

**Data Collection Survey on  
Power Sector  
in India**

**Final Report  
Appendix**

**January 2017**

**Japan International Cooperation Agency (JICA)**

**Electric Power Development Co., Ltd.**

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## **APPENDIX 2**

# **CURRENT SITUATION AND FUTURE TREND IN POWER SECTOR IN INDIA**

**Appx-2-1 Electricity Supply Position (Peak Demand and Peak Met March 2010)**

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**Peak Demand and Peak Met (Revised)**

State / System / Region	March, 2010				April, 2009 - March, 2010			
	Peak Demand	Peak Met	Surplus / Deficit (-)		Peak Demand	Peak Met	Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
Chandigarh	195	195	0	0.0	308	308	0	0.0
Delhi	3,411	3,411	0	0.0	4,502	4,408	-94	-2.1
Haryana	5,398	4,618	-780	-14.4	6,133	5,678	-455	-7.4
Himachal Pradesh	1,095	1,095	0	0.0	1,118	1,158	40	3.6
Jammu & Kashmir	2,247	1,441	-806	-35.9	2,247	1,487	-760	-33.8
Punjab	6,355	5,497	-858	-13.5	9,786	7,407	-2,379	-24.3
Rajasthan	6,567	6,567	0	0.0	6,859	6,859	0	0.0
Uttar Pradesh	10,332	8,133	-2,199	-21.3	10,856	8,563	-2,293	-21.1
Uttarakhand	1,269	1,207	-62	-4.9	1,397	1,313	-84	-6.0
<b>Northern Region</b>	<b>32,594</b>	<b>28,741</b>	<b>-3,853</b>	<b>-11.8</b>	<b>37,159</b>	<b>31,439</b>	<b>-5,720</b>	<b>-15.4</b>
Chhattisgarh	2,664	2,582	-82	-3.1	2,819	2,703	-116	-4.1
Gujarat	10,040	9,047	-993	-9.9	10,406	9,515	-891	-8.6
Madhya Pradesh	6,973	5,910	-1,063	-15.2	7,490	6,415	-1,075	-14.4
Maharashtra	19,388	14,664	-4,724	-24.4	19,388	14,664	-4,724	-24.4
Daman & Diu	236	236	0	0.0	280	255	-25	-8.9
Dadar Nagar Haveli	514	477	-37	-7.2	529	494	-35	-6.6
Goa	485	437	-48	-9.9	485	453	-32	-6.6
<b>Western Region</b>	<b>39,609</b>	<b>32,586</b>	<b>-7,023</b>	<b>-17.7</b>	<b>39,609</b>	<b>32,586</b>	<b>-7,023</b>	<b>-17.7</b>
Andhra Pradesh	12,168	10,880	-1,288	-10.6	12,168	10,880	-1,288	-10.6
Karnataka	7,942	6,897	-1,045	-13.2	7,942	6,897	-1,045	-13.2
Kerala	3,109	2,982	-127	-4.1	3,109	2,982	-127	-4.1
Tamil Nadu	11,125	9,738	-1,387	-12.5	11,125	9,813	-1,312	-11.8
Pondicherry	327	288	-39	-11.9	327	294	-33	-10.1
Lakshadweep	6	6	0	0.0	6	6	0	0.0
<b>Southern Region</b>	<b>32,178</b>	<b>29,049</b>	<b>-3,129</b>	<b>-9.7</b>	<b>32,178</b>	<b>29,049</b>	<b>-3,129</b>	<b>-9.7</b>
Bihar	1,975	1,475	-500	-25.3	2,249	1,509	-740	-32.9
DVC	1,938	1,910	-28	-1.4	1,938	1,910	-28	-1.4
Jharkhand	894	881	-13	-1.5	1,088	947	-141	-13.0
Orissa	3,075	3,048	-27	-0.9	3,188	3,120	-68	-2.1
West Bengal	6,094	5,963	-131	-2.1	6,094	5,963	-131	-2.1
Sikkim	87	85	-2	-2.3	96	94	-2	-2.1
Andaman- Nicobar	40	32	-8	-20.0	40	32	-8	-20.0
<b>Eastern Region</b>	<b>13,220</b>	<b>12,275</b>	<b>-945</b>	<b>-7.1</b>	<b>13,220</b>	<b>12,384</b>	<b>-836</b>	<b>-6.3</b>
Arunachal Pradesh	80	71	-9	-11.3	95	78	-17	-17.9
Assam	830	788	-42	-5.1	920	874	-46	-5.0
Manipur	93	91	-2	-2.2	111	99	-12	-10.8
Meghalaya	280	204	-76	-27.1	280	250	-30	-10.7
Mizoram	65	59	-6	-9.2	70	64	-6	-8.6
Nagaland	96	95	-1	-1.0	100	96	-4	-4.0
Tripura	135	132	-3	-2.2	176	173	-3	-1.7
<b>North-Eastern Region</b>	<b>1,565</b>	<b>1,358</b>	<b>-207</b>	<b>-13.2</b>	<b>1,760</b>	<b>1,445</b>	<b>-315</b>	<b>-17.9</b>
<b>All India</b>	<b>119,166</b>	<b>104,009</b>	<b>-15,157</b>	<b>-12.7</b>	<b>119,166</b>	<b>104,009</b>	<b>-15,157</b>	<b>-12.7</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these,does not form part of regional requirement and availability

## Appx-2-2 Electricity Supply Position (Peak Demand and Peak Met March 2011)

अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)

ऑकड़े मेगा वाट नेट/ Figures in MW net

राज्य / State प्रणाली / System क्षेत्र / Region	मार्च, 2011 / March, 2011				अप्रैल, 2010 - मार्च, 2011/ April, 2010 to March, 2011			
	अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)		अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
चंडीगढ़ / Chandigarh	196	196	0	0.0	301	301	0	0.0
दिल्ली / Delhi	3,418	3,412	-6	-0.2	4,810	4,739	-71	-1.5
हरियाणा / Haryana	5,157	4,802	-355	-6.9	6,142	5,574	-568	-9.2
हिमाचल प्रदेश / Himachal Pradesh	1,178	1,178	0	0.0	1,278	1,187	-91	-7.1
जम्मू कश्मीर / Jammu & Kashmir	2,369	1,494	-875	-36.9	2,369	1,571	-798	-33.7
पंजाब / Punjab	6,282	5,723	-559	-8.9	9,399	7,938	-1,461	-15.5
राजस्थान / Rajasthan	7,549	7,184	-365	-4.8	7,729	7,442	-287	-3.7
उत्तर प्रदेश / Uttar Pradesh	10,295	9,499	-796	-7.7	11,082	10,672	-410	-3.7
उत्तराखण्ड / Uttarakhand	1,379	1,239	-140	-10.2	1,520	1,520	0	0.0
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>33,484</b>	<b>30,430</b>	<b>-3,054</b>	<b>-9.1</b>	<b>37,431</b>	<b>34,101</b>	<b>-3,330</b>	<b>-8.9</b>
छत्तीसगढ़ / Chhattisgarh	3,148	2,838	-310	-9.8	3,148	2,838	-310	-9.8
गुजरात / Gujarat	9,745	9,509	-236	-2.4	10,786	9,947	-839	-7.8
मध्य प्रदेश / Madhya Pradesh	8,398	8,093	-305	-3.6	8,864	8,093	-771	-8.7
महाराष्ट्र / Maharashtra	19,607	16,192	-3,415	-17.4	19,766	16,192	-3,574	-18.1
दमन और दिउ / Daman & Diu	277	252	-25	-9.0	353	328	-25	-7.1
दादर व नगर हवेली / Dadra & Nagar Haveli	538	513	-25	-4.6	594	594	0	0.0
गोवा / Goa	489	467	-22	-4.5	544	467	-77	-14.2
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>40,798</b>	<b>34,819</b>	<b>-5,979</b>	<b>-14.7</b>	<b>40,798</b>	<b>34,819</b>	<b>-5,979</b>	<b>-14.7</b>
आन्ध्र प्रदेश / Andhra Pradesh	12,630	11,829	-801	-6.3	12,630	11,829	-801	-6.3
कर्नाटक / Karnataka	8,430	7,743	-687	-8.1	8,430	7,815	-615	-7.3
केरल / Kerala	3,156	3,103	-53	-1.7	3,295	3,103	-192	-5.8
तमिल नाडु / Tamil Nadu	11,353	10,422	-931	-8.2	11,728	10,436	-1,292	-11.0
पुदुचेरी / Puducherry	308	302	-6	-1.9	319	302	-17	-5.3
लक्षद्वीप / Lakshadweep #	7	7	0	0	7	7	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>33,256</b>	<b>31,121</b>	<b>-2,135</b>	<b>-6.4</b>	<b>33,256</b>	<b>31,121</b>	<b>-2,135</b>	<b>-6.4</b>
बिहार / Bihar	2,123	1,402	-721	-34.0	2,140	1,659	-481	-22.5
दामोदर घाटी निगम / DVC	1,926	1,916	-10	-0.5	2,059	2,046	-13	-0.6
झारखण्ड / Jharkhand	1,108	1,052	-56	-5.1	1,108	1,052	-56	-5.1
उड़ीसा / Orissa	3,872	3,792	-80	-2.1	3,872	3,792	-80	-2.1
पश्चिम बंगाल / West Bengal	5,990	5,973	-17	-0.3	6,162	6,112	-50	-0.8
सिक्किम / Sikkim	92	91	-1	-1.1	106	104	-2	-1.9
अंडमान- निकोबार / Andaman- Nicobar #	40	32	-8	-20	40	32	-8	-20
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>13,079</b>	<b>12,331</b>	<b>-748</b>	<b>-5.7</b>	<b>13,767</b>	<b>13,085</b>	<b>-682</b>	<b>-5.0</b>
अरुणाचल प्रदेश / Arunachal Pradesh	91	77	-14	-15.4	101	85	-16	-15.8
असम / Assam	936	912	-24	-2.6	971	937	-34	-3.5
मणीपुर / Manipur	100	95	-5	-5.0	118	115	-3	-2.5
मेघालय / Meghalaya	264	241	-23	-8.7	294	284	-10	-3.4
मिजोरम / Mizoram	74	66	-8	-10.8	76	70	-6	-7.9
नागालैण्ड / Nagaland	100	97	-3	-3.0	118	110	-8	-6.8
त्रिपुरा / Tripura	194	192	-2	-1.0	220	197	-23	-10.5
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>1,670</b>	<b>1,555</b>	<b>-115</b>	<b>-6.9</b>	<b>1,913</b>	<b>1,560</b>	<b>-353</b>	<b>-18.5</b>
<b>सम्पूर्ण भारत / All India</b>	<b>122,287</b>	<b>110,256</b>	<b>-12,031</b>	<b>-9.8</b>	<b>122,287</b>	<b>110,256</b>	<b>-12,031</b>	<b>-9.8</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability

**Appx-2-3 Electricity Supply Position (Peak Demand and Peak Met March 2012)**

**अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)**

ऑकडे मेगा वाट नेट / Figures in MW net

राज्य / State प्रणाली / System क्षेत्र / Region	मार्च, 2012 / March, 2012				अप्रैल, 2011 - मार्च, 2012 / April, 2011 to March, 2012			
	अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)		अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
चंडीगढ़ / Chandigarh	168	168	0	0.0	263	263	0	0.0
दिल्ली / Delhi	3,359	3,316	-43	-1.3	5,031	5,028	-3	-0.1
हरियाणा / Haryana	5,352	5,277	-75	-1.4	6,533	6,259	-274	-4.2
हिमाचल प्रदेश / Himachal Pradesh	1,259	1,148	-111	-8.8	1,397	1,298	-99	-7.1
जम्मू कश्मीर / Jammu & Kashmir*	2,000	1,708	-292	-14.6	2,385	1,789	-596	-25.0
पंजाब / Punjab	5,732	5,559	-173	-3.0	10,471	8,701	-1,770	-16.9
राजस्थान / Rajasthan	7,827	7,605	-222	-2.8	8,188	7,605	-583	-7.1
उत्तर प्रदेश / Uttar Pradesh	11,977	11,767	-210	-1.8	12,038	11,767	-271	-2.3
उत्तराखंड / Uttarakhand	1,506	1,506	0	0.0	1,612	1,600	-12	-0.7
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>33,383</b>	<b>31,870</b>	<b>-1,513</b>	<b>-4.5</b>	<b>40,248</b>	<b>37,117</b>	<b>-3,131</b>	<b>-7.8</b>
छत्तीसगढ़ / Chhattisgarh	3,214	3,093	-121	-3.8	3,239	3,093	-146	-4.5
गुजरात / Gujarat	10,635	10,492	-143	-1.3	10,951	10,759	-192	-1.8
मध्य प्रदेश / Madhya Pradesh	8,905	8,505	-400	-4.5	9,151	8,505	-646	-7.1
महाराष्ट्र / Maharashtra	19,640	16,151	-3,489	-17.8	21,069	16,417	-4,652	-22.1
दमन और दिउ / Daman & Diu	284	259	-25	-8.8	301	276	-25	-8.3
दादर व नगर हवेली / Dadra & Nagar Haveli	577	577	0	0.0	615	605	-10	-1.6
गोवा / Goa	527	450	-77	-14.6	527	471	-56	-10.6
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>40,773</b>	<b>36,509</b>	<b>-4,264</b>	<b>-10.5</b>	<b>42,352</b>	<b>36,509</b>	<b>-5,843</b>	<b>-13.8</b>
आन्ध्र प्रदेश / Andhra Pradesh	14,054	11,972	-2,082	-14.8	14,054	11,972	-2,082	-14.8
कर्नाटक / Karnataka	10,545	8,549	-1,996	-18.9	10,545	8,549	-1,996	-18.9
केरल / Kerala	3,516	3,337	-179	-5.1	3,516	3,337	-179	-5.1
तमिल नाडु / Tamil Nadu	12,813	10,006	-2,807	-21.9	12,813	10,566	-2,247	-17.5
पुडुचेरी / Puduchery	314	311	-3	-1.0	335	320	-15	-4.5
लक्ष्य द्वीप / Lakshadweep #	8	8	0	0	8	8	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>37,599</b>	<b>32,188</b>	<b>-5,411</b>	<b>-14.4</b>	<b>37,599</b>	<b>32,188</b>	<b>-5,411</b>	<b>-14.4</b>
बिहार / Bihar	1,878	1,671	-207	-11.0	2,031	1,738	-293	-14.4
दामोदर घाटी निगम / DVC	2,140	2,074	-66	-3.1	2,318	2,074	-244	-10.5
झारखण्ड / Jharkhand	956	868	-88	-9.2	1,030	868	-162	-15.7
उड़ीसा / Odisha	3,492	3,185	-307	-8.8	3,589	3,526	-63	-1.8
पश्चिम बंगाल / West Bengal	6,592	6,532	-60	-0.9	6,592	6,532	-60	-0.9
सिक्किम / Sikkim	90	90	0	0.0	100	95	-5	-5.0
अंडमान- निकोबार / Andaman- Nicobar #	48	48	0	0	48	48	0	0
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>14,707</b>	<b>13,999</b>	<b>-708</b>	<b>-4.8</b>	<b>14,707</b>	<b>13,999</b>	<b>-708</b>	<b>-4.8</b>
अरुणाचल प्रदेश / Arunachal Pradesh	101	97	-4	-4.0	121	118	-3	-2.5
असम / Assam	1,032	978	-54	-5.2	1,112	1,053	-59	-5.3
मणिपुर / Manipur	105	103	-2	-1.9	116	115	-1	-0.9
मेघालय / Meghalaya	292	253	-39	-13.4	319	267	-52	-16.3
मिजोरम / Mizoram	75	73	-2	-2.7	82	78	-4	-4.9
नागालैण्ड / Nagaland	101	96	-5	-5.0	111	105	-6	-5.4
त्रिपुरा / Tripura	181	171	-10	-5.5	215	214	-1	-0.5
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>1,859</b>	<b>1,625</b>	<b>-234</b>	<b>-12.6</b>	<b>1,920</b>	<b>1,782</b>	<b>-138</b>	<b>-7.2</b>
<b>सम्पूर्ण भारत / All India</b>	<b>128,321</b>	<b>116,191</b>	<b>-12,130</b>	<b>-9.5</b>	<b>130,006</b>	<b>116,191</b>	<b>-13,815</b>	<b>-10.6</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability

\* Approximate



## Appx-2-4 Electricity Supply Position (Peak Demand and Peak Met March 2013)

अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)

ऑफ़सेट बेगा वाट नेट / Figures in MW net

राज्य / State प्रणाली / System क्षेत्र / Region	मार्च, 2013 / March, 2013				अप्रैल, 2012 - मार्च, 2013 / April, 2012 to March, 2013			
	अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)		अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
चंडीगढ़ / Chandigarh	207	207	0	0.0	340	340	0	0.0
दिल्ली / Delhi	3,226	3,226	0	0.0	5,942	5,642	-300	-5.0
हरियाणा / Haryana	5,814	5,554	-260	-4.5	7,432	6,725	-707	-9.5
हिमाचल प्रदेश / Himachal Pradesh	1,331	1,295	-36	-2.7	2,116	1,672	-444	-21.0
जम्मू कश्मीर / Jammu & Kashmir	2,245	1,684	-561	-25.0	2,422	1,817	-605	-25.0
पंजाब / Punjab	5,264	5,264	0	0.0	11,520	8,751	-2,769	-24.0
राजस्थान / Rajasthan	8,433	8,433	0	0.0	8,940	8,515	-425	-4.8
उत्तर प्रदेश / Uttar Pradesh	12,655	10,745	-1,910	-15.1	13,940	12,048	-1,892	-13.6
उत्तराखण्ड / Uttarakhand	1,587	1,587	0	0.0	1,759	1,674	-85	-4.8
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>36,826</b>	<b>34,581</b>	<b>-2,245</b>	<b>-6.1</b>	<b>45,860</b>	<b>41,790</b>	<b>-4,070</b>	<b>-8.9</b>
छत्तीसगढ़ / Chhattisgarh	3,205	3,087	-118	-3.7	3,271	3,134	-137	-4.2
गुजरात / Gujarat	11,627	11,614	-13	-0.1	11,999	11,960	-39	-0.3
मध्य प्रदेश / Madhya Pradesh	8,164	8,167	3	0.0	10,077	9,462	-615	-6.1
महाराष्ट्र / Maharashtra	17,443	16,602	-841	-4.8	17,934	16,765	-1,169	-6.5
दमन और दिउ / Daman & Diu	296	206	-90	-30.4	311	286	-25	-8.0
दादर व नगर हवेली / Dadra & Nagar Haveli	609	609	0	0.0	629	629	0	0.0
गोवा / Goa	524	475	-49	-9.4	524	475	-49	-9.4
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>38,693</b>	<b>38,263</b>	<b>-430</b>	<b>-1.1</b>	<b>40,075</b>	<b>39,486</b>	<b>-589</b>	<b>-1.5</b>
आन्ध्र प्रदेश / Andhra Pradesh	14,582	11,630	-2,952	-20.2	14,582	11,630	-2,952	-20.2
कर्नाटक / Karnataka	9,995	8,096	-1,899	-19.0	10,124	8,761	-1,363	-13.5
केरल / Kerala	3,457	3,224	-233	-6.7	3,578	3,262	-316	-8.8
तमिल नाडु / Tamil Nadu	12,736	10,556	-2,180	-17.1	12,736	11,053	-1,683	-13.2
पुडुचेरी / Puducherry	324	318	-6	-1.9	348	320	-28	-8.0
लक्षद्वीप / Lakshadweep #	8	8	0	0	8	8	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>38,767</b>	<b>31,586</b>	<b>-7,181</b>	<b>-18.5</b>	<b>38,767</b>	<b>31,586</b>	<b>-7,181</b>	<b>-18.5</b>
बिहार / Bihar	2,156	1,657	-499	-23.1	2,295	1,784	-511	-22.3
दामोदर घाटी निगम / DVC	2,406	2,345	-61	-2.5	2,573	2,469	-104	-4.0
झारखण्ड / Jharkhand	1,263	1,172	-91	-7.2	1,263	1,172	-91	-7.2
उड़ीसा / Odisha	3,562	3,516	-46	-1.3	3,968	3,694	-274	-6.9
पश्चिम बंगाल / West Bengal	6,973	6,917	-56	-0.8	7,322	7,249	-73	-1.0
सिक्किम / Sikkim	80	80	0	0.0	95	95	0	0.0
अंडमान- निकोबार / Andaman- Nicobar #	40	32	-8	-20	48	48	0	0
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>15,293</b>	<b>14,592</b>	<b>-701</b>	<b>-4.6</b>	<b>16,655</b>	<b>15,415</b>	<b>-1,240</b>	<b>-7.4</b>
अरुणाचल प्रदेश / Arunachal Pradesh	105	104	-1	-1.0	116	114	-2	-1.7
असम / Assam	1,119	1,023	-96	-8.6	1,197	1,148	-49	-4.1
मणीपुर / Manipur	110	108	-2	-1.8	122	120	-2	-1.6
मेघालय / Meghalaya	334	320	-14	-4.2	334	330	-4	-1.2
मिजोरम / Mizoram	68	67	-1	-1.5	75	73	-2	-2.7
नागालैण्ड / Nagaland	98	96	-2	-2.0	110	109	-1	-0.9
त्रिपुरा / Tripura	215	214	-1	-0.5	229	228	-1	-0.4
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>1,947</b>	<b>1,752</b>	<b>-195</b>	<b>-10.0</b>	<b>1,998</b>	<b>1,864</b>	<b>-134</b>	<b>-6.7</b>
<b>सम्पूर्ण भारत / All India</b>	<b>131,526</b>	<b>120,774</b>	<b>-10,752</b>	<b>-8.2</b>	<b>135,453</b>	<b>123,294</b>	<b>-12,159</b>	<b>-9.0</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability

**Appx-2-5 Electricity Supply Position (Peak Demand and Peak Met March 2014)**

**अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)**

ऑकडे मेगा वाट नेट / Figures in MW net

राज्य / State प्रणाली / System क्षेत्र / Region	मार्च, 2014 / March, 2014				अप्रैल, 2013 - मार्च, 2014 / April, 2013 to March, 2014			
	अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)		अधिकतम मांग Peak Demand	अधिकतम उपलब्धि Peak Met	अधिशेष/ कमी (-) Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
चंडीगढ़ / Chandigarh	199	199	0	0.0	345	345	0	0.0
दिल्ली / Delhi	3,604	3,444	-160	-4.4	6,035	5,653	-382	-6.3
हरियाणा / Haryana	5,395	5,395	0	0.0	8,114	8,114	0	0.0
हिमाचल प्रदेश / Himachal Pradesh	1,421	1,364	-57	-4.0	1,561	1,392	-169	-10.8
जम्मू कश्मीर / Jammu & Kashmir	2,450	1,933	-517	-21.1	2,500	1,998	-502	-20.1
पंजाब / Punjab	5,476	5,476	0	0.0	10,089	8,733	-1,356	-13.4
राजस्थान / Rajasthan	9,354	9,198	-156	-1.7	10,047	10,038	-9	-0.1
उत्तर प्रदेश / Uttar Pradesh	11,436	11,211	-225	-2.0	13,089	12,327	-762	-5.8
उत्तराखंड / Uttarakhand	1,714	1,714	0	0.0	1,826	1,826	0	0.0
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>38,813</b>	<b>35,829</b>	<b>-2,984</b>	<b>-7.7</b>	<b>45,934</b>	<b>42,774</b>	<b>-3,160</b>	<b>-6.9</b>
छत्तीसगढ़ / Chhattisgarh	3,324	3,289	-35	-1.1	3,365	3,320	-45	-1.3
गुजरात / Gujarat	11,778	11,774	-4	0.0	12,201	12,201	0	0.0
मध्य प्रदेश / Madhya Pradesh	6,767	6,765	-2	0.0	9,716	9,716	0	0.0
महाराष्ट्र / Maharashtra	18,260	17,317	-943	-5.2	19,276	17,621	-1,655	-8.6
दमन और दिउ / Daman & Diu	297	297	0	0.0	322	297	-25	-7.8
दादर व नगर हवेली / Dadra & Nagar Haveli	646	646	0	0.0	661	661	0	0.0
गोवा / Goa	479	465	-14	-2.9	529	529	0	0.0
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>40,375</b>	<b>39,768</b>	<b>-607</b>	<b>-1.5</b>	<b>41,335</b>	<b>40,331</b>	<b>-1,004</b>	<b>-2.4</b>
आन्ध्र प्रदेश / Andhra Pradesh	13,744	13,162	-582	-4.2	14,072	13,162	-910	-6.5
कर्नाटक / Karnataka	9,894	9,168	-726	-7.3	9,940	9,223	-717	-7.2
केरल / Kerala	3,671	3,573	-98	-2.7	3,671	3,573	-98	-2.7
तमिल नाडु / Tamil Nadu	13,522	12,355	-1,167	-8.6	13,522	12,492	-1,030	-7.6
पुडुचेरी / Puducherry	334	333	-1	-0.3	351	333	-18	-5.1
लक्ष्य द्वीप / Lakshadweep #	8	8	0	0	9	9	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>38,464</b>	<b>36,048</b>	<b>-2,416</b>	<b>-6.3</b>	<b>39,015</b>	<b>36,048</b>	<b>-2,967</b>	<b>-7.6</b>
बिहार / Bihar	2,335	2,115	-220	-9.4	2,465	2,312	-153	-6.2
दामोदर घाटी निगम / DVC	2,451	2,441	-10	-0.4	2,745	2,745	0	0.0
झारखण्ड / Jharkhand	1,074	1,044	-30	-2.8	1,111	1,069	-42	-3.8
ओडिशा / Odisha	3,702	3,672	-30	-0.8	3,727	3,722	-5	-0.1
पश्चिम बंगाल / West Bengal	7,314	7,294	-20	-0.3	7,325	7,294	-31	-0.4
सिक्किम / Sikkim	85	85	0	0.0	90	90	0	0.0
अंडमान- निकोबार / Andaman- Nicobar #	40	32	-8	-20	40	32	-8	-20
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>15,888</b>	<b>15,598</b>	<b>-290</b>	<b>-1.8</b>	<b>15,888</b>	<b>15,598</b>	<b>-290</b>	<b>-1.8</b>
अरुणाचल प्रदेश / Arunachal Pradesh	123	122	-1	-0.8	125	124	-1	-0.8
असम / Assam	1,218	1,164	-54	-4.4	1,329	1,220	-109	-8.2
मणीपुर / Manipur	134	133	-1	-0.7	134	133	-1	-0.7
मेघालय / Meghalaya	286	278	-8	-2.8	343	330	-13	-3.8
मिजोरम / Mizoram	83	81	-2	-2.4	84	82	-2	-2.4
नागालैण्ड / Nagaland	100	99	-1	-1.0	109	106	-3	-2.8
त्रिपुरा / Tripura	245	245	0	0.0	254	250	-4	-1.6
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>2,110</b>	<b>1,995</b>	<b>-115</b>	<b>-5.5</b>	<b>2,164</b>	<b>2,048</b>	<b>-116</b>	<b>-5.4</b>
<b>सम्पूर्ण भारत / All India</b>	<b>135,650</b>	<b>129,238</b>	<b>-6,412</b>	<b>-4.7</b>	<b>135,918</b>	<b>129,815</b>	<b>-6,103</b>	<b>-4.5</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability

Appx-2-6 Electricity Supply Position (Peak Demand and Peak Met March 2015)

**अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)**

आँकड़े मेगा वाट नेट / Figures in MW net

राज्य/State प्रणाली / System क्षेत्र / Region	मार्च, 2015 / March,2015				अप्रैल,2014 -, मार्च 2015/ April,2014 to March,2015			
	अधिकतम मांग	अधिकतम उपलब्धि	अधिशेष	कमी (-)	अधिकतम मांग	अधिकतम उपलब्धि	अधिशेष	कमी (-)
	Peak Demand	Peak Met	Surplus / Deficit (-)		Peak Demand	Peak Met	Surplus / Deficit (-)	
	( MW )	( MW )	( MW )	( % )	( MW )	( MW )	( MW )	( % )
चंडीगढ़/ Chandigarh	199	199	0	0.0	367	367	0	0.0
दिल्ली / Delhi	3,589	3,589	0	0.0	6,006	5,925	-81	-1.3
हरियाणा / Haryana	6,010	6,010	0	0.0	9,152	9,152	0	0.0
हिमाचल प्रदेश / Himachal Pradesh	1,365	1,365	0	0.0	1,422	1,422	0	0.0
जम्मू कश्मीर / Jammu & Kashmir	2,286	1,988	-298	-13.0	2,554	2,043	-511	-20.0
पंजाब / Punjab	5,881	5,881	0	0.0	11,534	10,023	-1,511	-13.1
राजस्थान / Rajasthan	8,199	8,199	0	0.0	10,642	10,642	0	0.0
उत्तर प्रदेश / Uttar Pradesh	12,400	12,040	-360	-2.9	15,670	13,003	-2,667	-17.0
उत्तराखण्ड / Uttarakhand	1,751	1,751	0	0.0	1,930	1,930	0	0.0
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>40,986</b>	<b>38,423</b>	<b>-2,563</b>	<b>-6.3</b>	<b>51,977</b>	<b>47,642</b>	<b>-4,335</b>	<b>-8.3</b>
छत्तीसगढ़ / Chhattisgarh	3,817	3,638	-179	-4.7	3,817	3,638	-179	-4.7
गुजरात / Gujarat	12,724	12,719	-5	0.0	13,603	13,499	-104	-0.8
मध्य प्रदेश / Madhya Pradesh	6,815	6,815	0	0.0	9,755	9,717	-38	-0.4
महाराष्ट्र / Maharashtra	19,936	19,804	-132	-0.7	20,147	19,804	-343	-1.7
दमन और दिउ / Daman & Diu	301	301	0	0.0	301	301	0	0.0
दादर व नगर हवेली / Dadra & Nagar Haveli	714	714	0	0.0	714	714	0	0.0
गोवा / Goa	466	465	-1	-0.2	501	489	-12	-2.4
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>43,580</b>	<b>43,145</b>	<b>-435</b>	<b>-1.0</b>	<b>44,166</b>	<b>43,145</b>	<b>-1,021</b>	<b>-2.3</b>
आन्ध्र प्रदेश / Andhra Pradesh	6,790	6,784	-6	-0.1	7,144	6,784	-360	-5.0
तेलंगाना / Telangana	6,920	6,755	-165	-2.4	7,884	6,755	-1,129	-14.3
कर्नाटक / Karnataka	9,889	9,549	-340	-3.4	10,001	9,549	-452	-4.5
केरल / Kerala	3,724	3,594	-130	-3.5	3,760	3,594	-166	-4.4
तमिल नाडू / Tamil Nadu	13,707	12,659	-1,048	-7.6	13,707	13,498	-209	-1.5
पुडुचेरी / Puducherry	337	335	-2	-0.6	389	348	-41	-10.5
लक्षद्वीप / Lakshadweep #	8	8	0	0	8	8	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>38,548</b>	<b>37,047</b>	<b>-1,501</b>	<b>-3.9</b>	<b>39,094</b>	<b>37,047</b>	<b>-2,047</b>	<b>-5.2</b>
बिहार / Bihar	2,994	2,874	-120	-4.0	2,994	2,874	-120	-4.0
दामोदर घाटी निगम / DVC	2,423	2,393	-30	-1.2	2,653	2,590	-63	-2.4
झारखण्ड / Jharkhand	1,025	1,007	-18	-1.8	1,075	1,055	-20	-1.9
ओडिशा/ Odisha	3,920	3,892	-28	-0.7	3,920	3,892	-28	-0.7
पश्चिम बंगाल / West Bengal	7,347	7,332	-15	-0.2	7,544	7,524	-20	-0.3
सिक्किम / Sikkim	77	77	0	0.0	83	83	0	0.0
अंडमान-निकोबार/ Andaman- Nicobar #	40	32	-8	-20	40	32	-8	-20
<b>पूर्वी क्षेत्र/ Eastern Region</b>	<b>17,040</b>	<b>16,932</b>	<b>-108</b>	<b>-0.6</b>	<b>17,040</b>	<b>16,932</b>	<b>-108</b>	<b>-0.6</b>
अरुणाचल प्रदेश / Arunachal	120	107	-13	-10.8	139	126	-13	-9.4
असम / Assam	1,320	1,215	-105	-8.0	1,450	1,257	-193	-13.3
मणिपुर / Manipur	148	146	-2	-1.4	150	146	-4	-2.7
मेघालय / Meghalaya	360	343	-17	-4.7	370	367	-3	-0.8
मिज़ोरम / Mizoram	84	81	-3	-3.6	90	88	-2	-2.2
नागालैंड / Nagaland	130	128	-2	-1.5	140	128	-12	-8.6
त्रिपुरा / Tripura	260	233	-27	-10.4	310	266	-44	-14.2
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern</b>	<b>2,403</b>	<b>2,131</b>	<b>-272</b>	<b>-11.3</b>	<b>2,528</b>	<b>2,202</b>	<b>-326</b>	<b>-12.9</b>
<b>सम्पूर्ण भारत / All India</b>	<b>142,557</b>	<b>137,678</b>	<b>-4,879</b>	<b>-3.4</b>	<b>148,166</b>	<b>141,160</b>	<b>-7,006</b>	<b>-4.7</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these,does not form part of regional requirement and availability

NOTE: Cumulative figures of Andhra Pradesh and Telangana are w.e.f. Jun 2014 due to bifurcation of Andhra Pradesh into Andhra Pradesh and Telangana w.e.f. June, 2014..

Appx-2-7 Electricity Supply Position (Peak Demand and Peak Met March 2016)

**अधिकतम मांग और अधिकतम उपलब्धि (संशोधित) / Peak Demand and Peak Met (Revised)**

ऑकड़े मेगा वाट नेट / Figures in MW net

राज्य/State प्रणाली / System क्षेत्र / Region	मार्च, 2016 /March,2016				अप्रैल,2015 - मार्च, 2016/ April,2015 to March,2016			
	अधिकतम मांग	अधिकतम उपलब्धि	अधिशेष कमी (-)		अधिकतम मांग	अधिकतम उपलब्धि	अधिशेष कमी (-)	
	Peak Demand	Peak Met	Surplus / Deficit (-)		Peak Demand	Peak Met	Surplus / Deficit (-)	
	(MW)	(MW)	(MW)	(%)	(MW)	(MW)	(MW)	(%)
चंडीगढ़/ Chandigarh	195	195	0	0.0	342	342	0	0.0
दिल्ली / Delhi	3,618	3,617	-1	0.0	5,846	5,846	0	0.0
हरियाणा / Haryana	6,433	6,433	0	0.0	9,113	9,113	0	0.0
हिमाचल प्रदेश / Himachal Pradesh	1,428	1,428	0	0.0	1,488	1,488	0	0.0
जम्मू कश्मीर / Jammu & Kashmir	2,439	2,069	-370	-15.2	2,544	2,158	-386	-15.2
पंजाब / Punjab	5,688	5,688	0	0.0	10,852	10,852	0	0.0
राजस्थान / Rajasthan	9,677	9,677	0	0.0	10,961	10,961	0	0.0
उत्तर प्रदेश / Uttar Pradesh	14,595	13,964	-631	-4.3	16,988	14,503	-2,485	-14.6
उत्तराखंड / Uttarakhand	1,817	1,817	0	0.0	2,034	2,034	0	0.0
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>42,396</b>	<b>40,282</b>	<b>-2,114</b>	<b>-5.0</b>	<b>54,474</b>	<b>50,622</b>	<b>-3,852</b>	<b>-7.1</b>
छत्तीसगढ़ / Chhattisgarh	3,700	3,593	-107	-2.9	3,932	3,757	-175	-4.5
गुजरात / Gujarat	13,312	13,283	-29	-0.2	14,495	14,448	-47	-0.3
मध्य प्रदेश / Madhya Pradesh	9,056	9,056	0	0.0	10,902	10,902	0	0.0
महाराष्ट्र / Maharashtra	19,218	19,184	-35	-0.2	20,973	20,594	-379	-1.8
दमन और दिउ / Daman & Diu	304	304	0	0.0	307	307	0	0.0
दादर व नगर हवेली / Dadra & Nagar Haveli	726	726	0	0.0	740	740	0	0.0
गोवा / Goa	446	445	-1	-0.2	583	552	-31	-5.3
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>44,424</b>	<b>44,225</b>	<b>-199</b>	<b>-0.4</b>	<b>48,640</b>	<b>48,199</b>	<b>-441</b>	<b>-0.9</b>
आन्ध्र प्रदेश / Andhra Pradesh	7,400	7,391	-9	-0.1	7,400	7,391	-9	-0.1
तेलंगाना / Telangana	6,656	6,651	-5	-0.1	6,854	6,849	-5	-0.1
कर्नाटक / Karnataka	10,202	9,508	-694	-6.8	10,202	9,508	-694	-6.8
केरल / Kerala	3,977	3,856	-121	-3.1	3,977	3,856	-121	-3.1
तमिल नाडू / Tamil Nadu	14,168	14,165	-3	0.0	14,190	14,171	-19	-0.1
पुडुचेरी / Puducherry	353	352	-1	-0.4	368	352	-16	-4.3
लक्षद्वीप / Lakshadweep #	8	8	0	0	8	8	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>40,030</b>	<b>39,875</b>	<b>-155</b>	<b>-0.4</b>	<b>40,030</b>	<b>39,875</b>	<b>-155</b>	<b>-0.4</b>
बिहार / Bihar	3,488	3,419	-69	-2.0	3,735	3,484	-251	-6.7
दामोदर घाटी निगम / DVC	2,473	2,473	0	0.0	2,814	2,794	-20	-0.7
झारखण्ड / Jharkhand	1,153	1,153	0	0.0	1,153	1,153	0	0.0
ओडिशा/ Odisha	4,091	4,091	0	0.0	4,091	4,091	0	0.0
पश्चिम बंगाल / West Bengal	7,491	7,443	-48	-0.6	7,905	7,885	-20	-0.3
सिक्किम / Sikkim	109	109	0	0.0	109	109	0	0.0
अंडमान-निकोबार/ Andaman-Nicobar #	40	32	-8	-20	40	32	-8	-20
<b>पूर्वी क्षेत्र/ Eastern Region</b>	<b>18169</b>	<b>18056</b>	<b>-113</b>	<b>-0.6</b>	<b>18,169</b>	<b>18,056</b>	<b>-113</b>	<b>-0.6</b>
अरुणाचल प्रदेश / Arunachal	115	113	-2	-1.7	139	135	-4	-2.9
असम / Assam	1,343	1,316	-27	-2.0	1,491	1,378	-113	-7.6
मणिपुर / Manipur	155	155	0	0.0	168	167	-1	-0.6
मेघालय / Meghalaya	315	315	0	0.0	400	377	-23	-5.8
मिज़ोरम / Mizoram	86	84	-2	-2.3	102	101	-1	-1.0
नागालैंड / Nagaland	114	114	0	0.0	140	138	-2	-1.4
त्रिपुरा / Tripura	251	248	-3	-1.2	300	269	-31	-10.3
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>2,442</b>	<b>2,367</b>	<b>-75</b>	<b>-3.1</b>	<b>2,573</b>	<b>2,367</b>	<b>-206</b>	<b>-8.0</b>
<b>सम्पूर्ण भारत / All India</b>	<b>144,934</b>	<b>142,556</b>	<b>-2,378</b>	<b>-1.6</b>	<b>153,366</b>	<b>148,463</b>	<b>-4,903</b>	<b>-3.2</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these,does not form part of regional requirement and availability

**Appx-2-8 Electricity Supply Position (Energy March 2010)**

*Annexure - I  
Page 1 of 3*

**Power Supply Position (Revised)**

State / System / Region	March, 2010				April, 2009 - March, 2010			
	Requirement	Availability	Surplus / Deficit (-)		Requirement	Availability	Surplus / Deficit (-)	
	( MU )	( MU )	( MU )	( % )	( MU )	( MU )	( MU )	( % )
Chandigarh	110	110	0	0.0	1,576	1,528	-48	-3.0
Delhi	1,787	1,780	-7	-0.4	24,277	24,094	-183	-0.8
Haryana	2,730	2,463	-267	-9.8	33,441	32,023	-1,418	-4.2
Himachal Pradesh	650	615	-35	-5.3	7,047	6,769	-278	-3.9
Jammu & Kashmir	1,193	904	-289	-24.2	13,200	9,933	-3,267	-24.8
Punjab	3,457	3,062	-394	-11.4	45,731	39,408	-6,323	-13.8
Rajasthan	4,024	4,006	-18	-0.4	44,109	43,062	-1,047	-2.4
Uttar Pradesh	6,667	5,326	-1,341	-20.1	75,930	59,508	-16,422	-21.6
Uttarakhand	766	680	-86	-11.3	8,921	8,338	-583	-6.5
<b>Northern Region</b>	<b>21,384</b>	<b>18,948</b>	<b>-2,436</b>	<b>-11.4</b>	<b>254,231</b>	<b>224,661</b>	<b>-29,570</b>	<b>-11.6</b>
Chattisgarh	907	886	-21	-2.3	11,009	10,739	-270	-2.5
Gujarat	6,783	6,255	-528	-7.8	70,369	67,220	-3,149	-4.5
Madhya Pradesh	3,980	3,113	-867	-21.8	43,179	34,973	-8,206	-19.0
Maharashtra	12,107	9,498	-2,609	-21.5	124,936	101,512	-23,424	-18.7
Daman & Diu	163	163	0	0.0	1,934	1,802	-132	-6.8
Dadar Nagar Haveli	350	350	0	0.0	4,007	3,853	-154	-3.8
Goa	276	271	-5	-1.8	3,092	3,026	-66	-2.1
<b>Western Region</b>	<b>24,566</b>	<b>20,536</b>	<b>-4,030</b>	<b>-16.4</b>	<b>258,528</b>	<b>223,127</b>	<b>-35,401</b>	<b>-13.7</b>
Andhra Pradesh	7,911	7,021	-890	-11.3	78,996	73,765	-5,231	-6.6
Karnataka	4,886	4,421	-465	-9.5	45,550	42,041	-3,509	-7.7
Kerala	1,710	1,670	-40	-2.3	17,619	17,196	-423	-2.4
Tamil Nadu	7,257	6,601	-656	-9.0	76,293	71,568	-4,725	-6.2
Pondicherry	200	185	-15	-7.5	2,119	1,975	-144	-6.8
Lakshadweep	2	2	0	0.0	24	24	0	0.0
<b>Southern Region</b>	<b>21,964</b>	<b>19,898</b>	<b>-2,066</b>	<b>-9.4</b>	<b>220,576</b>	<b>206,544</b>	<b>-14,032</b>	<b>-6.4</b>
Bihar	983	839	-144	-14.6	11,587	9,914	-1,673	-14.4
DVC	1,379	1,282	-97	-7.0	15,199	14,577	-622	-4.1
Jharkhand	555	467	-88	-15.9	5,867	5,407	-460	-7.8
Orissa	1,828	1,809	-19	-1.0	21,136	20,955	-181	-0.9
West Bengal	3,358	3,195	-163	-4.9	33,750	32,819	-931	-2.8
Sikkim	38	37	-1	-2.6	388	345	-43	-11.1
Andaman- Nicobar	20	15	-5	-25.0	240	180	-60	-25.0
<b>Eastern Region</b>	<b>8,141</b>	<b>7,629</b>	<b>-512</b>	<b>-6.3</b>	<b>87,927</b>	<b>84,017</b>	<b>-3,910</b>	<b>-4.4</b>
Arunachal Pradesh	32	28	-4	-12.5	399	325	-74	-18.5
Assam	384	361	-23	-6.0	5,122	4,688	-434	-8.5
Manipur	44	36	-8	-18.2	524	430	-94	-17.9
Meghalaya	127	95	-32	-25.2	1,550	1,327	-223	-14.4
Mizoram	30	25	-5	-16.7	352	288	-64	-18.2
Nagaland	43	37	-6	-14.0	530	466	-64	-12.1
Tripura	72	71	-1	-1.4	855	771	-84	-9.8
<b>North-Eastern Region</b>	<b>732</b>	<b>653</b>	<b>-79</b>	<b>-10.8</b>	<b>9,332</b>	<b>8,296</b>	<b>-1,036</b>	<b>-11.1</b>
<b>All India</b>	<b>76,787</b>	<b>67,664</b>	<b>-9,123</b>	<b>-11.9</b>	<b>830,594</b>	<b>746,644</b>	<b>-83,950</b>	<b>-10.1</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these,does not form part of regional requirement and availability

Appx-2-9 Electricity Supply Position (Energy March 2011)

विद्युत आपूर्ति स्थिति (संशोधित) / Power Supply Position (Revised)

ऑकडे मिलियन युनिट नेट / Figures in MU net

राज्य / State	मार्च, 2011 / March, 2011				अप्रैल, 2010 - मार्च, 2011 / April, 2010 to March, 2011			
	आवश्यकता Requirement (MU)	उपलब्धता Availability (MU)	अधिशेष Surplus / Deficit (-) (MU)	कमी (-) (%)	आवश्यकता Requirement (MU)	उपलब्धता Availability (MU)	अधिशेष Surplus / Deficit (-) (MU)	कमी (-) (%)
<b>प्रणाली / System</b>								
<b>क्षेत्र / Region</b>								
चंडीगढ़ / Chandigarh	106	106	0	0.0	1,519	1,519	0	0.0
दिल्ली / Delhi	1,765	1,763	-2	-0.1	25,625	25,559	-66	-0.3
हरियाणा / Haryana	2,789	2,710	-79	-2.8	34,552	32,626	-1,926	-5.6
हिमाचल प्रदेश / Himachal Pradesh	642	637	-5	-0.8	7,626	7,364	-262	-3.4
जम्मू कश्मीर / Jammu & Kashmir	1,225	913	-312	-25.5	13,571	10,181	-3,390	-25.0
पंजाब / Punjab	3,259	3,147	-112	-3.4	44,484	41,799	-2,685	-6.0
राजस्थान / Rajasthan	4,426	4,404	-22	-0.5	45,261	44,836	-425	-0.9
उत्तर प्रदेश / Uttar Pradesh	6,478	5,833	-645	-10.0	76,292	64,846	-11,446	-15.0
उत्तराखंड / Uttarakhand	832	808	-24	-2.9	9,850	9,255	-595	-6.0
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>21,522</b>	<b>20,321</b>	<b>-1,201</b>	<b>-5.6</b>	<b>258,780</b>	<b>237,985</b>	<b>-20,795</b>	<b>-8.0</b>
छत्तीसगढ़ / Chhattisgarh	1,112	1,090	-22	-2.0	10,340	10,165	-175	-1.7
गुजरात / Gujarat	6,456	6,356	-100	-1.5	71,651	67,534	-4,117	-5.7
मध्य प्रदेश / Madhya Pradesh	4,517	3,579	-938	-20.8	48,437	38,644	-9,793	-20.2
महाराष्ट्र / Maharashtra	12,498	10,479	-2,019	-16.2	128,296	107,018	-21,278	-16.6
दमन और दिउ / Daman & Diu	189	170	-19	-10.1	2,181	1,997	-184	-8.4
दादर व नगर हवेली / Dadra & Nagar Haveli	369	368	-1	-0.3	4,429	4,424	-5	-0.1
गोवा / Goa	295	279	-16	-5.4	3,154	3,089	-65	-2.1
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>25,436</b>	<b>22,321</b>	<b>-3,115</b>	<b>-12.2</b>	<b>268,488</b>	<b>232,871</b>	<b>-35,617</b>	<b>-13.3</b>
आन्ध्र प्रदेश / Andhra Pradesh	8,137	7,899	-238	-2.9	78,970	76,450	-2,520	-3.2
कर्नाटक / Karnataka	5,496	5,016	-480	-8.7	50,474	46,624	-3,850	-7.6
केरल / Kerala	1,739	1,707	-32	-1.8	18,023	17,767	-256	-1.4
तमिल नाडु / Tamil Nadu	7,524	6,884	-640	-8.5	80,314	75,101	-5,213	-6.5
पुदुचेरी / Puducherry	192	190	-2	-1.0	2,123	2,039	-84	-4.0
लक्षद्वीप / Lakshadweep #	3	3	0	0	25	25	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>23,088</b>	<b>21,696</b>	<b>-1,392</b>	<b>-6.0</b>	<b>229,904</b>	<b>217,981</b>	<b>-11,923</b>	<b>-5.2</b>
बिहार / Bihar	909	773	-136	-15.0	12,384	10,772	-1,612	-13.0
दामोदर घाटी निगम / DVC	1,409	1,277	-132	-9.4	16,590	15,071	-1,519	-9.2
झारखण्ड / Jharkhand	529	486	-43	-8.1	6,195	5,985	-210	-3.4
उड़ीसा / Orissa	2,023	2,020	-3	-0.1	22,506	22,449	-57	-0.3
पश्चिम बंगाल / West Bengal	3,210	3,197	-13	-0.4	36,481	35,847	-634	-1.7
सिक्किम / Sikkim	39	39	0	0.0	402	402	0	0.0
अंडमान- निकोबार / Andaman- Nicobar #	20	15	-5	-25	240	180	-60	-25.0
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>8,119</b>	<b>7,792</b>	<b>-327</b>	<b>-4.0</b>	<b>94,558</b>	<b>90,526</b>	<b>-4,032</b>	<b>-4.3</b>
अरुणाचल प्रदेश / Arunachal Pradesh	47	41	-6	-12.8	511	436	-75	-14.7
असम / Assam	434	417	-17	-3.9	5,403	5,063	-340	-6.3
मणीपुर / Manipur	44	39	-5	-11.4	568	505	-63	-11.1
मेघालय / Meghalaya	138	125	-13	-9.4	1,545	1,352	-193	-12.5
मिजोरम / Mizoram	35	31	-4	-11.4	369	315	-54	-14.6
नागालैण्ड / Nagaland	42	37	-5	-11.9	583	520	-63	-10.8
त्रिपुरा / Tripura	71	68	-3	-4.2	882	801	-81	-9.2
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>811</b>	<b>758</b>	<b>-53</b>	<b>-6.5</b>	<b>9,861</b>	<b>8,992</b>	<b>-869</b>	<b>-8.8</b>
<b>सम्पूर्ण भारत / All India</b>	<b>78,976</b>	<b>72,888</b>	<b>-6,088</b>	<b>-7.7</b>	<b>861,591</b>	<b>788,355</b>	<b>-73,236</b>	<b>-8.5</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability.

**Appx-2-10 Electricity Supply Position (Energy March 2012)**

**विद्युत आपूर्ति स्थिति (संशोधित) / Power Supply Position (Revised)**

ऑकडे मिलियन युनिट नेट / Figures in MU net

राज्य / State	मार्च, 2012 / March, 2012				अप्रैल, 2011 - मार्च, 2012 / April, 2011 to March, 2012			
	आवश्यकता Requirement (MU)	उपलब्धता Availability (MU)	अधिशेष Surplus / Deficit (-) (MU)	कमी (-) (%)	आवश्यकता Requirement (MU)	उपलब्धता Availability (MU)	अधिशेष Surplus / Deficit (-) (MU)	कमी (-) (%)
<b>प्रणाली / System</b>								
<b>क्षेत्र / Region</b>								
चंडीगढ़ / Chandigarh	109	109	0	0.0	1,568	1,564	-4	-0.3
दिल्ली / Delhi	1,747	1,745	-2	-0.1	26,751	26,674	-77	-0.3
हरियाणा / Haryana	2,824	2,813	-11	-0.4	36,874	35,541	-1,333	-3.6
हिमाचल प्रदेश / Himachal Pradesh	688	688	0	0.0	8,161	8,107	-54	-0.7
जम्मू कश्मीर / Jammu & Kashmir*	1,326	994	-332	-25.0	14,250	10,889	-3,361	-23.6
पंजाब / Punjab	3,259	3,193	-66	-2.0	45,191	43,792	-1,399	-3.1
राजस्थान / Rajasthan	4,937	4,820	-117	-2.4	51,474	49,491	-1,983	-3.9
उत्तर प्रदेश / Uttar Pradesh	6,985	6,226	-759	-10.9	81,339	72,116	-9,223	-11.3
उत्तराखंड / Uttarakhand	884	853	-31	-3.5	10,513	10,208	-305	-2.9
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>22,759</b>	<b>21,441</b>	<b>-1,318</b>	<b>-5.8</b>	<b>276,121</b>	<b>258,382</b>	<b>-17,739</b>	<b>-6.4</b>
छत्तीसगढ़ / Chhattisgarh	1,492	1,479	-13	-0.9	15,013	14,615	-398	-2.7
गुजरात / Gujarat	6,665	6,649	-16	-0.2	74,696	74,429	-267	-0.4
मध्य प्रदेश / Madhya Pradesh	4,355	3,457	-898	-20.6	49,785	41,392	-8,393	-16.9
महाराष्ट्र / Maharashtra	11,692	10,381	-1,311	-11.2	141,382	117,722	-23,660	-16.7
दमन और दिउ / Daman & Diu	158	139	-19	-12.0	2,141	1,915	-226	-10.6
दादर व नगर हवेली / Dadra & Nagar Haveli	312	311	-1	-0.3	4,380	4,349	-31	-0.7
गोवा / Goa	247	240	-7	-2.8	3,024	2,981	-43	-1.4
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>24,921</b>	<b>22,656</b>	<b>-2,265</b>	<b>-9.1</b>	<b>290,421</b>	<b>257,403</b>	<b>-33,018</b>	<b>-11.4</b>
आन्ध्र प्रदेश / Andhra Pradesh	9,634	8,221	-1,413	-14.7	91,730	85,149	-6,581	-7.2
कर्नाटक / Karnataka	6,416	5,481	-935	-14.6	60,830	54,023	-6,807	-11.2
केरल / Kerala	1,933	1,888	-45	-2.3	19,890	19,467	-423	-2.1
तमिल नाडु / Tamil Nadu	7,952	5,980	-1,972	-24.8	85,685	76,705	-8,980	-10.5
पुदुचेरी / Puducherry	199	196	-3	-1.5	2,167	2,136	-31	-1.4
लक्ष्य द्वीप / Lakshadweep #	3	3	0	0	37	37	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>26,134</b>	<b>21,766</b>	<b>-4,368</b>	<b>-16.7</b>	<b>260,302</b>	<b>237,480</b>	<b>-22,822</b>	<b>-8.8</b>
बिहार / Bihar	1,260	1,090	-170	-13.5	14,311	11,260	-3,051	-21.3
दामोदर घाटी निगम / DVC	1,577	1,521	-56	-3.6	16,648	16,009	-639	-3.8
झारखण्ड / Jharkhand	599	532	-67	-11.2	6,280	6,030	-250	-4.0
उड़ीसा / Odisha	2,100	2,020	-80	-3.8	23,036	22,693	-343	-1.5
पश्चिम बंगाल / West Bengal	3,634	3,608	-26	-0.7	38,679	38,281	-398	-1.0
सिक्किम / Sikkim	36	35	-1	-2.8	390	384	-6	-1.5
अंडमान- निकोबार / Andaman- Nicobar #	21	21	0	0	244	204	-40	-16.4
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>9,206</b>	<b>8,806</b>	<b>-400</b>	<b>-4.3</b>	<b>99,344</b>	<b>94,657</b>	<b>-4,687</b>	<b>-4.7</b>
अरुणाचल प्रदेश / Arunachal Pradesh	48	46	-2	-4.2	600	553	-47	-7.8
असम / Assam	473	445	-28	-5.9	6,034	5,696	-338	-5.6
मणीपुर / Manipur	33	31	-2	-6.1	544	499	-45	-8.3
मेघालय / Meghalaya	162	116	-46	-28.4	1,927	1,450	-477	-24.8
मिजोरम / Mizoram	29	26	-3	-10.3	397	355	-42	-10.6
नागालैण्ड / Nagaland	35	32	-3	-8.6	560	511	-49	-8.8
त्रिपुरा / Tripura	78	75	-3	-3.8	949	900	-49	-5.2
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>858</b>	<b>771</b>	<b>-87</b>	<b>-10.1</b>	<b>11,011</b>	<b>9,964</b>	<b>-1,047</b>	<b>-9.5</b>
<b>सम्पूर्ण भारत / All India</b>	<b>83,878</b>	<b>75,440</b>	<b>-8,438</b>	<b>-10.1</b>	<b>937,199</b>	<b>857,886</b>	<b>-79,313</b>	<b>-8.5</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability.

