

NEW AND RENEWABLE ENERGY PROGRAMMES IN NORTH EAST

Special attention is being given to the development of the eight States of the NE Region of the country through a separate budget allocation under various renewable energy programmes. Accordingly, Ministry allocated 10% of the budgetary support for the deployment of biogas plants, solar thermal systems, solar photovoltaic systems, remote village electrification, small hydro projects, wind energy systems, village energy security projects and energy parks. A new project on Electrification/ Illumination of all villages along the State Border of Arunachal Pradesh was initiated during the year 2008-09. Against an allocation of Rs.56 crore as 10% of the Gross Budgetary Support (GBS) at RE stage for NE Region an amount of Rs.36.95 crore (as on 31/12/2009) was released during the year.

Biogas Programme

The National Biogas and Manure Management Programme (NBMMP) is being implemented in the North- Eastern Region (NER) through State Government Departments/State Nodal Agencies. The Khadi and Village Industries Commission (KVIC) also implements the programme in the State of Arunachal Pradesh, Assam, Meghalaya, Nagaland, Sikkim and Tripura. State-wise installation of family type biogas plants in the region during 2009-10 (upto 31/12/2009) is given in **Table 9.1**. Biogas Development and Training Centres for North-East located at IIT Guwahati, Assam provided technical and training support for the programme.

S.no.	Name of the State	Plants installed (31/12/2009)
1.	Arunachal Pradesh	23
2.	Assam	3045
3.	Manipur	-
4.	Meghalaya	222
5.	Mizoram	-
6.	Nagaland	195
7.	Sikkim	148
8.	Tripura	25
	Total	3658

Solar Energy Demonstration Programme

The Ministry provides Rs.6000/- per sq.m. for installation of solar hot water systems under the demonstration scheme for North-East and Sikkim. Solar water heating systems with a total capacity of 78,750 lpd has been sanctioned during the

year. Under the SPV demonstration programme 1115 Home lighting systems were allocated to Manipur and Sikkim, while 468 solar street lights and 800 solar lanterns were allocated to the states of Manipur and Sikkim. In addition, one SPV power plant of 1.00 kWp each capacity was allocated to the States of Assam, Sikkim and Tripura during the year.

Remote Village Electrification

The villages in the North-Eastern Region, including Sikkim are most suitable for electrification through standalone renewable energy devices. Low consumption levels of electric power characterize the entire region and a large number of villages are too remote to be electrified through grid extension. Accordingly, the Ministry has provided special attention to this region, which is reflected in significant achievements under the Programme in various North Eastern states.

So far, 1706 remote villages and hamlets have been electrified through renewables and projects in another 1706 remote villages and hamlets are under implementation in various North Eastern states. The status of RVE Programme, (as on 31.12.2009), in the North - Eastern States is given in the **Table 9.2**.

Table 9.2 Status of RVE Programme in the North - Eastern States (as on 31.12.2009),			
SNo	State	Nos. of Remote Villages/ hamlets Electrified	Projects under Implementation In Villages and Hamlets
1.	Arunachal Pradesh	246	52
2.	Assam	735	1251
3.	Manipur	191	49
4.	Meghalaya	97	0
5.	Mizoram	20	0
6.	Nagaland	3	0
7.	Sikkim	13	0
8.	Tripura	401	354
	Total	1706	1706

Akshay Urja Shops

During the year sanctions were accorded for the establishment of three Akshay Urja Shops taking the total number of such shops to 18.

Small Hydro Power

Small hydro projects in the North Eastern Region are being developed both in grid connected as well as decentralized mode, for which a special incentive package

has been developed. So far, 151 SHP projects with an aggregate capacity of 241.27 MW have been set up in the region and another 53 projects aggregating 58.05 MW are under implementation. During the year, three new projects of aggregate capacity 10 MW were sanctioned in the State of Arunachal Pradesh. In addition, two existing small hydro projects of 3 MW capacity in Arunachal Pradesh have been taken up for their renovation and modernization. 13 micro hydel projects (upto 100kW capacity) have been sanctioned to the State of Sikkim. The Ministry has also sanctioned 20 projects for the setting up of watermills to Sikkim.

Wind Monitoring Stations: The Ministry sanctioned 20 wind monitoring stations of 50 meter height covering eight States in North Eastern Region. Nine stations have already been commissioned and the remaining are under implementation.

The Prime Minister during his visit to Arunachal Pradesh on 31st January – 1st February 2008 had announced a package of Rs. 550 crore to provide illumination through solar power in small remote villages as well as to generate electricity through small hydro power projects for villages along the State borders. A plan has been drawn to electrify / illuminate 1483 un-electrified villages of all border districts of Arunachal Pradesh. 425 villages are proposed to be electrified by completing 46 small hydro power projects being implemented by the Department of Hydro Power Development (DHPD), Govt. of Arunachal Pradesh. The balance 1058 villages are proposed to be electrified / illuminated from small / micro hydel projects and solar photovoltaic systems.

The project is under implementation and out of the 1058 villages all households in 523 villages have been provided with solar home lighting systems. Further work on 102 new micro/small hydro projects have started. The project is being monitored by a Steering Committee and is targeted to be completed by December 2011. In addition, 103 micro/small hydro projects with an aggregate capacity of 40.07 MW have been sanctioned to the State of Arunachal Pradesh during the year.
