



GOVERNMENT OF INDIA
R F D
(Results-Framework Document)
For

Ministry of New and Renewable Energy
(2014-2015)

Results-Framework Document (RFD) for Ministry of New and Renewable Energy-
(2014-2015)

Ministry of New and Renewable Energy

Results-Framework Document (RFD) for 2014-2015

Section 1

Vision, Mission, Objectives and Functions

Vision:

New and Renewable Energy to be a significant source in furtherance of the national aim of energy security and independence.

Mission:

- Develop, demonstrate and commercialize **cost-effective** technologies for harnessing new and renewable energy sources in close concert with corporate, scientific and technical institutions.
- Replace use of different fossil fuels wherever possible, and increase access to electricity/ lighting in remote and rural areas, through Renewable Energy Systems
- Increase the contribution of Renewable Energy in the total energy mix of the country to 9 per cent with about 17 per cent contribution to total installed capacity of electricity by the end of 12th plan (2016-17).

Objectives:

1. To promote deployment of grid-interactive renewable power generation projects to augment contribution of renewables in total electricity mix.
2. To promote renewable energy initiatives for meeting energy needs in rural areas
3. To promote renewable energy initiatives to supplement energy needs in urban areas
4. To promote renewable energy initiatives to supplement energy needs in industry and commercial establishments
5. To promote research, design and development activities at premier national institutions and industries on different aspects of new and renewable energy (NRE) technologies.
6. To promote new initiatives and management actions for the increasing deployment of Renewable Energy Sources.
7. To develop resource base for enhancing the potential of Renewable Energy Sources.
8. To promote funding of Innovative Clean Energy Projects from National Clean Energy Fund (NCEF).
9. To promote effective Systems for monitoring the programme/performance of installed projects, Programme/Schemes of MNRE.
10. Promotion of indigenous Industry in manufacturing of renewable energy systems/ appliances.

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
- Promoting 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.
- Supporting related Research & Development activities / projects taken up by institutions and industry.
- Undertaking resource assessment and potential estimation studies for all new and renewable sources of energy.

**Section 2:
Inter se Priorities among Key Objectives, Success indicators and Targets**

| Objectives | Weight | Action | Success Indicator | Unit | Weight | Target/ Criteria Value | | | | |
|--|--|--|---|-----------------|--------|------------------------|------------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| 1) To promote deployment of grid-interactive renewable power generation projects to augment contribution of renewables in total electricity mix. | 30 | (1.1)Solar Power plants commissioned in the country | (1.1.1)Capacity addition in FY 2014-15 | MW | 4 | 1100 | 990 | 880 | 770 | 660 |
| | | (1.2)Solar Power Projects sanctioned/auctioned by Central Govt. | (1.2.1)Capacity to be sanctioned/auctioned in FY 2014-15 | MW | 2.5 | 1000 | 900 | 800 | 700 | 600 |
| | | | (1.2.2)To obtain the IMG recommendation for VGF and Government's approval for two solar projects of 5 MW each in Gujarat and Rajasthan along with international border. | Date | 2.5 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | (1.3)Solar Power Plants commissioned by Central Govt. | (1.3.1)Capacity addition in FY 2014-15 | MW | 5 | 400 | 360 | 320 | 280 | 240 |
| | | (1.4)Bio power (Biomass and Cogeneration) projects commissioned | (1.4.1)Capacity addition in FY 2014-15 | MW | 5 | 400 | 360 | 320 | 280 | 240 |
| | | (1.5)Small Hydro Power (SHP) projects commissioned | (1.5.1)Capacity addition in FY 2014-15 | MW | 5 | 250 | 225 | 200 | 175 | 150 |
| | | (1.6)Wind power projects commissioned | (1.6.1)Capacity addition in FY 2014-15 | MW | 4 | 2000 | 1800 | 1600 | 1400 | 1200 |
| (1.7)Urban Waste to Energy projects commissioned | (1.7.1)Capacity addition in FY 2014-15 | MW | 2 | 20 | 18 | 16 | 14 | 12 | | |
| 2) To promote renewable energy initiatives for meeting energy needs in rural areas | 20 | (2.1)Installation of Family type Biogas Plants | (2.1.1)No. of plants installed | No. in lakh | 4 | 1.10 | 1.08 | 0.96 | 0.84 | 0.72 |
| | | (2.2)Installation of Biomass Gasifiers for Village energy supply | (2.2.1)Coverage of villages | No. of villages | 2 | 25 | 22 | 20 | 17 | 15 |
| | | (2.3)Installations of Decentralized SPV systems/ Devices | (2.3.1)Distribution of Lighting Systems | No. | 4 | 50,000 | 45,000 | 40,000 | 35,000 | 30,000 |
| | | | (2.3.2)Circulation of target of 1,00,000 pumps amongst the stake holders i.e. States, NABARD and Ministry of | Date | 1.5 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |

