



**RAJYA SABHA**

The Minister for New and Renewable Energy, Dr. Farooq Abdullah informed the Rajya Sabha in a written reply today that the Government has several schemes/ programmes for promoting utilization of renewable energy sources in the country.

The schemes / programmes of renewable energy are implemented as per the guidelines of the schemes in the country. The details are as under:

**Central Financial Assistance / subsidies provided under various renewable energy programmes / schemes in the country**

**A. OFF-GRID RENEWABLE ENERGY PROGRAMMES:**

<b>S. No.</b>	<b>Scheme/ Programme</b>	<b>Central Financial Assistance provided</b>
1.	Remote Village Electrification: Electricity generation/ lighting systems for households in remote unelectrified census villages/ hamlets	90% of the cost of electricity generation systems subject to a pre-specified maximum amount for each technology and an overall ceiling of Rs.18,000 per household.  100% cost of a single light SPV home lighting system for BPL households.
2.	Family Type Biogas Plants NE Region States including Sikkim (except plain areas of Assam)  Plain areas of Assam  J&K, Himachal Pradesh, Uttarakhand (excluding Terai region), Nilgiris of Tamil Nadu, Sadar, Kurseong and Kalimpong sub-divisions of Darjeeling, Sunderbans, A&N Islands  All Others	Rs.11,700 to Rs.14,700 per plant depending on capacity of plant and under CDM Programme or NBMMP  Rs.9,000 to Rs.10,000 per plant depending on capacity of plant and under CDM Programme or NBMMP  Rs.3,000 to Rs.10,000 per plant depending on capacity of plant and under CDM Programme or NBMMP  Rs.2,100 to Rs.8,000 per plant depending on capacity of plant and under CDM Programme or NBMMP
3.	Biomass Gasifiers for Rural Areas	Rs.15.00 lakh/100 kW for village level electricity generation with 100% producer gas engine. 20% higher subsidy for Special Category States & Islands
4.	Biomass Gasifiers for Industrial Applications	Rs.2.00 lakh/300 kWe for thermal applications Rs.2.50 lakh/100 kWe with dual fuel engine Rs.10.00 lakh/100 kWe with 100% producer gas engine Rs.15.00 lakh/100 kWe with 100% producer gas engine in institutions
5.	Biomass Co-generation (non-bagasse) for captive use in industry	Rs.20.00 lakhs per MW subject to a maximum of Rs.1 crore/project. (20% higher subsidy for Special Category States)
6.	Urban Waste to Energy	Rs.1.0 to 3.0 crore / MWe, depending on technology.

		(20% higher subsidy for Special Category States)
7.	Industrial Waste-to-Energy Plants	Rs.20.00 lakh to Rs.1.00 crore/ MWe, depending on technology. (20% higher subsidy for Special Category States)
8.	Solar Photovoltaic (SPV) Systems	
Aggregate Systems capacity		CFA
		NE Region and Special Category States
		Other States/ UTs
SPV Home-lighting systems		4500 (18Wp) 8660 (37-74Wp)
		2500 (18Wp) 4800 (37-74 Wp)
SPV Street Lighting systems		17300 (74Wp)
		9600 (74 Wp)
Stand-alone SPV Power plants more than 1 kWp (with capacity less than 1 kWp on case to case basis.)		Rs.225/Wp
more than 10 kWp with distribution line		Rs.270/ Wp
		Rs.125/Wp
		Rs. 150/ Wp
SPV Traffic Lights - up to 100 Wp module capacity		Rs.150/Wp for systems with battery bank of 6 hrs/Rs.115/Wp without battery bank for organizations not availing accelerated depreciation.
PV Blinkers		
Solar Power Packs Up to 1 kWp		
Solar Illuminating Hoardings/ Bill boards -up to 1 kWp modules capacity		
Other systems for community use in Urban and industrial Areas		
SPV Roof-top Systems in Urban Areas - from 10 kW to 100 kW		Rs. 75/ Wp, limited to 30% of the cost of systems to profit making bodies availing depreciation benefits Rs. 100/ Wp, limited to 40% of the cost of systems to non- profit making bodies
SPV lanterns		Rs.2,400 for NE and special areas; nil for other. 100% cost of one SPV lantern for school going girl child of BPL family studying in class IX – XII during entire period of school study
SPV Water Pumping Systems		Rs.30/W <sub>p</sub> of SPV array used, subject to a maximum of Rs.50,000 per system.
9.	Small Aero-Generators and Hybrid Systems	90% of ex-works cost or Rs.2.40 lakh/kW, whichever is less, in unelectrified islands 75% of ex-works cost or Rs.2.00 lakh/kW, whichever is less, in other areas, for government/ community use. 50% of ex-works cost or Rs.1.25 lakh/kW, whichever is less, for all other users.

