## MINISTRY OF NEW AND RENEWABLE ENERGY

## DEMAND NO. 67

## Ministry of New and Renewable Energy

(In ₹ crores)

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	Actu	al 2015-20	16	Budg	jet 2016-20	017	Revised 2016-2017			Budget 2017-2018			
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	
Gross	4150.26	94.52	4244.78	9882.79	100.00	9982.79	8517.13	115.00	8632.13	10724.54	90.00	10814.54	
Recoverie	s -4018.76		-4018.76	-4847.00	-100.00	-4947.00	-4172.00	-100.00	-4272.00	-5291.70	-50.00	-5341.70	
Receipts													
Net	131.50	94.52	226.02	5035.79	•••	5035.79	4345.13	15.00	4360.13	5432.84	40.00	5472.84	
A. The Budget allocations, net of recoveries, are given below:													
CENTRE'S EXPENDITURE													
Establishment Expenditure of the Centre													
1. Secretariat	27.81		27.81	34.19		34.19	36.53		36.53	36.54		36.54	
2. Office Buildings		2.52	2.52					15.00	15.00		40.00	40.00	
Total-Establishment Expenditure of the Centre	27.81	2.52	30.33	34.19		34.19	36.53	15.00	51.53	36.54	40.00	76.54	
Central Sector Schemes/Projects													
Grid Interactive Renewable Power													
3. Transfer to National Clean Energy Fund(NCEF)				3419.00		3419.00	3090.65		3090.65	4034.50		4034.50	
4. Wind Power	314.00		314.00	365.00		365.00	488.95		488.95	400.00		400.00	
5. Small Hydro Power	100.00		100.00	112.00		112.00	112.00		112.00	121.50		121.50	
6. Bio Power	29.00		29.00	30.00		30.00	17.00		17.00	33.00		33.00	
7. Solar Power	1716.00		1716.00	2350.00		2350.00	2216.50		2216.50	2661.00		2661.00	
Green Energy Corridors	300.00		300.00	500.00		500.00	200.00		200.00	500.00		500.00	
9. Information, Education and Communication	4.16		4.16	5.00		5.00	15.10		15.10				
10. Demonstration of Renewable Energy Applications	2.00		2.00	2.00		2.00	2.00		2.00				
11. Energy Storage				16.00		16.00	0.10		0.10				
12. Externally Aided Project (EAP) - Component	2.87		2.87	39.00		39.00	39.00		39.00	39.00		39.00	
13. Interest Payment and Issuing Expenses on the Bonds										280.00		280.00	
<ol> <li>Less-Amount met from National Clean Energy Fund (NCEF)</li> </ol>	-2468.03		-2468.03	-3419.00		-3419.00	-3090.65		-3090.65	-4034.50		-4034.50	
Total-Grid Interactive Renewable Power				3419.00		3419.00	3090.65		3090.65	4034.50		4034.50	
Off-Grid/Distributed and Decentralized Renewable Power													
15. Transfer to National Clean Energy Fund (NCEF)				983.00		983.00	808.50		808.50	918.20		918.20	

(In ₹ crores)