| | | | | | | | | | | |
|--|---|---|--|------------|-----|------------|------------|------------|------------|------------|
| | | | Drinking Water & Sanitation and as well as finalization of State-wise targets. | | | | | | | |
| | | | (2.3.3)Sanctioning of 20,000 solar pumps for irrigation purpose to States during the year. | No. | 1.5 | 20,000 | 18,000 | 16,000 | 14,000 | 12,000 |
| | | (2.4)Installation of Micro Hydel Projects/Watermills | (2.4.1)No. of Projects Completed | Nos. | 2 | 500 | 450 | 400 | 350 | 300 |
| | | | (2.4.2)Capacity addition | MW | 1 | 4 | 3.6 | 3.2 | 2.8 | 2.4 |
| | | (2.5)Installation of Aero generators and Wind + SPV hybrid systems | (2.5.1)No. of Projects Completed | No. | 1 | 20 | 18 | 16 | 14 | 12 |
| | | | (2.5.2)Capacity addition | kW | 1 | 500 | 450 | 400 | 350 | 300 |
| | | (2.6)Improved cook stoves | (2.6.1)Distribution of Cook stoves | No.in Lakh | 2 | 7.50 | 6.75 | 6.00 | 5.25 | 4.50 |
| 3) To promote renewable energy initiatives to supplement energy needs in urban areas | 6 | (3.1)Installation of Solar Thermal systems in urbanhouseholds/ buildings | (3.1.1) Collector area installed | Lakh Sq m | 3 | 5.00 | 4.50 | 4.00 | 3.50 | 3.00 |
| | | (3.2)Roof Top SPV Grid connected systems | (3.2.1)Capacity installed through Rooftop systems | MW | 1 | 50.00 | 45.00 | 40.00 | 35.00 | 30.00 |
| | | | (3.2.2)No. of Smart micro-grid projects sanctioned | No. | 1 | 2 | 2 | 2 | 1 | 1 |
| | | (3.3)Solar cookers | (3.3.1)Solar Cookers distributed | No. | 1 | 25,000 | 22,500 | 20000 | 17500 | 15000 |
| 4) To promote renewable energy initiatives to supplement energy needs in industry and commercial establishments | 6 | (4.1)Generation of Energy from Industrial Waste | (4.1.1)Capacity installed | MWeq | 2 | 10.00 | 9.00 | 8.00 | 7.00 | 6.00 |
| | | (4.2)Decentralized Power Generation through Gasifier in Rice Mills and other industries | (4.2.1)Projects installed | Nos | 2 | 50 | 45 | 40 | 35 | 30 |
| | | (4.3)Biomass based cogeneration in other industries excluding Bagasse | (4.3.1)Capacity added | MWeq | 2 | 80.00 | 72.00 | 64.00 | 56.00 | 48.00 |
| 5) To promote research, design anddevelopment activities at premier nationalinstitutions and industries on differentaspects of new and renewable energy(NRE) technologies. | 9 | (5.1) New R&D projects sanctioned in solarphotovoltaic, solar thermal, Bio energy, New Technologies | (5.1.1)R&D Projects sanctioned | No | 1.5 | 20 | 18 | 16 | 14 | 12 |
| | | | (5.1.2)To prepare a draft Cabinet Note in consultation with MEA as well as after consultations with IRENA (if deemed necessary) for forming an alliance with high sun shine countries in the field of R&D in solar energy. | Date | 1.5 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | (5.2) Percentage of ongoing R&D | (5.2.1)Projects meeting | % | 2 | 100 | 90 | 80 | 70 | 60 |