\* Approximate

## Appx-2-11 Electricity Supply Position (Energy March 2013)

## विद्युत आपूर्ति स्थिति (संशोधित) / Power Supply Position (Revised)

ऑकड़े मिलियन युनिट नेट / Figures in MU net

राज्य / State	मार्च, 2013 / March, 2013				अप्रैल, 2012 - मार्च, 2013 / April, 2012 to March, 2013			
	आवश्यकता Requirement ( MU )	उपलब्धता Availability ( MU )	अधिशेष Surplus / Deficit (-) ( MU )	कमी (-) ( % )	आवश्यकता Requirement ( MU )	उपलब्धता Availability ( MU )	अधिशेष Surplus / Deficit (-) ( MU )	कमी (-) ( % )
<b>प्रणाली / System</b>								
<b>क्षेत्र / Region</b>								
चंडीगढ़ / Chandigarh	104	104	0	0.0	1,637	1,637	0	0.0
दिल्ली / Delhi	1,715	1,712	-3	-0.2	26,088	25,950	-138	-0.5
हरियाणा / Haryana	3,134	3,080	-54	-1.7	41,407	38,209	-3,198	-7.7
हिमाचल प्रदेश / Himachal Pradesh	723	718	-5	-0.7	8,992	8,744	-248	-2.8
जम्मू कश्मीर / Jammu & Kashmir	1,319	989	-330	-25.0	15,410	11,558	-3,852	-25.0
पंजाब / Punjab	2,872	2,848	-24	-0.8	48,724	46,119	-2,605	-5.3
राजस्थान / Rajasthan	5,218	5,208	-10	-0.2	55,538	53,868	-1,670	-3.0
उत्तर प्रदेश / Uttar Pradesh	7,709	6,388	-1,321	-17.1	91,647	76,446	-15,201	-16.6
उत्तराखंड / Uttarakhand	912	904	-8	-0.9	11,331	10,709	-622	-5.5
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>23,706</b>	<b>21,951</b>	<b>-1,755</b>	<b>-7.4</b>	<b>300,774</b>	<b>273,240</b>	<b>-27,534</b>	<b>-9.2</b>
छत्तीसगढ़ / Chhattisgarh	1,749	1,717	-32	-1.8	17,302	17,003	-299	-1.7
गुजरात / Gujarat	9,934	9,934	0	0.0	93,662	93,513	-149	-0.2
मध्य प्रदेश / Madhya Pradesh	4,370	4,296	-74	-1.7	49,226	44,272	-4,954	-10.1
महाराष्ट्र / Maharashtra	10,924	10,643	-281	-2.6	123,984	119,972	-4,012	-3.2
दमन और दिउ / Daman & Diu	193	193	0	0.0	1,991	1,860	-131	-6.6
दादर व नगर हवेली / Dadra & Nagar Haveli	429	426	-3	-0.7	4,572	4,399	-173	-3.8
गोवा / Goa	316	316	0	0.0	3,181	3,107	-74	-2.3
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>27,915</b>	<b>27,525</b>	<b>-390</b>	<b>-1.4</b>	<b>293,918</b>	<b>284,126</b>	<b>-9,792</b>	<b>-3.3</b>
आन्ध्र प्रदेश / Andhra Pradesh	9,623	7,648	-1,975	-20.5	99,692	82,171	-17,521	-17.6
कर्नाटक / Karnataka	6,366	5,234	-1,132	-17.8	66,274	57,044	-9,230	-13.9
केरल / Kerala	1,915	1,854	-61	-3.2	21,243	20,391	-852	-4.0
तमिल नाडु / Tamil Nadu	8,242	6,643	-1,599	-19.4	92,302	76,161	-16,141	-17.5
पुदुचेरी / Puducherry	204	203	-1	-0.5	2,331	2,291	-40	-1.7
लक्ष्य द्वीप / Lakshadweep #	3	3	0	0.0	36	36	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>26,350</b>	<b>21,582</b>	<b>-4,768</b>	<b>-18.1</b>	<b>281,842</b>	<b>238,058</b>	<b>-43,784</b>	<b>-15.5</b>
बिहार / Bihar	1,323	1,076	-247	-18.7	15,409	12,835	-2,574	-16.7
दामोदर घाटी निगम / DVC	1,431	1,386	-45	-3.1	17,299	16,339	-960	-5.5
झारखण्ड / Jharkhand	626	617	-9	-1.4	7,042	6,765	-277	-3.9
उड़ीसा / Odisha	2,110	2,104	-6	-0.3	25,155	24,320	-835	-3.3
पश्चिम बंगाल / West Bengal	3,843	3,828	-15	-0.4	42,143	41,842	-301	-0.7
सिक्किम / Sikkim	34	34	0	0.0	409	409	0	0.0
अंडमान- निकोबार / Andaman- Nicobar #	20	15	-5	-25	241	186	-55	-22.8
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>9,367</b>	<b>9,045</b>	<b>-322</b>	<b>-3.4</b>	<b>107,457</b>	<b>102,510</b>	<b>-4,947</b>	<b>-4.6</b>
अरुणाचल प्रदेश / Arunachal Pradesh	41	39	-2	-4.9	589	554	-35	-5.9
असम / Assam	501	447	-54	-10.8	6,495	6,048	-447	-6.9
मणीपुर / Manipur	43	40	-3	-7.0	574	543	-31	-5.4
मेघालय / Meghalaya	160	147	-13	-8.1	1,828	1,607	-221	-12.1
मिजोरम / Mizoram	35	33	-2	-5.7	406	378	-28	-6.9
नागालैण्ड / Nagaland	44	41	-3	-6.8	567	535	-32	-5.6
त्रिपुरा / Tripura	94	89	-5	-5.3	1,108	1,054	-54	-4.9
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>918</b>	<b>836</b>	<b>-82</b>	<b>-8.9</b>	<b>11,566</b>	<b>10,718</b>	<b>-848</b>	<b>-7.3</b>
<b>सम्पूर्ण भारत / All India</b>	<b>88,256</b>	<b>80,939</b>	<b>-7,317</b>	<b>-8.3</b>	<b>995,557</b>	<b>908,652</b>	<b>-86,905</b>	<b>-8.7</b>

# Lakshadweep and Andaman &amp; Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability.

\* Revised due to inadvertent error in calculation of energy availability and requirement figures of Madhya Pradesh in December, 2012 by WRPC. These were reported on Jan 24 2014 by WRPC.



Appx-2-12 Electricity Supply Position (Energy March 2014)

**विद्युत आपूर्ति स्थिति (संशोधित) / Power Supply Position (Revised)**

ऑकड़े मिलियन युनिट नेट / Figures in MU net

राज्य / State	मार्च, 2014 / March, 2014				अप्रैल, 2013 - मार्च, 2014 / April, 2013 to March, 2014			
	आवश्यकता Requirement ( MU )	उपलब्धता Availability ( MU )	अधिशेष Surplus / Deficit (-) ( MU )	कमी (-) ( % )	आवश्यकता Requirement ( MU )	उपलब्धता Availability ( MU )	अधिशेष Surplus / Deficit (-) ( MU )	कमी (-) ( % )
<b>प्रणाली / System</b>								
<b>क्षेत्र / Region</b>								
चंडीगढ़ / Chandigarh	100	100	0	0.0	1,574	1,574	0	0.0
दिल्ली / Delhi	1,791	1,785	-6	-0.3	26,867	26,791	-76	-0.3
हरियाणा / Haryana	2,837	2,826	-11	-0.4	43,463	43,213	-250	-0.6
हिमाचल प्रदेश / Himachal Pradesh	742	735	-7	-0.9	9,089	8,883	-206	-2.3
जम्मू कश्मीर / Jammu & Kashmir	1,377	1,102	-275	-20.0	15,613	12,187	-3,426	-21.9
पंजाब / Punjab	2,834	2,821	-13	-0.5	47,821	47,084	-737	-1.5
राजस्थान / Rajasthan	5,220	5,208	-12	-0.2	58,202	58,042	-160	-0.3
उत्तर प्रदेश / Uttar Pradesh	7,664	6,926	-738	-9.6	94,890	81,613	-13,277	-14.0
उत्तराखंड / Uttarakhand	961	941	-20	-2.1	11,944	11,493	-451	-3.8
<b>उत्तरी क्षेत्र / Northern Region</b>	<b>23,526</b>	<b>22,444</b>	<b>-1,082</b>	<b>-4.6</b>	<b>309,463</b>	<b>290,880</b>	<b>-18,583</b>	<b>-6.0</b>
छत्तीसगढ़ / Chhattisgarh	1,698	1,690	-8	-0.5	18,932	18,800	-132	-0.7
गुजरात / Gujarat	7,042	7,042	0	0.0	88,497	88,488	-9	0.0
मध्य प्रदेश / Madhya Pradesh	4,296	4,295	-1	0.0	49,410	49,385	-25	-0.1
महाराष्ट्र / Maharashtra	11,038	10,772	-266	-2.4	126,288	123,672	-2,616	-2.1
दमन और दिउ / Daman & Diu	182	182	0	0.0	2,252	2,252	0	0.0
दादर व नगर हवेली / Dadra & Nagar Haveli	406	406	0	0.0	5,390	5,388	-2	0.0
गोवा / Goa	401	399	-2	-0.5	3,890	3,871	-19	-0.5
<b>पश्चिमी क्षेत्र / Western Region</b>	<b>25,063</b>	<b>24,786</b>	<b>-277</b>	<b>-1.1</b>	<b>294,659</b>	<b>291,856</b>	<b>-2,803</b>	<b>-1.0</b>
आन्ध्र प्रदेश / Andhra Pradesh	9,089	8,375	-714	-7.9	95,662	89,036	-6,626	-6.9
कर्नाटक / Karnataka	6,142	5,746	-396	-6.4	64,150	58,052	-6,098	-9.5
केरल / Kerala	2,060	2,050	-10	-0.5	21,577	21,052	-525	-2.4
तमिल नाडु / Tamil Nadu	8,468	8,016	-452	-5.3	93,508	87,980	-5,528	-5.9
पुडुचेरी / Puducherry	202	202	0	0.0	2,344	2,320	-24	-1.0
लक्ष्य द्वीप / Lakshadweep #	4	4	0	0	48	48	0	0
<b>दक्षिणी क्षेत्र / Southern Region</b>	<b>25,961</b>	<b>24,389</b>	<b>-1,572</b>	<b>-6.1</b>	<b>277,245</b>	<b>258,444</b>	<b>-18,801</b>	<b>-6.8</b>
बिहार / Bihar	1,308	1,279	-29	-2.2	15,391	14,759	-632	-4.1
दामोदर घाटी निगम / DVC	1,578	1,570	-8	-0.5	17,407	17,296	-111	-0.6
झारखण्ड / Jharkhand	603	598	-5	-0.8	7,143	7,007	-136	-1.9
ओडिशा / Odisha	2,222	2,183	-39	-1.8	24,958	24,546	-412	-1.7
पश्चिम बंगाल / West Bengal	3,846	3,838	-8	-0.2	42,891	42,762	-129	-0.3
सिक्किम / Sikkim	36	36	0	0.0	413	413	0	0.0
अंडमान- निकोबार / Andaman- Nicobar #	20	15	-5	-25	240	180	-60	-25.0
<b>पूर्वी क्षेत्र / Eastern Region</b>	<b>9,593</b>	<b>9,504</b>	<b>-89</b>	<b>-0.9</b>	<b>108,203</b>	<b>106,783</b>	<b>-1,420</b>	<b>-1.3</b>
अरुणाचल प्रदेश / Arunachal Pradesh	49	46	-3	-6.1	552	517	-35	-6.3
असम / Assam	602	560	-42	-7.0	7,544	7,062	-482	-6.4
मणीपुर / Manipur	50	47	-3	-6.0	579	548	-31	-5.4
मेघालय / Meghalaya	151	130	-21	-13.9	1,794	1,604	-190	-10.6
मिजोरम / Mizoram	35	33	-2	-5.7	446	430	-16	-3.6
नागालैण्ड / Nagaland	48	46	-2	-4.2	577	561	-16	-2.8
त्रिपुरा / Tripura	92	90	-2	-2.2	1,195	1,144	-51	-4.3
<b>उत्तर-पूर्वी क्षेत्र / North-Eastern Region</b>	<b>1,027</b>	<b>952</b>	<b>-75</b>	<b>-7.3</b>	<b>12,687</b>	<b>11,866</b>	<b>-821</b>	<b>-6.5</b>
<b>सम्पूर्ण भारत / All India</b>	<b>85,170</b>	<b>82,075</b>	<b>-3,095</b>	<b>-3.6</b>	<b>1,002,257</b>	<b>959,829</b>	<b>-42,428</b>	<b>-4.2</b>

# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and availability.

**Appx-2-13 Electricity Supply Position (Energy March 2015)**

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**REGIONWISE MONTHLY AND CUMULATIVE GROSS GENERATION DURING THE YEAR VIS-À-VIS THAT DURING CORRESPONDING PERIOD PREVIOUS YEAR**

Region	Actual Generation (MU) during March			Actual Generation (MU) during April - March		
	2015	2014	% Growth	2015	2014	% Growth
NORTHERN	19655.73	20460.71	-3.93	286363.15	270695.22	5.79
WESTERN	30183.44	29996.14	0.62	367783.4	322716.94	13.96
SOUTHERN	21246.13	19874.12	6.90	215865.4	205761.69	4.91
EASTERN	14539.28	13548.34	7.31	163018.77	152798.77	6.69
NORTH-EASTERN	651.9	707.55	-7.87	10634.5	9579.81	11.01
IMPORT FROM BHUTAN	61.32	50.58	21.23	5007.74	5597.9	-10.54
<b>TOTAL</b>	<b>86337.80</b>	<b>84637.44</b>	<b>2.01</b>	<b>1048672.96</b>	<b>967150.33</b>	<b>8.43</b>

**STATEWISE MONTHLY AND CUMULATIVE GROSS GENERATION DURING THE YEAR VIS-À-VIS THAT DURING CORRESPONDING PERIOD PREVIOUS YEAR**

Region	Actual Generation (MU) during March			Actual Generation (MU) during April - March		
	2015	2014	% Growth	2015	2014	% Growth
<b>NR</b>	<b>19655.73</b>	<b>20460.71</b>	<b>-3.93</b>	<b>286363.15</b>	<b>270695.22</b>	<b>5.79</b>
CHANDIGARH			0.00			0.00
DELHI	549.17	556.43	-1.30	8722.83	8637.67	0.99
HARYANA	1616.34	1388.11	16.44	28748.61	26374.22	9.00
HIMACHAL PRADESH	1094.76	868.9	25.99	23319.13	21680.66	7.56
JAMMU AND KASHMIR	1164.38	1085.3	7.29	14485.02	12426.79	16.56
PUNJAB	1242.05	1615.72	-23.13	22960.9	20731.49	10.75
RAJASTHAN	3954.98	4352.46	-9.13	54185.92	45851.36	18.18
UTTAR PRADESH	8717.94	9233.46	-5.58	111901.74	111843.01	0.05
UTTARAKHAND	728.12	581.13	25.29	11439.22	11025.01	3.76
BBMB	587.99	779.2	-24.54	10599.78	12125.01	-12.58
<b>WR</b>	<b>30183.44</b>	<b>29996.14</b>	<b>0.62</b>	<b>367783.4</b>	<b>322716.94</b>	<b>13.96</b>
CHHATTISGARH	6876.46	7055.82	-2.54	79710.57	70930.12	12.38
GOA	0	21.92	-100.00	12.61	241.32	-94.77
GUJARAT	8178.57	8283.87	-1.27	105538.54	97198.69	8.58
MADHYA PRADESH	6245.86	5772.45	8.20	75212.47	59646.87	26.10
MAHARASHTRA	8882.55	8862.08	0.23	107309.21	94699.94	13.31
<b>SR</b>	<b>21246.13</b>	<b>19874.12</b>	<b>6.90</b>	<b>215865.4</b>	<b>205761.69</b>	<b>4.91</b>
ANDHRA PRADESH	4424.46	4309.67	2.66	45245.42	45526.85	-0.62
KARNATAKA	4979.68	4872.25	2.20	50163.29	49364.51	1.62
KERALA	654.2	963.18	-32.08	8034.17	9249.8	-13.14
PUDUCHERRY	0	20.06	-100.00	102.14	256.97	-60.25
TAMIL NADU	7505.93	6063.73	23.78	71418.41	62210.69	14.80
TELANGANA	3681.86	3645.23		40901.97	39152.87	
<b>ER</b>	<b>14539.28</b>	<b>13548.34</b>	<b>7.31</b>	<b>163018.77</b>	<b>152798.77</b>	<b>6.69</b>
ANDAMAN NICOBAR	0	15.58	-100.00	153.76	171.49	-10.34
BIHAR	1850.04	1419.32	30.35	18272.27	14939.36	22.31
DVC	2189.24	2241.56	-2.33	25551.11	28115.29	-9.12
JHARKHAND	1220.66	1275.49	-4.30	14621.88	14345.18	1.93
ORISSA	4598.77	4344.64	5.85	51332.44	46212.19	11.08
SIKKIM	128.35	114.39	12.20	3345.29	2945.38	13.58
WEST BENGAL	4552.22	4137.36	10.03	49742.02	46069.88	7.97
<b>NER</b>	<b>651.9</b>	<b>707.55</b>	<b>-7.87</b>	<b>10634.5</b>	<b>9579.81</b>	<b>11.01</b>
ARUNACHAL PRADESH	27.1	39	-30.51	1109.48	980.94	13.10
ASSAM	288.8	271.56	6.35	4299.84	4365.22	-1.50
MANIPUR	13.1	33.8	-61.24	372.44	639.84	-41.79
MEGHALAYA	37.3	21.3	75.12	863.15	981.61	-12.07
NAGALAND	3.6	4.9	-26.53	165.15	245.71	-32.79
TRIPURA	282	336.99	-16.32	3824.44	2366.49	61.61
MIZORAM						
<b>IMPORT</b>	<b>61.32</b>	<b>50.58</b>	<b>21.23</b>	<b>5007.74</b>	<b>5597.9</b>	<b>-10.54</b>
Bhutan (IMP)	61.32	50.58	21.23	5007.74	5597.9	-10.54
<b>Grand Total</b>	<b>86337.8</b>	<b>84637.44</b>	<b>2.01</b>	<b>1048672.96</b>	<b>967150.33</b>	<b>8.43</b>

\* PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT

- Note:**
1. Generation from conventional sources (Thermal, Hydro and Nuclear) stations above 25 MW only.
  2. Figures given above indicate gross generation of all power stations(Central, State& Private Sector) located geographically in the respective State/UT.

**Appx-2-14 Electricity Supply Position (Energy March 2016)**

**REGIONWISE MONTHLY AND CUMULATIVE GROSS GENERATION DURING THE YEAR VIS-À-VIS  
THAT DURING CORRESPONDING PERIOD PREVIOUS YEAR**

Page 1 of 2

Region	Actual Generation (MU) during March			Actual Generation (MU) during April - March		
	2016	2015	% Growth	2016	2015	% Growth
	NORTHERN	20128.75	19655.73	2.41	283881.47	286363.15
WESTERN	37081.29	30183.44	22.85	407415.48	367783.4	10.78
SOUTHERN	22739.77	21246.13	7.03	225939.8	215865.4	4.67
EASTERN	15501.51	14539.28	6.62	172693.8	163018.77	5.93
NORTH-EASTERN	1006.76	651.9	54.43	12647.52	10634.5	18.93
IMPORT FROM BHUTAN	53.32	61.32	-13.05	5244.21	5007.74	4.72
<b>TOTAL</b>	<b>96511.40</b>	<b>86337.80</b>	<b>11.78</b>	<b>1107822.28</b>	<b>1048672.96</b>	<b>5.64</b>

**STATEWISE MONTHLY AND CUMULATIVE GROSS GENERATION DURING THE YEAR VIS-À-VIS  
THAT DURING CORRESPONDING PERIOD PREVIOUS YEAR**

Region		Actual Generation (MU) during March			Actual Generation (MU) during April - March		
		2016	2015	% Growth	2016	2015	% Growth
		<b>NR</b>		<b>20128.75</b>	<b>19655.73</b>	<b>2.41</b>	<b>283881.47</b>
	CHANDIGARH						
	DELHI	298.39	549.17	-45.67	6206.1	8722.83	-28.85
	HARYANA	1255.58	1616.34	-22.32	22247.14	28748.61	-22.61
	HIMACHAL PRADESH	913.65	1094.76	-16.54	27087.49	23319.13	16.16
	JAMMU AND KASHMIR	1148.23	1164.38	-1.39	15136.15	14485.02	4.50
	PUNJAB	1180.87	1242.05	-4.93	23342.89	22960.9	1.66
	RAJASTHAN	4681.62	3954.98	18.37	53947.35	54185.92	-0.44
	UTTAR PRADESH	9364.6	8717.94	7.42	111329.53	111901.74	-0.51
	UTTARAKHAND	599.34	728.12	-17.69	12765.92	11439.22	11.60
	BBMB	686.47	587.99	16.75	11818.9	10599.78	11.50
<b>WR</b>		<b>37081.29</b>	<b>30183.44</b>	<b>22.85</b>	<b>407415.48</b>	<b>367783.4</b>	<b>10.78</b>
	CHHATTISGARH	9215.35	6876.46	34.01	89513.29	79710.57	12.30
	GUJARAT	8890.11	8178.57	8.70	104917.26	105538.54	-0.59
	MADHYA PRADESH	8713.73	6245.86	39.51	95740.5	75212.47	27.29
	MAHARASHTRA	10262.1	8882.55	15.53	117244.43	107309.21	9.26
	GOA	0	0		0	12.61	-100.00
<b>SR</b>		<b>22739.77</b>	<b>21246.13</b>	<b>7.03</b>	<b>225939.8</b>	<b>215865.4</b>	<b>4.67</b>
	ANDHRA PRADESH	5972.98	4424.46	35.00	58230.59	45245.42	28.70
	TELANGANA	3696.32	3681.86	0.39	36868.2	40901.97	-9.86
	KARNATAKA	4339.32	4979.68	-12.86	47553.25	50163.29	-5.20
	KERALA	592.13	654.2	-9.49	6653.34	8034.17	-17.19
	TAMIL NADU	8116.93	7505.93	8.14	76406.83	71418.41	6.98
	PUDUCHERRY	22.09	0		227.59	102.14	122.82
	LAKSHADWEEP						
<b>ER</b>		<b>15501.51</b>	<b>14539.28</b>	<b>6.62</b>	<b>172693.8</b>	<b>163018.77</b>	<b>5.93</b>
	BIHAR	2125.01	1850.04	14.86	20827.01	18272.27	13.98
	DVC	2677.23	2189.24	22.29	28029.93	25551.11	9.70
	JHARKHAND	1497.24	1220.66	22.66	15933.67	14621.88	8.97
	ORISSA	5052.28	4598.77	9.86	57221.8	51332.44	11.47
	WEST BENGAL	3959.39	4552.22	-13.02	46946.62	49742.02	-5.62
	SIKKIM	171.26	128.35	33.43	3551.92	3345.29	6.18
	ANDAMAN NICOBAR	19.1	0		182.85	153.76	18.92
<b>NER</b>		<b>1006.76</b>	<b>651.9</b>	<b>54.43</b>	<b>12647.52</b>	<b>10634.5</b>	<b>18.93</b>
	ARUNACHAL PRADESH	49.09	27.1	81.14	1280.25	1109.48	15.39
	ASSAM	403.14	288.8	39.59	4522.12	4299.84	5.17
	MANIPUR	15.79	13.1	20.53	536.64	372.44	44.09
	MEGHALAYA	34.87	37.3	-6.51	1035.99	863.15	20.02
	MIZORAM						
	NAGALAND	3.35	3.6	-6.94	163.14	165.15	-1.22
	TRIPURA	500.52	282	77.49	5109.38	3824.44	33.60
<b>IMPORT</b>		<b>53.32</b>	<b>61.32</b>	<b>-13.05</b>	<b>5244.21</b>	<b>5007.74</b>	<b>4.72</b>
	Bhutan (IMP)	53.32	61.32	-13.05	5244.21	5007.74	4.72
<b>Grand Total</b>		<b>96511.4</b>	<b>86337.8</b>	<b>11.78</b>	<b>1107822.28</b>	<b>1048672.96</b>	<b>5.64</b>

Note: 1. Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.

2. Figures given above indicate gross generation of all power stations (Central, State & Private Sector) located geographically in the respective State/UT.

Appx-2-15 Generation Installed Capacity (March 2012)

**1. HIGHLIGHTS OF POWER SECTOR**

**a Installed Generation Capacity (As on 31-03-12)**

All India	Thermal				Nuclear	Hydro (Renewable)	RES@ (MNRE)	Grand Total
	Coal	Gas	Diesel	Total				
MW	112022.38	18381.05	1199.75	131603.18	4780.00	38990.40	24503.45	199877.03
%age	56.0	9.2	0.6	65.8	2.4	19.5	12.3	100.0

@ Based on data as on 31.03.2012.

**b Capacity Addition Target during 11th Plan**

	Hydro	Thermal	Nuclear	Total
MW	15627	59693	3380	78700
%age	19.9	75.8	4.3	100.0

**c Generation Capacity Addition Target/Achievement (2011-12)**

	Hydro	Thermal	Nuclear	Total
<b>Target (MW)</b>	1990.0	13611.0	2000.0	17601.0
<b>Achievement up to Mar.,12 (MW)</b>	1423.0	19078.7	0.0	20501.7
<b>%age</b>	71.5	140.2	0.0	116.5

**d Electricity Generation Target/achievement (2011-12)**

	Hydro	Thermal	Nuclear	Bhutan (Imp)	Total
<b>Target MU</b>	112050	712234	25130	5586	855000
<b>Achievement up to Mar.,12 MU</b>	130511.5	708805.94	32286.56	5284.51	876888.48
<b>%age</b>	116.48	99.52	128.48	94.60	102.56

**e Status of CEA Concurrence to Hydro Schemes**

Period	Project report received	Carry forward from Prev. year	Under Prelim. Exam	Accepted for concurrence	Concurrence given by CEA	Project reports returned to Developer
2007-08	13	-	-	3	4	10
2008-09	8	3	-	1	4	5
2009-10	19	10	2	9	3	6
2010-11	22	20	3	7	7	20
2011-12	20	21	-	14	6	6

**f All India Thermal PLF (%)**

2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
72.7	74.8	73.6	76.8	78.6	77.2	77.48	75.07	73.32

Appx-2-16 Generation Installed Capacity (March 2013)

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**Government Of India  
Ministry of Power  
Central Electricity Authority  
New Delhi**

**Executive Summary  
Power Sector  
Mar-14**



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**Government Of India  
Ministry of Power  
Central Electricity Authority  
New Delhi**

**Executive Summary  
Power Sector  
March-15**



**Government Of India  
Ministry of Power  
Central Electricity Authority  
New Delhi**

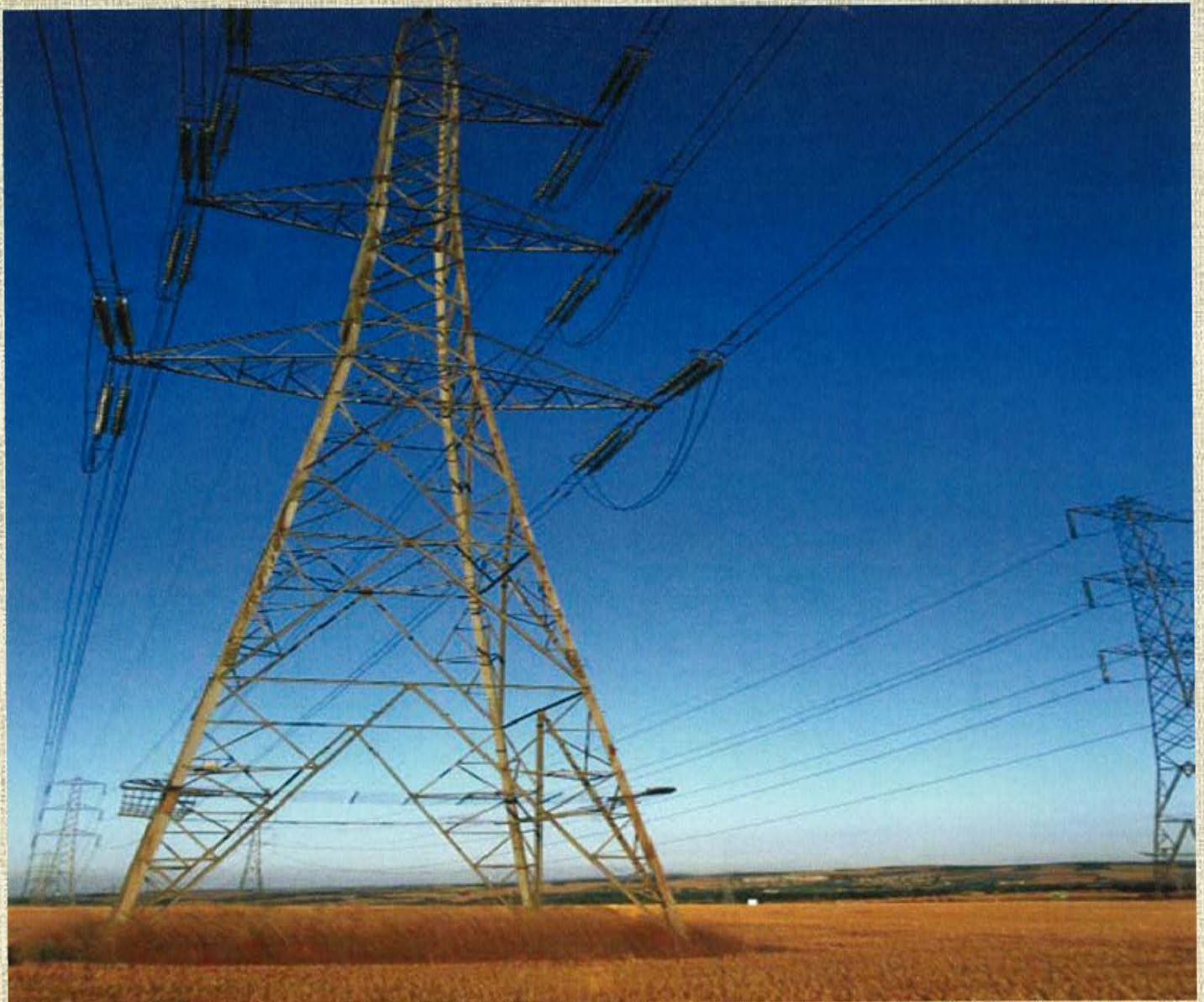
**Executive Summary  
Power Sector  
March-16**





