

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 3551
TO BE ANSWERED ON 23.03.2017

SOLAR AND WIND ENERGY POTENTIAL

3551. DR. BOORA NARSAIAH GOUD:

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

- (a) whether any assessment has been made about the estimated solar and wind energy potential in Telangana;
- (b) if so, the details thereof;
- (c) the details of schemes launched under solar and wind energy programmes in Telangana; and
- (d) the likely contribution of Telangana in the Union Government's target of 1 lakh MW solar power addition and 60,000 MW wind power capacity by 2022?

ANSWER

THE MINISTER OF STATE FOR POWER, COAL, NEW & RENEWABLE ENERGY AND MINES (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a) & (b): As per assessment carried out by National Institute of Solar Energy (NISE), the estimated potential of solar energy in Telangana is 20.41 GW and as per the assessment carried out by National Institute of Wind Energy (NIWE), the estimated potential for wind in Telangana is 4244.29 MW at 100 meter hub height.

(c): Government of Telangana has reported that it has announced "Solar Power Policy-2015" on 10.6.2015 to encourage generation of solar power in the State by various means viz. captive use, third party sale and sale to DISCOMs w.e.f. 01.06.2015. This apart, the Ministry of New & Renewable Energy (MNRE) is providing Central Financial Assistance (CFA)/ subsidies to all States including Telangana in accordance with respective guidelines. Details of such schemes & CFA provided are given at **Annexure**.

(d): Government of Telangana has projected cumulative solar power of 5000 MW and cumulative wind power of 2000 MW by 2022.

ANNEXURE REFERRED TO IN REPLY TO LSUQ NO. 3551 FOR ANSWER ON 23.03.2017

Details of Schemes for promotion of Solar Energy and Wind Energy

(A) SOLAR ENERGY

Sr. No.	Scheme	Central Financial Assistance/Subsidy
	Solar Energy	
1.	Scheme for Setting up of 750 MW Grid-connected Solar PV Power Projects under Batch-1 of Phase-II of JNNSM with Viability Gap Funding Support from NCEF	<ul style="list-style-type: none"> • Viability Gap Funding (VGF) provided, limited to 30% of the project cost or 2.5 crore per MW, whichever is lower. • Solar Energy Corporation of India (SECI) signs PPA with project developers for 25 years at 5.45 Rs. per unit (4.75 Rs. per unit for projects availing accelerated depreciation).
2.	Grid Connected Rooftop	<ul style="list-style-type: none"> • CFA @ 30% of the benchmark cost for general and 70% for NE and Special Category States for Govt. projects.
3.	Pilot-cum-demonstration project for development of grid connected solar PV power plants on canal banks and canal tops	<ul style="list-style-type: none"> • Financial support of Rs.3 crore/MW or 30% of the project cost, whichever is lower, for Canal Top SPV projects and Rs. 1.5 crore/MW or 30% of the project cost, whichever is lower, for Canal Bank SPV projects.
4.	Development of Solar Cities Programme	<ul style="list-style-type: none"> • Financial support up to of Rs. 50 lakh <ul style="list-style-type: none"> • for preparation of the Master Plan & DPR (up to Rs. 10 lakh), • oversight of its implementation (up to Rs. 10 lakh), • setting up and functioning of Solar City Cell in the city (up to Rs. 10 lakh) • organizing promotional activities (up to Rs. 20 lakh).
5.	Scheme for Development of Solar Parks and Ultra Mega Solar Power Projects	<ul style="list-style-type: none"> • Rs.20 lakhs/MW or 30% of the project cost including Grid-connectivity cost, whichever is lower • CFA @ Rs 25.00 lakh per park for DPR preparation.
6.	Scheme for setting up of 1000 MW of Grid-Connected Solar PV Power projects by Central Public Sector Undertakings (CPSUs) under Batch- V of Phase II of JNNSM	<ul style="list-style-type: none"> • Viability Gap Funding (VGF) @ Rs. 1 Cr/ MW for projects where domestically produced cells and modules are used and Rs. 50 lakh/ MW in cases where domestically produced modules are used.
7.	Operationalization of 300 MW Solar PV Projects by defence establishment and para military forces	<ul style="list-style-type: none"> • VGF @ 1.1 crore /MW to supply solar power at Rs. 4.50/KWh for 25 years.

Sr. No.	Scheme	Central Financial Assistance/Subsidy			
		Sl. No.	Category	Capacity	Applicable CFA
8.	SPV Lighting systems	1)	Solar power packs/SPV power plants(with battery bank @ 9.6 Vah/Wp	Upto 300 Wp	Rs. 75
				>300 Wp to 10 kWp	Rs. 45
				>10 kWp to 100 kWp	Rs. 39
		2)	SPV power plants (without Battery)	Upto 500 kWp	Rs. 24
3)	Street lights through SPV power plants	Upto 500 kWp	Rs. 75		
9.	Solar Water Pumping Programme for irrigation purpose	Rs 1.62 lakhs per AC Solar Water Pumping System and Rs 2.025 lakhs per DC Solar Water Pumping System as subsidy, up to 5 HP capacity.			

Note: CFA stands for Central Financial Assistance.

(B) WIND ENERGY

The Government is promoting wind power projects in the country including Telangana by providing fiscal and promotional incentives such as Accelerated Depreciation benefit, Concessional Custom duty on certain components of wind electric generators, excise duty exemption to manufacturers. 10 years tax holiday on income generated from wind power projects is also available. A Generation Based Incentive (GBI) is available for the projects not availing Accelerated Depreciation benefit, under which Rs.0.50/unit generated is provided with a ceiling of Rs. 1.00 crore per MW.

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