| | | | | | | | | | | |
|--|---|--|--|------|-----|------------|------------|------------|------------|------------|
| | | projects meeting the pre agreed milestones | milestones | | | | | | | |
| | | (5.3) New / ongoing collaborations finalized with leading international institutions | (5.3.1) Collaborations finalized | No. | 1 | 2 | 2 | 1 | 1 | 1 |
| | | (5.4) New / ongoing collaborations finalized with private sector | (5.4.1) Collaborations finalized | No. | 1 | 4 | 3 | 2 | 1 | 1 |
| | | (5.5) Number of new products developed for demonstration | (5.5.1) Products developed | No. | 1 | 10 | 9 | 8 | 7 | 6 |
| | | (5.6) Two promising projects of the Ministry | (5.6.1) Installation of Solar Thermal Power Plants of 500 kw capacity at NISE | Date | 0.5 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | | (5.6.2) Installation of Wind-Solar Hybrid Systems | No. | 0.5 | 5 | 4 | 3 | 2 | 1 |
| 6)To promote new initiatives and management actions for the increasing deployment of Renewable Energy Sources. | 7 | (6.1)To setup National Wind Energy Mission | (6.1.1)Launching the Mission | Date | 1 | 31.12.2014 | 15.1.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | (6.2)To bring out Coffee Table Book and RE statistics | (6.2.1)Preparation of Coffee-Table Book and Booklet of RE statistics | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | (6.3)Initiative towards Universal Energy Access | (6.3.1)Assessing Energy Access position based on Census-2011 and NSSO Date | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| | | (6.4)Initiative for setting up Ultra Mega Solar Power Projects and Solar Projects on the banks of canals/canal tops. | (6.4.1)To obtain in principle approval of the Planning Commission to the Scheme of UMSSP/Solar Parks, appraisal of EFC and the Cabinet's approval. | Date | 0.5 | 31.01.2015 | 15.02.2015 | 28.02.2015 | 15.03.2015 | 31.03.2015 |
| | | | (6.4.2) To obtain in principle approval of the Planning Commission to the Scheme of grid-connected Solar Projects on the banks of canals/canal tops.as well as Cabinet's approval after EFC's appraisal. | Date | 0.5 | 31.01.2015 | 15.02.2015 | 28.02.2015 | 15.03.2015 | 31.03.2015 |
| | | (6.5)Developing Smart City Concept and its integration with Solar City programme | (6.5.1)Preparation of a Concept Paper | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |

| | | | | | | | | | | |
|---|---|---|--|----------------|---|------------|------------|------------|------------|------------|
| | | (6.6)Mobilizing funds for Green Energy Corridor Scheme | (6.6.1) Sanction of funds from NCEF | Rs in crore | 1 | 500 | 450 | 400 | 350 | 300 |
| | | (6.7)Setting up of National Bio energy Mission | (6.7.1)Preparation of a Concept Paper | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| 7) To Develop resource base for enhancing the potential of Renewable Energy Sources. | 3 | (7.1)Reassessment of wind potential at 100 m height | (7.1.1)Installation of Masts | No. of Masts | 1 | 20 | 18 | 16 | 14 | 12 |
| | | (7.2)Assessment of Solar potential | (7.2.1)Setting up of stations | No.of Stations | 1 | 10 | 9 | 8 | 7 | 6 |
| | | (7.3)Prepare a Policy on Off-shore Wind Power | (7.3.1)Announcement of Policy | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| 8) To promote funding of Innovative Clean Energy Projects from National Clean Energy Fund (NCEF). | 2 | (8.1)RE Projects posed to MoF for funding from NCEF | (8.1.1) Amount of Funds involved in projects posed for funding from NCEF | Rs.in crores | 2 | 800 | 720 | 640 | 560 | 480 |
| 9) To promote effective Systems for monitoring the programme/performance of installed projects, Programme/Schemes of MNRE | 1 | (9.1)Monitoring of Programmes / Projects of MNRE | (9.1.1)Developing a system for online monitoring | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |
| 10) To promote indigenous industry in manufacturing of renewable energy (solar energy systems)/appliances | 1 | (10.1) Strengthening indigenous manufacturers of RE (Solar) appliances (New activity) | (10.1.1)Preparation of a Strategy Paper | Date | 1 | 31.12.2014 | 15.01.2015 | 31.01.2015 | 28.02.2015 | 31.03.2015 |

Revised Mandatory Success Indicators for 2014-15

| | | | | | | | | | | |
|---|---|---|--|------|---|------------|------------|------------|------------|------------|
| Efficient Functioning of the RFD System | 3 | Timely submission of Draft RFD for 2015-16 for Approval | On-time submission | Date | 2 | 05.03.2015 | 06.03.2015 | 09.03.2015 | 10.03.2015 | 11.03.2015 |
| | | Timely submission of Results for 2013-14 | On-time submission | Date | 1 | 01.05.2014 | 02.05.2014 | 03.05.2014 | 06.05.2014 | 07.05.2014 |
| Enhanced Transparency/Improved Service delivery Ministry/Department | 3 | Rating from Independent Audit of implementation of Citizens'/Clients' Charter (CCC) | Degree of implementation of commitments in CCC | % | 2 | 100 | 95 | 90 | 85 | 80 |
| | | Independent Audit of implementation of Grievance Redress Management (GRM) system | Degree of success in implementing GRM | % | 1 | 100 | 95 | 90 | 85 | 80 |
| Reforming Administrative | 6 | Update departmental strategy to align with revised priorities | Date | Date | 2 | 01.11.2014 | 02.11.2014 | 03.11.2014 | 04.11.2014 | 05.11.2014 |

