

MINISTRY OF NEW AND RENEWABLE ENERGY

DEMAND NO. 71

Ministry of New and Renewable Energy*(In ₹ crores)*

	Actual 2020-2021			Budget 2021-2022			Revised 2021-2022			Budget 2022-2023		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Gross	2931.87	149.96	3081.83	5743.00	10.00	5753.00	5071.80	2610.00	7681.80	6888.94	11.74	6900.68
Recoveries	-438.53	...	-438.53	...	...	...	...	...	...	...	...	...
Receipts	...	...	...	...	...	...	...	...	...	...	...	...
Net	2493.34	149.96	2643.30	5743.00	10.00	5753.00	5071.80	2610.00	7681.80	6888.94	11.74	6900.68
A. The Budget allocations, net of recoveries, are given below:												
CENTRE'S EXPENDITURE												
Establishment Expenditure of the Centre												
1. Secretariat	34.21	...	34.21	49.05	...	49.05	44.30	...	44.30	56.01	...	56.01
2. Office Buildings	...	149.96	149.96	...	10.00	10.00	...	110.00	110.00	...	11.74	11.74
Total-Establishment Expenditure of the Centre	34.21	149.96	184.17	49.05	10.00	59.05	44.30	110.00	154.30	56.01	11.74	67.75
Central Sector Schemes/Projects												
Grid Interactive Renewable Power												
3. Wind Power	1059.35	...	1059.35	1100.00	...	1100.00	1100.00	...	1100.00	...	...	...
4. Small Hydro Power	38.78	...	38.78	90.00	...	90.00	65.50	...	65.50	...	...	...
5. Bio Power	6.22	...	6.22	120.00	...	120.00	56.85	...	56.85	...	...	...
6. Solar Power	1049.85	...	1049.85	2369.13	...	2369.13	2475.26	...	2475.26	...	...	...
7. Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM)	...	...	...	221.00	...	221.00	150.00	...	150.00	...	...	...
8. Green Energy Corridors	159.53	...	159.53	300.00	...	300.00	150.00	...	150.00	...	...	...
9. Interest Payment and Issuing Expenses on the Bonds	154.38	...	154.38	124.35	...	124.35	124.35	...	124.35	...	...	...
Total-Grid Interactive Renewable Power	2468.11	...	2468.11	4324.48	...	4324.48	4121.96	...	4121.96	...	...	...
Off-Grid/Distributed and Decentralized Renewable Power												
10. Wind Power	1.32	...	1.32	...	...	...	...	...	...	...	...	...
11. Small Hydro Power	2.00	...	2.00	2.00	...	2.00	0.50	...	0.50	...	...	...
12. Bio Power	11.69	...	11.69	70.00	...	70.00	36.48	...	36.48	...	...	...
13. Solar Power	149.43	...	149.43	237.00	...	237.00	210.00	...	210.00	...	...	...
14. Kisan Urja Suraksha evam Utthaan Mahabhiyan(KUSUM)	...	...	...	776.30	...	776.30	540.26	...	540.26	...	...	...

(In ₹ crores)

