

**MINISTRY OF NEW AND RENEWABLE ENERGY**

DEMAND NO. 70

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

	Actual 2018-2019			Budget 2019-2020			Revised 2019-2020			Budget 2020-2021		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Gross	4460.41	17.39	4477.80	5209.83	45.00	5254.83	3820.74	71.00	3891.74	5701.00	52.00	5753.00
Recoveries	-253.18	...	-253.18	...	...	...	...	...	...	...	...	...
Receipts	...	...	...	...	...	...	...	...	...	...	...	...
<b>Net</b>	<b>4207.23</b>	<b>17.39</b>	<b>4224.62</b>	<b>5209.83</b>	<b>45.00</b>	<b>5254.83</b>	<b>3820.74</b>	<b>71.00</b>	<b>3891.74</b>	<b>5701.00</b>	<b>52.00</b>	<b>5753.00</b>
A. The Budget allocations, net of recoveries, are given below:												
<b>CENTRE'S EXPENDITURE</b>												
<b>Establishment Expenditure of the Centre</b>												
1. Secretariat	37.60	...	37.60	43.38	...	43.38	40.34	...	40.34	46.50	...	46.50
2. Office Buildings	...	17.39	17.39	...	45.00	45.00	...	71.00	71.00	...	52.00	52.00
<b>Total-Establishment Expenditure of the Centre</b>	<b>37.60</b>	<b>17.39</b>	<b>54.99</b>	<b>43.38</b>	<b>45.00</b>	<b>88.38</b>	<b>40.34</b>	<b>71.00</b>	<b>111.34</b>	<b>46.50</b>	<b>52.00</b>	<b>98.50</b>
<b>Central Sector Schemes/Projects</b>												
<b>Grid Interactive Renewable Power</b>												
3. Wind Power	950.00	...	950.00	920.00	...	920.00	1026.00	...	1026.00	1299.35	...	1299.35
4. Small Hydro Power	136.75	...	136.75	182.90	...	182.90	92.10	...	92.10	100.00	...	100.00
5. Bio Power	6.83	...	6.83	25.00	...	25.00	4.68	...	4.68	75.00	...	75.00
6. Solar Power	1903.74	...	1903.74	2479.90	...	2479.90	1789.49	...	1789.49	2149.65	...	2149.65
7. Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM)	...	...	...	...	...	...	...	...	...	300.00	...	300.00
8. Green Energy Corridors	500.00	...	500.00	500.00	...	500.00	52.61	...	52.61	300.00	...	300.00
9. Externally Aided Project (EAP) - Component	...	...	...	40.00	...	40.00	0.41	...	0.41	1.00	...	1.00
10. Interest Payment and Issuing Expenses on the Bonds	124.39	...	124.39	124.35	...	124.35	124.35	...	124.35	125.00	...	125.00
<b>Total-Grid Interactive Renewable Power</b>	<b>3621.71</b>	<b>...</b>	<b>3621.71</b>	<b>4272.15</b>	<b>...</b>	<b>4272.15</b>	<b>3089.64</b>	<b>...</b>	<b>3089.64</b>	<b>4350.00</b>	<b>...</b>	<b>4350.00</b>
<b>Off-Grid/Distributed and Decentralized Renewable Power</b>												
11. Wind Power	1.60	...	1.60	...	...	...	...	...	...	3.01	...	3.01
12. Small Hydro Power	0.92	...	0.92	8.00	...	8.00	2.04	...	2.04	2.00	...	2.00
13. Bio Power	3.35	...	3.35	50.00	...	50.00	6.03	...	6.03	53.00	...	53.00
14. Solar Power	620.89	...	620.89	525.00	...	525.00	491.02	...	491.02	366.14	...	366.14
15. Kisan Urja Suraksha evam Utthaan	...	...	...	...	...	...	...	...	...	700.00	...	700.00

(In ₹ crores)