| | | | | | | | | | | |
|--|---|---|--|---|----|-----|----|----|----|----|
| | | Implement agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption | % of Implementation | % | 1 | 100 | 90 | 80 | 70 | 60 |
| | | Implement agreed milestones for implementation of ISO 9001 | % of Implementation | % | 2 | 100 | 95 | 90 | 85 | 80 |
| | | % of Responsibility Centers with RFD in RFMS | Responsibility Centers covered | % | 1 | 100 | 95 | 90 | 85 | 80 |
| | | Implement agreed milestones of approved Innovation Action Plans | % of implementation | % | 2 | 100 | 90 | 80 | 70 | 60 |
| Improve compliance with the Financial Accountability Framework | 1 | Timely submission of ATNs on Audit paras of C&AG | Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG .during the year. | % | 25 | 100 | 90 | 80 | 70 | 60 |
| | | Timely submission of ATRs to the PAC Sectt. On PAC Reports. | Percentage of ATRs submitted within due date (6 months) from date of presentation of Report to Parliament by PAC .during the year. | % | 25 | 100 | 90 | 80 | 70 | 60 |
| | | Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2014. | Percentage of outstanding ATNs disposed off during the year. | % | 25 | 100 | 90 | 80 | 70 | 60 |
| | | Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2014 | Percentage of outstanding ATRs disposed off during the year. | % | 25 | 100 | 90 | 80 | 70 | 60 |

Section 3:

Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value for FY 12/13 | Actual Value for FY 13/14 (upto 31.1.14) | Target Value for FY 14/15 | Projected Value for FY 15/16 | Projected Value for FY 16/17 |
|---|---|---|-----------------|---------------------------|--|---------------------------|------------------------------|------------------------------|
| 1)To promote deployment of grid-interactive renewable power generation projects to augment contribution of renewable in totalelectricity mix. | (1.1)Solar Power plants commissioned in the country | (1.1.1) Capacity addition in FY 2014-15 | MW | 754 | 522 | 1100 | 2200 | 4500 |
| | (1.2)Solar Power Projects sanctioned/auctioned by Central Govt. | (1.2.1) Capacity to be sanctioned/auctioned in FY 2014-15 | MW | 0.00 | 750 | 1000 | 800 | 1000 |
| | | (1.2.2)To obtain the IMG recommendation for VGF and Government's approval for two solar projects of 5 MW each in Gujarat and Rajasthan along with international border. | Date | - | - | 31.12.2014 | - | - |
| | (1.3)Solar Power Plants commissioned by Central Govt. | (1.3.1) Capacity addition in FY 2014-15 | MW | 316 | 92 | 400 | 700 | 1500 |
| | (1.4)Bio Power (Biomass and Cogeneration) projects commissioned | (1.4.1) Capacity addition in FY 2014-15 | MW | 460 | 160 | 400 | 400 | 400 |
| | (1.5)Small Hydro Power (SHP) projects commissioned | (1.5.1) Capacity addition in FY 2014-15 | MW | 237 | 142 | 250 | 300 | 350 |
| | (1.6)Wind power projects commissioned | (1.6.1) Capacity addition in FY 2014-15 | MW | 1700 | 1096 | 2000 | 2500 | 2500 |
| (1.7)Urban Waste to Energy projects commissioned | (1.7.1) Capacity addition in FY 2014-15 | MW | 6.40 | 3.00 | 20 | 20 | 20 | |
| 2)To promote renewable energy initiatives for meeting energy needs in rural areas | (2.1) Installation of Family typeBiogas Plants | (2.1.1) No. of plants installed | No. in lakh | 1.24 | 1.20 | 1.10 | 1.25 | 1.25 |
| | (2.2) Installation of Biomass Gasifiers for Village energy supply | (2.2.1) Coverage of villages | No. of villages | 25 | 12 | 25 | 30 | 40 |
| | (2.3) Installation of Decentralized SPV systems/ Devices | (2.3.1) Distribution of Lighting Systems | No. | 1,52,682 | 1,75,630 | 50,000 | 60,000 | 70,000 |
| | | (2.3.2)Circulation of target of 1,00,000 pumps amongst the stake holders i.e. States, NABARD and Ministry of Drinking Water & | Date | - | - | 31.12.2014 | - | - |