# ENERGY STATISTICS

## 2011



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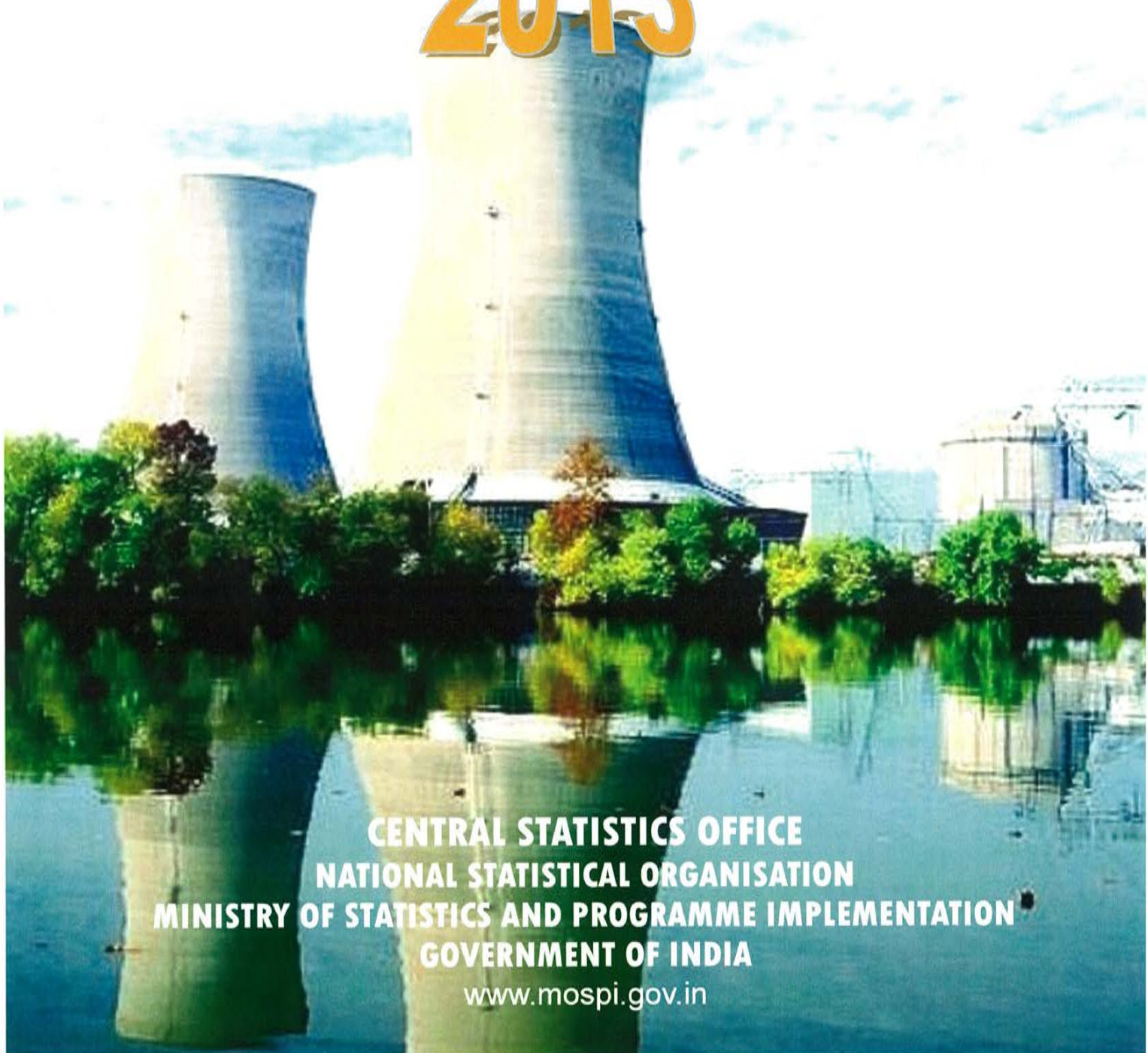
# ENERGY STATISTICS 2012

Appx-2-21 Energy Statistics 2012

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# ENERGY STATISTICS 2013

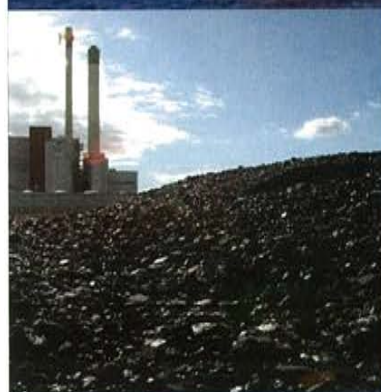


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2014

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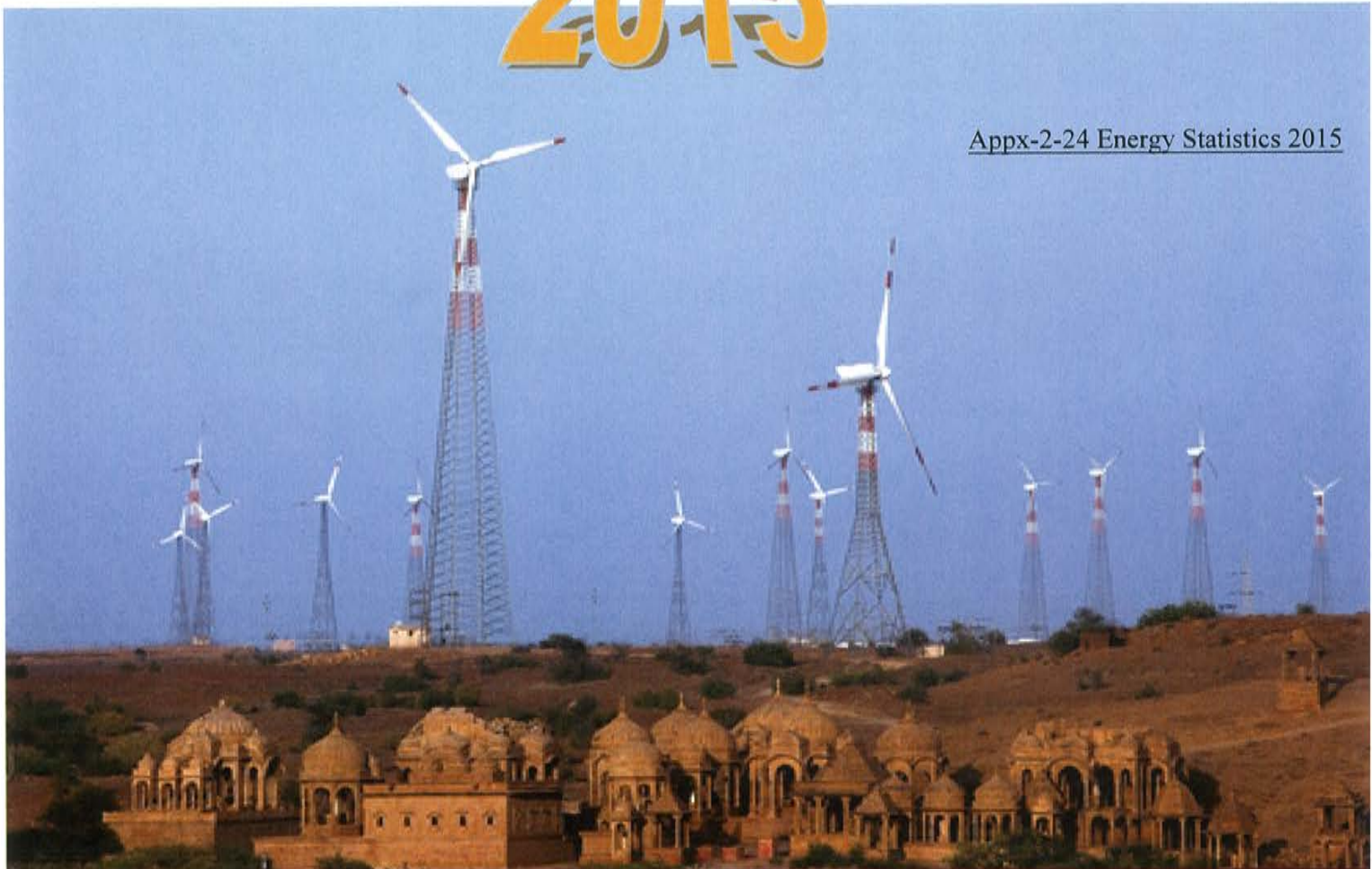
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# ENERGY STATISTICS 2015

Appx-2-24 Energy Statistics 2015

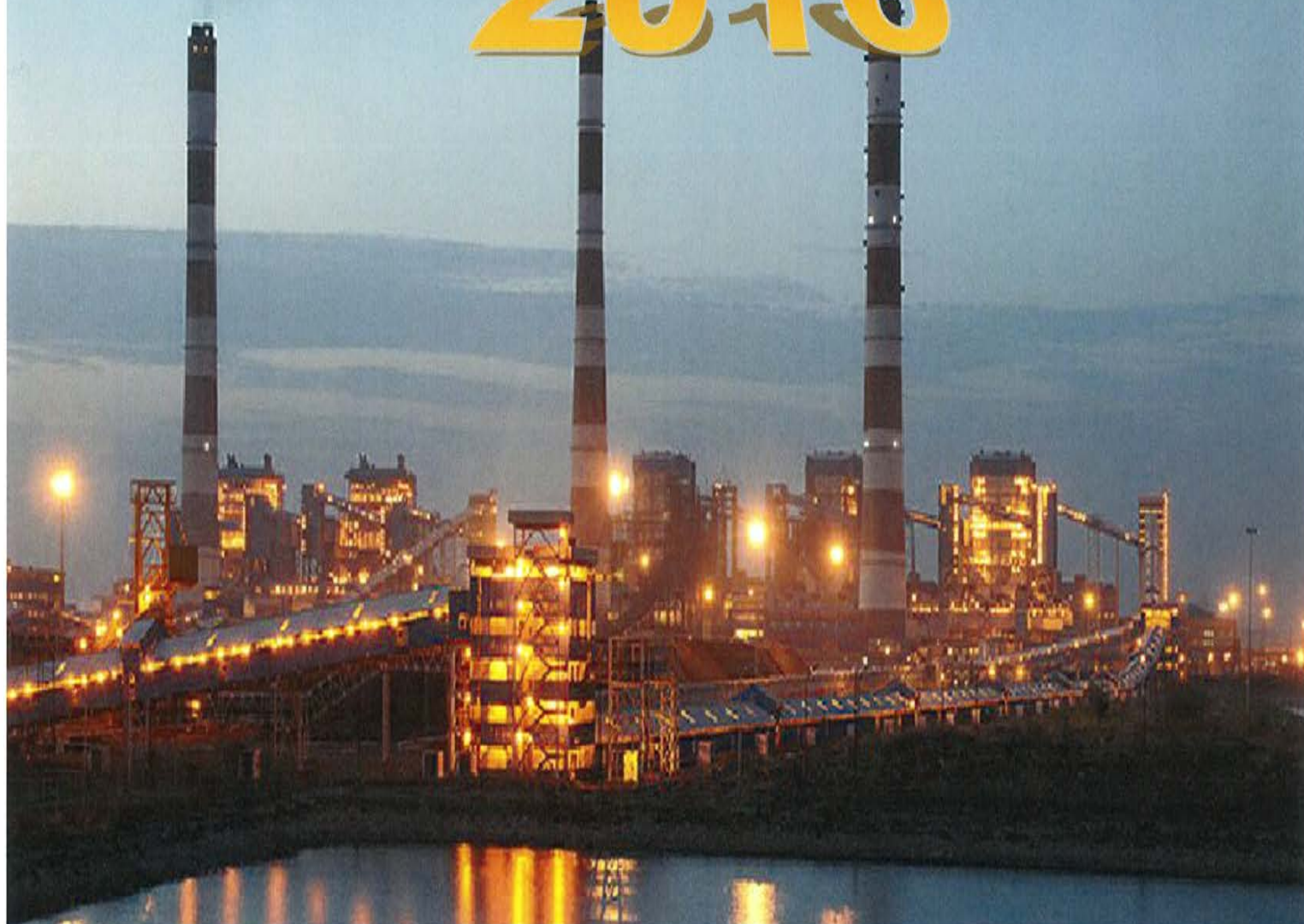


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# ENERGY STATISTICS 2016



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CENTRAL ELECTRICITY AUTHORITY  
G O & D WING  
OPERATION PERFORMANCE MONITORING DIVISION  
ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR

PERIOD : MAR-2010  
DATE : 23-Apr-10

AN OVERVIEW

1.SUMMARY - ALL INDIA

Category	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2010			APRIL 2009 - MAR-2010			MAR-2010				APRIL 2009 - MAR-2010					
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
THERMAL	101761.65	648479.58	59206.42	60094.68	56502.72	101.50	106.36	648479.58	640876.47	590100.77	98.83	108.60	78.68	81.89	85.33	77.17	77.53	77.27
NUCLEAR	4340.00	19000.00	1882.00	1974.50	1354.98	104.91	145.72	19000.00	18636.44	14712.59	98.09	126.67	54.05	61.15	44.20	50.30	51.08	40.77
HYDRO	38143.79	115468.00	7349.00	8301.70	7117.57	112.96	116.64	115468.00	106679.62	113080.86	92.39	94.34						
BHUTAN IMP	0.00	6564.00	187.00	106.48	82.09	56.94	129.71	6564.00	5358.57	5899.10	81.64	90.84						
<b>TOTAL</b>	<b>144245.44</b>	<b>789511.58</b>	<b>68624.42</b>	<b>70477.36</b>	<b>65057.36</b>	<b>102.70</b>	<b>108.33</b>	<b>789511.58</b>	<b>771551.10</b>	<b>723793.32</b>	<b>97.73</b>	<b>106.60</b>						

NOTE:  
PLF FOR THERMAL STATIONS IS FOR COAL / LIGNITE BASED STATIONS ONLY  
PLF FOR GAS / LIQUID BASED STATIONS GIVEN SEPARATELY  
Actual generation includes generation from hydro stations less than 25 MW also.

**CENTRAL ELECTRICITY AUTHORITY  
G O & D WING  
OPERATION PERFORMANCE MONITORING DIVISION  
ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR  
AN OVERVIEW**

PERIOD : MAR-2011  
DATE : 25-Apr-11

1.SUMMARY - ALL INDIA

Category	Monitored Capacity (MW)	Target Apr 2010 to Mar 2011	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2011			APRIL 2010 - MAR-2011			MAR-2011				APRIL 2010 - MAR-2011					
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
THERMAL	111527.42	690856.50	64435.57	63248.73	60066.94	98.16	105.30	690856.50	665008.13	640537.43	96.26	103.82	73.28	82.51	82.61	72.07	75.08	77.68
NUCLEAR	4780.00	22000.00	2022.00	2952.08	1974.50	146.00	149.51	22000.00	26266.40	18636.44	119.39	140.94	58.07	83.01	61.15	55.63	65.40	51.08
HYDRO #	37467.40	111352.00	7524.18	9273.33	8045.83	123.25	115.26	111352.00	114257.36	103896.27	102.61	109.97						
BHUTAN IMP	0.00	6548.00	166.64	61.92	106.48	37.16	58.15	6548.00	5610.90	5358.57	85.69	104.71						
<b>TOTAL</b>	<b>153774.82</b>	<b>830756.50</b>	<b>74148.39</b>	<b>75536.06</b>	<b>70193.75</b>	<b>101.87</b>	<b>107.61</b>	<b>830756.50</b>	<b>811142.79</b>	<b>768428.71</b>	<b>97.64</b>	<b>105.56</b>						

NOTE :  
PLF FOR THERMAL STATIONS IS FOR COAL / LIGNITE BASED STATIONS ONLY  
PLF FOR GAS / LIQUID BASED STATIONS GIVEN SEPARATELY  
# Excludes generation from hydro stations upto 25 MW.



**CENTRAL ELECTRICITY AUTHORITY  
G O & D WING  
OPERATION PERFORMANCE MONITORING DIVISION  
ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR**

PERIOD : MAR-2012  
DATE : 30-Apr-12

1. SUMMARY - ALL INDIA

AN OVERVIEW

Category	Monitored Capacity (MW)	Target Apr 2011 to Mar 2012	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2012			APRIL 2011 - MAR-2012			MAR-2012			APRIL 2011 - MAR-2012			MAR-2012		APRIL 2011 - MAR-2012	
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
THERMAL	130843.92	712234.00	63984.00	66143.92	63248.73	103.38	104.58	712234.00	708805.94	665008.13	99.52	106.59	69.85	78.32	82.29	68.69	73.32	74.97
NUCLEAR	4780.00	25130.00	2126.00	2859.50	2952.08	134.50	96.86	25130.00	32286.56	26266.40	128.48	122.92	61.06	80.41	83.01	61.13	76.90	65.40
HYDRO	38990.40	112050.00	7856.53	8531.29	9273.33	108.59	92.00	112050.00	130509.52	114257.36	116.47	114.22						
BHUTAN IMP	0.00	5586.00	84.00	84.41	61.92	100.49	136.32	5586.00	5284.51	5610.90	94.60	94.18						
<b>TOTAL</b>	<b>174614.32</b>	<b>855000.00</b>	<b>74050.53</b>	<b>77619.12</b>	<b>75536.06</b>	<b>104.82</b>	<b>102.76</b>	<b>855000.00</b>	<b>876886.53</b>	<b>811142.79</b>	<b>102.56</b>	<b>108.11</b>						

NOTE:  
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**CENTRAL ELECTRICITY AUTHORITY  
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ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR**

PERIOD : MAR-2013

DATE : 01-May-13

AN OVERVIEW

1. SUMMARY - ALL INDIA

Category	Monitored Capacity (MW)	Target Apr 2012 to Mar 2013	GENERATION (GWH)												PLANT LOAD FACTOR (%)					
			MAR-2013			APRIL 2012 - MAR-2013			MAR-2013			APRIL 2012 - MAR-2013			MAR-2013		APRIL 2012 - MAR-2013			
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
THERMAL	150232.12	767275.00	71976.00	68801.76	66143.92	95.59	104.02	767275.00	760675.80	708805.94	99.14	107.32	71.60	71.99	78.16	69.95	69.93	73.47		
NUCLEAR	4780.00	35200.00	3462.00	2702.46	2859.50	78.06	94.51	35200.00	32866.11	32286.56	93.37	101.80	81.92	75.99	80.41	77.59	78.49	76.90		
HYDRO	39491.40	122045.00	7997.00	8771.86	8531.29	109.69	102.82	122045.00	113720.29	130509.52	93.18	87.14								
BHUTAN IMP	0.00	5480.00	167.00	57.20	84.41	34.25	67.76	5480.00	4794.50	5284.51	87.49	90.73								
<b>TOTAL</b>	<b>194503.52</b>	<b>930000.00</b>	<b>83602.00</b>	<b>80333.28</b>	<b>77619.12</b>	<b>96.09</b>	<b>103.50</b>	<b>930000.00</b>	<b>912056.70</b>	<b>876886.53</b>	<b>98.07</b>	<b>104.01</b>								

NOTE :  
PLF FOR THERMAL STATIONS IS FOR COAL / LIGNITE BASED STATIONS ONLY  
PLF FOR GAS / LIQUID BASED STATIONS GIVEN SEPARATELY  
Excludes generation from stations upto 25 MW.

CENTRAL ELECTRICITY AUTHORITY  
G O & D WING  
OPERATION PERFORMANCE MONITORING DIVISION  
ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR

PERIOD : MAR-2014  
DATE : 22-Apr-14

1. SUMMARY - ALL INDIA

AN OVERVIEW

Category	Monitored Capacity (MW)	Target Apr 2013 to Mar 2014	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2014			APRIL 2013 - MAR-2014			MAR-2014				APRIL 2013 - MAR-2014		MAR-2014		APRIL 2013 - MAR-2014	
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
THERMAL	167865.42	812737.00	75219.00	72385.48	68801.76	96.23	105.21	812737.00	792477.11	760675.80	97.51	104.18	72.01	66.80	71.96	69.63	65.55	70.13
NUCLEAR	4780.00	35200.00	3202.00	3037.22	2702.46	94.85	112.39	35200.00	34227.79	32886.11	97.24	104.14	75.77	85.40	75.99	76.38	81.74	78.49
HYDRO	40523.74	122263.00	8232.00	9164.16	8771.86	111.32	104.47	122263.00	134847.52	113720.29	110.29	118.58						
BHUTAN IMP	0.00	4800.00	147.00	50.58	57.20	34.41	88.43	4800.00	5597.90	4794.50	116.62	116.76						
<b>TOTAL</b>	<b>213169.16</b>	<b>975000.00</b>	<b>86800.00</b>	<b>84637.44</b>	<b>80333.28</b>	<b>97.51</b>	<b>105.36</b>	<b>975000.00</b>	<b>967150.32</b>	<b>912056.70</b>	<b>99.19</b>	<b>106.04</b>						

NOTE:  
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Excludes generation from stations upto 25 MW.

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**OPERATION PERFORMANCE MONITORING DIVISION**  
**ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR**  
**AN OVERVIEW**

PERIOD : MAR-2015  
DATE : 01-May-15

1.SUMMARY - ALL INDIA

Category	Monitored Capacity (MW)	Target Apr 2014 to Mar 2015	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2015					APRIL 2014 - MAR-2015					MAR-2015		APRIL 2014 - MAR-2015			
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
THERMAL	188630.72	858603.00	78138.00	73807.22	72385.48	94.46	101.96	858603.00	878320.01	792477.11	102.30	110.83	68.23	61.02	66.76	65.52	64.46	65.56
NUCLEAR	5780.00	35300.00	3238.00	3825.12	3037.22	118.13	125.94	35300.00	36101.54	34227.79	102.27	105.47	75.30	88.95	85.40	74.08	80.74	81.74
HYDRO	41285.42	124297.00	8050.40	8644.15	9184.16	107.38	94.33	124297.00	129243.68	134847.52	103.98	95.84						
BHUTAN IMP	0.00	4800.00	147.00	61.32	50.58	41.71	121.23	4800.00	5007.74	5597.90	104.33	89.46						
<b>TOTAL</b>	<b>235696.14</b>	<b>1023000.0</b>	<b>89573.40</b>	<b>86337.81</b>	<b>84637.44</b>	<b>96.39</b>	<b>102.01</b>	<b>1023000.0</b>	<b>1048672.9</b>	<b>967150.32</b>	<b>102.51</b>	<b>108.43</b>						

NOTE :  
PLF FOR THERMAL STATIONS IS FOR COAL / LIGNITE BASED STATIONS ONLY  
PLF FOR GAS / LIQUID BASED STATIONS GIVEN SEPARATELY  
Excludes generation from stations upto 25 MW.

CENTRAL ELECTRICITY AUTHORITY  
G O & D WING  
OPERATION PERFORMANCE MONITORING DIVISION  
ENERGY GENERATION, PROGRAMME, AND PLANT LOAD FACTOR

PERIOD : MAR-2016  
DATE : 23-May-16

1. SUMMARY - ALL INDIA

AN OVERVIEW

Category	Monitored Capacity (MW)	Target Apr 2015 to Mar 2016	GENERATION (GWH)										PLANT LOAD FACTOR (%)							
			MAR-2016			APRIL 2015 - MAR-2016			MAR-2016			APRIL 2015 - MAR-2016			MAR-2016			APRIL 2015 - MAR-2016		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
THERMAL	210834.20	966700.00	87322.00	85885.19	73807.22	98.35	116.36	943787.70	878320.05	97.63	107.45	64.37	64.00	60.33	64.35	62.29	64.25			
NUCLEAR	5780.00	38000.00	3640.00	3587.72	3825.12	98.56	93.79	37413.62	36101.54	98.46	103.63	73.24	83.43	86.95	72.97	73.69	80.74			
HYDRO	42801.42	128000.00	8503.00	6985.17	8644.15	82.15	80.81	121376.75	129243.69	94.83	93.91									
BHUTAN IMP	0.00	4800.00	147.00	53.32	61.32	36.27	86.95	5244.21	5007.74	109.25	104.72									
<b>TOTAL</b>	<b>259415.62</b>	<b>1137500.00</b>	<b>99612.00</b>	<b>96511.40</b>	<b>86337.81</b>	<b>96.89</b>	<b>111.78</b>	<b>1107822.28</b>	<b>1048673.02</b>	<b>97.39</b>	<b>105.64</b>									

NOTE :  
PLF FOR THERMAL STATIONS IS FOR COAL / LIGNITE BASED STATIONS ONLY  
PLF FOR GAS / LIQUID BASED STATIONS GIVEN SEPARATELY  
Excludes generation from stations upto 25 MW.