	Actual 2020-2021			Budget 2021-2022			Revised 2021-2022			Budget 2022-2023		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
15. Biogas Programme	37.58	...	37.58	95.00	...	95.00	25.00	...	25.00	...	...	...
16. Other Renewable Energy Applications (Solar Cities, Green Buildings, Support to States, Demonstration of Renewable Energy Applications, Cookstoves, etc.)	120.61	...	120.61	0.20	...	0.20	0.20	...	0.20	...	...	...
Total-Off-Grid/Distributed and Decentralized Renewable Power	322.63	...	322.63	1180.50	...	1180.50	812.44	...	812.44	...	...	...
Research, Development and International Cooperation												
17. Research and Development	36.47	...	36.47	75.00	...	75.00	27.50	...	27.50	...	...	...
Supporting Programmes												
18. Monitoring/Evaluation and Other Studies	...	...	...	0.30	...	0.30	0.10	...	0.10	...	...	...
19. Information, Education and Communications	0.92	...	0.92	8.00	...	8.00	2.00	...	2.00	...	...	...
20. International Relations - International Co-operation including Investment Promotion and Assistance to International Solar Alliance	19.35	...	19.35	20.00	...	20.00	3.40	...	3.40	...	...	...
21. Human Resources Development and Training	19.33	...	19.33	37.00	...	37.00	20.10	...	20.10	...	...	...
Total-Supporting Programmes	39.60	...	39.60	65.30	...	65.30	25.60	...	25.60	...	...	...
Solar Energy												
22. Solar Power (Grid)	...	...	...	...	...	...	...	...	...	3304.03	...	3304.03
23. Solar Power (Off-Grid)	...	...	...	...	...	...	...	...	...	61.50	...	61.50
24. Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM )	...	...	...	...	...	...	...	...	...	1715.90	...	1715.90
25. Other Renewable Energy Applications (OREA)	...	...	...	...	...	...	...	...	...	0.10	...	0.10
26. Interest Payment and Issuing Expenses on the Bonds	...	...	...	...	...	...	...	...	...	124.36	...	124.36
Total-Solar Energy	...	...	...	...	...	...	...	...	...	5205.89	...	5205.89
Bio Energy Programme												
27. Bio Power (Grid)	...	...	...	...	...	...	...	...	...	50.00	...	50.00
28. Bio Power (Off-Grid)	...	...	...	...	...	...	...	...	...	20.00	...	20.00
29. Biogas Programme (Off-Grid)	...	...	...	...	...	...	...	...	...	30.00	...	30.00
Total-Bio Energy Programme	...	...	...	...	...	...	...	...	...	100.00	...	100.00
Programme for Wind and other Renewable Energy												
30. Wind Power (Grid)	...	...	...	...	...	...	...	...	...	1050.00	...	1050.00
31. Hydro Power (Grid)	...	...	...	...	...	...	...	...	...	50.00	...	50.00
32. Hydro Power (Off-Grid)	...	...	...	...	...	...	...	...	...	2.00	...	2.00
Total-Programme for Wind and other Renewable Energy	...	...	...	...	...	...	...	...	...	1102.00	...	1102.00
Support Programme												
33. Monitoring and Evaluation	...	...	...	...	...	...	...	...	...	0.10	...	0.10
34. Information and Public Advertising (I&PA)	...	...	...	...	...	...	...	...	...	6.00	...	6.00
35. Human Resources Development and Training	...	...	...	...	...	...	...	...	...	30.93	...	30.93
36. International Relations	...	...	...	...	...	...	...	...	...	8.00	...	8.00

(In ₹ crores)

	Actual 2020-2021			Budget 2021-2022			Revised 2021-2022			Budget 2022-2023		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
37. Research and Development	...	...	...	...	...	...	...	...	...	35.00	...	35.00
Total-Support Programme	...	...	...	...	...	...	...	...	...	80.03	...	80.03
Hydrogen Mission												
38. National Green Hydrogen Mission	...	...	...	...	...	...	...	...	...	0.01	...	0.01
Storage and Transmission												
39. Green Energy Corridor	...	...	...	...	...	...	...	...	...	300.00	...	300.00
Total-Central Sector Schemes/Projects	2866.81	...	2866.81	5645.28	...	5645.28	4987.50	...	4987.50	6787.93	...	6787.93
Other Central Sector Expenditure												
Autonomous Bodies												
40. National Institute of Wind Energy	13.50	...	13.50	20.84	...	20.84	20.00	...	20.00	22.00	...	22.00
41. National Institute of Bio Energy	4.70	...	4.70	8.33	...	8.33	4.96	...	4.96	7.00	...	7.00
42. National Institute of Solar Energy	12.65	...	12.65	19.50	...	19.50	15.04	...	15.04	16.00	...	16.00
Total-Autonomous Bodies	30.85	...	30.85	48.67	...	48.67	40.00	...	40.00	45.00	...	45.00
Public Sector Undertakings												
43. Indian Renewable Energy Development Agency (IREDA)	...	...	...	...	...	...	...	1500.00	1500.00	...	...	...
44. Solar Energy Corporation of India (SECI)	...	...	...	...	...	...	...	1000.00	1000.00	...	...	...
Total-Public Sector Undertakings	...	...	...	...	...	...	...	2500.00	2500.00	...	...	...
Others												
45. Deduct Recovery of over Payment	-438.53	...	-438.53	...	...	...	...	...	...	...	...	...
Total-Other Central Sector Expenditure	-407.68	...	-407.68	48.67	...	48.67	40.00	2500.00	2540.00	45.00	...	45.00
Grand Total	2493.34	149.96	2643.30	5743.00	10.00	5753.00	5071.80	2610.00	7681.80	6888.94	11.74	6900.68
B. Developmental Heads												
Economic Services												
1. New and Renewable Energy	2459.13	...	2459.13	5128.95	...	5128.95	4528.50	...	4528.50	6153.93	...	6153.93
2. Secretariat-Economic Services	34.21	...	34.21	49.05	...	49.05	44.30	...	44.30	56.01	...	56.01
3. Capital Outlay on New and Renewable Energy	...	149.96	149.96	...	10.00	10.00	...	2610.00	2610.00	...	11.74	11.74
Total-Economic Services	2493.34	149.96	2643.30	5178.00	10.00	5188.00	4572.80	2610.00	7182.80	6209.94	11.74	6221.68
Others												
4. North Eastern Areas	...	...	...	565.00	...	565.00	499.00	...	499.00	679.00	...	679.00
Total-Others	...	...	...	565.00	...	565.00	499.00	...	499.00	679.00	...	679.00
Grand Total	2493.34	149.96	2643.30	5743.00	10.00	5753.00	5071.80	2610.00	7681.80	6888.94	11.74	6900.68

