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RESULTS-FRAMEWORK DOCUMENT

For

MINISTRY OF NEW AND RENEWABLE ENERGY

(2009-10)

SECTION 1:

Vision, Mission, Objectives and Functions

Vision:

- To upscale and mainstream the use of New and Renewable Energy sources in furtherance of the national aim of energy security and energy independence, with attendant positive impact on local, national and global environment.

Mission:

- Develop, demonstrate and commercialize technologies for harnessing new and renewable energy sources in close concert with corporate, scientific and technical institutions.
- Increase the contribution of Renewable Energy in the total energy mix of the country to 6 per cent by 2022, with about 10 per cent contribution to total electricity mix.

Objectives:

- To promote development and deployment of grid-interactive and off-grid/ distributed renewable power generation projects for augmenting contribution of renewables in total electricity mix;
- To promote development and deployment of stand-alone/ decentralized renewable energy systems for meeting energy needs in rural, urban, industrial and commercial sectors;
- To promote research, design and development activities at premier national institutions and industries on different aspects of new and renewable energy (NRE) technologies.

Functions:

- Putting in place suitable policy and regulatory framework at the national and State levels for growth of new and renewable energy sector.

- Making available necessary fiscal and financial incentives to domestic industry, developers/ investors and users for development/ deployment of:
 - Grid interactive / Off-grid renewable power systems to supplement fossil fuels based electricity generation
 - Standalone RE systems/ devices and services to supplement energy needs of cooking, lighting & motive power in rural areas
 - RE systems and services for urban, industrial & commercial applications
- Supporting related Research & Development (R&D) activities / projects taken up by institutions and industry.
- Undertaking resource assessment and potential estimation studies for all new and renewable sources of energy.
- Human Resource Development in the new and renewable energy sector.
- Fostering international cooperation in new and renewable energy sector
- Information, Publicity, Public Awareness creation in the Renewable Energy (RE) sector.

SECTION 2:

Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Actions	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
Deployment of grid-interactive and off-grid/distributed renewable power generation projects for augmenting contribution of renewables in total electricity mix.	25	Solar Photovoltaic (SPV) Power	Capacity created (1 MW)	MW	7	≥ 1	0.90-0.99	0.80-0.89	0.70-0.79	< 0.70
		Bio power	Do (150 MW)	MW	6	≥ 150	135-149	120-134	105-119	< 105
		Small Hydro Power (SHP)	Do (150 MW)	MW	6	≥ 150	135-149	120-134	105-119	< 105
		Wind power	Do (800 MW)	MW	6	≥ 800	720-799	640-719	560-639	< 560
Deployment of stand-alone/ decentralized renewable energy systems for meeting energy needs in rural, urban, industrial and commercial sectors	50	Coverage of Remote Villages	No. of villages provided with RE systems * (300 No.)	No.	15	≥ 300	270-299	240-269	210-239	< 210
		Installation of Biogas Plants	No. of Biogas plants installed** (0.40 No.)	No. in lakh	15	≥ 0.40	0.36-0.39	0.32-0.35	0.28-0.34	<0.28
		Installation of Solar Thermal systems	Total Area of Solar thermal Collectors installed (2 lakh square meter)	Lakh square meter	20	≥ 2	1.80-1.99	1.60-1.79	1.40-1.59	< 1.40
To promote research, design and development activities at premier national institutions and industries on different aspects of new and renewable energy technologies.	25	Support New R&D projects	Total number of new R&D project proposals approved for Central Financial Support during the year. (20 No.)	No.	25	≥ 20	18	16	14	< 14

* All household provided with Solar Photovoltaic Home lighting Systems **OR** a common Renewable Power plant installed in the village.

** Mostly Family type biogas plants of 2-5 cum. Capacity (digester size)..

**SECTION 3:
Trend Values of the Success Indicators**

Objective	Actions	Success Indicators	Unit	Actual Value for FY 07/08	Actual Value for FY 08/09	Target Value for FY 09/10	Projected Value for FY 10/11	Projected Value for FY 11/12
Deployment of grid-interactive and off-grid/distributed renewable power generation projects for augmenting contribution of renewables in total electricity mix.	SPV power	Capacity created (1 MW)	MW	NIL	NIL	4	275	275
	Bio power	Do (150 MW)	MW	345.74	444.23	483	550	650
	SHP	Do (150 MW)	MW	204.75	248.93	300	300	350
	Wind power	Do (800 MW)	MW	1663	1485	2500	2000	2400
Deployment of stand-alone/ decentralized renewable energy systems for meeting energy needs in rural, urban, industrial and commercial sectors	Coverage of Remote Villages	No. of villages provided with RE systems * (300 No.)	No.	1279	326	1500	1500	3000
	Installation of Biogas Plants	No. of Biogas plants installed** (0.40 lakh.)	No. in lakh	0.89	1.08	1.50	1.50	1.50
	Installation of Solar Thermal systems	Total Area of Solar thermal Collectors installed (2 lakh square meter)	Lakh square meter	4.00	5.50	6	7	8
To promote research, design and development activities at premier national institutions and industries on different aspects of new and renewable energy technologies.	Support New R&D projects	Total number of new R&D project proposals approved for Central Financial Support during the year. (20 No.)	No.	35	24	20	25	25

* All household provided with Solar Photovoltaic Home lighting Systems **OR** a common Renewable Power plant installed in the village.

** Mostly Family type biogas plants of 2-5 cum. Capacity (digester size)..

SECTION 4:
Description and Definition of
Success Indicators and Proposed Measurement Methodology

1.	Grid-interactive Renewable Power	MW	Total installed capacity of Grid-connected Renewable Power projects.
2.	Off-Grid Renewable power	MW _{eq}	Total installed capacity of non-grid connected Renewable Power projects – generating electrical and/or thermal energy.
3.	Coverage of Remote Villages	No.	No. of completed villages - All household provided with Solar Photovoltaic Home lighting Systems OR a common Renewable Power plant installed in the village.
4	Installation of Biogas Plans	No. in lakh	Number of Biogas plants installed - Mostly Family type biogas plants of 2-5 cum. Capacity (digester size).
5	Installation of Solar Thermal Systems	Lakh square meter	Total Area of Solar thermal Collectors installed under various types of solar thermal such as solar water heaters and solar cookers.
6	Support new R&D projects	No.	Total number of new R&D project proposals approved for Central Financial Support.
7.	Energy Mix	%	Contribution of Renewable energy (in electrical & thermal forms) to the total energy consumption in the country
8.	Electricity Mix	%	Contribution of Renewable energy in terms of actual electricity generated from all renewable power projects to the total electricity generation in the country

**SECTION 5:
Specific Performance Requirements from other Departments**

The performance under various programmes is critically dependent on the role of State Departments / Implementing Agencies in the formulation / submission / clearance of projects and monitoring of implementation, etc. Grid power projects in forest areas are dependent on clearances by Ministry of Environment & Forests for land transfer for grid power projects.

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New and Renewable Energy

DEEPAK GUPTA
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