Appx-2-33 Power Generation & PLF (All India by Sector March 2010)

SUB-REPORT 4 / PAGE 1

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2010 VIS-A-VIS MAR-2009 AND APR-MAR-2010 VIS-A-VIS APR-MAR-2009

2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2010					APRIL 2009 - MAR-2010					MAR-2010			APRIL 2009 - MAR-2010		
			PROGRAM	ACTUAL	ACTUAL MONTH 2008 - 09	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL PERIOD 2008 - 09	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09
<b>THERMAL</b>																		
<b>CENTRAL SECTOR</b>																		
ARAVALI	0.00																	
DVC	3400.00	20620.00	1292.45	1446.83	0.00	60.34	89.33	20620.00	14690.60	0.00	71.24	95.89	56.22	63.55	68.46	54.19	57.15	
K.B.U.N.L	220.00	577.00	47.88	45.64	84.00	104.91	577.00	460.58	225.59	79.82	204.17	34.82	29.25	27.88	29.94	23.90	11.71	
NEEPCO	375.00	2286.00	184.32	163.68	88.62	112.61	2286.00	2406.85	2431.43	105.29	98.99	77.65	79.52	95.52	72.68	80.94	72.28	
NLC	2490.00	16445.00	1473.15	1769.54	93.06	83.25	16445.00	17657.41	15765.68	107.37	112.00	77.65	79.52	95.52	72.68	80.94	72.28	
NSPCL	500.00	1328.24	374.23	82.90	248.51	451.42	1328.24	2418.38	95.24	182.07	2539.25	100.60	100.60	99.99	86.16	79.70	89.86	
NTPC	28912.23	210292.00	20145.02	20222.99	114.58	99.61	210292.00	218836.33	206913.93	104.06	105.76	81.46	94.73	99.99	86.16	90.58	89.86	
RGPL	2220.00	9600.00	1003.59	396.44	128.34	253.15	9600.00	8290.55	5208.53	86.36	159.17	89.36	89.36	95.33	82.66	85.49	84.30	
TOTAL CENTRAL SEC.	38117.23	261148.24	24520.64	24128.02	108.96	101.63	261148.24	287960.28	245961.09	101.38	102.67	80.12	89.36	95.33	82.66	85.49	84.30	
TOTAL STATE SEC.	48692.08	303192.47	26663.82	26274.06	95.09	101.48	303192.47	287960.28	280477.88	94.98	107.67	77.50	75.16	77.47	73.59	70.90	71.20	
TOTAL IPP SEC.	11087.34	57200.83	6402.76	3750.98	103.54	170.70	57200.83	61579.00	37485.41	107.65	164.27	74.05	94.33	94.33	69.01	85.68	81.04	
TOTAL PVT. UTL. SEC.	3865.00	26938.04	2507.46	2349.66	101.17	106.72	26938.04	26576.49	26176.40	98.66	101.53	86.13	86.16	96.29	81.52	82.41	91.04	
TOTAL THERMAL	101761.65	648479.58	60094.68	56502.72	101.50	106.36	648479.58	640876.47	590100.78	98.83	108.60	78.68	81.89	85.33	77.17	77.53	77.27	
<b>NUCLEAR</b>																		
<b>CENTRAL SECTOR</b>																		
NPC	4340.00	19000.00	1974.50	1354.98	1354.98	104.91	145.72	19000.00	18636.44	14712.59	98.09	126.67	61.15	44.20	50.30	51.08	40.77	
TOTAL CENTRAL SEC.	4340.00	19000.00	1974.50	1354.98	1354.98	104.91	145.72	19000.00	18636.44	14712.59	98.09	126.67	61.15	44.20	50.30	51.08	40.77	
TOTAL NUCLEAR	4340.00	19000.00	1974.50	1354.98	1354.98	104.91	145.72	19000.00	18636.44	14712.59	98.09	126.67	61.15	44.20	50.30	51.08	40.77	
<b>HYDRO</b>																		
<b>CENTRAL SECTOR</b>																		
BBMB	2866.30	10500.00	588.10	748.50	748.50	95.00	75.90	10500.00	9371.32	11109.07	89.25	84.36						
DVC	147.20	325.00	15.11	13.01	13.01	251.83	116.14	325.00	198.13	432.12	60.96	45.85						
NEEPCO	755.00	3001.00	85.22	62.87	62.87	74.75	135.55	3001.00	2150.49	2978.74	71.66	72.19						
NHDC	1520.00	3488.00	290.00	121.23	121.23	97.22	232.57	3488.00	3071.23	2367.49	88.05	129.73						
NHPC	3647.20	16675.00	1152.50	928.72	928.72	122.48	124.10	16675.00	16960.47	16690.92	101.71	101.61						
SJVNL	1500.00	6400.00	295.93	232.17	232.17	126.47	127.46	6400.00	7018.86	6608.76	109.67	106.21						
THDC	1000.00	2650.00	247.67	209.49	209.49	95.26	118.23	2650.00	2116.78	3172.32	74.27	66.73						
TOTAL CENTRAL SEC.	11435.70	43239.00	2646.47	2315.99	2315.99	108.33	114.27	43239.00	40887.28	43359.42	94.56	94.30						
TOTAL STATE SEC.	25292.64	67123.00	4592.06	4592.06	4592.06	117.27	117.27	67123.00	60313.36	64496.91	89.85	93.51						
TOTAL IPP SEC.	905.20	3558.00	132.19	100.15	100.15	77.30	131.99	3558.00	3943.67	4009.77	110.84	98.35						
TOTAL PVT. UTL. SEC.	510.25	1548.00	137.80	109.37	109.37	96.36	125.99	1548.00	1535.31	1214.76	99.18	126.39						
TOTAL HYDRO	38143.79	115468.00	8301.70	7117.57	7117.57	112.96	116.64	115468.00	106679.62	113080.86	92.39	94.34						
<b>BHUTAN IMP</b>																		
	0.00	6564.00	187.00	106.48	106.48	82.09	129.71	6564.00	5388.57	5899.00	81.64	90.84						

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2011 VIS-A-VIS MAR-2010 AND APR-MAR-2011 VIS-A-VIS APR-MAR-2010

2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2010 to Mar 2011	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2011					APRIL 2010 - MAR-2011					MAR-2011			APRIL 2010 - MAR-2011		
			PROGRAM	ACTUAL	ACTUAL MONTH 2009 - 10	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL PERIOD 2009 - 10	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL MONTH 2009 - 10	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>THERMAL</b>																		
<b>CENTRAL SECTOR</b>																		
APCPL	500.00	354.00	186.00	121.14	0.00	65.13	0.00	354.00	131.55	0.00	37.16	0.00	50.00	16.21	56.22	51.09	65.12	54.19
DVC	3790.00	21761.00	2619.40	1367.12	1292.45	52.19	105.78	21761.00	16549.86	14690.60	76.05	112.66	49.00	67.00	29.25	29.99	16.58	23.90
K.B.U.N.L	220.00	578.00	58.00	21.98	47.88	37.90	45.91	578.00	319.57	460.58	55.29	69.38	35.43	13.43				
NEEPCO.	375.00	2311.00	204.00	241.02	184.32	118.15	130.76	2311.00	2477.97	2406.85	107.23	102.95						
NLC	2740.00	17113.70	1673.80	1826.17	1473.15	109.10	123.96	17113.70	17879.32	17657.41	104.47	101.26	75.24	96.00	79.52	69.98	80.75	80.94
NSPCL	500.00	1314.00	111.60	344.77	374.23	308.93	92.13	1314.00	4017.92	2418.38	305.78	166.14	30.00	92.68	100.80	30.00	91.73	79.70
NTPC Ltd.	30402.23	216967.41	19082.68	20221.25	20145.02	105.97	100.38	216967.41	220522.18	218836.33	101.64	100.77	84.51	94.70	95.52	85.09	88.27	90.79
RGPL	2220.00	9600.00	800.00	990.90	1003.59	123.86	98.74	9600.00	11876.85	8290.55	123.72	143.26						
TOTAL CENTRAL SEC.	40747.23	269999.11	24735.48	25134.35	24520.64	101.61	102.50	269999.11	273775.22	264760.70	101.40	103.40	75.67	91.81	89.91	77.36	85.12	85.64
TOTAL STATE SEC.	50732.69	317092.64	29455.62	26997.50	26661.27	91.65	101.26	317092.64	280434.59	287930.92	88.44	97.40	74.75	75.91	76.21	71.42	66.72	71.13
TOTAL IPP SEC.	16182.50	76520.57	7872.30	9000.68	6377.57	114.33	141.13	76520.57	84473.17	61269.32	110.39	137.87	54.88	87.95	94.33	50.33	83.47	85.68
TOTAL PVT. UTL. SEC.	3865.00	27244.18	2372.17	2116.20	2507.46	89.21	84.40	27244.18	26325.15	26576.49	96.63	99.05	81.52	72.68	86.16	79.46	76.70	82.41
TOTAL THERMAL	111527.42	690856.50	64435.57	63248.73	60066.94	98.16	105.30	690856.50	665008.13	640537.43	96.26	103.82	73.28	82.51	82.61	72.07	75.08	77.68
<b>NUCLEAR</b>																		
<b>CENTRAL SECTOR</b>																		
NPC	4780.00	22000.00	2022.00	2952.08	1974.50	146.00	149.51	22000.00	26266.40	18636.44	119.39	140.94	58.07	83.01	61.15	55.63	65.40	51.08
TOTAL CENTRAL SEC.	4780.00	22000.00	2022.00	2952.08	1974.50	146.00	149.51	22000.00	26266.40	18636.44	119.39	140.94	58.07	83.01	61.15	55.63	65.40	51.08
TOTAL NUCLEAR	4780.00	22000.00	2022.00	2952.08	1974.50	146.00	149.51	22000.00	26266.40	18636.44	119.39	140.94	58.07	83.01	61.15	55.63	65.40	51.08
<b>HYDRO</b>																		
<b>CENTRAL SECTOR</b>																		
BBMB	2866.30	9275.00	543.00	899.26	568.10	165.61	158.29	9275.00	11273.43	9371.32	121.55	120.30						
DVC	143.20	315.00	7.00	2.84	13.28	40.57	21.39	315.00	115.00	188.35	36.51	61.06						
NEEPCO.	755.00	2787.00	148.18	110.65	85.22	74.67	129.84	2787.00	2603.19	2150.49	93.40	121.05						
NHDC	1520.00	3200.00	310.00	276.21	281.94	89.10	97.97	3200.00	3197.72	3071.23	99.93	104.12						
NHPC	3767.20	16668.00	1018.00	1302.60	1152.50	127.96	113.02	16668.00	18603.45	16960.47	111.61	109.69						
SJVNL	1500.00	6500.00	233.00	278.77	295.93	119.64	94.20	6500.00	7140.09	7018.86	109.85	101.73						
THDC	1100.00	2897.00	316.30	319.45	247.67	101.00	128.98	2897.00	3116.03	3116.78	107.56	147.21						
TOTAL CENTRAL SEC.	11651.70	41642.00	2575.48	3189.78	2644.64	123.85	120.61	41642.00	46048.91	40877.50	110.58	112.65						
TOTAL STATE SEC.	24356.70	63990.00	4626.08	5865.26	5158.12	126.79	113.71	63990.00	62866.96	57926.55	98.24	108.53						
TOTAL IPP SEC.	978.00	4092.00	181.62	86.68	111.01	47.73	78.08	4092.00	3974.46	3582.57	97.13	110.94						
TOTAL PVT. UTL. SEC.	481.00	1628.00	141.00	131.61	132.06	93.34	99.66	1628.00	1367.03	1509.65	83.97	90.55						
TOTAL HYDRO	37467.40	111352.00	7524.18	9273.33	8045.83	123.25	115.26	111352.00	114257.36	103896.27	102.61	109.97						
<b>BHUTAN IMP</b>																		
	0.00	6548.00	166.64	61.92	106.48	37.16	58.15	6548.00	5610.90	5359.00	85.89	104.70						

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2012 VIS-A-VIS MAR-2011 AND APR-MAR-2012 VIS-A-VIS APR-MAR-2011

2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2011 to Mar 2012	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2012					APRIL 2011 - MAR-2012					MAR-2012			APRIL 2011 - MAR-2012		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>THERMAL</b>																		
<b>CENTRAL SECTOR</b>																		
APCPL	1000.00	2196.00	186.00	0.00	121.14	0.00	0.00	2196.00	2421.61	131.55	110.27	1840.83	25.00	0.00		37.50	55.14	
DVC	5790.00	21493.00	2019.00	2011.47	1367.12	99.63	147.13	21493.00	19536.57	16549.86	90.90	118.05	48.81	72.52	67.00	46.29	65.62	65.12
K.B.U.NL	220.00	500.00	40.00	0.00	21.98	0.00	500.00	207.38	319.57	319.57	41.48	64.89	24.44	0.00	13.43	25.87	10.73	16.58
NEEPCO	375.00	2336.00	201.00	202.18	241.02	100.59	83.89	2336.00	2431.29	2477.97	104.08	98.12						
NLC	2990.00	17906.00	1740.00	1903.53	1826.17	109.40	104.24	17906.00	18759.37	17879.32	104.77	104.92	76.22	92.69	96.00	69.14	82.57	80.75
NSPCL	500.00	2840.00	250.00	372.67	344.77	149.07	108.09	2840.00	3977.95	4017.92	140.07	99.01	67.20	100.18	92.68	64.66	90.57	91.73
NTECL	500.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00						
NTPC Ltd.	32722.23	222813.00	19181.00	20954.99	20221.25	109.25	103.63	222813.00	222082.82	220522.18	99.67	100.71	81.00	91.73	94.70	81.18	85.05	88.27
RGPL	2220.00	9477.00	792.00	782.84	990.90	98.84	79.00	9477.00	11619.08	11876.85	122.60	97.83						
TOTAL CENTRAL SEC.	46317.23	279561.00	24409.00	26228.15	25134.35	107.45	104.35	279561.00	281036.34	273775.22	100.53	102.65	74.17	87.98	91.81	73.97	82.12	85.12
TOTAL STATE SEC.	54133.69	297818.00	27406.00	27194.11	26997.50	99.23	100.73	297818.00	296529.04	280434.59	99.70	105.88	68.68	72.99	76.01	65.42	68.00	66.75
TOTAL IPP SEC.	26528.00	108835.00	9849.00	10433.67	9000.68	105.94	115.92	108835.00	104821.58	84473.17	96.31	124.09	58.99	71.24	84.12	62.97	67.27	80.97
TOTAL PVT. UTL. SEC.	3865.00	26020.00	2320.00	2287.99	2116.20	98.82	108.12	26020.00	26018.98	26325.15	100.00	98.84	79.60	79.65	72.68	75.69	76.19	76.70
TOTAL THERMAL	130843.92	712234.00	63984.00	66143.92	63248.73	103.38	104.59	712234.00	708805.94	665008.13	99.52	106.59	69.85	78.32	82.29	68.69	73.32	74.97
<b>NUCLEAR</b>																		
<b>CENTRAL SECTOR</b>																		
NPC	4780.00	25130.00	2126.00	2859.50	2952.08	134.50	96.86	25130.00	32286.56	26266.40	128.48	122.92	61.06	80.41	83.01	61.13	76.90	65.40
TOTAL CENTRAL SEC.	4780.00	25130.00	2126.00	2859.50	2952.08	134.50	96.86	25130.00	32286.56	26266.40	128.48	122.92	61.06	80.41	83.01	61.13	76.90	65.40
<b>HYDRO</b>																		
<b>CENTRAL SECTOR</b>																		
BBMB	2866.30	10023.02	608.82	920.17	899.26	151.14	102.33	10023.02	12459.46	11273.43	124.31	110.52						
DVC	143.20	124.99	2.55	11.13	2.84	436.47	391.90	124.99	296.12	115.00	236.91	257.50						
NEEPCO	755.00	2627.00	133.28	61.30	110.85	45.99	55.40	2627.00	2378.09	2603.19	90.52	91.35						
NHDC	1520.00	3165.00	311.50	227.87	276.21	73.15	82.50	3165.00	4662.37	3197.72	147.31	145.80						
NHPC	3767.20	17104.01	1142.25	1197.70	1302.60	104.85	91.95	17104.01	18684.10	18603.45	109.24	100.43						
SJVNL	1500.00	6500.00	233.00	246.87	278.77	105.95	88.56	6500.00	7610.32	7140.09	117.08	106.59						
THDC	1400.00	3235.00	359.57	307.94	319.45	85.64	96.40	3235.00	4591.30	3116.03	141.93	147.34						
TOTAL CENTRAL SEC.	11951.70	42779.02	2790.97	2972.98	3189.78	106.52	93.20	42779.02	50681.76	46048.91	118.47	110.06						
TOTAL STATE SEC.	24479.70	61941.98	4538.95	5193.67	5865.26	114.42	88.55	61941.98	71023.69	62866.96	114.66	112.97						
TOTAL IPP SEC.	2078.00	5764.00	391.41	249.98	86.68	63.87	288.39	5764.00	7158.26	3974.46	124.19	180.11						
TOTAL PVT. UTL. SEC.	481.00	1565.00	135.20	114.66	131.61	84.81	87.12	1565.00	1647.76	1367.03	105.29	120.54						
TOTAL HYDRO	38990.40	112050.00	7856.53	8531.29	9273.33	108.59	92.00	112050.00	130511.47	114257.36	116.48	114.23						
<b>BHUTAN IMP</b>																		



2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2012 to Mar 2013	GENERATION (GWH)												PLANT LOAD FACTOR (%)					
			MAR-2013						APRIL 2012 - MAR-2013						MAR-2013			APRIL 2012 - MAR-2013		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011-12	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011-12	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011-12	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011-12		
<b>THERMAL</b>																				
<b>CENTRAL SECTOR</b>																				
APCPL	1500.00	5000.00	605.00	491.46	0.00	81.23	0.00	5000.00	5079.68	2421.61	101.59	209.76	54.21	52.88	0.00	57.00	57.86	55.14		
DVC	6290.00	28265.00	2587.00	2577.19	2011.47	99.62	128.12	28265.00	26077.88	19536.57	92.26	133.48	61.00	67.94	72.52	60.13	64.95	65.62		
K.B.U.N.L	220.00	400.00	55.00	0.00	0.00	0.00	400.00	0.00	0.00	207.38	0.00	0.00	33.60	0.00	20.76	0.00	0.00	10.73		
NEEPCO.	375.00	2372.00	204.00	219.86	202.18	107.77	108.74	2372.00	2313.06	2431.29	97.52	95.14	75.13	95.27	92.69	70.78	82.80	82.57		
NLC	2950.00	18403.00	1811.00	1942.15	1903.53	107.24	102.03	18403.00	19301.60	18759.37	108.14	106.09	75.13	95.27	100.18	87.12	92.00	90.57		
NSPCL	500.00	3816.00	346.00	318.84	372.87	92.15	85.56	3816.00	4029.76	3977.95	105.60	101.30	93.01	85.71	100.18	87.12	92.00	90.57		
NTECL	1000.00	354.00	177.00	231.48	0.47	130.78	49251.06	354.00	868.70	0.47	245.40	184829.7	47.58	62.23	50.00	50.00	48.88			
NTPC Ltd.	35882.23	232000.00	21173.00	20779.92	20954.99	98.14	99.16	232000.00	232014.80	222082.62	100.01	104.47	84.34	86.28	90.07	81.59	82.22	84.91		
ONGC	363.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
RGPL	2220.00	9795.00	909.00	5.68	782.84	0.62	0.73	9795.00	5127.36	11619.08	52.35	44.13	78.85	83.12	86.73	76.90	79.18	82.01		
TOTAL CENTRAL SEC.	51340.23	300405.00	27867.00	26566.58	26228.15	95.33	101.29	300405.00	295441.23	281036.34	98.35	105.13	78.85	83.12	86.73	76.90	79.18	82.01		
TOTAL STATE SEC.	56664.39	307358.00	28555.00	25323.67	27194.11	88.68	93.12	307358.00	291300.01	296929.04	94.78	98.10	69.89	66.06	73.45	66.64	65.54	68.35		
TOTAL IPP SEC.	38362.50	134190.00	13344.00	14784.92	10433.67	110.80	141.70	134190.00	148443.89	104821.58	110.62	141.62	65.30	65.43	71.24	62.95	62.16	67.27		
TOTAL PVT. UTL. SEC.	3865.00	25322.00	2210.00	2126.59	2287.99	96.23	92.95	25322.00	25490.67	26018.98	100.67	97.97	76.86	74.45	79.65	74.77	75.69	76.19		
TOTAL THERMAL NUCLEAR	150232.12	767275.00	71976.00	68801.76	66143.32	95.59	104.02	767275.00	760675.80	708805.94	99.14	107.32	71.60	71.99	78.16	69.95	69.93	73.47		
<b>CENTRAL SECTOR</b>																				
<b>NPCC</b>																				
NPCC	4780.00	35200.00	3462.00	2702.46	2859.50	78.06	94.51	35200.00	32866.11	32286.56	93.37	101.80	81.92	75.99	80.41	77.59	78.49	76.90		
TOTAL CENTRAL SEC.	4780.00	35200.00	3462.00	2702.46	2859.50	78.06	94.51	35200.00	32866.11	32286.56	93.37	101.80	81.92	75.99	80.41	77.59	78.49	76.90		
<b>HYDRO</b>																				
<b>CENTRAL SECTOR</b>																				
<b>BBMB</b>																				
BBMB	2866.30	10023.00	609.00	822.55	920.17	135.07	89.39	10023.00	10944.67	12459.46	109.20	87.84								
DVC	143.20	256.00	5.00	5.94	11.13	118.80	53.37	256.00	199.33	296.12	77.86	67.31								
NEEPCO.	755.00	2698.00	106.00	68.22	61.30	64.36	111.29	2698.00	2377.74	2378.09	88.13	99.99								
NHDC	1520.00	3384.00	340.00	339.96	227.87	99.99	149.19	3384.00	4203.92	4662.37	124.23	90.17								
NHPC	4141.20	19117.00	1227.00	1233.70	1197.70	100.55	103.01	19117.00	18893.49	18684.10	98.83	101.12								
SJVN	1500.00	6500.00	233.00	243.37	246.87	104.45	98.58	6500.00	6777.78	7610.32	104.27	89.06								
THDC	1400.00	3942.00	370.00	364.81	307.94	98.60	118.47	3942.00	4266.06	4591.30	108.22	92.92								
TOTAL CENTRAL SEC.	12325.70	45920.00	2890.00	3078.55	2972.98	106.52	103.55	45920.00	47662.99	50681.76	103.80	94.04								
TOTAL STATE SEC.	24536.70	65429.00	4669.00	5326.76	5193.67	114.09	102.56	65429.00	55853.71	71021.74	85.37	78.64								
TOTAL IPP SEC.	2182.00	9246.00	322.00	246.29	261.45	76.49	94.20	9246.00	8753.56	7274.95	94.67	120.32								
TOTAL PVT. UTL. SEC.	447.00	1450.00	116.00	120.26	103.19	103.67	116.54	1450.00	1450.03	1531.07	100.00	94.71								
TOTAL HYDRO	39491.40	122045.00	7997.00	8771.86	8531.29	109.69	102.82	122045.00	113720.29	130509.52	93.18	87.14								

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2014 VIS-A-VIS MAR-2013 AND APR-MAR-2014 VIS-A-VIS APR-MAR-2013

2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2013 to Mar 2014	GENERATION (GWH)												PLANT LOAD FACTOR (%)					
			MAR-2014			APRIL 2013 - MAR-2014			MAR-2014			APRIL 2013 - MAR-2014			MAR-2014			APRIL 2013 - MAR-2014		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>THERMAL</b>																				
<b>CENTRAL SECTOR</b>																				
APCPL	1500.00	7500.00	730.00	283.25	491.46	38.80	57.63	7500.00	5382.61	5079.68	71.77	105.96	65.41	25.38	52.68	57.08	41.46	57.86		
DVC	6290.00	33300.00	3182.00	2224.81	2577.19	69.92	86.33	33300.00	27889.66	26077.88	83.75	106.95	70.65	51.55	67.94	65.61	56.50	64.95		
K.B.U.NL	220.00	500.00	43.00	81.18	0.00	188.79	0.00	500.00	357.39	0.00	71.48	0.00	26.27	49.60	0.00	25.94	18.54	0.00		
NEEPCO	375.00	2327.00	192.00	186.52	219.86	97.15	84.84	2327.00	2368.08	2313.06	101.77	102.38								
NLC	2990.00	18818.00	1854.00	1913.44	1942.15	103.21	98.52	18818.00	19988.88	19901.60	106.22	100.44	83.34	93.13	95.27	73.37	83.19	82.80		
NLCTNEB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
NSPCL	500.00	3917.00	350.00	330.07	318.84	94.31	103.52	3917.00	3627.25	4029.76	92.60	90.01	94.09	88.73	85.71	89.43	82.81	92.00		
NTECL	1500.00	3893.00	485.00	423.30	231.48	87.28	182.87	3893.00	3996.72	868.70	100.10	448.57	65.19	56.90	62.23	59.31	54.67	48.88		
NTPC Ltd.	37032.23	235500.00	20776.00	21518.75	20779.92	103.58	103.56	235500.00	233268.23	232014.80	99.05	100.54	79.57	87.42	86.28	79.49	81.48	83.15		
NTPCIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
ONGC	363.30	793.00	135.00	210.50	0.00	155.93	0.00	793.00	996.55	28.39	125.67	3510.21								
RGFPL	2220.00	500.00	42.00	0.00	5.68	0.00	0.00	500.00	1506.29	5127.36	301.26	29.38								
TOTAL CENTRAL SEC.	52990.53	307048.00	27789.00	27171.82	26566.58	97.78	102.28	307048.00	299281.66	295441.23	97.47	101.30	77.77	79.89	83.12	75.93	76.11	79.86		
TOTAL STATE SEC.	60712.39	311211.00	29186.00	24825.64	25323.67	85.06	98.03	311211.00	276946.30	291300.01	88.99	95.07	71.82	60.08	66.07	67.94	59.06	65.54		
TOTAL IPP SEC.	50297.50	169396.00	16092.00	18556.58	14784.92	115.32	125.51	169396.00	193409.87	148443.89	114.18	130.29	63.96	61.05	65.43	62.46	61.42	62.16		
TOTAL PVT. UTL. SEC.	3865.00	25082.00	2152.00	1831.44	2126.59	85.10	86.12	25082.00	22839.28	25490.87	91.06	89.60	75.70	63.65	74.45	75.52	68.67	75.69		
TOTAL THERMAL	167865.42	812737.00	75219.00	72385.48	68801.76	96.23	105.21	812737.00	792477.11	760675.80	97.51	104.18	72.01	66.80	71.96	69.63	65.55	70.13		
<b>NUCLEAR</b>																				
<b>CENTRAL SECTOR</b>																				
NPC	4780.00	35200.00	3202.00	3037.22	2702.46	94.85	112.39	35200.00	34227.79	32866.11	97.24	104.14	75.77	85.40	75.99	76.38	81.74	78.49		
TOTAL CENTRAL SEC.	4780.00	35200.00	3202.00	3037.22	2702.46	94.85	112.39	35200.00	34227.79	32866.11	97.24	104.14	75.77	85.40	75.99	76.38	81.74	78.49		
<b>TOTAL NUCLEAR</b>																				
<b>HYDRO</b>																				
<b>CENTRAL SECTOR</b>																				
BBMB	2884.30	9665.00	620.00	779.20	822.55	125.68	94.73	9665.00	12125.01	10944.67	125.45	110.78								
DVC	143.20	283.00	7.00	16.75	5.94	239.29	281.99	283.00	199.33	199.33	79.73	113.19								
NEEPCO	755.00	2392.00	86.00	50.60	68.22	58.84	74.17	2392.00	2199.87	2377.74	91.97	92.52								
NHDC	1520.00	3384.00	340.00	357.97	339.96	105.29	105.30	3384.00	5711.90	4203.92	168.79	135.87								
NHPC	4849.20	21107.00	1260.00	1343.70	1233.70	106.64	108.92	21107.00	18360.49	18893.49	86.99	97.18								
SJVN	1637.34	6548.00	281.00	226.02	243.37	80.43	92.87	6548.00	6777.78	7190.55	109.81	106.09								
THDC	1400.00	3952.00	343.00	328.03	364.81	95.64	89.92	3952.00	5582.28	4266.06	141.25	130.85								
TOTAL CENTRAL SEC.	13189.04	47331.00	2937.00	3102.27	3078.55	105.63	100.77	47331.00	51395.73	47662.99	108.59	107.83								
TOTAL STATE SEC.	24606.70	63259.00	4723.00	5780.33	5326.76	121.75	107.95	63259.00	73456.38	55853.71	116.12	131.52								
TOTAL IPP SEC.	2281.00	10223.00	456.00	197.07	246.29	43.22	80.02	10223.00	8398.49	8753.56	82.15	95.94								

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2015 VIS-A-VIS MAR-2014 AND APR-MAR-2015 VIS-A-VIS APR-MAR-2014

2. SUMMARY - SECTOR WISE

Category / Sectors	Monitored Capacity (MW)	Target Apr 2014 to Mar 2015	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2015					APRIL 2014 - MAR-2015					MAR-2015			APRIL 2014 - MAR-2015		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14
<b>THERMAL</b>																		
<b>CENTRAL SECTOR</b>																		
APCPL	1500.00	5912.00	550.00	534.65	283.25	97.21	188.76	5912.00	7022.93	5382.61	118.79	130.47	49.28	44.99	25.38	53.45	41.46	
DVC	6890.00	33497.00	2913.00	2182.34	2224.81	74.92	98.09	33497.00	25283.81	27889.66	75.48	90.66	63.15	61.68	51.55	47.09	56.50	
NEEPCO	465.90	2334.00	211.00	215.30	186.52	102.04	115.43	2334.00	2369.58	2368.08	101.52	100.06						
NLC	3240.00	19261.00	1845.00	1935.33	1913.44	104.90	101.14	19261.00	19708.50	19988.88	102.32	98.60	82.94	73.54	93.13	81.36	83.19	
NLC/TNEB	500.00	0.00	0.00	6.79	0.00	0.00	0.00	0.00	6.79	0.00	0.00	0.00						
NSPCL	500.00	3723.00	242.00	341.58	330.07	141.15	103.49	3723.00	3241.10	3627.25	87.06	89.35	65.05	85.00	88.73	74.00	82.81	
NTECL	1500.00	6492.00	691.00	650.03	423.30	94.07	153.56	6492.00	5912.65	3996.72	91.08	151.73	61.92	59.32	56.90	62.70	54.67	
NTPC Ltd.	38107.23	236177.00	21270.00	20608.51	21599.93	96.89	95.41	236177.00	242033.95	233625.62	102.48	103.60	81.92	77.09	87.15	79.61	81.03	
NTPCIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
ONGC	726.60	1593.00	217.00	159.00	210.50	73.27	75.53	1593.00	2469.44	996.55	155.02	247.80						
RGPL	2220.00	1300.00	112.00	0.00	0.00	0.00	0.00	1300.00	0.00	1506.29	0.00	0.00						
TOTAL CENTRAL SEC.	55649.73	310289.00	28051.00	26633.53	27171.82	94.95	98.02	310289.00	308048.75	299281.66	99.28	102.93	77.55	73.31	79.89	73.96	76.11	
TOTAL STATE SEC.	65473.49	302656.00	27711.00	24940.77	24825.64	90.00	100.46	302656.00	299258.34	276946.30	98.88	108.06	64.69	61.01	60.18	59.83	59.11	
TOTAL IPP SEC.	63642.50	223119.00	20294.00	20397.50	18556.58	100.51	109.92	223119.00	249427.98	193409.87	111.79	128.96	62.20	62.44	60.97	60.20	61.39	
TOTAL PVT. UTL. SEC.	3865.00	22539.00	2082.00	1835.42	1831.44	88.16	100.22	22539.00	21564.96	22839.28	95.77	94.51	73.97	67.79	63.65	65.07	68.67	
TOTAL THERMAL	188630.72	858603.00	78138.00	73807.22	72385.48	94.46	101.96	858603.00	878320.03	792477.11	102.30	110.83	66.23	65.52	66.76	64.46	65.56	
<b>NUCLEAR</b>																		
<b>CENTRAL SECTOR</b>																		
DAE	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
NPCIL	5680.00	35300.00	3238.00	3825.12	3037.22	118.13	125.94	35300.00	36101.54	34227.79	102.27	105.47	75.30	74.08	87.23	82.38	83.49	
TOTAL CENTRAL SEC.	5780.00	35300.00	3238.00	3825.12	3037.22	118.13	125.94	35300.00	36101.54	34227.79	102.27	105.47	75.30	74.08	88.95	80.74	81.74	
<b>HYDRO</b>																		
<b>CENTRAL SECTOR</b>																		
BMBB	2884.30	9275.00	593.00	587.99	779.20	99.16	75.46	9275.00	10599.78	12125.01	114.28	87.42						
DVC	143.20	218.00	8.00	6.90	16.75	86.25	41.19	218.00	267.30	225.63	122.61	118.47						
NEEPCO	755.00	2358.00	88.00	41.30	50.60	46.93	81.62	2358.00	1991.95	2199.87	84.48	90.55						
NHDC	1520.00	3455.00	338.00	305.57	357.97	90.41	85.36	3455.00	3670.82	5711.90	106.25	64.27						
NHPC	4961.20	20770.00	1298.00	1632.56	1343.70	125.78	121.50	20770.00	22040.92	18360.49	106.12	120.05						
NHPC Ltd.	400.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00						
SAVNL	1912.02	7800.00	312.90	308.09	226.02	98.46	136.31	7800.00	8155.07	7190.55	104.55	113.41						
THDC	1400.00	3952.00	345.00	313.38	328.03	90.83	95.53	3952.00	4233.73	5582.28	107.13	75.84						
TOTAL CENTRAL SEC.	13975.72	47828.00	2982.90	3196.04	3102.27	107.15	103.02	47828.00	50959.82	51395.73	106.55	99.15						
TOTAL STATE SEC.	24581.70	65142.00	4515.50	5099.30	5750.33	112.93	88.68	65142.00	67544.70	73456.38	103.69	91.95						



ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2010 VIS-A-VIS MAR-2009 AND APR-MAR-2010 VIS-A-VIS APR-MAR-2009

2. SUMMARY - REGION WISE

Category / Regions	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWH)												PLANT LOAD FACTOR (%)					
			MAR-2010			APRIL 2009 - MAR-2010			MAR-2010			APRIL 2009 - MAR-2010			MAR-2010			APRIL 2009 - MAR-2010		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	% OF PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09	% OF PROGRAM	
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>NORTHERN REGION</b>																				
THERMAL	23907.76	156716.69	13981.77	14609.42	14222.37	104.49	102.72	156716.69	160683.20	152725.72	102.53	105.21	77.03	83.21	88.43	77.42	82.51	81.79		
NUCLEAR	1400.00	6310.00	679.00	610.23	273.81	89.87	222.87	6310.00	4305.80	2995.84	68.24	143.73	60.04	58.59	31.19	54.67	39.89	28.98		
HYDRO	13775.84	52289.00	3044.00	3127.89	2954.41	102.76	105.87	52289.00	50059.71	53049.77	95.74	94.36								
<b>TOTAL</b>	<b>39083.60</b>	<b>215315.69</b>	<b>17704.77</b>	<b>18347.54</b>	<b>17450.59</b>	<b>103.63</b>	<b>105.14</b>	<b>215315.69</b>	<b>215048.71</b>	<b>208771.33</b>	<b>99.88</b>	<b>103.01</b>								
<b>WESTERN REGION</b>																				
THERMAL	36016.31	225131.81	20969.21	21382.16	19069.77	101.97	112.13	225131.81	226339.74	202338.90	100.54	111.86	81.45	83.97	85.09	78.64	79.20	79.45		
NUCLEAR	1940.00	7750.00	693.00	895.54	653.95	129.23	136.94	7750.00	9058.96	7510.96	116.89	120.61	50.82	65.42	47.77	48.08	56.20	46.60		
HYDRO	7669.80	16116.00	1108.00	1264.35	962.96	114.11	131.30	16116.00	13807.25	13184.24	85.67	104.73								
<b>TOTAL</b>	<b>45526.11</b>	<b>248997.81</b>	<b>22770.21</b>	<b>23542.05</b>	<b>20686.68</b>	<b>103.39</b>	<b>113.80</b>	<b>248997.81</b>	<b>249205.95</b>	<b>223034.10</b>	<b>100.08</b>	<b>111.73</b>								
<b>SOUTHERN REGION</b>																				
THERMAL	21364.61	141145.26	13234.87	13631.78	12692.63	103.00	107.40	141145.26	143926.44	129770.25	101.97	110.91	84.91	90.55	95.70	81.55	84.39	83.30		
NUCLEAR	1100.00	4940.00	510.00	468.73	427.22	91.91	109.72	4940.00	5271.68	4205.79	106.71	125.34	51.93	57.27	52.20	48.86	54.71	43.65		
HYDRO	11482.10	32324.00	2523.00	3171.88	2480.50	125.72	127.87	32324.00	30857.10	32595.80	95.46	94.67								
<b>TOTAL</b>	<b>33946.71</b>	<b>178409.26</b>	<b>16267.87</b>	<b>17272.39</b>	<b>15600.35</b>	<b>106.17</b>	<b>110.72</b>	<b>178409.26</b>	<b>180055.22</b>	<b>166571.84</b>	<b>100.92</b>	<b>108.09</b>								
<b>EASTERN REGION</b>																				
THERMAL	19588.05	121328.72	10645.78	10109.21	10166.48	94.96	99.44	121328.72	105511.17	100879.05	86.96	104.59	71.65	70.58	74.33	71.69	64.55	64.66		
HYDRO	4013.35	10310.00	493.00	581.96	591.71	118.04	98.35	10310.00	8353.97	9656.37	81.03	86.51								
<b>TOTAL</b>	<b>23601.40</b>	<b>131638.72</b>	<b>11138.78</b>	<b>10691.17</b>	<b>10758.19</b>	<b>95.98</b>	<b>99.38</b>	<b>131638.72</b>	<b>113865.14</b>	<b>110535.42</b>	<b>86.50</b>	<b>103.01</b>								
<b>NORTH EASTERN REGION</b>																				
THERMAL	884.92	4157.10	374.80	362.11	351.47	96.61	103.03	4157.10	4415.92	4386.86	106.23	100.66	51.16	51.86	56.64	51.45	49.97	47.62		
HYDRO	1202.70	4429.00	181.00	155.62	127.99	85.98	121.59	4429.00	3601.59	4594.68	81.32	78.39								
<b>TOTAL</b>	<b>2087.62</b>	<b>8586.10</b>	<b>555.80</b>	<b>517.73</b>	<b>479.46</b>	<b>93.15</b>	<b>107.98</b>	<b>8586.10</b>	<b>8017.51</b>	<b>8981.54</b>	<b>93.38</b>	<b>89.27</b>								
<b>BHUTAN IMP. REGION</b>																				
	0.00	6564.00	187.00	106.48	82.09	56.94	129.71	6564.00	5358.57	5899.10	81.64	90.84								
<b>ALL INDIA REGION</b>																				
THERMAL	101761.65	648479.58	59206.42	60094.68	56502.72	101.50	106.36	648479.58	640876.47	590100.77	98.83	108.60	78.68	81.89	85.33	77.17	77.53	77.27		
NUCLEAR	4340.00	19000.00	1862.00	1974.50	1354.98	104.91	145.72	19000.00	18638.44	14712.59	98.09	126.67	54.05	61.15	44.20	50.30	51.08	40.77		
HYDRO	38143.79	115468.00	7349.00	8301.70	7117.57	112.96	116.64	115468.00	106679.62	113080.86	92.39	94.34								
BHUTAN IMP	0.00	6564.00	187.00	106.48	82.09	56.94	129.71	6564.00	5358.57	5899.10	81.64	90.84								
<b>TOTAL</b>	<b>144245.44</b>	<b>789511.58</b>	<b>68624.42</b>	<b>70477.36</b>	<b>65057.36</b>	<b>102.70</b>	<b>108.33</b>	<b>789511.58</b>	<b>771551.10</b>	<b>723793.32</b>	<b>97.73</b>	<b>106.60</b>								

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2011 VIS-A-VIS MAR-2010 AND APR-MAR-2011 VIS-A-VIS APR-MAR-2010

2. SUMMARY - REGION WISE

Category / Regions	Monitored Capacity (MW)	Target Apr 2010 to Mar 2011	GENERATION (GWH)										PLANT LOAD FACTOR (%)						
			MAR-2011			APRIL 2010 - MAR-2011			MAR-2011			APRIL 2010 - MAR-2011							
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																			
THERMAL	27246.76	171704.41	15685.61	15288.40	14609.42	97.47	104.65	171704.41	165125.75	160683.20	96.17	102.76	70.33	85.09	85.62	71.68	78.68	82.99	
NUCLEAR	1620.00	8553.00	777.00	1051.53	610.23	135.33	172.32	8553.00	9591.01	4305.80	112.14	222.75	66.71	87.24	58.59	64.23	67.58	39.89	
HYDRO	13778.25	51044.00	3073.63	3810.14	3026.52	123.96	125.89	51044.00	55849.77	48956.52	109.41	114.08							
<b>TOTAL</b>	<b>42645.01</b>	<b>231301.41</b>	<b>19536.24</b>	<b>20150.07</b>	<b>18246.17</b>	<b>103.14</b>	<b>110.43</b>	<b>231301.41</b>	<b>230566.53</b>	<b>213945.52</b>	<b>99.68</b>	<b>107.77</b>							
<b>WESTERN REGION</b>																			
THERMAL	38626.31	238109.18	22245.93	22645.27	21382.16	101.80	105.91	238109.18	236474.62	226339.74	99.31	104.48	77.97	83.59	83.97	73.43	75.26	79.20	
NUCLEAR	1840.00	8601.00	835.00	1149.35	895.54	137.65	128.34	8601.00	10563.07	9058.96	122.81	116.60	61.00	83.96	65.42	53.36	65.53	56.20	
HYDRO	7392.00	14193.00	1170.00	1382.83	1199.49	118.19	115.28	14193.00	15015.73	13301.45	105.80	112.89							
<b>TOTAL</b>	<b>47858.31</b>	<b>260903.18</b>	<b>24250.93</b>	<b>25177.45</b>	<b>23477.19</b>	<b>103.82</b>	<b>107.24</b>	<b>260903.18</b>	<b>262053.42</b>	<b>248700.15</b>	<b>100.44</b>	<b>105.37</b>							
<b>SOUTHERN REGION</b>																			
THERMAL	23180.80	148159.93	13487.16	14523.04	13621.54	107.68	106.62	148159.93	147214.58	143826.95	99.36	102.36	77.51	90.69	90.55	76.94	80.43	84.39	
NUCLEAR	1320.00	4846.00	410.00	751.20	468.73	183.22	160.26	4846.00	6112.32	5271.68	126.13	115.95	41.75	76.49	57.27	47.93	62.02	54.71	
HYDRO	11333.45	31882.00	2575.26	3337.07	3100.29	129.58	107.64	31882.00	30515.61	29996.37	95.71	101.73							
<b>TOTAL</b>	<b>35834.25</b>	<b>184887.93</b>	<b>16472.42</b>	<b>18611.31</b>	<b>17190.56</b>	<b>112.98</b>	<b>108.26</b>	<b>184887.93</b>	<b>183842.51</b>	<b>179095.00</b>	<b>99.43</b>	<b>102.65</b>							
<b>EASTERN REGION</b>																			
THERMAL	21615.05	128594.90	12627.26	10364.36	10097.20	82.08	102.65	128594.90	111749.83	105351.89	86.90	106.07	67.41	70.86	70.98	66.97	66.58	64.71	
HYDRO	3847.70	9988.00	483.84	582.51	573.44	120.39	101.58	9988.00	8979.16	8228.35	89.90	109.12							
<b>TOTAL</b>	<b>25462.75</b>	<b>138582.90</b>	<b>13111.10</b>	<b>10946.87</b>	<b>10670.64</b>	<b>83.49</b>	<b>102.59</b>	<b>138582.90</b>	<b>120728.99</b>	<b>113580.24</b>	<b>87.12</b>	<b>106.29</b>							
<b>NORTH EASTERN REGION</b>																			
THERMAL	858.50	4288.08	389.61	427.66	356.62	109.77	119.92	4288.08	4443.35	4335.65	103.62	102.48	0.00	0.00	0.00	0.00	0.00	0.00	
HYDRO	1116.00	4245.00	221.45	160.78	146.09	72.60	110.06	4245.00	3897.09	3413.58	91.80	114.16							
<b>TOTAL</b>	<b>1974.50</b>	<b>8533.08</b>	<b>611.06</b>	<b>588.44</b>	<b>502.71</b>	<b>96.30</b>	<b>117.05</b>	<b>8533.08</b>	<b>8340.44</b>	<b>7749.23</b>	<b>97.74</b>	<b>107.63</b>							
<b>BHUTAN IMP. REGION</b>																			
	0.00	6548.00	166.64	61.92	106.48	37.16	58.15	6548.00	5610.90	5358.57	85.69	104.71							
<b>ALL INDIA REGION</b>																			
THERMAL	111527.42	690856.50	64435.57	63248.73	60066.94	98.16	105.30	690856.50	665008.13	640537.43	96.26	103.82	73.28	82.51	82.61	72.07	75.08	77.68	
NUCLEAR	4780.00	22000.00	2022.00	2952.08	1974.50	146.00	149.51	22000.00	26286.40	18636.44	119.39	140.94	58.07	83.01	61.15	55.63	65.40	51.08	
HYDRO	37467.40	111352.00	7524.18	9273.33	8045.83	123.25	115.26	111352.00	114257.36	103896.27	102.61	109.97							
BHUTAN IMP	0.00	6548.00	166.64	61.92	106.48	37.16	58.15	6548.00	5610.90	5358.57	85.69	104.71							
<b>TOTAL</b>	<b>153774.82</b>	<b>830756.50</b>	<b>74148.39</b>	<b>75536.06</b>	<b>70193.75</b>	<b>101.87</b>	<b>107.61</b>	<b>830756.50</b>	<b>811142.79</b>	<b>768428.71</b>	<b>97.64</b>	<b>105.56</b>							

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2012 VIS-A-VIS MAR-2011 AND APR-MAR-2012 VIS-A-VIS APR-MAR-2011

2. SUMMARY - REGION WISE

Category / Regions	Monitored Capacity (MW)	Target Apr 2011 to Mar 2012	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2012			APRIL 2011 - MAR-2012			MAR-2012			APRIL 2011 - MAR-2012						
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																		
THERMAL	31408.26	173757.00	15559.00	15965.07	15288.40	102.61	104.43	173757.00	178242.50	165125.75	102.58	107.94	69.29	76.48	85.32	71.03	77.48	78.75
NUCLEAR	1620.00	8760.00	782.00	1088.80	1051.53	139.23	103.54	8760.00	10957.91	9591.01	125.09	114.25	69.15	90.34	87.24	65.61	77.01	67.58
HYDRO	15178.25	53474.07	3425.53	4023.98	3810.14	117.47	105.61	53474.07	64293.77	55849.77	120.23	115.12						
<b>TOTAL</b>	<b>48206.51</b>	<b>235991.07</b>	<b>19766.53</b>	<b>21077.85</b>	<b>20150.07</b>	<b>106.63</b>	<b>104.60</b>	<b>235991.07</b>	<b>253494.18</b>	<b>230566.53</b>	<b>107.42</b>	<b>109.94</b>						
<b>WESTERN REGION</b>																		
THERMAL	46906.31	246627.00	22560.00	22785.05	22645.27	101.00	100.62	246627.00	248051.97	236474.62	100.58	104.90	72.20	75.90	83.59	68.97	72.04	75.26
NUCLEAR	1840.00	9874.00	864.00	1040.69	1149.35	120.45	90.55	9874.00	13601.82	10563.07	137.75	128.77	63.11	76.02	83.96	61.09	84.16	85.53
HYDRO	7392.00	14644.91	1183.43	1090.33	1382.83	92.13	78.85	14644.91	19247.59	15015.73	131.43	128.18						
<b>TOTAL</b>	<b>56138.31</b>	<b>271145.91</b>	<b>24607.43</b>	<b>24916.07</b>	<b>25177.45</b>	<b>101.25</b>	<b>98.96</b>	<b>271145.91</b>	<b>280901.38</b>	<b>262053.42</b>	<b>103.60</b>	<b>107.19</b>						
<b>SOUTHERN REGION</b>																		
THERMAL	26680.80	156395.00	14247.00	14858.91	14523.04	104.30	102.31	156395.00	157805.57	147214.58	100.90	107.19	77.65	92.19	89.91	73.16	82.19	80.24
NUCLEAR	1320.00	6496.00	480.00	730.01	751.20	152.09	97.18	6496.00	7726.83	6112.32	118.95	126.41	48.88	74.33	76.49	56.02	66.64	62.02
HYDRO	11372.45	30493.04	2490.74	2946.04	3337.07	118.28	88.28	30493.04	33637.93	30515.61	110.31	110.23						
<b>TOTAL</b>	<b>39373.25</b>	<b>193384.04</b>	<b>17217.74</b>	<b>18534.96</b>	<b>18611.31</b>	<b>107.65</b>	<b>99.59</b>	<b>193384.04</b>	<b>199170.33</b>	<b>183842.51</b>	<b>102.99</b>	<b>108.34</b>						
<b>EASTERN REGION</b>																		
THERMAL	24990.05	131047.00	11225.00	12140.46	10364.36	108.16	117.14	131047.00	120160.17	111749.83	91.69	107.53	61.08	72.53	70.45	62.45	63.51	66.21
HYDRO	3847.70	9305.99	550.10	364.49	582.51	66.26	62.57	9305.99	9551.99	8979.16	102.64	106.38						
<b>TOTAL</b>	<b>28837.75</b>	<b>140352.99</b>	<b>11775.10</b>	<b>12504.95</b>	<b>10946.87</b>	<b>106.20</b>	<b>114.23</b>	<b>140352.99</b>	<b>129712.16</b>	<b>120728.99</b>	<b>92.42</b>	<b>107.44</b>						
<b>NORTH EASTERN REGION</b>																		
THERMAL	858.50	4408.00	393.00	394.43	427.66	100.36	92.23	4408.00	4545.73	4443.35	103.12	102.30	0.00	0.00	0.00	0.00	0.00	0.00
HYDRO	1200.00	4131.99	206.73	106.45	180.78	51.49	66.21	4131.99	3778.24	3897.09	91.44	96.95						
<b>TOTAL</b>	<b>2058.50</b>	<b>8539.99</b>	<b>599.73</b>	<b>500.88</b>	<b>588.44</b>	<b>83.52</b>	<b>85.12</b>	<b>8539.99</b>	<b>8323.97</b>	<b>8340.44</b>	<b>97.47</b>	<b>99.90</b>						
<b>BHUTAN IMP. REGION</b>																		
	0.00	5586.00	84.00	84.41	61.92	100.49	136.32	5586.00	5284.51	5610.90	94.60	94.18						
<b>ALL INDIA REGION</b>																		
THERMAL	130843.92	712234.00	63984.00	66143.92	63248.73	103.38	104.58	712234.00	708805.94	665008.13	99.52	106.59	69.85	78.32	82.29	68.69	73.32	74.97
NUCLEAR	4780.00	25130.00	2126.00	2859.50	2952.08	134.50	96.86	25130.00	32286.56	28266.40	128.48	122.92	61.06	80.41	83.01	61.13	76.90	65.40
HYDRO	38990.40	112050.00	7856.53	8531.29	9273.33	108.59	92.00	112050.00	130509.52	114257.36	116.47	114.22						
BHUTAN IMP	0.00	5586.00	84.00	84.41	61.92	100.49	136.32	5586.00	5284.51	5610.90	94.60	94.18						
<b>TOTAL</b>	<b>174614.32</b>	<b>855000.00</b>	<b>74050.53</b>	<b>77619.12</b>	<b>75536.06</b>	<b>104.82</b>	<b>102.76</b>	<b>855000.00</b>	<b>876886.53</b>	<b>811142.79</b>	<b>102.56</b>	<b>108.11</b>						

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2013 VIS-A-VIS MAR-2012 AND APR-MAR-2013 VIS-A-VIS APR-MAR-2012

Category / Regions	Monitored Capacity (MW)	Target Apr 2012 to Mar 2013	GENERATION (GWh)												PLANT LOAD FACTOR (%)					
			MAR-2013			APRIL 2012 - MAR-2013			MAR-2013			APRIL 2012 - MAR-2013			MAR-2013		APRIL 2012 - MAR-2013			
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12		
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>NORTHERN REGION</b>																				
THERMAL	34624.26	193414.00	17740.00	15768.23	15965.07	88.89	98.77	193414.00	187070.55	178242.50	96.72	104.95	72.69	67.33	76.79	71.80	69.01	77.82		
NUCLEAR	1620.00	10799.00	983.00	1105.59	1088.80	112.47	101.54	10799.00	11388.02	10957.91	105.45	103.93	86.92	91.73	90.34	81.10	80.25	77.01		
HYDRO	15523.25	60243.00	3520.00	4100.94	4023.98	116.50	101.91	60243.00	62549.87	64293.77	103.83	97.29								
<b>TOTAL</b>	<b>51767.51</b>	<b>264456.00</b>	<b>22243.00</b>	<b>20974.76</b>	<b>21077.85</b>	<b>94.30</b>	<b>99.51</b>	<b>264456.00</b>	<b>261008.44</b>	<b>253494.18</b>	<b>98.70</b>	<b>102.96</b>								
<b>WESTERN REGION</b>																				
THERMAL	58051.31	269117.00	25856.00	24779.96	22785.05	95.84	108.76	269117.00	271223.31	248051.97	100.78	109.34	71.14	71.42	75.22	69.55	68.95	72.26		
NUCLEAR	1840.00	12517.00	1151.00	1061.18	1040.69	92.20	101.97	12517.00	13294.53	13601.82	106.21	97.74	84.08	77.52	76.02	77.86	82.48	84.16		
HYDRO	7392.00	15159.00	1161.00	1458.87	1090.33	125.66	133.80	15159.00	17665.00	19247.59	116.53	91.78								
<b>TOTAL</b>	<b>67283.31</b>	<b>296793.00</b>	<b>28168.00</b>	<b>27300.01</b>	<b>24916.07</b>	<b>96.92</b>	<b>109.57</b>	<b>296793.00</b>	<b>302182.84</b>	<b>280901.38</b>	<b>101.82</b>	<b>107.58</b>								
<b>SOUTHERN REGION</b>																				
THERMAL	28952.80	158217.00	14934.00	15265.21	14858.91	102.22	102.73	158217.00	162577.84	157805.57	102.76	103.02	80.54	86.91	92.19	77.24	82.18	82.19		
NUCLEAR	1320.00	11884.00	1328.00	595.69	730.01	40.34	73.38	11884.00	8183.56	7726.83	68.86	105.91	76.94	54.55	74.33	74.60	70.77	66.64		
HYDRO	11387.45	32362.00	2560.00	2432.32	2946.04	95.01	82.56	32362.00	21144.61	33637.93	65.34	62.86								
<b>TOTAL</b>	<b>41660.25</b>	<b>202463.00</b>	<b>18822.00</b>	<b>18233.22</b>	<b>18534.96</b>	<b>96.87</b>	<b>98.37</b>	<b>202463.00</b>	<b>191906.01</b>	<b>199170.33</b>	<b>94.79</b>	<b>96.35</b>								
<b>EASTERN REGION</b>																				
THERMAL	27345.05	142018.00	13046.00	12575.65	12140.46	96.39	103.58	142018.00	135279.47	120160.17	95.26	112.58	67.53	66.14	72.53	64.87	62.81	63.51		
HYDRO	3946.70	10081.00	588.00	651.28	364.49	110.76	178.68	10081.00	8449.73	9551.99	83.82	88.46								
<b>TOTAL</b>	<b>31291.75</b>	<b>152099.00</b>	<b>13634.00</b>	<b>13226.93</b>	<b>12504.95</b>	<b>97.01</b>	<b>105.77</b>	<b>152099.00</b>	<b>143729.20</b>	<b>129712.16</b>	<b>94.50</b>	<b>110.81</b>								
<b>NORTH EASTERN REGION</b>																				
THERMAL	1258.70	4509.00	400.00	412.71	394.43	103.18	104.63	4509.00	4524.63	4545.73	100.35	99.54	0.00	0.00	0.00	0.00	0.00	0.00		
HYDRO	1242.00	4200.00	168.00	128.45	106.45	76.46	120.67	4200.00	3911.08	3778.24	93.12	103.52								
<b>TOTAL</b>	<b>2500.70</b>	<b>8709.00</b>	<b>568.00</b>	<b>541.16</b>	<b>500.88</b>	<b>95.27</b>	<b>108.04</b>	<b>8709.00</b>	<b>8435.71</b>	<b>8323.97</b>	<b>96.86</b>	<b>101.34</b>								
<b>BHUTAN IMP. REGION</b>																				
	0.00	5480.00	167.00	57.20	84.41	34.25	67.76	5480.00	4794.50	5284.51	87.49	90.73								
<b>ALL INDIA REGION</b>																				
THERMAL	150232.12	767275.00	71976.00	68801.76	66143.92	95.59	104.02	767275.00	760675.80	708805.94	99.14	107.32	71.60	71.99	78.16	69.95	69.93	73.47		
NUCLEAR	4780.00	35200.00	3462.00	2702.46	2859.50	78.06	94.51	35200.00	32866.11	32286.56	93.37	101.80	81.92	75.99	80.41	77.59	78.49	76.90		
HYDRO	39491.40	122045.00	7997.00	8771.86	8531.29	109.69	102.82	122045.00	113720.29	130509.52	93.18	87.14								
BHUTAN IMP	0.00	5480.00	167.00	57.20	84.41	34.25	67.76	5480.00	4794.50	5284.51	87.49	90.73								
<b>TOTAL</b>	<b>194503.52</b>	<b>930000.00</b>	<b>83602.00</b>	<b>80333.28</b>	<b>77619.12</b>	<b>96.09</b>	<b>103.50</b>	<b>930000.00</b>	<b>912056.70</b>	<b>876886.53</b>	<b>98.07</b>	<b>104.01</b>								



ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2014 VIS-A-VIS MAR-2013 AND APR-MAR-2014 VIS-A-VIS APR-MAR-2013