	Actual 2018-2019			Budget 2019-2020			Revised 2019-2020			Budget 2020-2021		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Mahabhiyan(KUSUM)												
16. Biogas Programme	42.72	...	42.72	100.00	...	100.00	51.00	...	51.00	60.00	...	60.00
17. Other Renewable Energy Applications (Solar Cities, Green Buildings, Support to States, Demonstration of Renewable Energy Applications, Cookstoves, etc.)	0.11	...	0.11	5.00	...	5.00	0.27	...	0.27	0.05	...	0.05
<b>Total-Off-Grid/Distributed and Decentralized Renewable Power</b>	<b>669.59</b>	<b>...</b>	<b>669.59</b>	<b>688.00</b>	<b>...</b>	<b>688.00</b>	<b>550.36</b>	<b>...</b>	<b>550.36</b>	<b>1184.20</b>	<b>...</b>	<b>1184.20</b>
<b>Research, Development and International Cooperation</b>												
18. Research and Development	25.43	...	25.43	60.00	...	60.00	15.01	...	15.01	20.00	...	20.00
<b>Supporting Programmes</b>												
19. Monitoring/Evaluation and Other Studies	0.07	...	0.07	0.30	...	0.30	0.03	...	0.03	0.30	...	0.30
20. Information Technology/e-Governance and other Initiatives	0.10	...	0.10	1.00	...	1.00	0.55	...	0.55	...	...	...
21. Information, Education and Communications	5.15	...	5.15	10.00	...	10.00	7.21	...	7.21	10.00	...	10.00
22. International Relations - International Co-operation including Investment Promotion and Assistance to International Solar Alliance	24.37	...	24.37	30.00	...	30.00	16.90	...	16.90	22.00	...	22.00
23. Human Resources Development and Training	57.39	...	57.39	70.00	...	70.00	64.00	...	64.00	60.00	...	60.00
<b>Total-Supporting Programmes</b>	<b>87.08</b>	<b>...</b>	<b>87.08</b>	<b>111.30</b>	<b>...</b>	<b>111.30</b>	<b>88.69</b>	<b>...</b>	<b>88.69</b>	<b>92.30</b>	<b>...</b>	<b>92.30</b>
<b>Total-Central Sector Schemes/Projects</b>	<b>4403.81</b>	<b>...</b>	<b>4403.81</b>	<b>5131.45</b>	<b>...</b>	<b>5131.45</b>	<b>3743.70</b>	<b>...</b>	<b>3743.70</b>	<b>5646.50</b>	<b>...</b>	<b>5646.50</b>
<b>Other Central Sector Expenditure</b>												
<b>Autonomous Bodies</b>												
24. National Institute of Wind Energy	...	...	...	17.00	...	17.00	23.00	...	23.00	1.50	...	1.50
25. National Institute of Bio Energy	1.00	...	1.00	3.00	...	3.00	0.70	...	0.70	1.50	...	1.50
26. National Institute of Solar Energy	18.00	...	18.00	15.00	...	15.00	13.00	...	13.00	5.00	...	5.00
<b>Total-Autonomous Bodies</b>	<b>19.00</b>	<b>...</b>	<b>19.00</b>	<b>35.00</b>	<b>...</b>	<b>35.00</b>	<b>36.70</b>	<b>...</b>	<b>36.70</b>	<b>8.00</b>	<b>...</b>	<b>8.00</b>
<b>Others</b>												
27. Deduct Recovery of over Payment	-253.18	...	-253.18	...	...	...	...	...	...	...	...	...
<b>Total-Other Central Sector Expenditure</b>	<b>-234.18</b>	<b>...</b>	<b>-234.18</b>	<b>35.00</b>	<b>...</b>	<b>35.00</b>	<b>36.70</b>	<b>...</b>	<b>36.70</b>	<b>8.00</b>	<b>...</b>	<b>8.00</b>
<b>Grand Total</b>	<b>4207.23</b>	<b>17.39</b>	<b>4224.62</b>	<b>5209.83</b>	<b>45.00</b>	<b>5254.83</b>	<b>3820.74</b>	<b>71.00</b>	<b>3891.74</b>	<b>5701.00</b>	<b>52.00</b>	<b>5753.00</b>
<b>B. Developmental Heads</b>												
<b>Economic Services</b>												
1. New and Renewable Energy	4169.63	...	4169.63	4653.45	...	4653.45	3405.40	...	3405.40	5089.50	...	5089.50
2. Secretariat-Economic Services	37.60	...	37.60	43.38	...	43.38	40.34	...	40.34	46.50	...	46.50
3. Capital Outlay on New and Renewable Energy	...	17.39	17.39	...	45.00	45.00	...	71.00	71.00	...	52.00	52.00
<b>Total-Economic Services</b>	<b>4207.23</b>	<b>17.39</b>	<b>4224.62</b>	<b>4696.83</b>	<b>45.00</b>	<b>4741.83</b>	<b>3445.74</b>	<b>71.00</b>	<b>3516.74</b>	<b>5136.00</b>	<b>52.00</b>	<b>5188.00</b>
<b>Others</b>												

(In ₹ crores)