| Objective | Action | Success Indicator | Unit | Actual Value for FY 12/13 | Actual Value for FY 13/14 (upto 31.1.14) | Target Value for FY 14/15 | Projected Value for FY 15/16 | Projected Value for FY 16/17 |
|--|--|---|-------------------|---------------------------|--|---------------------------|------------------------------|------------------------------|
| | | Sanitation and obtaining targets as well as finalization of State-wise targets. | | | | | | |
| | | (2.3.3)Sanctioning of 20,000 solar pumps for irrigation purpose to States during the year. | No. | - | - | 20,000 | - | - |
| | (2.4) Installation of Micro Hydel Projects/Watermills | (2.4.1) No. of Projects Completed | Nos. | 405 | 435 | 500 | 650 | 750 |
| | | (2.4.2) Capacity addition | MW | 3.10 | 3.4 | 4.0 | 5.00 | 5.5 |
| | (2.5) Installation of Aero generators and Wind + SPV hybrid systems | (2.5.1) No. of Projects Completed | No. | 20 | 10 | 20 | 30 | 40 |
| | | (2.5.2) Capacity addition | KW | 460 | 70 | 500 | 800 | 1000 |
| | (2.6) Improved cook stoves (New scheme to be sanctioned in 2014-15) | (2.6.1) Distribution of Cook stoves | No.in Lakh | 0.00 | 0.00 | 7.50 | 7.50 | 10.00 |
| 3)To promote renewable energy initiatives to supplement energy needs in urban areas | (3.1) Installation of Solar-Thermal systems in urban households/ buildings | (3.1.1) Collector area installed | Lakh square meter | 1.41 | 5.10 | 5.00 | 5.50 | 6.00 |
| | (3.2) Roof Top SPV Grid connected systems | (3.2.1) Capacity installed through Rooftop systems (New activity) | MW | 0.00 | 0.00 | 50.00 | 100.00 | 100.00 |
| | | (3.2.2) No. of Smart micro-grid projects sanctioned (New activity) | No. | 0.00 | 0.00 | 2 | 5 | 10 |
| | (3.3) Solar cookers | (3.3.1) Solar Cookers distributed | No. | 5000 | 6000 | 25,000 | 25,000 | 25,000 |
| 4) To promote renewable energy initiatives to supplement energy needs in industry and commercial establishments | (4.1) Generation of Energy from Industrial Waste | (4.1.1) Capacity installed | MWeq | 13.82 | 4.06 | 10.00 | 15.00 | 20.00 |
| | (4.2) Decentralized Power Generation through Gasifier in Rice Mills and other industries | (4.2.1) Projects installed | Nos | 42 | 27.00 | 50.00 | 60.00 | 80.00 |
| | (4.3) Biomass based cogeneration in other industries excluding Bagasse | (4.3.1) Capacity added | MWeq | 88.65 | 46.10 | 80.00 | 100.00 | 120.00 |
| 5) To promote research, design and development activities at premier national institutions and industries on different aspects of new and renewable energy | (5.1) New R&D projects sanctioned in solar photovoltaic, solar thermal, Bio energy, New Technologies | (5.1.1) R&D Projects sanctioned | No | 11 | 8 | 20 | 20 | 20 |
| | | (5.1.2)To prepare a draft Cabinet Note in consultation with MEA as well as after consultations with IRENA (if deemed necessary) for forming an alliance with high sun | Date | - | - | 31.03.2015 | - | - |

