

1. Solar Energy(CS) – Off-Grid

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
61.50	1. Installation of Off-grid and decentralized solar power generation capacity.	1.1	No. of Solar Street Lights Installed	Target not amenable	1. Electricity Generation from Off-Grid/ Distributed and Decentralized Solar Power Systems/ Devices	1.1. Energy generated from Off-Grid/ Distributed and Decentralized Solar Energy Systems/ Devices (MWeq) ¹	15.89 MWeq ²
		1.2	No. of Solar Study Lamps Distributed	Target not amenable			
		1.3	Capacity of Off-grid Solar Power Packs Installed (MW)	Target not amenable			

2. Storage and Transmission – (CS) - Green Energy Corridors

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
300	1. Construction of Transmission system in 8 implementing RE rich States.	1.1	Cumulative Intrastate Transmission lines constructed (ckm ³)	9,700	1. Grid integration of large-scale renewable generation capacity	1.1. Cumulative Renewable Energy Capacity added (MW)	20,000

¹ Includes normative figure and not actual figures

² Installations under the Scheme will be completed by the end of FY 2021-22. A capacity of 15.89 MWeq is likely to be installed. This capacity has an estimated generation potential of 20.9 MU at 15% PLF. There would be no further capacity addition in FY 2022-23. The indicator is proposed to be retained as budgetary allocation would be required during FY 2022-23 to settle the spill over requirements for completed projects

³ ckm = circuit kilometers

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		1.2	Cumulative sub-station capacity commissioned (MVA ⁴)	22,000			

3. Bio Energy Programme (CS) - Bio Power – Grid⁵

FINANCIAL OUTLAY (Rs. in Cr.)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Outputs	Indicators	Targets 2022-23	Outcomes	Indicators	Targets 2022-23
50	1.	Commissioning of Bio-power [Biomass Power (IPP)/Bagasse/Non-Bagasse / Waste to	1.1 Capacity commissioned in Bio-Power [Non-Bagasse Power] (MW)	Target not amenable ⁷	1. Electricity Generation from Bio-Power Projects	1.1 Annual Generation [Biomass Power] (BU) ⁶	2

⁴ MVA -= Mega Volt Ampere

⁵ Bio Energy programme comprising of sub-schemes of Biomass Co-generation Scheme and Waste to Energy Scheme has been continued for the period of 2021-22 to 2025-26 with the outlay of Rs 500 crore to meet the already created liabilities. No new projects may be sanctioned under the sub-scheme of this programme

⁶ BU: Billion Units

	energy] generation capacity	1.2 Capacity commissioned in Bio-Power [Bagasse Power] (MW)	Target not amenable ⁷		1.2 Annual Generation [Bagasse Power] (BU) ⁶	11
		1.3 Capacity commissioned in Bio-Power [Waste to Energy] (MW)	45		1.3 Bio-Power [Waste to Energy] (BU)	0.3

4. Bio Energy Programme (CS) - Biogas Programme - Off-Grid

FINANCIAL OUTLAY (Rs in Cr) 2022-23	OUTPUTS 2022-23			OUTCOMES 2022-23		
	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
30	1. Commissioning of biogas plants.	1.1 No. of small size Biogas Plants Commissioned ⁸ .	Target not amenable ⁹	1. Effective promotion of biogas for clean fuel to meet out the energy requirements in remote, rural, semi-urban areas of the country, including tribal areas	1.1 Amount of biogas generated from the biogas plant (in cubic meter per year) ¹⁰	Target not amenable ¹¹

⁷ All the projects for which sanctions for grant of CFA have been issued are likely to be commissioned before 31.03.2022 and no new MNRE sanctioned projects are planned for commissioning in FY 2022-23.

⁸ Small Size Biogas Plant = up to 25 cubic meter biogas generation per day capacity.

⁹ Scheme was valid only upto 31.03.2021. EFC for continuation of scheme have not been approved by MoF. Target for 2022-23 have not yet decided due to non-approval of the scheme.

¹⁰ These are approximate estimated figures and not actuals. The outcomes of the biogas program for 2022-2023 is based on the estimated gas generation from the bio-gas plants that were actually installed in the year 2021-2022.