		Actual 2015-2016			Duala	-+ 2040 20	47	Davia	ed 2016-20	47	(In ₹ crores) Budget 2017-2018			
					·	et 2016-20					•			
16.	Wind Power	Revenue 11.00	Capital 	1 otal 11.00	Revenue 7.00	Capital 	7.00	Revenue 6.00	Capital 	6.00	Revenue 8.00	Capital 	<u>Total</u> 8.00	
17.	Small Hydro Power	5.00		5.00	10.00		10.00	10.00		10.00	13.00		13.00	
18.	Bio Power	25.56		25.56	30.00		30.00	26.00		26.00	43.00		43.00	
19.	Solar Power	1396.33		1396.33	700.00		700.00	590.20		590.20	700.00		700.00	
20.	Remote Village Electrification (RVE)	4.08		4.08	50.00		50.00	50.00		50.00			700.00	
21.	Biogas Programme	55.47		55.47	97.00		97.00	100.00		100.00	134.00		134.00	
22.	Others including Cook Stoves	5.11		5.11	16.00		16.00	15.50		15.50				
23.	Other Renewable Energy Applications (Solar Cities, Green Buildings, Support to States, Demonstration of	7.21		7.21	20.00		20.00	4.80		4.80	14.20		14.20	
24.	Renewable Energy Applications, Cookstoves, etc.) Externally Aided Projects (EAP) - Component				6.00		6.00	6.00		6.00	6.00		6.00	
25.	Energy Storage				2.00		2.00							
26.	Central Plan Schemes	38.25		38.25	45.00		45.00							
27.	Less-Amount met from National Clean Energy Fund (NCEF)	-1521.83		-1521.83	-983.00		-983.00	-808.50		-808.50	-918.20		-918.20	
Total	-Off-Grid/Distributed and Decentralized Renewable Power	26.18		26.18	983.00		983.00	808.50		808.50	918.20		918.20	
Rese	arch, Development and International Cooperation													
28.	Transfer to National Clean Energy Fund(NCEF)				445.00		445.00	272.85		272.85	144.00		144.00	
29.	Research and Development										144.00		144.00	
30.	Bio Energy	2.34		2.34	8.00		8.00	7.00		7.00				
31.	Solar Energy	33.92		33.92	90.00		90.00	60.00		60.00				
32.	Small Hydro Power				3.00		3.00	3.00		3.00				
33.	New Technologies	5.99		5.99	20.00		20.00	15.25		15.25				
34.	Wind Energy	1.00		1.00	3.00		3.00	2.00		2.00				
35.	International Relations -International Co-operation including Investment Promotion and Assistance to International Solar Alliance	0.76		0.76	221.60		221.60	131.60		131.60				
36.	Human Resource Development and Training	4.00		4.00	55.00		55.00	43.50		43.50				
37.	Energy Storage				2.00		2.00	0.10		0.10				
38.	New and Innovative Projects, National Centre for New Energy and Innovation (NCNEI), National University of Renewable Energy(NURE), World Renewable Energy Museum(WREM)				44.00		44.00	12.00		12.00				
39.	Less-Amount met from National Clean Energy Fund				-445.00		-445.00	-272.85		-272.85	-144.00		-144.00	
Total-	(NCEF) -Research, Development and International Cooperation	48.01		48.01	446.60		446.60	274.45		274.45	144.00		144.00	
Supp	orting Programmes													
40.	Transfer to National Clean Energy Fund (NCEF)										195.00		195.00	
41.	Monitoring/Evaluation and Other Studies	0.09		0.09							15.00		15.00	
42.	Information Technology/e-Governance and other Initiatives	0.58		0.58							0.10		0.10	

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In	•	crores)
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	Actua	al 2015-201	6	Budg	et 2016-20	17	Revise	ed 2016-20	)17	Budg	)18		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	
43. Information, Education and Communications		•••	•••					•••		20.00		20.00	
International Relations - International Co-operation including Investment Promotion and Assistance to International Solar Alliance										76.60		76.60	
45. Human Resources Development and Training										70.00		70.00	
<ul> <li>46. New &amp; Innovative Projects, National Centre for New Energy and Innovation (NCNEI), National University of Renewable Energy(NURE), World Renewable Energy Museum(WREM)</li> <li>47. Less Amount met from National Clean Energy Fund</li> </ul>										14.90 -195.00		14.90 -195.00	
(NCEF) Total-Supporting Programmes	0.67		0.67							196.60		196.60	
	74.86		74.86	4848.60	•••	4848.60	4173.60	•••	4173.60	5293.30		5293.30	
Total-Central Sector Schemes/Projects	74.00	•••	74.00	4040.00		4040.00	4173.00		4175.00	3293.30		3233.30	
Other Central Sector Expenditure													
Autonomous Bodies													
48. National Institute of Wind Energy	13.70		13.70	25.00		25.00	25.00		25.00	25.00		25.00	
49. National Institute of Bio Energy	4.69		4.69	8.00		8.00	3.00		3.00	8.00		8.00	
50. National Institute of Solar Energy	39.34		39.34	20.00		20.00	7.00		7.00	20.00		20.00	
Total-Autonomous Bodies	57.73		57.73	53.00		53.00	35.00		35.00	53.00		53.00	
Public Sector Undertakings													
51. Transfer to National Clean Energy Fund (NCEF)				100.00		100.00	100.00		100.00	50.00		50.00	
52. Solar Energy Corporation of India (SECI)		92.00	92.00		100.00	100.00		100.00	100.00		50.00	50.00	
<ol> <li>Less-Amount met from National Clean Energy Fund (NCEF)</li> </ol>					-100.00	-100.00	•••	-100.00	-100.00		-50.00	-50.00	
Total-Public Sector Undertakings		92.00	92.00	100.00	•••	100.00	100.00	•••	100.00	50.00		50.00	
Others													
54. Deduct Recovery of over Payment	-28.90		-28.90										
Total-Other Central Sector Expenditure	28.83	92.00	120.83	153.00		153.00	135.00		135.00	103.00		103.00	
Grand Total	131.50	94.52	226.02	5035.79		5035.79	4345.13	15.00	4360.13	5432.84	40.00	5472.84	
B. Developmental Heads													
Economic Services													
New and Renewable Energy	65.44		65.44	4505.60		4505.60	3895.60		3895.60	4871.30		4871.30	
2. Secretariat-Economic Services	27.81		27.81	34.19		34.19	36.53		36.53	36.54		36.54	
3. Capital Outlay on New and Renewable Energy		94.52	94.52					15.00	15.00		40.00	40.00	
Total-Economic Services Others	93.25	94.52	187.77	4539.79		4539.79	3932.13	15.00	3947.13	4907.84	40.00	4947.84	