| Objective | Action | Success Indicator | Unit | Actual Value for FY 12/13 | Actual Value for FY 13/14 (upto 31.1.14) | Target Value for FY 14/15 | Projected Value for FY 15/16 | Projected Value for FY 16/17 |
|---|--|---|------|---------------------------|--|---------------------------|------------------------------|------------------------------|
| (NRE) technologies. | | shine countries in the field of R&D in solar energy. | | | | | | |
| | (5.2) Percentage of ongoing R&D projects meeting the pre agreed milestones | (5.2.1) Projects meeting milestones | % | 100 | 80 | 100 | 100 | 100 |
| | (5.3) New / ongoing collaborations finalized with leading international institutions | (5.3.1) Collaborations finalized | No. | 3 | 2 | 2 | 3 | 4 |
| | (5.4) New / ongoing collaborations finalized with private sector | (5.4.1) Collaborations finalized | No. | 4 | 2 | 4 | 4 | 5 |
| | (5.5) Number of new products developed for demonstration | (5.5.1) Products developed | No. | 7 | 1 | 10 | 12 | |
| | (5.6) Two promising projects of the Ministry | (5.6.1) Installation of Solar Thermal Power Plants of 500 kw capacity at NISE | Date | One time single activity | One time single activity | 31.12.2014 | One time single activity | One time single activity |
| (5.6.2) Installation of Wind – Solar Hybrid Systems (New activity) | | No. | 0.0 | 0.0 | 5 | 8 | 15 | |
| 6) To promote new initiatives and management actions for the increasing deployment of Renewable Energy Sources. | (6.1) To setup National Wind Energy Mission | (6.1.1) Launching the Mission | Date | One time action | One time action | 31.12.2014 | One time action | One time action |
| | (6.2) To bring out Coffee Table Book and RE statistics | (6.2.1) Preparation of Coffee-Table Book and Booklet of RE statistics | Date | One time action | One time action | 31.12.2014 | One time action | One time action |
| | (6.3) Initiative towards Universal Energy Access | (6.3.1) Assessing Energy Access position based on Census-2011 and NSSO Data | Date | One time action | One time action | 31.12.2014 | One time action | One time action |
| | (6.4) Initiative for setting up Ultra Mega Solar Power Projects (new activity) | (6.4.1) To obtain in principle approval of the Planning Commission to the Scheme, appraisal of EFC and the Cabinet's approval. | Date | - | - | 31.01.2015 | - | - |
| | | (6.4.2) To obtain in principle approval of the Planning Commission to the Scheme as well as Cabinet's approval after EFC's appraisal. | Date | - | - | 31.01.2015 | - | - |

| Objective | Action | Success Indicator | Unit | Actual Value for FY 12/13 | Actual Value for FY 13/14 (upto 31.1.14) | Target Value for FY 14/15 | Projected Value for FY 15/16 | Projected Value for FY 16/17 |
|--|---|--|-----------------|---------------------------|--|---------------------------|------------------------------|------------------------------|
| | (6.5) Developing Smart City Concept and its integration with Solar City programme | (6.5.1) Preparation of a Concept Paper | Date | One time activity | One time activity | 31.12.2014 | One time activity | One time activity |
| | (6.6) Mobilizing funds for Green Energy Corridor Scheme (New activity) | (6.6.1) Sanction of funds from NCEF | Rs in crore | 0.0 | 0.0 | 500 | 500 | 500 |
| | (6.7) Setting up of National Bio energy Mission (New activity) | (6.7.1) Preparation of a Concept Paper | Date | 0.0 | 0.0 | 31.12.2014 | - | - |
| 7) To Develop resource base for enhancing the potential of Renewable Energy Sources. | (7.1) Reassessment of wind potential at 100 m height | (7.1.1) Installation of Masts | No. of Masts | 10 | 15 | 20 | 30 | 20 |
| | (7.2) Assessment of Solar potential | (7.2.1) Setting up of Solar Radiation stations | No. of stations | 0.00 | 40 | 10 | 15 | |
| | (7.3) Prepare a Policy on Off-shore Wind Power (New activity) | (7.3.1) Announcement of Policy | Date | One time activity | One time activity | 31.12.2014 | One time activity | One time activity |
| 8) To promote funding of Innovative Clean Energy Projects from National Clean Energy Fund (NCEF). | (8.1) RE Projects posed to MoF for funding from NCEF | (8.1.1) Amount of Funds involved in projects posed for funding from NCEF | Rs.in crores | 1179 | 1159 | 800 | 1000 | 1200 |
| 9) To promote effective Systems for monitoring the performance of Programmes/Schemes/Projects of MNRE | (9.1) Monitoring of Programmes /Schemes/Projects of MNRE (New activity) | (9.1.1) Developing a system for online monitoring | Date | One time activity | One time activity | 31.01.2014 | One time activity | One time activity |
| 10) To promote indigenous industry in manufacturing of renewable energy (solar energy systems) /appliances | (10.1) Strengthening indigenous manufacturers of RE (Solar appliances) (New activity) | (10.1.1) Preparation of a Strategy Paper | Date | One time activity | One time activity | 31.01.2014 | - | - |