	Actual 2018-2019			Budget 2019-2020			Revised 2019-2020			Budget 2020-2021		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
4. North Eastern Areas	...	...	...	513.00	...	513.00	375.00	...	375.00	565.00	...	565.00
<b>Total-Others</b>	...	...	...	<b>513.00</b>	...	<b>513.00</b>	<b>375.00</b>	...	<b>375.00</b>	<b>565.00</b>	...	<b>565.00</b>
<b>Grand Total</b>	<b>4207.23</b>	<b>17.39</b>	<b>4224.62</b>	<b>5209.83</b>	<b>45.00</b>	<b>5254.83</b>	<b>3820.74</b>	<b>71.00</b>	<b>3891.74</b>	<b>5701.00</b>	<b>52.00</b>	<b>5753.00</b>
	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
<b>C. Investment in Public Enterprises</b>												
1. Indian Renewable Energy Development Agency	...	10119.37	10119.37	...	12053.57	12053.57	...	12084.08	12084.08	...	13351.85	13351.85
2. Solar Energy Corporation of India	...	339.78	339.78	...	300.24	300.24	...	382.24	382.24	...	374.89	374.89
<b>Total</b>	...	<b>10459.15</b>	<b>10459.15</b>	...	<b>12353.81</b>	<b>12353.81</b>	...	<b>12466.32</b>	<b>12466.32</b>	...	<b>13726.74</b>	<b>13726.74</b>

- Secretariat:** Provision is for Secretariat expenditure.
- Office Buildings:** Provision is for Major Works Construction of Office Building: Atal Akshay Urja Bhawan.
- Wind Power:** This Generation Based Incentive Scheme for Capacity of 4 GW Wind Power will be commissioned in 2020-21.
- Small Hydro Power:** Capacity of 0.1 GW hydro power will be commissioned 2020-21.
- Bio Power:** Central Financial Assistance for capacity addition of 0.3 GW Bio Power in 2020-21.
- Solar Power:** Central Financial Assistance for capacity addition of 7500 MW Solar Power in 2020-21.
- Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM):** The Ministry has formulated a new 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.

8. **Green Energy Corridors:** Green Energy Corridor: Provision of CFA will be utilised for capacity addition of Cumulative 6000ckmtransmission infrastructure under intra state Green Energy Corridorproject in 2020-21.

9. **Externally Aided Project (EAP) - Component:** Promotion of two projects namely:

(i) UNDP/GEF project on scale up of Access to Clean Energy for Rural productive uses: project Activities related to access to energy for increasing livelihood of the poor in remote villages in UNDAF states.

(ii) IGEN- Access under Indo-German Bilateral Program: project activities related to development of conducive environment and removing market barriers for rural energy enterprises to prosper and provide energy and energy products/services.

10. **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.

11. **Wind Power:** Central Financial Assistance for Wind Power project activities related to development of conducive environment and clean energy.

12. **Small Hydro Power:** Central Financial Assistance for Small Hydro Power project activities related to development of conducive environment and clean energy.

13. **Bio Power:** Central Financial Assistance for capacity addition of 30 MWeq off-Grid/Distributed Bio Power in 2020-21.

14. **Solar Power:** Implementation of Ph-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 Ph-II over 3 lakh solar street lights would be installed. Further 20MWeq Projects of Concentrated Solar Thermal (CST) will be undertaken.
15. **Kisan Urja Suraksha evam Utthaan Mahabhiyan(KUSUM):** The Ministry has formulated a new 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.
16. **Biogas Programme:** To install one lakh bio gas plants for providing alternate cooking fuel solutions.
17. **Other Renewable Energy Applications (Solar Cities, Green Buildings, Support to States, Demonstration of Renewable Energy Applications, Cookstoves, etc.):** 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.
18. **Research and Development:** R&D Projects are continuous in nature. Projects in different RE sectors will be undertaken in each year up to 2021.
19. **Monitoring/Evaluation and Other Studies:** To Carry out Evaluation and other Studies in Renewable Energy Sector.
21. **Information, Education and Communications:** Demonstration of RE applications, Information to Public and education institutions for creating awareness among the public.
22. **International Relations - International Co-operation including Investment Promotion and Assistance to International Solar Alliance:** International cooperation including investment promotion and assistance to international Soar Alliance Building and Secretariat Establishment.
23. **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.
25. **National Institute of Wind Energy:** NIWE carries out research and development in Wind Energy.
26. **National Institute of Bio Energy:** NIBE carries out research and development in Bio Energy.
27. **National Institute of Solar Energy:** NISE carries out research and development in Solar Energy.