

MINISTRY OF POWER

DEMAND NO. 74

Ministry of Power*(In ₹ crores)*

	Actual 2015-2016			Budget 2016-2017			Revised 2016-2017			Budget 2017-2018		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Gross	7863.27	1352.96	9216.23	10817.17	3721.82	14538.99	8871.21	2480.67	11351.88	11102.46	3708.40	14810.86
Recoveries	-1189.71	-76.83	-1266.54	-1955.50	-232.50	-2188.00	-674.81	-102.84	-777.65	-807.00	-122.72	-929.72
Receipts	-214.83	...	-214.83	-98.28	...	-98.28	-98.28	...	-98.28	...	...	...
Net	6458.73	1276.13	7734.86	8763.39	3489.32	12252.71	8098.12	2377.83	10475.95	10295.46	3585.68	13881.14

A. The Budget allocations, net of recoveries and receipts, are given below:

CENTRE'S EXPENDITURE**Establishment Expenditure of the Centre**

1. Secretariat	29.86	...	29.86	35.57	...	35.57	38.16	...	38.16	40.35	...	40.35
2. Statutory Authorities												
2.01 Central Electricity Authority	82.50	0.61	83.11	96.54	3.50	100.04	110.25	3.50	113.75	115.91	1.23	117.14
2.02 Setting up of Joint Electricity Regulatory Commission (JERC) for UTs and Goa	5.70	...	5.70	6.81	...	6.81	6.81	...	6.81	7.19	...	7.19
2.03 Appellate Tribunal for Electricity	9.23	...	9.23	10.97	...	10.97	11.21	...	11.21	12.05	...	12.05
2.04 Forum of Regulators (FOR)	0.89	...	0.89	1.00	...	1.00	0.60	...	0.60	...	...	...
2.05 Central Electricity Regulatory Commission (CERC) Fund	34.96	...	34.96	55.50	...	55.50	55.50	...	55.50	57.00	...	57.00
2.06 Less- Amount met from CERC Fund	-34.96	...	-34.96	-55.50	...	-55.50	-55.50	...	-55.50	-57.00	...	-57.00
2.07 Joint Electricity Regulatory Commission (JERC) Manipur and Mizoram	...	...	...	...	...	...	0.01	...	0.01	...	...	...
Total- Statutory Authorities	98.32	0.61	98.93	115.32	3.50	118.82	128.88	3.50	132.38	135.15	1.23	136.38

Total-Establishment Expenditure of the Centre

	128.18	0.61	128.79	150.89	3.50	154.39	167.04	3.50	170.54	175.50	1.23	176.73
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Central Sector Schemes/Projects**Conservation and Energy Efficiency**

3. Energy Conservation Schemes

3.01 Energy Conservation	54.82	...	54.82	100.00	...	100.00	50.62	...	50.62	50.54	...	50.54
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Deen Dayal Upadhyaya Gram Jyoti Yojna

4. Deen Dayal Upadhyaya Gram Jyoti Yojna	4500.00	...	4500.00	3000.00	...	3000.00	3350.00	...	3350.00	4814.00	...	4814.00
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Integrated Power Development Scheme

5. Integrated Power Development Scheme

5.01 IPDS-Grant	333.73	...	333.73	2918.72	...	2918.72	2943.37	...	2943.37	3321.22	...	3321.22
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(In ₹ crores)