											(In ₹	crores)
	Actual 2015-2016			Budget 2016-2017			Revised 2016-2017			Budget 2017-2018		
	Revenue	Capital	Total	Revenue	Capital		Revenue	Capital	Total	Revenue	Capital	Total
North Eastern Areas				496.00		496.00	413.00		413.00	525.00		525.00
5. Grants-in-aid to State Governments	38.25		38.25									
Total-Others Grand Total	38.25 131.50		38.25 226.02			496.00 5035.79	413.00 4345.13	15.00	413.00 4360.13		40.00	525.00 5472.84
	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
C. Investment in Public Enterprises												
Indian Renewable Energy     Development Agency		6053.75	6053.75		9118.85	9118.85		12212.60	12212.60		8043.31	8043.31
Solar Energy Corporation of India	92.00	58.94	150.94	100.00	73.98	173.98	100.00	88.92	188.92	50.00	200.42	250.42
Total	92.00	6112.69	6204.69	100.00	9192.83	9292.83	100.00	12301.52	12401.52	50.00	8243.73	8293.73

- 1. Secretariat: Provision is for Secretariat Expenditure.
- 2. Office Buildings Provision is for Major Works Construction of Office Buildings Atal Akshay Urja Bhawan.
- 3, 15,28, 40 and 51: Transfer to National Clean Energy Fund(NCEF): This entry indicating the Transfer to the Head National Clean Energy Fund, as all the Programmes/ Schemes are being funded through NCEF.
- 4 to 13: Grid Interactive Renewable Power Provision of central financial assistance will be used for Grid Interactive Power Capacity from Solar, Wind, Small Hydro Power and BioPower. During the year, major contributor in terms of physical targets will come from Solar and Wind Energy respectively. Further, Union Government component in Intra state Transmission Lines under the Green Energy Corridor Scheme for Renewable Energy Transmission infrastructure will also be implemented.

16 to 26: Off Grid / Distributed and Decentralised Renewable Power: The central financial assistance will be used for Off- Grid/Distributed and Decentralised Programmes. The major programmes covered are Offgrid and Decentralized/Distributed systems i.e. Solar Lighting, Micro Grid, Solar Pumps etc., Biogas Programme, Decentralised Bio Power Programmes etc. One new project on Ligno Cellulos will be introduced under BioPower. The sub-scheme Remote Village Electrification have been merged with sub-scheme Solar Power. The Sub-Scheme Demonstration of Renewable Energy Applications under the Umbrella Scheme Grid Interactive Renewable Power and the Sub-Scheme Others including Cookstoves under the Umbrella Scheme Off Grid / Distributed and Decentralised Renewable Power have been merged with Sub-Scheme Other Renewable Energy Applications (Solar Cities, Green Buildings, Support to States) under the Umbrella Scheme Off Grid / Distributed and Decentralised Renewable Power.

29 to 38: Research, Development and International Cooperation R& D activities on different aspects of New and Renewable Energy Technologies, Standards & Testing, Renewable Energy Assessment including Energy Storage (which was earlier under Grid Interactive Renewable Power, Off-Grid/Distributed and Decentralised Renewable Power and under Research, Development and International Co-operation) have been clubbed together under Research and Development. International Contributions Provision is for India's Contribution to IRENA.

41 to 46:Supporting Programmes: A new Umbrella Scheme Supporting Programmes has been opened with following components: (a) Monitoring/Evaluation and Other Studies, (b) Information Technology/e-Governance and other initiatives,(c) Information, Education and Communication under Grid Interactive Renewable Power during 2016-17 is kept under Supporting Programmes for 2017-18. (d) International Relations International Co-operation including Investment Promotion and Assistance to International Solar Alliance under Research, Development and International Co-operation during 2016-17 is kept under the Supporting Programmes for 2017-18. Under International Co-operation, funds are allocated for 2017-18 for International Solar Alliance and also for undertaking the training and capacity building programmes and other renewable energy projects in Member Countries. International Contributions Provision is for India's Contribution to IRENA, (e) Human Resource Development and Training Programme under Research, Development and International Co-operation during 2016-17 is kept under the Umbrella Scheme Supporting Programmes for 2017-18. Besides funding the on going fellowship programmes, funds are also allocated for Surya Mitra Scheme launched by the Government during 2015-16, (f) The New and Innovative Projects including National Centre for New Energy and Innovation(NCNEI), National University of Renewable Energy (NURE), World Renewable Energy Museum (WREM) under Research, Development and International Cooperation during 2016-17 is kept under the Umbrella Scheme Supporting Programmes for 2017-18.

48 to 50: Autonomous Bodies The budget has been kept for supporting MNRE autonomous bodies.

52. Public Sector Undertakings (PSU): Equity of ₹50.00 crores has been kept under the PSU Solar Energy Corporation of India(SECI) for 2017-18.