Section 4: Acronyms

| | | |
|-----|----------|---|
| 1. | GHG | Green House Gases |
| 2. | ISO | International Standards Organisation |
| 3. | C&AG | Comptroller and Auditor General |
| 4. | ATN | Action Taken Note |
| 5. | PAC | Public Accounts Committee |
| 6. | ATR | Action Taken Report |
| 7. | CCC | Citizen/Client Charter |
| 8. | IREDA | Indian Renewable Energy Development Agency |
| 9. | NTPC | National Thermal Power Corporation |
| 10. | NABARD | National Bank for Agriculture and Rural Development |
| 11. | M/o P&NG | Ministry of Petroleum and Natural Gases |
| 12. | FY | Financial year |
| 13. | NRE | New and Renewable Energy |
| 14. | NCEF | National Clean Energy Fund |
| 15. | MNRE | Ministry of New and Renewable Energy |
| 16. | RE | Renewable Energy |
| 17. | SPV | Solar Photo Voltaic |
| 18. | SHP | Small Hydro Power |
| 19. | R&D | Research & Development |
| 20. | NISE | National Institute of Solar Energy |
| 21. | kW | Kilo Watt |
| 22. | MW | Mega Watt |
| 23. | MWeq | Mega Watt Equivalent |
| 24. | NSSO | National Sample Survey Organisation |
| 25. | PSU | Public Sector Undertakings |
| 26. | CERC | Central Electricity Regulatory Commission |
| 27. | SERC | State Electricity Regulatory Commission |
| 28. | MTOE | Million Tonnes of Oil Equivalent |
| 29. | LPG | Liquefied Petroleum Gas |
| 30. | IMG | Inter-ministerial Group |
| 31. | EFC | Expenditure Finance Committee |
| 32. | MEA | Ministry of External Affairs |

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

The details of success indicators requiring description and clear definition for their understanding are listed below.

| Sl. No. | Success Indicator | Description | Definition | Measurement |
|---------|--|--|--|---|
| 1. | [1.1.1] to [1.7.1] [2.4.2] to [2.5.2] | Capacity addition in FY 2014-15 | Total installed capacity of renewable power projects in Megawatt/ Kilowatt for generating grid-interactive power | Reports of State utilities/Central Electricity Authority / NTPC VidyutVyapar Nigam Limited / Indian Renewable Energy Development Agency |
| 2. | [2.1.1] , [2.4.1] , [2.5.1] , [4.2.1] , [5.6.1] , [5.6.2] | Installation of Decentralized Biogas Plants / other RE projects : <ul style="list-style-type: none"> • Family type biogas plants ; • Micro-hydel plants/projects/water mills; • Aero-generators and Wind+SPV Hybrid Systems; • Gasifiers • Solar Thermal plants at NISE • Wind+Solar Hybrid Systems | These are either standalone or off-grid systems to be installed through Channel partners and other implementing agencies including State Nodal agencies | Reports of Implementing Agencies / Channel Partners |
| 3. | [2.3.1] , [2.6.1] , [5.3.1] | These success indicators involve distribution of lighting systems, cook stoves and solar cookers. | The targets for distribution have been fixed for the FY 2014-15 through Channel partners and other implementing agencies including State Nodal Agencies. | Reports of Implementing Agencies / Channel Partners |
| 4. | [3.1.1] | Lakh square meter of Collector area installed | Installation of Solar Thermal systems in Residential and Industrial / Commercial buildings | Reports of State Implementing Agencies, IREDA |
| 5. | [4.2.1] , [5.1.1] , [5.2.1] | Number of projects sanctioned | New R&D Projects sanctioned during FY 2014-15 | Own records of the Ministry |

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

| Location Type | State | Organization Type | Organization Name | Relevant Success Indicator under Section 2 | What is your requirement from this organization | Justification for this requirement | Please quantify your reqt from this Organization | What happens if your requirement is not met? |
|---------------------|--|--|--------------------------------------|---|--|--|--|---|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. |
| Central | - | Autonomous | Planning Commission | Success indicators mentioned against objective No.1-5 & 7 | To provide adequate Plan funds for implementation of programmes of MNRE | Programmes of MNRE are Plan schemes | Expected to provide Rs. 5449 crore as against Rs.1541 crores for 2014-15 | May fail to achieve the laid down objectives/targets |
| Ministry of Finance | - | Department | Department of Expenditure | Funds sanctioned/ released from NCEF under Objective 8 | To sanction the projects for funding from NCEF and release the sanctioned funds | As per Govt policy Innovative RE projects may be proposed for funding from NCEF | To sanction and release about Rs.800 crore during 2014-15 | May not be possible to commission the projects proposed under NCEF |
| Ministry of Power | - | Central PSU | Power Grid Corporation of India Ltd. | Success indicators mentioned against objective No.1 | To provide adequate grid infrastructure to evacuate the power from the RE projects to the grid | PGIL is to provide adequate grid infrastructure for evacuation of power from the project | Not possible to quantify the requirement | Even if the project is ready to generate power but will not be possible to take the power generated to grid |
| State Govts | All States/ UTs implementing MNRE programmes | State Departments/ State Nodal agencies / Urban Local Bodies | | Success indicators mentioned against objectives No. 2,3,4 and 9 | To implement the programmes as per the prescribed guidelines | As per the guidelines programmes to be implemented through these agencies | To implement the programmes in later and spirit of the guidelines | Programmes will be delayed and hence failed to achieve the targets within stipulated time period. |