10.	Solar Thermal Systems/ Devices	Box type cookers: Incentive to SNA: - Rs.200 per cooker of ISI brand - Rs.100 per cooker of non-ISI brand -Up to Rs.1.50lakh for pub./workshops etc. Support to manufacturers: reimbursement of 50% fees for obtaining BIS approval.
11.	Solar Thermal Systems/ Devices (Continued)	Solar Water Heating systems: - Subsidized Loan @ 2% to domestic users (nil) for special category states), 3% to institutions and 5% to community users plus Rs.100/square meter of collector area as incentive to motivator. -Capital subsidy @ Rs. 1400/1750/1900 per sq.m. to commercial establishments/ institutions/housing complex developers. <u>Solar Air Heating/ Steam Generating Systems:</u> Capital subsidy @ 35-50% of the cost subject to certain ceilings. <u>Dish / community type solar cookers:</u> 30% of cost limited to Rs.1,500 for Dish type cookers and Rs.15,000 for Scheffler / Community type cooker.
12.	Akshay Urja Shops	Subsidized loan @7% upto Rs.10 lakh and performance based grant & incentive up to Rs.10,000 per month.

#### B. GRID-INTERACTIVE RENEWABLE POWER PROGRAMMES:

S. No.	Projects Category	Central Financial Assistance provided	
		Special Category States (NE Region, Sikkim, J&K, HP and Uttarakhand)	Other States
1	Small Hydro Power Projects	Rs.2.25 crore X (C) <sup>0.646</sup>	Rs.1.50 crore X (C) <sup>0.646</sup>
2	Biomass Power Projects	Rs.25 lakh X (C) <sup>0.646</sup>	Rs.20 lakh X (C) <sup>0.646</sup>
3	Bagasse Co-generation Projects by private sector 40 bar & above	Rs.18 lakh X (C) <sup>0.646</sup>	Rs.15 lakh X (C) <sup>0.646</sup>

4	Bagasse Co-generation Projects (by cooperative/ public/joint sector) 40 bar & above 60 bar & above 80 bar & above	Rs.40 lakh/MW* Rs.50 lakh/MW* Rs.60 lakh/MW* Limited to Rs.8 crore/project	Rs.40 lakh/MW* Rs.50 lakh/MW* Rs.60 lakh/MW* Limited to Rs.8 crore/project
5	Biomass Power using Advanced Technologies	Rs.1.2 crore X ©^0.646	Rs.1.0 crore X ©^0.646
6	Wind Power projects	Rs.3.00 crore X ©^0.646	Rs.2.50 crore X ©^0.646
7.	Biomass Gasifier	20% higher CFA	Rs.15.0 lakh / kWe on prorated basis or multiple thereof
8.	Solar PV Power	50% of project cost subject to a maximum of Rs.10 crore / MW for tail end grid power projects to be implemented by utilities or generation companies in the State sector	

C: Capacity of the project in MW; ^: raised to the power

\* For new sugar mills (which are yet to start production and sugar mills employing backpressure route/seasonal/incidental cogeneration) subsidies shall be one-half of the level mentioned above.

**RCJ/SKK**