

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO-4417
TO BE ANSWERED ON-22.03.2018
SHARE OF RENEWABLE POWER SUPPLY

4417. ADV. M. UDHAYAKUMAR

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

- (a) whether it is a fact that the country will need at least US \$ 125 billion to fund a plan to increase the share of renewable power supply in the country's grid by 2022, underlining the immense financing challenge ahead;
- (b) if so, the details thereof;
- (c) whether the Government expects renewable energy to make up 40 per cent of installed power capacity by 2030 compared with 18.2 per cent at the end of 2017; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER (I/C)
(SHRI R.K. SINGH)

(a) & (b) The Government has set a target for installing 175 GW of Renewable Energy capacity by the year 2022 which includes 100 GW from solar, 60 GW from wind, 10 GW from Biomass and 5 GW from Small Hydro. A cumulative Renewable Energy capacity of 65.55 GW has been installed in the country upto February 2018. To achieve the balance target of 109.45 GW, an investment of approx. 85 billion US\$ has been estimated as the capital cost. The details of the source-wise requirement of funds are given in the Annexure.

(c) & (d) As per Government of India's submission to the United Nations Frame Work Convention on Climate Change on Intended Nationally Determined Contribution (INDC), a cumulative electric power capacity of 40% from non-fossil fuel based energy resources is to be achieved by 2030. To achieve this, the Government has scaled up the target of installing renewable energy capacity to 175 GW by the year 2022.

Annexure

Annexure referred to in reply to part (a) & (b) of Lok Sabha Unstarred Question No. 4417 for 22/03/2018 regarding 'Share of Renewable Power Supply'.

Details of Source-wise calculation of amount required to achieve the target of 175 GW						
Source	Target to be achieved by 2022	Capacity Achieved as on 28/2/2018	Balance	Average estimated capital cost per MW (in crore)	Total amount required (in crore)	Amount req (in \$ crore) @ 64.88
Wind	60000	32957.86	27042.14	5	135210.7	2084.01
Solar Power	100000	19584.15	80415.85	5	402079.25	6197.28
Biomass	10000	8527.88	1472.12	7	10304.84	158.83
SHP	5000	4476.65	523.35	10	5233.5	80.66
Grand Total	175000	65546.54	109453.5		552828.29	8520.78
Expected amount required					In Billions	85.20 say 85.00 US\$