**Section 6:
Outcome/Impact of Department/Ministry**

| Outcome/Impact of Department/Ministry | Jointly responsible for influencing this outcome / impact with the following Department (s)/Ministry(ies) | Success Indicator | Unit | FY12/13 | FY13/14 | FY14/15 | FY15/16 | FY16/17 |
|--|---|---|----------------|---------|---------|---------|---------|---------|
| Creating Additional Generation Capacity (RE initiative) to supplement the conventional Energy initiatives of the country | CERC/SERC/Ministry of Power/Ministry of Environment and Forests/State Governments and Implementing Agencies | Capacity installed during the year | MW | 33077 | 36902 | 40747 | 46217 | 54037 |
| | | Relative Share of RE in total power installed in the country | % | 12.7 | 13.4 | 14 | 15 | 16 |
| Increasing Share of Renewable in the Electricity Mix of the country | Ministry of Power/Central Electricity Authority/State Governments | Renewable Energy produced | Million units | 54 | 61 | 69 | 79 | 94 |
| | | Percentage of Renewable Energy in the Energy Mix | % | 6.5 | 6.9 | 7.2 | 7.7 | 8.4 |
| GHG Emission Reduction through RE Technologies/Applications | Ministry of Environment and Forests/Department of S&T/State Governments and Implementing Agencies | Reduction in CO ₂ per year (wind,solar,hydro and biomass) | Million tonnes | 96.68 | 108.97 | 121.34 | 137.34 | 160.67 |
| 160.67 Meeting Increasing Energy Needs through off-grid renewable energy applications | State Governments/State Nodal Agencies/Channel Partners of MNRE | Biomass Gasifiers set up for village energy supply- Households covered | Numbers | 25 | 25 | 25 | 30 | 40 |
| | | Fossil fuel - Kerosene - saved on account of power supplied to Households through Biomass Gasifiers | Kilo Litres | 450 | 450 | 450 | 540 | 720 |
| | | Installation of decentralized SPV systems/devices | MW | 17.59 | 40 | 60 | 70 | 80 |
| | | Solar pumps for irrigation purposes to states | No | - | - | 20000 | 30000 | 40000 |
| | | No. of houses covered | Numbers | 17500 | 40000 | 60000 | 70000 | 80000 |
| | | Electricity produced based on fossil sources saved | Million Units | 13 | 30 | 45 | 52 | 60 |
| | | Solar Thermal System installed (Collector Area covered) | Lakh. Sqm | 14 | 5 | 5 | 5 | 6 |
| | | Saving Million tones of oil equivalent (MTOE) | Million Units | 0.0901 | 0.0322 | 0.0322 | 0.0322 | 0.0386 |
| | | Biomass Gasifiers set up for village energy supply | No.of villages | 25 | 35 | 50 | 60 | 75 |
| Meeting Energy/Cooking | State Governments/State Nodal | Family Type Biogas Plants installed | lakhs | 1.24 | 1.20 | 1.10 | 1.25 | 1.35 |

| Outcome/Impact of Department/Ministry | Jointly responsible for influencing this outcome / impact with the following Department (s)/Ministry(ies) | Success Indicator | Unit | FY12/13 | FY13/14 | FY14/15 | FY15/16 | FY16/17 | |
|---|---|--|-----------|---------|---------|---------|---------|---------|----|
| needs especially in Rural Areas | Agencies/Channel Partners of MNRE | No. of L.P.G cylinder saved | lakhs | 22.32 | 21.60 | 21.60 | 22.50 | 24.30 | |
| | | Cookstove to be distributed | lakhs | 0 | 0 | 7.5 | 7.5 | 10 | |
| | | Fuel wood saved on account of use of cook stove | lakh tons | 0 | 0 | 2.25 | 2.25 | 3.0 | |
| No. of Research Papers published, Products commercialized and Patents applied / obtained out of Research, Design and Demonstration Projects | Universities/IITs/National institutions of repute/Autonomous bodies | No.of Patents | Applied | Numbers | 4 | 4 | 8 | 10 | 15 |
| | | | Obtained | | 0 | 1 | 5 | 5 | 8 |
| | | New Products commercialized | | Numbers | 2 | 2 | 4 | 4 | 5 |
| | | No.of research papers published in International/National Journals | | Numbers | 5 | 5 | 10 | 10 | 10 |