¹¹ Scheme was valid only upto 31.03.2021. EFC for continuation of scheme have not been approved by MoF. Target for 2022-23 have not yet decided due to non-approval of the scheme.

5. Support Programme (CS) - Human Resources Development and Training

FINANCIAL OUTLAY (Rs in Cr) 2022-23	OUTPUTS 2022-23			OUTCOMES 2022-23		
	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
30.93	1. Creating skilled manpower for RE sector.	1.1 No. of Technicians/ Persons trained for performance, testing, installation, and maintenance of RE projects.	4,000	1. Feedback for the trainings and Percentage of Trainees Employed	1.1. Percentage of trainees' feedback: 6 and above on 10 scale / 60% and above.	60%
					1.2. Percentage of Trainees Employed.	50%

1. Solar Energy – Grid Interactive (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators
3,304.03	1. Commissioning of Grid Connected solar power (Ground mounted/ Rooftop) in the country. (Excluding KUSUM)	1.1 Capacity commissioned in Solar Parks (MW)	1,000	1. Electricity Generation from Solar Power projects.	1.1 Solar Energy Generated (BU ¹)	85.23
		1.2 Capacity commissioned in Rooftop Solar (MW)	3,000			
		1.3 Capacity commissioned in projects under CPSU scheme (MW)	1,500			
		1.4 Capacity commissioned in projects under VGF scheme (MW)	Target not amenable ²			
	2. Increased domestic manufacturing of solar panels and solar cells.	2.1 Capacity of Solar Panels and cells manufactured domestically (MW) due to MNRE's DCR Schemes: CPSU Scheme P-II	1,500	2. Reduced import dependency.	2.1. Reduction in value of imports due to domestic manufacturing of solar panels and cells ³ (INR Cr.): CPSU Scheme P-II	2,250

¹ BU= Billion Units.

² VGF scheme closed during 2019. Funds are provisioned for meeting the old liabilities and no more capacity is added.

³ Reduction in value of imports = Expected Quantity of domestic Solar Modules deployed × Average International Prices (Presently taken as Rs 1.5 crore/MW).

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
		2.2	Capacity of Solar Panels and cells manufactured domestically (MW) due to MNRE's DCR Schemes: PM-KUSUM	1,000		2.2. Reduction in value of imports due to domestic manufacturing of solar panels and cells (INR Cr.): PM-KUSUM	1,500
		2.3	Capacity of Solar Panels and cells manufactured domestically (MW) due to MNRE's DCR Schemes: Rooftop Solar P-II	1,000		2.3. Reduction in value of imports due to domestic manufacturing of solar panels and cells (INR Cr.): Rooftop Solar P-II	1,500

2. Solar Energy - Kisan Urja Suraksha Evam Utthaan Mahabhiyan (KUSUM) (CS)

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23			
	2022-23	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
1,715.90	1.	Installation of standalone Solar Powered Agriculture	1.1 Number of standalone Solar Powered Agriculture Pumps of	2,00,000	1. Total Generation- off grid	1.1. Generation (BU) ⁴	0.8

⁴ Estimated approximate generation in Billion units

FINANCIAL OUTLAY (Rs in Cr)	OUTPUTS 2022-23			OUTCOMES 2022-23		
	Output	Indicators	Targets 2022-23	Outcome	Indicators	Targets 2022-23
	Pumps of individual pump capacity up to 7.5 HP.	individual pump capacity up to 7.5 HP installed.				
	2. Solarization of Grid-connected Agriculture Pumps of Individual Pump Capacity up to 7.5 HP.	2.1 Number of Grid-connected Agriculture Pumps of Individual Pump Capacity up to 7.5 HP solarized.	2,00,000	2. Total Generation-Grid	2.1. Generation (BU) ⁵	1.65
	3. Setting up of Decentralized Ground Mounted Grid Connected Renewable Power Plants of individual plant size up to 2 MW	3.1 Capacity of Decentralized Ground Mounted Grid Connected Renewable Power Plants of individual plant size up to 2 MW installed (MW)	500			

⁵ Estimated approximate generation in Billion Units