

Ministry of Non- Conventional Energy Sources (MNES)

Statement of Outlays and Outcomes / Targets: Annual Plan 2005-06

(Rs.in crore)

Sl. No.	Name of the Scheme/ Programme	Objective / Outcome	Outlay 2005-06	Target 2005-06 (MW)	Deliverables (MW / Rs.1 cr.)	Processes/ Timelines	Remarks / Risk Factors
I.	<b>Power from Renewables</b>	<b>Setting up of grid interactive renewable power</b>			<b>For every Rs.1 crore of MNES subsidy the capacity in MW of grid-interactive renewable electricity to be installed.</b>		
1	Wind power	To promote commercial wind power projects	5.00	450.00	90.00	By March 2006	
2	Small Hydro (upto 25 MW)	Setting of SHP projects	50.00	130.00	2.60	-do-	
3	Biomass Power / Cogeneration	Setting up of grid interactive renewable power in sugar mills and other industries	16.00	160.00	10.00	-do-	

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4	Biomass Gasifier	To promote biomass based captive / distributed power generation and thermal applications	11.00	10.00	0.91	-do-	
5	SPV Power		0.00	0.00	0.00	Nil	The Programme has been discontinued from 2005-06
6	Waste to Energy Programme	Accelerated programmes for promotion of waste to energy projects in cities / towns and in industries.	15.00	10.00	0.67	By March 2006	
	<b>Sub Total (Power from Renewables)</b>		<b>97.00</b>	<b>760.00</b>	<b>7.84</b>		

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	<b>Off-grid / stand alone renewable energy systems / devices</b>				For every Rs.1 crore of MNES subsidy the number of biogas plants set up or remote villages electrified to be installed.		
7	Remote Village Electrification Programme (RVEP)	To provide decentralized electricity in 25000 remote unelectrified census villages where grid extension is neither feasible nor economically viable	185.00	1400 villages	7.57	Completing electrification of 1400 remote villages by 31.3.06.	To make provisions of a lifeline availability of 1kWh of electricity per household per day through renewable means.

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	Village Energy Security Programme (VESP)	To provide entire energy needs of cooking, lighting and motive power through biomass in unelectrified villages	Rs. 20.00 crore from RVEP		1.00		A limited numbers of test projects ( about 200 test projects) are to be taken up before starting major programmes. Total 24 projects have been sanctioned during 2004-05.
8	Biogas Plants	To provide clean fuel for cooking, lighting and motive power	16.00	35000	2188	By March 2006	

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	<b>Off-grid / stand alone renewable energy systems / devices</b>				For every Rs.1 crore of MNES subsidy the capacity in kW of solar photovoltaic systems / devices to be installed.		
9	Solar Phtovoltaic Programme (SPV)	To provide SPV lighting systems in non remote electrified villages and industrial, commercial and urban applications	27.00	3450 kWp	127.78	By March 2005	
10	SPV Pumps	To provide SPV water pumping systems for community applications only	5.00	0.9 kW	0.18	-do-	

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11	Wind Pumps & Hybrid Systems	To provide wind pumps and hybrid systems	2.00	0.23 kW	0.12	-do-	
	<b>Off-grid / stand alone renewable energy systems / devices</b>				<b>For every Rs.1 crore of MNES subsidy the square meter collector areas of solar water heating systems to be installed.</b>		
12	Solar Thermal Energy Programme	To install solar water heating and other solar thermal systems	52.00	505,000	9712	By March 2006	
13	Renewable Energy R&D	To promote research activities in the fields of bioenergy, wind power, small hydro,	18.00	Since nature of R&D works cannot be quantified	R&D activities cannot be quantified in terms of physical numbers	Likely to continue beyond 2005-06	

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		solar photo-voltaics and solar thermal		targets are not fixed in physical numbers			
14	New Technologies R&D	To promote R&D activities in Hydrogen Energy/Fuel Cell, Geo-thermal/tidal, Alternative fuels for surface transportation and Biofuel for motive power	20.00	Since nature of R&D works cannot be quantified targets are not fixed in physical numbers	R&D activities cannot be quantified in terms of physical numbers	Likely to continue beyond 2005-06	
15	MNES institutions	To carry out the activities of testing, standardization, certification and research three specialized institutions set up under MNES include Solar Energy Centre (SEC), Centre for Wind Energy Technology (C-WET) and National Institute for	17.00	Activities are dependent upon the proposals received for testing and certification. Other activities are in the nature of research works.	Not quantifiable in numbers.	By March 2006	

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		Renewable Energy (NIRE)					
16	Information, publicity & energy parks	To create awareness on renewable energy programmes, disseminate information on renewable energy technologies, setting up energy parks to display the working of various renewable energy devices.	60.00	Targets are not fixed.	Not quantified	By March 2006	
17	Equity for IREDA	Equity is provided on annual basis to enable IREDA, the public sector financial institution under MNES to mobilize market resources in order to fund the renewable energy programmes.	50.00	Since the funds to IREDA are to provide equity support, this outlay cannot be related to physical targets.	Deliverables cannot be quantified	By March 2006	



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18	Other programmes which include financial support for regional offices, State nodal agencies, seminar/symposium, HRD/training etc.	These programmes give necessary support to implement the Ministry's programmes	5.00	Targets are not fixed	Deliverables cannot be quantified	By March 2006	
	<b>Total outlay</b>		<b>865.44</b>				