	Actual 2015-2016			Budget 2016-2017			Revised 2016-2017			Budget 2017-2018		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
5.02 IPDS-Loans	...	667.82	667.82	...	2581.28	2581.28	...	1580.64	1580.64	...	2500.00	2500.00
<i>Total- Integrated Power Development Scheme</i>	333.73	667.82	1001.55	2918.72	2581.28	5500.00	2943.37	1580.64	4524.01	3321.22	2500.00	5821.22
Strengthening of Power Systems												
6. <i>Strengthening of Power Systems</i>												
6.01 Smart Grids	1.32	...	1.32	30.00	...	30.00	10.00	...	10.00	30.00	...	30.00
6.02 Green Energy Corridors	...	...	...	...	0.10	0.10	...	0.10	0.10	...	75.00	75.00
6.03 Interest Subsidy to National Electricity Fund	7.00	...	7.00	25.00	...	25.00	9.00	...	9.00	10.00	...	10.00
6.04 Financial support for Debt restructuring of DISCOMS	...	...	...	0.01	...	0.01	0.01	...	0.01	...	...	...
6.05 Power System Operation Company (POSOCO)	...	...	...	...	81.21	81.21	...	81.21	81.21	...	40.00	40.00
6.06 220 kV Transmission line from Srinagar to Leh via Kargil	...	250.00	250.00	...	250.00	250.00	...	250.00	250.00	...	250.00	250.00
6.07 Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (Program Component)	197.33	...	197.33	124.00	...	124.00	41.00	...	41.00	95.00	...	95.00
6.08 Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (EAP Component)	50.00	...	50.00	110.00	...	110.00	37.00	...	37.00	84.00	...	84.00
6.09 Strengthening of Transmission System in the States of Arunachal Pradesh and Sikkim	150.00	...	150.00	273.00	...	273.00	255.26	...	255.26	193.00	...	193.00
6.10 Funds for Evaluation Studies and Consultancy	...	...	...	0.01	...	0.01	0.01	...	0.01	...	...	...
6.11 Comprehensive Award Scheme for Power Sector	0.17	...	0.17	0.54	...	0.54	0.54	...	0.54	...	...	...
6.12 Jammu and Kashmir-price escalation Prime Minister's Reconstruction Package (PMRP) 2004 relating to transmission and distribution network	...	...	...	...	...	...	130.00	...	130.00	65.00	...	65.00
6.13 Actual recovery	-4.01	...	-4.01	...	...	...	...	...	...	...	...	...
<i>Net</i>	401.81	250.00	651.81	562.56	331.31	893.87	482.82	331.31	814.13	477.00	365.00	842.00
Power System Development Fund												
7. <i>Power System Development Fund</i>												
7.01 Transfer to Power System Development Fund (PSDF)	1150.74	...	1150.74	1900.00	...	1900.00	619.31	...	619.31	750.00	...	750.00
7.02 Scheme for Power System Development	175.00	...	175.00	400.00	...	400.00	219.31	...	219.31	500.00	...	500.00
7.03 Utilisation of Gas based Generation Capacity	975.74	...	975.74	1500.00	...	1500.00	400.00	...	400.00	250.00	...	250.00
7.04 Less-Amount met from Power System Development Fund	-1150.74	...	-1150.74	-1900.00	...	-1900.00	-619.31	...	-619.31	-750.00	...	-750.00
<i>Net</i>	1150.74	...	1150.74	1900.00	...	1900.00	619.31	...	619.31	750.00	...	750.00
Total-Central Sector Schemes/Projects	6441.10	917.82	7358.92	8481.28	2912.59	11393.87	7446.12	1911.95	9358.07	9412.76	2865.00	12277.76
Other Central Sector Expenditure												
Autonomous Bodies												
8. <i>Training and Research</i>												

(In ₹ crores)

