

- *VGF support: up to 30% of project cost or Rs. 2.5 crore/MW whichever is less, based on bids.*
- *Developers' equity contribution: At least Rs. 1.5 crore/MW. The balance amount can be raised as loan from any source.*

This scheme is, however, still under finalisation.

(c) and (d) The Ministry envisages solar power capacity addition of 9,000 MW under JNNSM Phase-II (April, 2013—March, 2017), comprising of 3,000 MW under Central schemes and 6,000 MW under States own initiatives/market mechanisms of Solar Renewable Purchase Obligations (RPOs)/Renewable Energy Certificates (RECs). The capacity addition under Central schemes is envisaged mainly through three different schemes of (i) Bundling with thermal power, (ii) Viability Gap Funding support from National Clean Energy Fund and, (iii) Generation Based Incentive Scheme from Ministry's direct budgetary allocation, in different proportions depending on availability of unallocated quota of thermal power allocation of funds from different sources.

Power generation for renewable energy sources

3056. SHRIMATI VASANTHI STANLEY : Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the States which are successfully generating power from renewable energy sources; and
- (b) the details of new schemes Government proposes for promotion of new and renewable energy?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH) : (a) The total installed capacity of power generation from renewable energy sources in the country is 28,067 MW. Major contribution to this is coming from the States of Tamil Nadu (7849 MW), Maharashtra (4188 MW), Gujarat (4079 MW), Karnataka (3605 MW), Rajasthan (3353 MW) and Andhra Pradesh (1114 MW). State-wise details are given in Statement-I (*See below*).

(b) The Government is continuing various incentive schemes to promote the new and renewable energy sector. Details of the incentives schemes are given in Statement-II (*See below*). Further, It is proposed to introduce instruments like generation based incentives, viable gap funding etc. to further support the Renewable Energy sector.

*Statement**State-wise installed capacity of grid interactive renewable power as on 31.03.2013*

Sl. No.	States/UTs	Capacity (in MW)
1	2	3
1.	Andhra Pradesh	1113.94
2.	Arunachal Pradesh	103.93
3.	Assam	31.11
4.	Bihar	114.00
5.	Chhattisgarh	305.90
6.	Gujarat	4078.58
7.	Haryana	123.20
8.	Himachal Pradesh	587.91
9.	Jammu and Kashmir	130.53
10.	Jharkhand	20.05
11.	Karnataka	3605.29
12.	Kerala	193.55
13.	Madhya Pradesh	529.38
14.	Maharashtra	4188.40
15.	Manipur	5.45
16.	Meghalaya	31.03
17.	Mizoram	36.47
18.	Nagaland	28.67
19.	Odisha	97.30
20.	Punjab	297.58

1	2	3
21.	Rajasthan	3352.70
22.	Sikkim	52.11
23.	Tamil Nadu	7849.09
24.	Tripura	16.01
25.	Uttar Pradesh	823.98
26.	Uttarakhand	189.87
27.	West Bengal	126.45
28.	Andaman and Nicobar Islands	10.35
29.	Delhi	18.56
30.	Others	5.92
TOTAL (MW)		28067.26

MW = Megawatt.

Statement-II

Incentives/Subsidy available under various renewable energy schemes/programmes

A. GRID-INTERACTIVE RENEWABLE POWER PROGRAMMES:

1. Wind Power:

DEMONSTRATION PROJECTS IN:

Special Category States (NE Region, Sikkim, J&K, HP and Uttarakhand)	Rs. 3.00 crore X C ^{0.646}
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Other States	Rs. 2.50 crore X C ^{0.646}
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C: Capacity of the project in MW;	^: raised to the power
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2. Small Hydro Power Projects

Support to new SHP projects in State sector:

Category	Above 100 KW and up to 1000 KW	Above 1MW-25 MW
Special category and NE States	Rs. 50,000/KW	Rs. 5.00 crore for first MW + Rs. 50 lakh/MW for each additional MW
Other States	Rs. 25,000/KW	Rs. 2.50 crore for first MW + Rs. 40 lakh/MW for each additional MW

Support to new SHP project in private/co-operative/joint sector:

Category	Up to 1000 KW	Above 1 MW - 25 MW
Special category and NE States	Rs. 20,000/KW	Rs. 2.00 crore for first MW+ Rs. 30 lakh/MW for each additional MW
Other States	Rs. 12,000/KW	Rs. 1.20 crore for first MW + Rs. 20 lakh/MW for each additional MW

3. Biomass Power Project and Bagasse Cogeneration Projects:

Private/Joint/Cooperative/Public Sector Sugar Mills:

	Special Category and NE States	Other States
Biomass Power Projects	Rs. 25 lakh X (C MW) ^{0.646}	Rs. 20 lakh X (C MW) ^{0.646}
Bagasse Co-generation	Rs. 18 lakh X (C MW) ^{0.646}	Rs. 15 lakh X (C MW) ^{0.646}
Bagasse Co-generation Projects by Cooperative/		
Public Sector Sugar Mills	Rs. 40 lakh	Rs. 40 lakh
40 bar & above	Rs. 50 lakh	Rs. 50 lakh
60 bar & above	Rs. 60 lakh	Rs. 60 lakh
80 bar & above	Per MW of surplus power (maximum support Rs. 8.0 crore per project)	Per MW of surplus power (maximum support Rs. 8.0 crore per project)

B. OFF-GRID/DECENTRALIZED RENEWABLE ENERGY PROGRAMMES

Sl. No	Programme	Subsidy
5.	Family Type Biogas Plants:	
	NE Region States including Sikkim (except plain areas of Assam)	Rs.11,700 to Rs.14,700 per plant depending on capacity of plant and CDM benefits availed
	Plain areas of Assam	Rs. 9,000 to Rs.10,000 per plant depending on capacity of plant and CDM benefits availed
	J & K, Himachal Pradesh, Uttarakhand (excluding Terai region), Nilgiris of Tamil Nadu, Sadar, Kurseong and Kalimpong sub-divisions of Darjeeling, Sunderbans, A&N Islands	Rs. 3,500 to Rs. 10,000 per plant depending on capacity of plant and CDM benefits availed
	All Others	Rs.2,100 to Rs.8,000 per plant depending on capacity of plant and CDM benefits availed
6.	Solar Energy Systems (Photovoltaic/Thermal)	Subsidy of 30% of project cost and/or 5% interest bearing loans. For solar light through NABAAD, RRD and other commercial bank 40% subsidy is available.
7.	Small Aero-Generators and Hybrid Systems	Rs.1.00 lakh and Rs.1.50 lakh per kW for commercial and non-commercial beneficiaries respectively. Higher support of Rs.2.25 lakh per kW for projects in NE Region States Sikkim and Jammu and Kashmir.
8.	Micro-hydel plants/ Water Mills	Rs. 0.35 lakh per watermill for mechanical application Rs. 1.10 lakh per watermill for electrical application
9.	Biomass Gasifier Special Category States (NE Region, Sikkim, J&K, HP and Uttarakhand)	Rs. 18,000 / kW
	Other States	Rs. 15,000/kW