	Budget Support			IEBR			Total			Budget Support			IEBR			Total		
	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total			
C. Investment in Public Enterprises																		
1. Indian Renewable Energy Development Agency	...	8926.28	8926.28	...	11017.82	11017.82	1500.00	18139.74	19639.74	...	27572.34	27572.34						
2. Solar Energy Corporation of India	...	579.28	579.28	...	760.18	760.18	1000.00	834.45	1834.45	...	998.65	998.65						
Total	...	9505.56	9505.56	...	11778.00	11778.00	2500.00	18974.19	21474.19	...	28570.99	28570.99						

1. **Secretariat:** Provision is for Secretariat expenditure.
2. **Office Buildings:** Provision is for Major Works Construction of Office Building: Atal Akshay Urja Bhawan.
22. **Solar Power (Grid):** Central Financial Assistance for Solar Power in 2022-23.
23. **Solar Power (Off-Grid):** Implementation of Phase-III of the off-grid solar PV programme, which covers installation of 3 lakh solar street lights, distribution of 25 lakh solar study lamps and installation of solar power packs of total aggregated capacity of 100 MWp. In addition, under AJAY Phase-II over 3 lakh solar street lights would be installed. Further 20MWeq Projects of Concentrated Solar Thermal (CST) will be undertaken.
24. **Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM):** The Ministry has formulated a scheme Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM) for setting up Decentralized Ground Mounted Grid Connected Solar Power Plants, installation of Stand alone Solar Water Pumps for agriculture and Solarisation of existing Grid Connected Agriculture Pumps with the objective of providing financial and water security to farmers. State Government/DISCOMs will be encouraged to put in place a mechanism through which surplus solar power could be purchased by the distribution companies at a tariff determined by the States.
25. **Other Renewable Energy Applications (OREA):** Other Renewable Energy Application (Solar cities Green Buildings etc. including Support to states, Demonstration of Renewable Energy Application, Cook-Stove etc.): To support States for creation of suitable Framework for promoting energy efficiency and conservation & Accessibility to clean Energy for domestic usage.
26. **Interest Payment and Issuing Expenses on the Bonds:** Interest Payments and Issuing Expenses: Payment of interest towards bonds issued/to be issued by IREDA for Implementation of RE Projects.
27. **Bio Power (Grid):** Central Financial Assistance for Bio Power in 2022-23.
28. **Bio Power (Off-Grid):** Central Financial Assistance for off-Grid/Distributed Bio Power in 2022-23.
29. **Biogas Programme (Off-Grid):** To install one lakh bio gas plants for providing alternate cooking fuel solutions.
30. **Wind Power (Grid):** This Generation Based Incentive Scheme for Wind Power .
31. **Hydro Power (Grid):** Central Financial Assistance for Small Hydro Power project activities related to development of conducive environment and clean energy.
32. **Hydro Power (Off-Grid):** Central Financial Assistance for Small Hydro Power project activities related to development of conducive environment and clean energy.
33. **Monitoring and Evaluation:** To Carry out Evaluation and other Studies in Renewable Energy Sector.
34. **Information and Public Advertising (I&PA):** Demonstration of RE applications, Information to Public and education institutions for creating awareness among the public.
35. **Human Resources Development and Training:** Support for short term training Programmes including Suryamitra, National Renewable Energy Science fellowship, Nation Renewable Energy Science fellowship, up gradation of labs, library facilities, development of course modules etc.
36. **International Relations:** Allocation envisages for International cooperation including investment promotion and assistance to international Solar Alliance Building and Secretariat Establishment.
37. **Research and Development:** R&D Projects are continuous in nature. Projects in different RE sectors will be undertaken in each year up to 2022-23.
38. **National Green Hydrogen Mission:** The provision is for National Green Hydrogen Mission, which will scale-up Green hydrogen production and utilisation across multiple sectors.
39. **Green Energy Corridor:** Green Energy Corridor: Provision of Central Financial Assistance will be utilised for capacity addition of Cumulative 6000 ckm transmission infrastructure under intra state Green Energy Corridor Project in 2022-23.

40. **National Institute of Wind Energy:** NIWE carries out research and development in Wind Energy.
41. **National Institute of Bio Energy:** NIBE carries out research and development in Bio Energy.
42. **National Institute of Solar Energy:** NISE carries out research and development in Solar Energy.
43. **Indian Renewal Energy Development Agency (IREDA):** Capital Infusion/Equity in Indian Renewable Energy Development Agency (IREDA).
44. **Solar Energy Corporation of India (SECI):** Capital Infusion/Equity in Solar Energy Corporation of India (SECI).