	Actual 2015-2016			Budget 2016-2017			Revised 2016-2017			Budget 2017-2018		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
8.01 Central Power Research Institute	37.28	...	37.28	125.00	...	125.00	65.79	...	65.79	150.00	...	150.00
8.02 National Power Training Institute	30.00	...	30.00	40.40	...	40.40	40.40	...	40.40	57.20	...	57.20
<i>Total- Training and Research</i>	<i>67.28</i>	<i>...</i>	<i>67.28</i>	<i>165.40</i>	<i>...</i>	<i>165.40</i>	<i>106.19</i>	<i>...</i>	<i>106.19</i>	<i>207.20</i>	<i>...</i>	<i>207.20</i>
9. Conservation and Energy Efficiency												
9.01 Bureau of Energy Efficiency (Program Component)	35.00	...	35.00	63.29	...	63.29	60.04	...	60.04	49.00	...	49.00
9.02 Bureau of Energy Efficiency (EAP Component)	2.00	...	2.00	0.71	...	0.71	0.59	...	0.59	1.00	...	1.00
<i>Total- Conservation and Energy Efficiency</i>	<i>37.00</i>	<i>...</i>	<i>37.00</i>	<i>64.00</i>	<i>...</i>	<i>64.00</i>	<i>60.63</i>	<i>...</i>	<i>60.63</i>	<i>50.00</i>	<i>...</i>	<i>50.00</i>
Total-Autonomous Bodies	104.28	...	104.28	229.40	...	229.40	166.82	...	166.82	257.20	...	257.20
Public Sector Undertakings												
10. Assistance to CPSUs												
10.01 National Hydro Electric Power Corporation Ltd	...	300.00	300.00	...	367.00	367.00	...	367.00	367.00	...	400.00	400.00
10.02 Tehri Development Corporation (THDC)	...	30.00	30.00	...	40.00	40.00	...	40.00	40.00	...	52.00	52.00
10.03 Damodar Valley Corporation	...	...	...	...	0.10	0.10	...	...	...	...	...	...
10.04 North Eastern Electric Power Corporation (NEEPCO)	...	27.70	27.70	...	166.13	166.13	...	55.38	55.38	...	267.45	267.45
10.05 Badarpur Thermal Power Station	...	...	...	0.10	...	0.10	0.10	...	0.10	...	...	...
<i>Net</i>	<i>-214.83</i>	<i>...</i>	<i>-214.83</i>	<i>-98.28</i>	<i>...</i>	<i>-98.28</i>	<i>-98.28</i>	<i>...</i>	<i>-98.28</i>	<i>...</i>	<i>...</i>	<i>...</i>
10.06 Central Assistance for Pakul Dul HEP under J and K PMDP 2015 as grant to Chenab Valley Power Projects Private Limited (CVPPPL)	...	...	...	...	...	...	409.12	...	409.12	100.00	...	100.00
10.07 GoI fully serviced bond issue expenditure and interest (PFC bonds)	...	...	...	...	...	...	7.20	...	7.20	350.00	...	350.00
<i>Total- Assistance to CPSUs</i>	<i>-214.83</i>	<i>357.70</i>	<i>142.87</i>	<i>-98.18</i>	<i>573.23</i>	<i>475.05</i>	<i>318.14</i>	<i>462.38</i>	<i>780.52</i>	<i>450.00</i>	<i>719.45</i>	<i>1169.45</i>
11. Acquisition of Coal bearing areas for NTPC												
11.01 Acquisition of coal bearing areas	...	76.83	76.83	...	232.50	232.50	...	102.84	102.84	...	122.72	122.72
11.02 Less Recoveries	...	-76.83	-76.83	...	-232.50	-232.50	...	-102.84	-102.84	...	-122.72	-122.72
<i>Net</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>	<i>...</i>
Total-Public Sector Undertakings	-214.83	357.70	142.87	-98.18	573.23	475.05	318.14	462.38	780.52	450.00	719.45	1169.45
Total-Other Central Sector Expenditure	-110.55	357.70	247.15	131.22	573.23	704.45	484.96	462.38	947.34	707.20	719.45	1426.65
Grand Total	6458.73	1276.13	7734.86	8763.39	3489.32	12252.71	8098.12	2377.83	10475.95	10295.46	3585.68	13881.14
B. Developmental Heads												
Economic Services												
1. Power	6428.87	...	6428.87	7871.04	...	7871.04	7436.71	...	7436.71	9250.96	...	9250.96

(In ₹ crores)

	Actual 2015-2016			Budget 2016-2017			Revised 2016-2017			Budget 2017-2018		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
2. Secretariat-Economic Services	29.86	...	29.86	35.57	...	35.57	38.16	...	38.16	40.35	...	40.35
3. Capital Outlay on Power Projects	...	307.31	307.31	...	374.91	374.91	...	374.81	374.81	...	418.23	418.23
4. Loans for Power Projects	...	968.82	968.82	...	2751.19	2751.19	...	1584.84	1584.84	...	2555.00	2555.00
Total-Economic Services	6458.73	1276.13	7734.86	7906.61	3126.10	11032.71	7474.87	1959.65	9434.52	9291.31	2973.23	12264.54
Others												
5. North Eastern Areas	...	...	...	856.78	...	856.78	623.25	...	623.25	1004.15	...	1004.15
6. Capital Outlay on North Eastern Areas	...	...	...	...	166.13	166.13	...	55.38	55.38	...	267.45	267.45
7. Loans for North Eastern Areas	...	...	...	...	197.09	197.09	...	362.80	362.80	...	345.00	345.00
Total-Others	...	...	...	856.78	363.22	1220.00	623.25	418.18	1041.43	1004.15	612.45	1616.60
Grand Total	6458.73	1276.13	7734.86	8763.39	3489.32	12252.71	8098.12	2377.83	10475.95	10295.46	3585.68	13881.14
C. Investment in Public Enterprises												
1. National Thermal Power Corporation Limited	...	25737.59	25737.59	...	30000.00	30000.00	...	30000.00	30000.00	...	28000.00	28000.00
2. National Hydro Electric Power Corporation Limited	300.00	2492.92	2792.92	367.00	3590.72	3957.72	367.00	2736.25	3103.25	400.00	2689.36	3089.36
3. Damodar Valley Corporation Limited	...	1934.80	1934.80	0.10	3302.57	3302.67	...	1362.54	1362.54	...	2167.15	2167.15
4. North Eastern Electric Power Corporation Limited	27.70	1308.85	1336.55	166.13	890.91	1057.04	55.38	1686.41	1741.79	267.45	1293.80	1561.25
5. Satluj Jal Vidyut Nigam Limited	...	697.07	697.07	...	1000.00	1000.00	...	600.00	600.00	...	1068.00	1068.00
6. Tehri Hydro Development Corporation Limited	30.00	1060.60	1090.60	40.00	1399.37	1439.37	40.00	1684.46	1724.46	52.00	1662.61	1714.61
7. Power Grid Corporation of India Limited	...	22584.00	22584.00	...	22500.00	22500.00	...	24000.00	24000.00	...	25000.00	25000.00
8. Power Finance Corporation Limited	...	...	...	...	5000.00	5000.00	...	5000.00	5000.00	...	...	...
Total	357.70	55815.83	56173.53	573.23	67683.57	68256.80	462.38	67069.66	67532.04	719.45	61880.92	62600.37

