of the average cost of making a solar panel from scratch in the country from 2014 to 2021; and
- (d) the details of the number of solar panels that India imports from, country-wise and year-wise?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) & (b) The total approved capacity for manufacturing solar panels in the country, as per the Approved List of Models and Manufacturers (ALMM) is around 11 GW.

As can be seen from the Table A and Table B below, during the last three years, annual addition of solar generation capacity in the country has remained the same or has increased, while the value of imports of solar photovoltaic modules and cells has declined sharply, indicating increase in the share of domestically manufactured solar PV modules in the total installations in the country.

Table - A:

Item	HS code	Value of import in million USD		
		2018-19	2019-20	2020-21
solar cells, whether or not assembled into modules or made up into panels	85414011 & 85414012	2160	1684	572

Table - B:

Year	Capacity addition in solar power generation in the country (GW)
2018-19	6.54
2019-20	6.45
2020-21	7.63

Solar PV module manufacturers are not required to report their production figures to Ministry of New & Renewable Energy (MNRE), and therefore, this data is not available with MNRE.

(c) Presently, solar PV modules and solar PV cells are manufactured in India but for manufacturing stages prior to solar PV cell, there is no commercial production in India. Thus, the cost of making a solar panel from scratch in the country is not available.

(d) The details of solar photovoltaic modules and cells imported during last three years, as per the website pertaining to Export-Import Data Bank of Department of Commerce, are at Annexure-I.

Annexure-I referred in reply to part (d) of Rajya Sabha Unstarred Question No. 1087 replied on 07.12.2021

SOLAR CELLS/ PHOTOVOLTAIC CELLS WHETHER OR NOT ASSEMBLED IN MODULE/ PANEL, IMPORTED IN INDIA UNDER CTH 85414011			
Country	Value of Imports in USD million		
	2018-19	2019-20	2020-21
Anguilla	0.14	0.00	0.0
Cambodia	0.43	5.97	6.69
Canada	24.04	7.92	0.80
Chad	0.00	0.00	0.24
Taiwan	65.58	20.97	11.28
China PRP	1694.04	1307.03	494.87
France	0.01	0.00	0.06
Germany	20.10	3.73	0.03
Hong Kong	45.37	31.30	3.22
Indonesia	0.00	0.11	0.01
Italy	0.15	0.27	0.16
Japan	0.40	3.41	0.15
Korea RP	10.72	1.72	0.16
Lithuania	0.09	0.00	0.00
Malaysia	15.31	3.91	7.46
Myanmar	0.00	0.98	5.78
Netherland	0.04	0.00	0.00
Philippines	0.01	0.04	0.00
Qatar	0.01	0.00	0.00
Russia	0.00	0.02	0.04
Saudi Arab	0.00	0.00	0.01
Singapore	126.30	31.32	6.69
Spain	0.00	0.18	0.10
Sri Lanka DSR	0.25	1.28	0.00
St. Helena	0.06	0.00	0.00
Switzerland	0.03	0.00	0.01
Thailand	55.05	120.47	18.76
Tunisia	0.00	0.01	0.00
Turkey	0.01	0.00	0.00
U.A.E.	0.86	0.43	0.00
U.K.	0.56	0.02	0.06
U.S.A.	8.20	2.57	0.03
Vietnam Soc. Rep.	91.97	140.63	14.97
Unspecified	0.00	0.00	0.07
TOTAL	2160	1684	572