1. **Secretariat:** Provision is made for expenditure on establishment matters of the Secretariat of the Ministry of Power.

2.01. **Central Electricity Authority:** The Central Electricity Authority (CEA) as a statutory organization is responsible for overall power sector planning, coordination, according concurrence to hydro-electric schemes, promoting and assisting the timely completion of projects, specifying technical standards and

safety requirements, Grid Standards and conditions for installation of meters applicable to the Power Sector of the country.

2.02. **Setting up of JERC for UTs and Goa:** The Central Government has set up a Joint Electricity Regulatory Commission (JERC) for Goa and all Union Territories except Delhi. Expenditure of the Joint Commission is borne by the Central Government and the Government of Goa in the ratio of 6:1.

2.03. **Appellate Tribunal for Electricity:** Under the provisions of Electricity Act, 2003, the Central Government has set up the Appellate Tribunal for Electricity. It hears appeals against the orders of the adjudicating officer or the Appropriate Commissions under the Electricity Act, 2003. Under the provisions of the Petroleum and Natural Gas Regulatory Board Act, 2006, APTEL is the Appellate Tribunal for the purpose of that Act.

2.04. **Forum of Regulators (FOR):** The provision is for capacity-building and availing consultancy services.

3.01. **Energy Conservation:** The funds would be utilized for (i) carrying out awareness creation on Energy Conservation through print, electronic and other media for general public, (ii) Continuation of EC awards and painting competition on Energy Conservation, (iii) implementation of the National Mission for Enhanced Energy Efficiency (NMEEE) and (iv) the upscaling of the efforts to create and sustain market for energy efficiency to unlock investments.

4. **Deen Dayal Upadhyaya Gram Jyoti Yojana:** Deendayal Upadhyaya Gram Jyoti Yojna (DDUGJY) has the following objectives : (a) to separate agriculture and non-agriculture feeders to facilitate Discoms in the judicious rostering of supply to agricultural & non-agricultural consumers (b) strengthen and augment sub-transmission & Distribution infrastructure in rural areas and (c) Rural electrification. The scope of works covered under the scheme are Feeder separation, creation of new sub-stations, provision of micro-grid and off-grid distribution network, HT/LT lines, augmentation of sub-stations and metering at all levels. Under the scheme, Govt. of India is providing financial support in the form of grants to the DisComs for implementation of the scheme. All DisComs including Private Sector DisComs are eligible for availing financial support under the scheme. The erstwhile Rajiv Gandhi Gramin Vidutikaran Yojna (RGGVY) has been subsumed in DDUGJY as its Rural Electrification component.

5.01. **IPDS-Grant:** The objective of the scheme is 24x7 power supply for consumers, reduction of AT&C losses and providing access to all households. The scheme has three major components namely improvement of sub-transmission and distribution system in urban areas, metering & IT enablement in distribution sector under ongoing Restructured-Accelerated Power Development Reform Programme (R-APDRP) scheme, which has been subsumed under Integrated Power Development Scheme (IPDS). R-APDRP has two major components: Part-A includes projects for establishment of information technology-based energy accounting and audit system leading to finalization of verifiable base-line AT&C loss levels in the project areas; Part-B envisages distribution network strengthening investments leading to reduction in loss level. The scheme has both Grant and loan components.

6.01. **Smart Grids:** The scheme envisages setting up of an institutional mechanism by launching 'National Smart Grid Mission' which would serve the need of an electrical grid with automation, communication and IT systems that can monitor power flows from points of generation to points of consumption and ensure control of power flow or curtailment of loads matching generation on real time basis.

6.02. **Green Energy Corridors:** The scheme is proposed for maximization of renewable energy generation and integration with the main grid without compromising on the security and stability of power system.

6.03. **Interest Subsidy to National Electricity Fund:** The National Electricity Fund (NEF) is being set up to provide interest subsidy on loans to be disbursed to the Distribution Companies (DISCOMS) both in the Public and Private Sector, to improve the distribution network for areas not covered by RGGVY and R-APDRP scheme (since subsumed in DDUGJY and IPDS respectively) Project areas.

6.05. **Power System Operation Company (POSOCO):** The provision is for POSOCO setup as an Independent Government Company under the Ministry of Power by acquiring the shares currently held by PGCIL in POSOCO.

6.06. **220 kV Transmission line from Srinagar to Leh via Kargil:** The provision is for construction of 220kV Transmission System from Alusteng (Srinagar) to Leh (via Drass, Kargil & Khalsti 220/66 PGCIL substations) and 66 PGCIL interconnection system for Drass, Kargil, Khalsti and Leh sub-stations in Jammu & Kashmir (J&K).

6.07. **Power System Improvement in North Eastern States excluding Arunachal Pradesh and Sikkim (Program Component):** The project is for Power System Improvement in six NE states viz. Assam, Manipur, Meghalaya, Mizoram, Tripura and Nagaland. It is funded by the World Bank. Intra-State Transmission & Distribution projects for Sikkim & Arunachal Pradesh have been segregated for implementation through budgetary support from Government of India in view of these States having sensitive borders.

6.09. **Strengthening of Transmission System in the States of Arunachal Pradesh and Sikkim:** A comprehensive scheme for strengthening of transmission, sub-transmission and distribution system in the entire NE including Sikkim has been conceptualized.

6.12. **Jammu and Kashmir-price escalation PMRP 2004 relating to transmission and distribution network:** It is part of Prime Minister development package (2015), The project has been identified for completion of projects relating to transmission and distribution network approved under Prime Minister Restructuring Package (PMRP2004)

7.01. **Transfer to Power System Development Fund (PSDF):** The scheme envisages (a) strengthening of existing distribution and transmission infrastructure by part-funding through Grants.(Non-Gas component) (b) Provision for subsidy to DISCOMS purchasing electricity from stranded Gas based Power Plants (Gas component).

8.01. **Central Power Research Institute:** Central Power Research Institute, Bengaluru serves as a National Laboratory for applied research in the field of electrical power and also functions as an independent authority for testing, evaluation and certification of electrical equipment and components.

8.02. **National Power Training Institute:** National Power Training Institute is engaged in imparting training in various aspects of power sector including operation and maintenance of power stations.

9.01. **Bureau of Energy Efficiency (Program Component):** Funds are provided to Bureau of Energy Efficiency (BEE) for implementation of various energy efficiency initiatives in the areas of household lighting, commercial buildings, Standards & Labeling appliances, Demand Side Management in Agriculture or Municipalities, SMEs and large industries including the initiation of the process for development of Energy Consumption norms for industrial sub-sectors, capacity building of SDAs, DISCOMS etc.

10.01. **National Hydro Electric Power Corporation Ltd:** NHPC was set up in 1975 under Companies Act, 1956, with a view to securing speedy, efficient and economical execution and operation of Hydro-Electric projects in the Central Sector. NHPC is a schedule A (Mini Ratna) Enterprise of the Government of India. The Capital Outlay is for meeting in part the need for funds for Chutak HEP/ Nimoo Bazjo.

10.02. **Tehri Development Corporation (THDC):** THDC India Limited is a Joint Venture of Govt. of India and Govt. of Uttar Pradesh. The equity is shared between GoI and GoUP in the ratio of 3:1. The company was incorporated in July, 1988 to develop, operate and maintain the 2400 MW Tehri Hydro Power

Complex and other hydro projects in the Bhagirathi valley. The Capital outlay is for meeting in part the expenditure on VishnuGadh Pipal Koti HEP.

10.04. **North Eastern Electric Power Corporation (NEEPCO):** The North Eastern Electric Power Corporation Limited (NEEPCO), a Schedule A Mini Ratna company under Ministry of Power, set up on 2nd April, 1976, carries the objective of developing the power potential in India and abroad with special emphasis on the NE Region of the country through planned development and commissioning of power projects, which in turn would promote the overall development of the country and NE region in particular. The capital outlay is for meeting part of the expenditure on Kameng HEP as per the requirement.

10.06. **Central Assistance for Pakul Dul HEP under J and K PMDP 2015 as grant to Chenab Valley Power Projects Private Limited (CVPPPL):** It is part of Prime Minister development package (2015), the assistance is for the Pakul Dul HEP implemented through joint venture with Chenab Valley Power project Pvt limited.

10.07. **Gol fully serviced bond issue expenditure and interest (PFC bonds):** The allocation is required for expenses and on the issue of Bonds, interest payable on infrastructure bonds raised by Power Finance Corporation (PFC).