2. SUMMARY - REGION WISE

Category / Regions	Monitored Capacity (MW)	Target Apr 2013 to Mar 2014	GENERATION (GWH)												PLANT LOAD FACTOR (%)											
			MAR-2014						APRIL 2013 - MAR-2014						MAR-2014						APRIL 2013 - MAR-2014					
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	% OF PROGRAM (4/5)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012 - 13	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012 - 13								
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18								
<b>NORTHERN REGION</b>																										
THERMAL	37894.26	207657.00	15616.30	15768.23	85.79	99.04	207657.00	187070.55	94.04	104.39	72.63	59.93	67.33	72.58	67.08	69.01										
NUCLEAR	1620.00	10664.00	810.00	1053.94	130.12	95.33	10664.00	11388.02	111.93	104.82	71.63	87.44	91.73	80.09	84.11	80.25										
HYDRO	16353.59	61597.00	3599.00	3790.47	4100.94	105.32	61597.00	63472.70	103.05	101.48	62549.87															
<b>TOTAL</b>	<b>58867.85</b>	<b>279918.00</b>	<b>22612.00</b>	<b>20974.76</b>	<b>90.49</b>	<b>97.55</b>	<b>279918.00</b>	<b>270695.22</b>	<b>96.71</b>	<b>103.71</b>																
<b>WESTERN REGION</b>																										
THERMAL	69093.31	292416.00	28114.00	24779.96	96.51	109.49	292416.00	286251.21	97.89	105.54	69.82	65.49	71.42	67.23	62.59	69.53										
NUCLEAR	1840.00	12363.00	1114.00	1263.93	1061.18	113.46	12363.00	13636.97	110.30	102.58	81.38	92.33	77.52	76.70	84.60	82.48										
HYDRO	7392.00	15843.00	1310.00	1458.87	122.19	109.72	15843.00	22828.76	144.09	129.23																
<b>TOTAL</b>	<b>78325.31</b>	<b>320622.00</b>	<b>30538.00</b>	<b>27300.01</b>	<b>98.23</b>	<b>109.88</b>	<b>320622.00</b>	<b>322716.94</b>	<b>100.65</b>	<b>106.80</b>																
<b>SOUTHERN REGION</b>																										
THERMAL	30652.80	157021.00	14791.00	16274.87	110.03	106.61	157021.00	164849.03	104.99	101.40	80.79	84.32	86.43	76.82	76.96	82.14										
NUCLEAR	1320.00	12173.00	1278.00	719.35	535.69	134.28	12173.00	8654.19	71.09	105.75	74.04	73.25	54.55	73.11	74.84	70.77										
HYDRO	11457.45	29454.00	2492.00	2928.61	2432.32	117.52	29454.00	32831.06	111.47	155.27																
<b>TOTAL</b>	<b>43430.25</b>	<b>198648.00</b>	<b>18561.00</b>	<b>18233.22</b>	<b>107.34</b>	<b>109.27</b>	<b>198648.00</b>	<b>206334.28</b>	<b>103.87</b>	<b>107.52</b>																
<b>EASTERN REGION</b>																										
THERMAL	28945.05	150503.00	13635.00	12788.45	12575.65	93.84	150503.00	140575.22	93.40	103.91	66.20	62.88	66.14	65.02	59.94	62.79										
HYDRO	4078.70	11191.00	680.00	731.18	651.28	107.53	11191.00	11650.95	104.11	137.89																
<b>TOTAL</b>	<b>33023.75</b>	<b>161694.00</b>	<b>14315.00</b>	<b>13226.93</b>	<b>94.30</b>	<b>102.06</b>	<b>161694.00</b>	<b>152226.17</b>	<b>94.14</b>	<b>105.91</b>																
<b>NORTH EASTERN REGION</b>																										
THERMAL	1280.00	5140.00	476.00	594.35	412.71	124.86	5140.00	5515.76	107.31	121.91	0.00	0.00	0.00	0.00	0.00	0.00										
HYDRO	1242.00	4178.00	151.00	113.20	128.45	74.97	4178.00	4064.05	97.27	103.91																
<b>TOTAL</b>	<b>2522.00</b>	<b>9318.00</b>	<b>627.00</b>	<b>707.55</b>	<b>541.16</b>	<b>112.85</b>	<b>9318.00</b>	<b>9579.81</b>	<b>102.81</b>	<b>113.56</b>																
<b>BHUTAN IMP. REGION</b>																										
	0.00	4800.00	147.00	50.58	57.20	34.41	4800.00	5597.90	116.62	116.76																
<b>ALL INDIA REGION</b>																										
THERMAL	167865.42	812737.00	75219.00	72385.48	68801.76	96.23	812737.00	792477.11	97.51	104.18	72.01	66.80	71.96	69.63	65.55	70.13										
NUCLEAR	4780.00	35200.00	3202.00	3037.22	2702.46	94.85	35200.00	34227.79	97.24	104.14	75.77	85.40	75.99	76.38	81.74	78.49										
HYDRO	40523.74	122263.00	8232.00	9164.16	8771.86	111.32	122263.00	134847.52	110.29	118.58																
BHUTAN IMP	0.00	4800.00	147.00	50.58	57.20	34.41	4800.00	5597.90	116.62	116.76																
<b>TOTAL</b>	<b>213169.16</b>	<b>975000.00</b>	<b>86800.00</b>	<b>84637.44</b>	<b>80333.28</b>	<b>97.51</b>	<b>975000.00</b>	<b>967150.32</b>	<b>99.19</b>	<b>106.04</b>																

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2015 VIS-A-VIS MAR-2014 AND APR-MAR-2015 VIS-A-VIS APR-MAR-2014

2. SUMMARY - REGION WISE

Category / Regions	Monitored Capacity (MW)	Target Apr 2014 to Mar 2015	GENERATION (GWh)												PLANT LOAD FACTOR (%)					
			MAR-2015			APRIL 2014 - MAR-2015			MAR-2015			APRIL 2014 - MAR-2015			MAR-2015		APRIL 2014 - MAR-2015			
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
<b>NORTHERN REGION</b>																				
THERMAL	40154.26	213312.00	19126.00	14652.58	15616.30	76.61	93.83	213312.00	209756.99	195285.89	98.33	107.41	70.70	52.18	59.98	68.04	65.25	67.03		
NUCLEAR	1620.00	10479.00	934.00	1082.71	1053.94	115.92	102.73	10479.00	10612.93	11936.63	101.28	88.91	82.59	89.83	87.44	78.70	74.79	84.11		
HYDRO	17140.27	61804.00	3556.40	3920.44	3790.47	110.24	103.43	61804.00	65993.25	63472.70	106.78	103.97								
<b>TOTAL</b>	<b>58914.53</b>	<b>285595.00</b>	<b>23616.40</b>	<b>19655.73</b>	<b>20460.71</b>	<b>83.23</b>	<b>96.07</b>	<b>285595.00</b>	<b>286363.17</b>	<b>270695.22</b>	<b>100.27</b>	<b>105.79</b>								
<b>WESTERN REGION</b>																				
THERMAL	80129.41	315914.00	28758.00	27894.94	27131.51	97.00	102.81	315914.00	338326.73	286251.21	107.09	118.19	64.16	55.97	65.37	62.26	61.37	62.64		
NUCLEAR	1840.00	11056.00	896.00	1135.90	1263.93	126.77	89.87	11056.00	13799.29	13636.97	124.81	101.19	65.45	82.98	92.33	68.59	85.61	84.60		
HYDRO	7392.00	15918.00	1230.00	1152.60	1600.70	93.71	72.01	15918.00	15687.40	22828.76	98.36	68.59								
<b>TOTAL</b>	<b>89361.41</b>	<b>342888.00</b>	<b>30884.00</b>	<b>30183.44</b>	<b>29996.14</b>	<b>97.73</b>	<b>100.62</b>	<b>342888.00</b>	<b>367783.42</b>	<b>322716.94</b>	<b>107.26</b>	<b>113.96</b>								
<b>SOUTHERN REGION</b>																				
THERMAL	34412.80	170936.00	16055.00	16821.86	16274.87	104.78	103.36	170936.00	172840.79	164849.03	101.11	104.85	78.04	82.97	84.32	74.09	76.13	76.97		
NUCLEAR	2320.00	13765.00	1408.00	1606.51	719.35	114.10	223.33	13765.00	11689.32	8654.19	84.92	135.07	78.33	93.07	73.25	75.58	81.19	74.84		
HYDRO	11317.70	31261.00	2351.00	2817.77	2879.90	119.85	97.84	31261.00	31335.33	32258.47	100.24	97.14								
<b>TOTAL</b>	<b>48050.50</b>	<b>215962.00</b>	<b>19814.00</b>	<b>21246.14</b>	<b>19874.12</b>	<b>107.23</b>	<b>106.90</b>	<b>215962.00</b>	<b>215865.44</b>	<b>205761.69</b>	<b>99.96</b>	<b>104.91</b>								
<b>EASTERN REGION</b>																				
THERMAL	32200.05	152475.00	13599.00	13884.64	12768.45	102.10	108.74	152475.00	150303.15	140575.22	98.58	106.92	64.71	63.04	62.88	61.62	60.05	59.94		
HYDRO	4193.45	11226.00	774.00	654.64	779.89	84.58	83.94	11226.00	12715.61	12223.54	113.27	104.03								
<b>TOTAL</b>	<b>36393.50</b>	<b>163701.00</b>	<b>14373.00</b>	<b>14539.28</b>	<b>13548.34</b>	<b>101.16</b>	<b>107.31</b>	<b>163701.00</b>	<b>163018.76</b>	<b>152798.76</b>	<b>99.58</b>	<b>106.69</b>								
<b>NORTH EASTERN REGION</b>																				
THERMAL	1734.20	5966.00	600.00	553.20	594.35	92.20	93.08	5966.00	7092.39	5515.76	118.88	128.58	0.00	0.00	0.00	0.00	0.00	0.00		
HYDRO	1242.00	4088.00	139.00	98.70	113.20	71.01	87.19	4088.00	3542.10	4064.05	86.65	87.16								
<b>TOTAL</b>	<b>2976.20</b>	<b>10054.00</b>	<b>739.00</b>	<b>651.90</b>	<b>707.55</b>	<b>88.21</b>	<b>92.13</b>	<b>10054.00</b>	<b>10634.49</b>	<b>9579.81</b>	<b>105.77</b>	<b>111.01</b>								
<b>BHUTAN IMP. REGION</b>																				
	0.00	4800.00	147.00	61.32	50.58	41.71	121.23	4800.00	5007.74	5597.90	104.33	89.46								
<b>ALL INDIA REGION</b>																				
THERMAL	188630.72	858603.00	78138.00	73807.22	72385.48	94.46	101.96	858603.00	878320.01	792477.11	102.30	110.83	68.23	61.02	66.76	65.52	64.46	65.56		
NUCLEAR	5780.00	35300.00	3238.00	3825.12	3037.22	118.13	125.94	35300.00	36101.54	34227.79	102.27	105.47	75.30	88.95	85.40	74.08	80.74	81.74		
HYDRO	41285.42	124297.00	8050.40	8644.15	9164.16	107.38	94.33	124297.00	129243.68	134847.52	103.98	95.84								
BHUTAN IMP	0.00	4800.00	147.00	61.32	50.58	41.71	121.23	4800.00	5007.74	5597.90	104.33	89.46								
<b>TOTAL</b>	<b>235696.14</b>	<b>1023000.00</b>	<b>89573.40</b>	<b>86337.81</b>	<b>84637.44</b>	<b>96.39</b>	<b>102.01</b>	<b>1023000.00</b>	<b>1048672.90</b>	<b>967150.32</b>	<b>102.51</b>	<b>108.43</b>								

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2016 VIS-A-VIS MAR-2015 AND APR-MAR-2016 VIS-A-VIS APR-MAR-2015

Category / Regions	Monitored Capacity (MW)	Target Apr 2015 to Mar 2016	GENERATION (GWH)										PLANT LOAD FACTOR (%)						
			MAR-2016			APRIL 2015 - MAR-2016			MAR-2016			APRIL 2015 - MAR-2016							
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	% OF PROGRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																			
THERMAL	45594.26	231799.00	20825.00	15461.95	14652.58	74.25	105.52	231799.00	198924.45	209756.99	85.82	94.84	69.79	53.63	68.14	52.18	68.14	59.60	65.25
NUCLEAR	1620.00	10479.00	913.00	998.43	1082.71	109.36	92.22	10479.00	11851.84	10612.93	113.10	111.67	80.73	82.84	78.48	89.83	78.48	83.29	74.79
HYDRO	18320.27	64500.00	3884.00	3668.37	3920.44	94.45	93.57	64500.00	73105.18	65993.25	113.34	110.78							
<b>TOTAL</b>	<b>65534.53</b>	<b>306778.00</b>	<b>25622.00</b>	<b>20128.75</b>	<b>19655.73</b>	<b>78.56</b>	<b>102.41</b>	<b>306778.00</b>	<b>283881.47</b>	<b>286363.17</b>	<b>92.54</b>	<b>99.13</b>							
<b>WESTERN REGION</b>																			
THERMAL	86796.41	373266.00	33168.00	35411.10	27894.94	106.76	126.94	373266.00	382152.83	338326.73	102.38	112.95	60.42	63.09	61.91	55.86	61.91	60.44	61.32
NUCLEAR	1840.00	11513.00	1150.00	970.42	1135.90	84.38	85.43	11513.00	12417.31	13799.29	107.85	89.99	84.01	70.89	71.23	82.98	71.23	76.83	85.61
HYDRO	7392.00	16012.00	1286.00	699.77	1152.60	54.41	60.71	16012.00	12845.34	15667.40	80.22	82.04							
<b>TOTAL</b>	<b>96028.41</b>	<b>400791.00</b>	<b>35604.00</b>	<b>37081.29</b>	<b>30183.44</b>	<b>104.15</b>	<b>122.85</b>	<b>400791.00</b>	<b>407415.48</b>	<b>367783.42</b>	<b>101.65</b>	<b>110.78</b>							
<b>SOUTHERN REGION</b>																			
THERMAL	42023.68	189643.00	17974.00	18268.58	16821.86	107.20	114.54	189643.00	192291.14	172840.79	101.40	111.25	72.43	79.57	71.92	80.89	71.92	72.67	75.96
NUCLEAR	2320.00	16008.00	1577.00	1618.87	1606.51	102.66	100.77	16008.00	13144.47	11639.32	82.11	112.45	63.84	93.79	70.95	93.07	70.95	64.50	81.19
HYDRO	11477.70	31334.00	2418.00	1852.32	2817.77	76.61	65.74	31334.00	20504.19	31335.33	65.44	65.43							
<b>TOTAL</b>	<b>55821.38</b>	<b>236985.00</b>	<b>21969.00</b>	<b>22739.77</b>	<b>21246.14</b>	<b>103.51</b>	<b>107.03</b>	<b>236985.00</b>	<b>225939.80</b>	<b>215865.44</b>	<b>95.34</b>	<b>104.67</b>							
<b>EASTERN REGION</b>																			
THERMAL	34400.05	162051.00	14414.00	14851.88	13884.64	103.04	106.97	162051.00	161978.46	150303.15	99.96	107.77	59.42	63.23	61.06	61.06	58.53	59.83	59.27
HYDRO	4369.45	12122.00	781.00	649.63	654.64	83.18	99.23	12122.00	10715.34	12715.61	88.40	84.27							
<b>TOTAL</b>	<b>38769.50</b>	<b>174173.00</b>	<b>15195.00</b>	<b>15501.51</b>	<b>14539.28</b>	<b>102.02</b>	<b>106.62</b>	<b>174173.00</b>	<b>172693.80</b>	<b>163018.76</b>	<b>99.15</b>	<b>105.93</b>							
<b>NORTH EASTERN REGION</b>																			
THERMAL	2019.80	9941.00	941.00	891.68	553.20	94.76	161.19	9941.00	8440.82	7092.39	84.91	119.01	24.28	0.00	0.00	0.00	22.83	0.00	0.00
HYDRO	1242.00	4032.00	134.00	115.08	98.70	85.88	116.60	4032.00	4206.70	3542.10	104.33	118.76							
<b>TOTAL</b>	<b>3261.80</b>	<b>13973.00</b>	<b>1075.00</b>	<b>1006.76</b>	<b>651.90</b>	<b>93.65</b>	<b>154.43</b>	<b>13973.00</b>	<b>12647.52</b>	<b>10634.49</b>	<b>90.51</b>	<b>118.93</b>							
<b>BHUTAN IMP. REGION</b>																			
	0.00	4800.00	147.00	53.32	61.32	36.27	86.95	4800.00	5244.21	5007.74	109.25	104.72							
<b>ALL INDIA REGION</b>																			
THERMAL	210834.20	966700.00	87322.00	85685.19	73807.22	98.35	116.36	966700.00	943787.70	878320.05	97.63	107.45	64.37	64.00	64.35	60.33	64.35	62.29	64.25
NUCLEAR	5780.00	38000.00	3640.00	3587.72	3825.12	98.56	93.79	38000.00	37413.62	36101.54	98.46	103.63	73.24	83.43	72.97	88.95	72.97	73.69	80.74
HYDRO	42801.42	128000.00	8503.00	6985.17	8644.15	82.15	80.81	128000.00	121376.75	129243.69	94.83	93.91							
BHUTAN IMP	0.00	4800.00	147.00	53.32	61.32	36.27	86.95	4800.00	5244.21	5007.74	109.25	104.72							
<b>TOTAL</b>	<b>259415.62</b>	<b>1137500.00</b>	<b>99512.00</b>	<b>96511.40</b>	<b>86337.81</b>	<b>96.89</b>	<b>111.78</b>	<b>1137500.00</b>	<b>1107822.28</b>	<b>1048673.02</b>	<b>97.39</b>	<b>105.64</b>							

**ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE**  
 PERIOD: MAR-2010 VIS-A-VIS MAR-2009 AND APR-MAR-2010 VIS-A-VIS APR-MAR-2009

CATEGORY / REGIONS / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2009 to Mar 2010	GENERATION (GWh)												PLANT LOAD FACTOR (%)					
			MAR-2010						APRIL 2009 - MAR-2010						MAR-2010			APRIL 2009 - MAR-2010		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2008 - 09	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2008 - 09		
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>NORTHERN REGION</b>																				
<b>BBMB</b>																				
<b>CENTRAL SECTOR</b>																				
BHAKRA H P S	1325.00	5100.00	318.00	306.98	376.61	96.53	81.51	5100.00	4497.53	5459.69	88.19	82.38								
DEHAR H P S	990.00	3000.00	120.00	157.60	94.24	131.33	167.23	3000.00	2937.83	3094.19	97.93	94.95								
GANGUWAL HPS	77.65	1100.00	90.00	39.85	53.85	44.28	74.00	1100.00	545.06	497.09	49.55	109.65								
KOTLA HPS	77.65	0.00	0.00	38.02	37.31	0.00	101.90	0.00	440.16	568.58	0.00	77.41								
PONG H P S	396.00	1300.00	70.00	25.65	186.49	36.64	13.75	1300.00	950.74	1489.52	73.13	63.83								
<b>BBMB HYDRO</b>	<b>2866.30</b>	<b>10500.00</b>	<b>598.00</b>	<b>568.10</b>	<b>748.50</b>	<b>95.00</b>	<b>75.90</b>	<b>10500.00</b>	<b>9371.32</b>	<b>11109.07</b>	<b>89.25</b>	<b>84.36</b>								
<b>CENTRAL HYDRO</b>	<b>2866.30</b>	<b>10500.00</b>	<b>598.00</b>	<b>568.10</b>	<b>748.50</b>	<b>95.00</b>	<b>75.90</b>	<b>10500.00</b>	<b>9371.32</b>	<b>11109.07</b>	<b>89.25</b>	<b>84.36</b>								
<b>TOTAL HYDRO</b>	<b>2866.30</b>	<b>10500.00</b>	<b>598.00</b>	<b>568.10</b>	<b>748.50</b>	<b>95.00</b>	<b>75.90</b>	<b>10500.00</b>	<b>9371.32</b>	<b>11109.07</b>	<b>89.25</b>	<b>84.36</b>								
<b>TOTAL GENERATION</b>	<b>2866.30</b>	<b>10500.00</b>	<b>598.00</b>	<b>568.10</b>	<b>748.50</b>	<b>95.00</b>	<b>75.90</b>	<b>10500.00</b>	<b>9371.32</b>	<b>11109.07</b>	<b>89.25</b>	<b>84.36</b>								
<b>DELHI</b>																				
<b>STATE SECTOR</b>																				
I.P. T.P.S.	247.50	322.00	0.00	0.00	100.24	0.00	0.00	322.00	447.90	955.06	139.10	46.90								
RAJGHAT TPS	135.00	915.00	90.00	85.16	74.04	94.62	115.02	915.00	645.12	877.15	70.50	73.55								
<b>IPGPCL COAL</b>	<b>382.50</b>	<b>1237.00</b>	<b>90.00</b>	<b>85.16</b>	<b>174.28</b>	<b>94.62</b>	<b>48.86</b>	<b>1237.00</b>	<b>1093.02</b>	<b>1832.21</b>	<b>88.36</b>	<b>59.66</b>								
I.P.CCPP	270.00	1736.00	156.00	117.48	123.43	75.31	95.18	1736.00	1498.84	1280.63	86.34	117.04								
PRAGATI CCP	330.40	2400.00	214.00	230.15	197.75	107.55	116.38	2400.00	2453.00	2401.05	102.21	102.16								
<b>IPGPCL NATURAL</b>	<b>600.40</b>	<b>4136.00</b>	<b>370.00</b>	<b>347.63</b>	<b>321.18</b>	<b>93.95</b>	<b>108.24</b>	<b>4136.00</b>	<b>3951.84</b>	<b>3681.68</b>	<b>95.55</b>	<b>107.34</b>								
<b>STATE THERMAL</b>	<b>982.90</b>	<b>5373.00</b>	<b>460.00</b>	<b>432.79</b>	<b>495.46</b>	<b>94.08</b>	<b>87.35</b>	<b>5373.00</b>	<b>5044.86</b>	<b>5513.89</b>	<b>93.89</b>	<b>91.49</b>								
<b>PVT SECTOR</b>																				
RITHALA CCP	0.00	197.00	54.00	0.00	0.00	0.00	0.00	197.00	0.00	0.00	0.00	0.00								
NDPL NATURAL	0.00	197.00	54.00	0.00	0.00	0.00	0.00	197.00	0.00	0.00	0.00	0.00								
PVT THERMAL	0.00	197.00	54.00	0.00	0.00	0.00	0.00	197.00	0.00	0.00	0.00	0.00								
<b>CENTRAL SECTOR</b>																				
BADARPUR TPS	705.00	5350.00	335.00	357.62	490.21	106.75	72.95	5350.00	5107.97	5503.92	95.48	92.81								
<b>NTPC COAL</b>	<b>705.00</b>	<b>5350.00</b>	<b>335.00</b>	<b>357.62</b>	<b>490.21</b>	<b>106.75</b>	<b>72.95</b>	<b>5350.00</b>	<b>5107.97</b>	<b>5503.92</b>	<b>95.48</b>	<b>92.81</b>								
<b>CENTRAL THERMAL</b>	<b>705.00</b>	<b>5350.00</b>	<b>335.00</b>	<b>357.62</b>	<b>490.21</b>	<b>106.75</b>	<b>72.95</b>	<b>5350.00</b>	<b>5107.97</b>	<b>5503.92</b>	<b>95.48</b>	<b>92.81</b>								

**ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE**  
 PERIOD: MAR-2011 VIS-A-VIS MAR-2010 AND APR-MAR-2011 VIS-A-VIS APR-MAR-2010

STATE WISE DETAILS - NORTHERN REGION

CATEGORY / REGIONS / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2010 to Mar 2011	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2011			APRIL 2010 - MAR-2011			MAR-2011			APRIL 2010 - MAR-2011						
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2009 - 10	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2009 - 10
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																		
<b>BBMB</b>																		
<b>CENTRAL SECTOR</b>																		
BHAKRA H P S	1325.00	4240.00	269.00	485.18	306.98	180.36	158.05	4240.00	5725.39	4497.53	135.03	127.30						
DEHAR H P S	990.00	3052.00	129.00	221.45	157.60	171.67	140.51	3052.00	3313.01	2937.83	108.55	112.77						
GANGUWAL HPS	77.65	550.00	45.00	38.02	39.85	84.49	95.41	550.00	432.94	545.06	78.72	79.43						
KOTLA HPS	77.65	550.00	45.00	51.19	38.02	113.76	134.64	550.00	455.81	440.16	82.87	103.56						
PONG H P S	396.00	883.00	55.00	103.42	25.65	188.04	403.20	883.00	1346.28	950.74	152.47	141.60						
BBMB HYDRO	2866.30	9275.00	543.00	899.26	568.10	165.61	158.29	9275.00	11273.43	9371.32	121.55	120.30						
CENTRAL HYDRO	2866.30	9275.00	543.00	899.26	568.10	165.61	158.29	9275.00	11273.43	9371.32	121.55	120.30						
TOTAL HYDRO	2866.30	9275.00	543.00	899.26	568.10	165.61	158.29	9275.00	11273.43	9371.32	121.55	120.30						
TOTAL GENERATION	2866.30	9275.00	543.00	899.26	568.10	165.61	158.29	9275.00	11273.43	9371.32	121.55	120.30						
<b>DELHI</b>																		
<b>STATE SECTOR</b>																		
RAJGHAT TPS	135.00	911.00	80.00	86.47	85.16	108.09	101.54	911.00	781.47	645.12	85.78	121.14						
IPGCL COAL	135.00	911.00	80.00	86.47	85.16	108.09	101.54	911.00	781.47	645.12	85.78	121.14						
I.P.CCPP	270.00	1500.00	133.00	114.36	117.48	85.98	97.34	1500.00	1368.32	1498.84	91.22	91.29						
PRAGATI COGT-III	500.00	1920.00	502.20	3.60	0.00	0.72	0.00	1920.00	6.09	0.00	0.32	0.00						
PRAGATI CCP	330.40	2400.00	144.00	59.91	230.15	41.60	26.03	2400.00	2335.78	2453.00	97.32	95.22						
IPGCL NATURAL	1100.40	5820.00	779.20	177.87	347.63	22.83	51.17	5820.00	3710.19	3951.84	63.75	93.89						
STATE THERMAL	1235.40	6731.00	859.20	264.34	432.79	30.77	61.08	6731.00	4491.66	4596.96	66.73	97.71						
<b>PVT SECTOR</b>																		
RITHALA CCP	71.50	243.70	48.21	20.24	0.00	41.98	0.00	243.70	88.80	0.00	36.44	0.00						
NDPL NATURAL	71.50	243.70	48.21	20.24	0.00	41.98	0.00	243.70	88.80	0.00	36.44	0.00						
PVT THERMAL	71.50	243.70	48.21	20.24	0.00	41.98	0.00	243.70	88.80	0.00	36.44	0.00						
<b>CENTRAL SECTOR</b>																		
BADARPUR TPS	705.00	5400.00	417.00	442.11	357.62	106.02	123.63	5400.00	4549.54	5107.97	84.25	89.07						
NTPC Ltd. COAL	705.00	5400.00	417.00	442.11	357.62	106.02	123.63	5400.00	4549.54	5107.97	84.25	89.07						
CENTRAL THERMAL	705.00	5400.00	417.00	442.11	357.62	106.02	123.63	5400.00	4549.54	5107.97	84.25	89.07						

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2012 VIS-A-VIS MAR-2011 AND APR-MAR-2012 VIS-A-VIS APR-MAR-2011

STATE WISE DETAILS - NORTHERN REGION

CATEGORY / REGIONS / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2011 to Mar 2012	GENERATION (GWh)												PLANT LOAD FACTOR (%)					
			MAR-2012			APRIL 2011 - MAR-2012			MAR-2012			APRIL 2011 - MAR-2012			MAR-2012			APRIL 2011 - MAR-2012		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2010 - 11	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2010 - 11		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>NORTHERN REGION</b>																				
<b>BBMB</b>																				
<b>CENTRAL SECTOR</b>																				
BHAKRA H P S	1325.00	4900.00	305.00	456.44	485.18	149.65	94.08	4900.00	6198.51	5725.39	126.50	108.26								
DEHAR H P S	990.00	3000.00	143.00	181.02	221.45	126.59	81.74	3000.00	3254.90	3313.01	108.50	98.25								
GANGUWAL HPS	77.65	499.99	47.27	54.76	38.02	115.85	144.03	499.99	534.40	432.94	106.88	123.44								
KOTLA HPS	77.65	500.03	44.55	52.37	51.19	117.55	102.31	500.03	618.77	455.81	123.75	135.75								
PONG H P S	396.00	1123.00	69.00	175.58	103.42	254.46	169.77	1123.00	1852.88	1346.28	164.99	137.63								
BBMB HYDRO	2866.30	10023.02	608.82	920.17	899.26	151.14	102.33	10023.02	12459.46	11273.43	124.31	110.52								
CENTRAL HYDRO	2866.30	10023.02	608.82	920.17	899.26	151.14	102.33	10023.02	12459.46	11273.43	124.31	110.52								
TOTAL HYDRO	2866.30	10023.02	608.82	920.17	899.26	151.14	102.33	10023.02	12459.46	11273.43	124.31	110.52								
TOTAL GENERATION	2866.30	10023.02	608.82	920.17	899.26	151.14	102.33	10023.02	12459.46	11273.43	124.31	110.52								
<b>DELHI</b>																				
<b>STATE SECTOR</b>																				
RAJGHAT TPS	135.00	0.00	0.00	71.44	86.47	0.00	82.62	0.00	818.48	781.47	0.00	104.74								
IPGPCL COAL	135.00	0.00	0.00	71.44	86.47	0.00	82.62	0.00	818.48	781.47	0.00	104.74								
I.P.CCPP	270.00	1549.00	118.00	64.53	114.36	54.69	56.43	1549.00	1243.72	1368.32	80.29	90.89								
PRAGATI CCGT-III	750.00	1810.00	484.00	52.98	3.60	10.95	1471.67	1810.00	331.38	6.09	18.31	5441.38								
PRAGATI CCGT-III	330.40	2400.00	208.00	223.81	59.91	107.60	373.58	2400.00	2560.05	2335.78	106.67	109.60								
IPGPCL NATURAL	1350.40	5759.00	810.00	341.32	177.87	42.14	191.89	5759.00	4135.15	3710.19	71.80	111.45								
STATE THERMAL	1485.40	5759.00	810.00	412.76	264.34	50.96	156.15	5759.00	4953.63	4491.66	86.02	110.29								
<b>PVT SECTOR</b>																				
RITHALA CCGP	108.00	475.00	82.00	20.22	20.24	24.66	99.90	475.00	241.83	88.80	50.91	272.33								
NDPL NATURAL	108.00	475.00	82.00	20.22	20.24	24.66	99.90	475.00	241.83	88.80	50.91	272.33								
PVT THERMAL	108.00	475.00	82.00	20.22	20.24	24.66	99.90	475.00	241.83	88.80	50.91	272.33								
<b>CENTRAL SECTOR</b>																				
BADARPUR TPS	705.00	5000.00	407.00	437.25	442.11	107.43	98.90	5000.00	4775.23	4549.54	95.50	104.96								
NTPC Ltd. COAL	705.00	5000.00	407.00	437.25	442.11	107.43	98.90	5000.00	4775.23	4549.54	95.50	104.96								
CENTRAL THERMAL	705.00	5000.00	407.00	437.25	442.11	107.43	98.90	5000.00	4775.23	4549.54	95.50	104.96								

ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE  
 PERIOD: MAR-2013 VIS-A-VIS MAR-2012 AND APR-MAR-2013 VIS-A-VIS APR-MAR-2012

CATEGORY / REGIONS / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2012 to Mar 2013	GENERATION (GWH)										PLANT LOAD FACTOR (%)					
			MAR-2013					APRIL 2012 - MAR-2013					MAR-2013			APRIL 2012 - MAR-2013		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2011 - 12	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2011 - 12
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																		
<b>BBMB</b>																		
<b>CENTRAL SECTOR</b>																		
BHAKRA H P S	1325.00	4900.00	305.00	368.19	456.44	120.72	80.67	4900.00	4706.79	6198.51	96.06	75.93						
DEHAR H P S	990.00	3000.00	143.00	211.85	181.02	148.15	117.03	3000.00	3220.51	3254.90	107.35	98.94						
GANGUWAL HPS	77.65	500.00	47.00	53.50	54.76	113.83	97.70	500.00	593.50	534.40	118.70	111.06						
KOTLA HPS	77.65	500.00	45.00	53.07	52.37	117.93	101.34	500.00	599.80	618.77	119.96	96.93						
PONG H P S	396.00	1123.00	69.00	135.94	175.58	197.01	77.42	1123.00	1824.07	1852.88	162.43	98.45						
BBMB HYDRO	2866.30	10023.00	609.00	822.55	920.17	135.07	89.39	10023.00	10944.67	12459.46	109.20	87.84						
CENTRAL HYDRO	2866.30	10023.00	609.00	822.55	920.17	135.07	89.39	10023.00	10944.67	12459.46	109.20	87.84						
TOTAL HYDRO	2866.30	10023.00	609.00	822.55	920.17	135.07	89.39	10023.00	10944.67	12459.46	109.20	87.84						
TOTAL GENERATION	2866.30	10023.00	609.00	822.55	920.17	135.07	89.39	10023.00	10944.67	12459.46	109.20	87.84						
<b>DELHI</b>																		
<b>STATE SECTOR</b>																		
RAJGHAT TPS	135.00	0.00	0.00	48.68	71.44	0.00	68.14	0.00	792.77	818.48	0.00	96.86						
IPGPCL COAL	135.00	0.00	0.00	48.68	71.44	0.00	68.14	0.00	792.77	818.48	0.00	96.86						
STATE THERMAL	135.00	0.00	0.00	48.68	71.44	0.00	68.14	0.00	792.77	818.48	0.00	96.86						
I.P.CCPP	270.00	1260.00	75.00	102.03	64.53	136.04	158.11	1260.00	1308.21	1243.72	103.83	105.19						
PRAGATI CCGT-III	1000.00	2234.00	181.00	53.61	52.98	29.62	101.19	2234.00	1437.14	331.38	64.33	433.68						
PRAGATI CCPP	330.40	2040.00	184.00	204.58	223.81	111.18	91.41	2040.00	2508.35	2560.05	122.96	97.98						
IPGPCL NATURAL	1600.40	5534.00	440.00	360.22	341.32	81.87	105.54	5534.00	5253.70	4135.15	94.93	127.05						
STATE NATURAL	1600.40	5534.00	440.00	360.22	341.32	81.87	105.54	5534.00	5253.70	4135.15	94.93	127.05						
<b>PVT SECTOR</b>																		
RITHALA CCPP	108.00	323.00	30.00	0.11	20.22	0.37	0.54	323.00	138.82	241.83	42.98	57.40						
NDPL NATURAL	108.00	323.00	30.00	0.11	20.22	0.37	0.54	323.00	138.82	241.83	42.98	57.40						
PVT NATURAL	108.00	323.00	30.00	0.11	20.22	0.37	0.54	323.00	138.82	241.83	42.98	57.40						
<b>CENTRAL SECTOR</b>																		
BADARPUR TPS	705.00	4892.00	373.00	438.22	437.25	117.49	100.22	4892.00	4555.64	4775.23	93.12	95.40						
NTPC Ltd. COAL	705.00	4892.00	373.00	438.22	437.25	117.49	100.22	4892.00	4555.64	4775.23	93.12	95.40						
CENTRAL THERMAL	705.00	4892.00	373.00	438.22	437.25	117.49	100.22	4892.00	4555.64	4775.23	93.12	95.40						

**ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE**  
 PERIOD: MAR-2014 VIS-A-VIS MAR-2013 AND APR-MAR-2014 VIS-A-VIS APR-MAR-2013

CATEGORY / REGION / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2013 to Mar 2014	GENERATION (GWH)										PLANT LOAD FACTOR (%)							
			MAR-2014			APRIL 2013 - MAR-2014			MAR-2014			APRIL 2013 - MAR-2014			MAR-2014			APRIL 2013 - MAR-2014		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012-13	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012-13	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2012-13	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2012-13		
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
<b>NORTHERN REGION</b>																				
<b>BBMB</b>																				
<b>CENTRAL SECTOR</b>																				
BHAKRA H P S	1343.00	4400.00	391.73	368.19	137.45	106.39	4400.00	6210.29	4706.79	141.14	131.94									
DEHAR H P S	990.00	3000.00	178.57	211.85	108.22	84.29	3000.00	3158.68	3220.51	105.29	98.08									
GANGUWAL HPS	77.65	568.00	46.00	53.50	70.39	60.52	568.00	505.07	593.50	88.92	85.10									
KOTLA HPS	77.65	574.00	35.48	53.07	77.13	66.86	574.00	483.94	599.80	84.31	80.68									
PONG H P S	396.00	1123.00	78.00	141.04	135.94	103.75	1123.00	1767.03	1824.07	157.35	96.87									
BBMB HYDRO	2884.30	9665.00	779.20	822.55	125.68	94.73	9665.00	12125.01	10944.67	125.45	110.78									
CENTRAL HYDRO	2884.30	9665.00	779.20	822.55	125.68	94.73	9665.00	12125.01	10944.67	125.45	110.78									
TOTAL HYDRO	2884.30	9665.00	779.20	822.55	125.68	94.73	9665.00	12125.01	10944.67	125.45	110.78									
TOTAL GENERATION	2884.30	9665.00	779.20	822.55	125.68	94.73	9665.00	12125.01	10944.67	125.45	110.78									
<b>DELHI</b>																				
<b>STATE SECTOR</b>																				
RAIGHAT TPS	135.00	800.00	20.26	48.68	27.75	41.62	800.00	379.88	792.77	47.49	47.92	20.17	48.47	67.65	32.12	67.04	67.04			
IPGCL COAL	135.00	800.00	20.26	48.68	27.75	41.62	800.00	379.88	792.77	47.48	47.92	20.17	48.47	67.65	32.12	67.04	67.04			
STATE THERMAL	135.00	800.00	20.26	48.68	27.75	41.62	800.00	379.88	792.77	47.48	47.92	20.17	48.47	67.65	32.12	67.04	67.04			
I.P.CCPP	270.00	1260.00	58.77	102.03	55.97	57.60	1260.00	1040.94	1308.21	82.61	79.57									
PRAGATI CCGT-III	1500.00	540.00	0.00	53.61	0.00	0.00	540.00	644.76	1437.14	119.40	44.86									
PRAGATI CCGP	330.40	2457.00	196.56	204.58	96.35	96.08	2457.00	2425.38	2508.35	98.71	96.69									
IPGCL NATURAL	2100.40	4257.00	255.33	360.22	71.92	70.88	4257.00	4111.08	5253.70	96.57	78.25									
STATE NATURAL	2100.40	4257.00	255.33	360.22	71.92	70.88	4257.00	4111.08	5253.70	96.57	78.25									
<b>PVT SECTOR</b>																				
RITHALA CCGP	108.00	175.00	0.00	0.11	0.00	0.00	175.00	0.22	138.82	0.13	0.16									
NDPL NATURAL	108.00	175.00	0.00	0.11	0.00	0.00	175.00	0.22	138.82	0.13	0.16									
PVT NATURAL	108.00	175.00	0.00	0.11	0.00	0.00	175.00	0.22	138.82	0.13	0.16									
<b>CENTRAL SECTOR</b>																				
BADARPUR TPS	705.00	4600.00	280.84	438.22	87.49	64.09	4600.00	4146.49	4555.64	90.14	91.02	61.20	53.54	74.48	67.14	73.77	73.77			
NTPC Ltd. COAL	705.00	4600.00	280.84	438.22	87.49	64.09	4600.00	4146.49	4555.64	90.14	91.02	61.20	53.54	74.48	67.14	73.77	73.77			
CENTRAL THERMAL	705.00	4600.00	280.84	438.22	87.49	64.09	4600.00	4146.49	4555.64	90.14	91.02	61.20	53.54	74.48	67.14	73.77	73.77			



**ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE**  
 PERIOD: MAR-2015 VIS-A-VIS MAR-2014 AND APR-MAR-2015 VIS-A-VIS APR-MAR-2014

STATE WISE DETAILS - NORTHERN REGION

CATEGORY / REGION / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2014 to Mar 2015	GENERATION (GWH)										PLANT LOAD FACTOR (%)							
			MAR-2015			APRIL 2014 - MAR-2015			MAR-2015			APRIL 2014 - MAR-2015			MAR-2015			APRIL 2014 - MAR-2015		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2013 - 14	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2013 - 14		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
<b>NORTHERN REGION</b>																				
<b>BBMB</b>																				
<b>CENTRAL SECTOR</b>																				
BHAKRA H P S	1343.00	4326.00	293.00	248.32	391.73	84.75	63.39	4326.00	5268.15	6210.29	121.78	84.83								
DEHAR H P S	990.00	3000.00	145.00	254.84	178.57	175.75	142.71	3000.00	3151.06	3158.68	105.04	99.76								
GANGUWAL HPS	77.65	413.00	36.00	36.65	32.38	101.81	113.19	413.00	422.89	505.07	102.39	83.73								
KOTLA HPS	77.65	413.00	38.00	36.24	35.48	95.37	102.14	413.00	430.32	483.94	104.19	88.92								
PONG H P S	396.00	1123.00	81.00	11.94	141.04	14.74	8.47	1123.00	1327.36	1767.03	118.20	75.12								
BBMB HYDRO	2884.30	9275.00	593.00	587.99	779.20	99.16	75.46	9275.00	10599.78	12125.01	114.28	87.42								
CENTRAL HYDRO	2884.30	9275.00	593.00	587.99	779.20	99.16	75.46	9275.00	10599.78	12125.01	114.28	87.42								
TOTAL HYDRO	2884.30	9275.00	593.00	587.99	779.20	99.16	75.46	9275.00	10599.78	12125.01	114.28	87.42								
TOTAL GENERATION	2884.30	9275.00	593.00	587.99	779.20	99.16	75.46	9275.00	10599.78	12125.01	114.28	87.42								
<b>DELHI</b>																				
<b>STATE SECTOR</b>																				
RAJGHAT TPS	135.00	450.00	43.00	25.71	20.26	59.79	126.90	450.00	423.54	379.88	94.12	111.49								
IPGCL COAL	135.00	450.00	43.00	25.71	20.26	59.79	126.90	450.00	423.54	379.88	94.12	111.49								
STATE THERMAL	135.00	450.00	43.00	25.71	20.26	59.79	126.90	450.00	423.54	379.88	94.12	111.49								
I.P.CCPP	270.00	900.00	81.00	58.84	58.77	72.84	100.12	900.00	936.07	1040.94	104.01	89.93								
PRAGATI CCGT-III	1500.00	700.00	62.00	194.69	0.00	314.02	0.00	700.00	2235.07	644.76	319.30	346.65								
PRAGATI CCGT	330.40	2400.00	213.00	128.13	196.56	60.15	65.19	2400.00	1846.94	2425.38	76.96	76.15								
IPGCL NATURAL	2100.40	4000.00	356.00	381.66	255.33	107.21	149.48	4000.00	5018.08	4111.08	125.45	122.06								
STATE NATURAL	2100.40	4000.00	356.00	381.66	255.33	107.21	149.48	4000.00	5018.08	4111.08	125.45	122.06								
<b>PVT SECTOR</b>																				
RITHALA CCGP	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00								
NDPL NATURAL	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00								
PVT NATURAL	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00								
<b>CENTRAL SECTOR</b>																				
BADARPUR TPS	705.00	4600.00	344.00	141.80	280.84	41.22	50.49	4600.00	3281.21	4146.49	71.33	79.13								
NTPC Ltd. COAL	705.00	4600.00	344.00	141.80	280.84	41.22	50.49	4600.00	3281.21	4146.49	71.33	79.13								
CENTRAL THERMAL	705.00	4600.00	344.00	141.80	280.84	41.22	50.49	4600.00	3281.21	4146.49	71.33	79.13								

**ENERGYWISE - PERFORMANCE STATUS ALL INDIA - REGIONWISE**  
 PERIOD: MAR-2016 VIS-A-VIS MAR-2015 AND APR-MAR-2016 VIS-A-VIS APR-MAR-2015

CATEGORY / REGIONS / STATE / STATIONS	Monitored Capacity (MW)	Target Apr 2015 to Mar 2016	GENERATION (GWH)												PLANT LOAD FACTOR (%)					
			MAR-2016						APRIL 2015 - MAR-2016						MAR-2016			APRIL 2015 - MAR-2016		
			PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	% OF PRO-GRAM (4/3)	% OF LAST YEAR (4/5)	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15	% OF PROGRAM (9/8)	% OF LAST YEAR (9/10)	PROGRAM	ACTUAL	ACTUAL SAME MONTH 2014 - 15	PROGRAM	ACTUAL	ACTUAL SAME PERIOD 2014 - 15		
																			3	4
<b>NORTHERN REGION</b>																				
<b>BBMB</b>																				
<b>CENTRAL SECTOR</b>																				
BHAKRA H P S	1343.00	4455.00	302.00	367.47	248.32	121.68	147.98	4455.00	5892.62	5268.16	132.27	111.85								
DEHAR H P S	990.00	2850.00	145.00	168.32	254.84	116.08	66.05	2850.00	3339.14	3151.06	117.16	105.97								
GANGUWAL HPS	77.65	413.00	33.00	36.95	36.65	111.97	100.82	413.00	421.93	422.89	102.16	99.77								
KOTLA HPS	77.65	413.00	34.00	39.06	36.24	114.88	107.78	413.00	430.45	430.32	104.23	100.03								
PONG H P S	396.00	945.00	68.00	74.67	11.94	109.81	625.38	945.00	1734.76	1327.36	183.57	130.69								
BBMB HYDRO	2884.30	9076.00	582.00	686.47	587.99	117.95	116.75	9076.00	11818.90	10599.79	130.22	111.50								
CENTRAL HYDRO	2884.30	9076.00	582.00	686.47	587.99	117.95	116.75	9076.00	11818.90	10599.79	130.22	111.50								
TOTAL HYDRO	2884.30	9076.00	582.00	686.47	587.99	117.95	116.75	9076.00	11818.90	10599.79	130.22	111.50								
TOTAL GENERATION	2884.30	9076.00	582.00	686.47	587.99	117.95	116.75	9076.00	11818.90	10599.79	130.22	111.50								
<b>DELHI</b>																				
<b>STATE SECTOR</b>																				
RAJGHAT TPS	135.00	400.00	36.00	0.00	25.71	0.00	0.00	400.00	46.60	423.54	11.65	11.00								
IPGPCL COAL	135.00	400.00	36.00	0.00	25.71	0.00	0.00	400.00	46.60	423.54	11.65	11.00								
STATE THERMAL	135.00	400.00	36.00	0.00	25.71	0.00	0.00	400.00	46.60	423.54	11.65	11.00								
I.P.CCPP	270.00	1000.00	77.00	29.02	58.84	37.69	49.32	1000.00	467.17	936.07	46.72	49.91								
PRAGATI CCGT-III	1500.00	2000.00	173.00	131.68	194.69	76.12	67.64	2000.00	1911.55	2235.08	95.58	85.52								
PRAGATI CGPP	330.40	2400.00	213.00	7.32	128.13	3.44	5.71	2400.00	1539.34	1846.94	64.14	83.35								
IPGPCL NATURAL	2100.40	5400.00	463.00	168.02	381.66	36.29	44.02	5400.00	3918.06	5018.09	72.56	78.08								
STATE NATURAL	2100.40	5400.00	463.00	168.02	381.66	36.29	44.02	5400.00	3918.06	5018.09	72.56	78.08								
<b>PVT SECTOR</b>																				
RITHALA CCPP	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
NDPL NATURAL	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
PVT NATURAL	108.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
<b>CENTRAL SECTOR</b>																				
BADARPUR TPS	705.00	3900.00	356.00	130.37	141.80	36.62	91.94	3900.00	2241.44	3281.21	57.47	68.31								
NTPC Ltd. COAL	705.00	3900.00	356.00	130.37	141.80	36.62	91.94	3900.00	2241.44	3281.21	57.47	68.31								
CENTRAL THERMAL	705.00	3900.00	356.00	130.37	141.80	36.62	91.94	3900.00	2241.44	3281.21	57.47	68.31								

Progress of Transmission Sector in the Country Upto March,2016

As on 31.03.2016

1. TRANSMISSION LINES

(All fig. in CKM)

At the end of	± 800 kV HVDC				± 500 kV HVDC				765 kV				400 kV				220 kV				Grand Total
	Central	State	JV/Private	Total	Central	State	JV/Private	Total	Central	State	JV/Private	Total	Central	State	JV/Private	Total	Central	State	JV/Private	Total	
6th plan	0	0	0	0	0	0	0	0	0	0	0	0	1831	4198		6029	1641	44364		46005	
7th plan	0	0	0	0	0	0	0	0	0	0	0	0	13068	6756		19824	4560	55071		59631	
8th plan	0	0	0	0	1634	0	0	1634	0	0	0	0	23001	13141		36142	6564	73036		79600	
9th plan	0	0	0	0	3234	1504	0	4738	751	409		1160	29345	20033		49378	8687	88306		96993	
10th plan	0	0	0	0	4368	1504	0	5872	1775	409	2184	48708	24730	2284	75722	9444	105185		114629		
11th Plan	0	0	0	0	5948	1504	1980	9432	4839	411	5250	71023	30191	5605	106619	10140	125010	830	135980		
12th Plan (upto Mar 2016)	3506	0	0	3506	5948	1504	1980	9432	20134	840	3271	24245	88795	44441	13894	147130	10981	145359	898	157238	

Note :- The figure upto the end of 10th plan in for stringing progress including the lines not commissioned. Now only commissioned lines are reckoned. Accordingly the figure for 10th plan (end) may read as 187555 after adjusting with (-) 10652 Ckm.

## Progress report of village electrification as on 31-3-2012

Sl. No.	States/UTs	Total inhabited villages as per 2001 census	Villages electrified as on 31-03-2011 as per new definition(Prov.)		Achievement from 1-04-2011 to 31-03-2012 (Prov.)	Cummulative achievement as on 31-03-2012 as per new definition	%age of villages electrified as on 31-03-2012	Unelectrified villages as on 31-02-2012 (V)
			Numbers	%age				
1	Andhra Pradesh	26613	26613	100.0	-	26613	100.0	0
2	Arunachal Pradesh	3863	2256	58.4	661	2917	75.5	946
3	Assam	25124	22845	90.9	1311	24156	96.1	968
4	Bihar	39015	30237	77.5	4825	35062	89.9	3953
5	Delhi	158	158	100.0	-	158	100.0	0
6	Jharkhand	29354	25966	88.5	224	26190	89.2	3164
7	Goa	347	347	100.0	-	347	100.0	0
8	Gujarat	18066	18029	99.8	0	18029	99.8	37
9	Haryana	6764	6764	100.0	-	6764	100.0	0
10	Himachal Pradesh	17495	17412	99.5	54	17466	99.8	29
11	Jammu&Kashmir	6417	6304	98.2	NA	6304	98.2	113
12	Karnataka	27481	27466	99.9	2	27468	100.0	13
13	Kerala	1364	1364	100.0	-	1364	100.0	0
14	Madhya Pradesh	52117	50605	97.1	73	50678	97.2	1439
15	Chattisgarh	19744	19177	97.1	4	19181	97.1	563
16	Maharashtra	41095	41000	99.8	59	41059	99.9	36
17	Manipur	2315	1997	86.3	NA	1997	86.3	318
18	Meghalaya	5782	3842	66.4	583	4425	76.5	1357
19	Mizoram	707	623	88.1	34	657	92.9	50
20	Nagaland	1278	866	67.8	30	896	70.1	382
21	Orissa	47529	36349	76.5	1151	37500	78.9	10029
22	Punjab	12278	12278	100.0	-	12278	100.0	0
23	Rajasthan	39753	37785	95.0	461	38246	96.2	1507
24	Sikkim	450	425	94.4	25	450	100.0	0
25	Tamil Nadu	15400	15400	100.0	-	15400	100.0	0
26	Tripura	858	569	66.3	42	611	71.2	247
27	Uttar Pradesh	97942	86450	88.3	NA	86450	88.3	11492
28	Uttaranchal	15761	15593	98.9	0	15593	( <sup>^</sup> ) 98.9	168
29	West Bengal	37945	37762	99.5	57	37819	99.7	126
<b>Total(States)</b>		<b>593015</b>	<b>546482</b>	<b>92.2</b>	<b>9596</b>	<b>556078</b>	<b>93.8</b>	<b>36937</b>
<b>Union Territories</b>								
1	A & N Island	501	336	67.1	3	339	67.7	162
2	Chandigarh	23	23	100.0	-	23	100.0	0
3	D & N Haveli	70	70	100.0	-	70	100.0	0
4	Daman & Diu	23	23	100.0	-	23	100.0	0
5	Lakshadweep	8	8	100.0	-	8	100.0	0
6	Pondicherry	92	92	100.0	-	92	100.0	0
<b>Total(UTs)</b>		<b>717</b>	<b>552</b>	<b>77.0</b>	<b>3</b>	<b>555</b>	<b>77.4</b>	<b>162</b>
<b>Total</b>		<b>593732</b>	<b>547034</b>	<b>92.1</b>	<b>9599</b>	<b>556633</b>	<b>93.8</b>	<b>37099</b>

(V)It includes no. of villages that are not complying the new definition of village electrification of 2004& no. of villages where no electrification infrastructure is available.

NA-Not Available

(<sup>^</sup>) It includes 75 no. of villages which are found Un-inhabited and submerged due to Tehri dam.

(\*)Out of this 162 villages,88 villages are in encroached forest area and cannot be electrified as per Supreme Court order and 72 villages have been washed away in Tsunami and population shifted to other places already electrified.

Disclaimer: The data included in monthly progress report of village electrification published by CEA is provisional in nature as indicated in all the reports. The data in the report is updated every month based on the information received from States/ distribution utilities as and when reported but the data for all the states for a particular month is generally not made available simultaneously to reflect the countrywide picture for a particular month. As such, each monthly report of village electrification of CEA

## Progress report of village electrification as on 31-03-2013

Sl. No.	States/UTs	Total inhabited villages as per 2001 census	Villages electrified as on 31-03-2012 as per new definition (Provisional)		Cumulative achievement as on 31-03-2013 as per new definition (Prov.)	%age of villages electrified as on 31-03-2013	Unelectrified villages as on 31-03-2013 (V)
			Numbers	%age			
1	Andhra Pradesh	26613	26613	100.0	26613	100.0	0
2	Arunachal Pradesh	3863	2917	75.5	2917	75.5	946
3	Assam	25124	24156	96.1	24156	96.1	968
4	Bihar	39015	35062	89.9	36744	94.2	2271
5	Delhi	158	158	100.0	158	100.0	0
6	Jharkhand	29354	26190	89.2	26190	89.2	3164
7	Goa	347	347	100.0	347	100.0	0
8	Gujarat	18066	18031	99.8	18031	99.8	35 (**)
9	Haryana	6764	6764	100.0	6764	100.0	0
10	Himachal Pradesh	17495	17466	99.8	17480	99.9	15
11	Jammu & Kashmir	6417	6304	98.2	6304	98.2	113
12	Karnataka	27481	27468	99.95	27468	100.0	13
13	Kerala	1364	1364	100.0	1364	100.0	0
14	Madhya Pradesh	52117	50678	97.2	50863	97.6	1254
15	Chattisgarh	19744	19181	97.1	19181	97.1	563
16	Maharashtra	41095	41059	99.9	41059	99.9	36 (***)
17	Manipur	2315	1997	86.3	1997	86.3	318
18	Meghalaya	5782	4589	79.4	4988	86.3	794
19	Mizoram	707	661	93.5	661	93.5	46
20	Nagaland	1278	896	70.1	896	70.1	382
21	Orissa	47529	37500	78.9	37500	78.9	10029
22	Punjab	12278	12278	100.0	12278	100.0	0
23	Rajasthan	39753	38246	96.2	38771	97.5	982 (**\$)
24	Sikkim	450	450	100.0	450	100.0	0
25	Tamil Nadu	15400	15400	100.0	15400	100.0	0
26	Tripura	858	611	71.2	611	71.2	247
27	Uttar Pradesh	97942	87086	88.9	87086	88.9	10856
28	Uttaranchal	15761	15593	98.9	15593 (*)	98.9	168
29	West Bengal	37945	37819	99.7	37841	99.7	104
<b>Total(States)</b>		<b>593015</b>	<b>556884</b>	<b>93.9</b>	<b>559711</b>	<b>94.4</b>	<b>33304</b>
<b>Union Territories</b>							
1	A & N Island	501	339	67.7	339	67.7	162 (*)
2	Chandigarh	23	23	100.0	23	100.0	0
3	D & N Haveli	70	70	100.0	70	100.0	0
4	Daman & Diu	23	23	100.0	23	100.0	0
5	Lakshadweep	8	8	100.0	8	100.0	0
6	Pondicherry	92	92	100.0	92	100.0	0
<b>Total(UTs)</b>		<b>717</b>	<b>555</b>	<b>77.4</b>	<b>555</b>	<b>77.4</b>	<b>162</b>
<b>Total</b>		<b>593732</b>	<b>557439</b>	<b>93.9</b>	<b>560266</b>	<b>94.4</b>	<b>33466</b>

(V) It includes no. of villages that are not complying the new definition of village electrification of 2004 & no. of villages where no electrification infrastructure is available.

NA-Not Available

(\*) It includes 75 no. of villages which are found Un-inhabited and submerged due to Tehri dam.

(\*\*) Out of this 162 villages, 88 villages are in encroached forest area and cannot be electrified as per Supreme Court order and 72 villages have been washed away in Tsunami and population shifted to other places already electrified.

(\*\*\*) 35 villages unelectrified due to going under submergence, deep water, deep forest area and at present no population.

(\$\$\$) 221 villages falls under forest/submerged.

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## Progress report of village electrification as on 31-03-2014

SI. No.	States/UTs	Total inhabited villages as per 2001 census	Villages electrified as on 31-03-2013 as per new definition (Provisional)		Cumulative achievement as on 31-03-2014 as per new definition (Prov.)	%age of villages electrified as on 31-03-2014	Unelectrified villages as on 31-03-2014 (V)
			Numbers	%age			
1	Andhra Pradesh	26613	26613	100.0	26613	100.0	0
2	Arunachal Pradesh	3863	2917	75.5	2917	75.5	946
3	Assam	25124	24156	96.1	24156	96.1	968
4	Bihar	39015	35765	91.7	37002	94.8	2013
5	Delhi	158	158	100.0	158	100.0	0
6	Jharkhand	29354	26190	89.2	26190	89.2	3164
7	Goa	347	347	100.0	347	100.0	0
8	Gujarat	18066	18031	99.8	18031	99.8	35
9	Haryana	6764	6764	100.0	6764	100.0	0
10	Himachal Pradesh	17495	17480	99.9	17480	99.9	15
11	Jammu&Kashmir	6417	6304	98.2	6304	98.2	113
12	Karnataka	27481	27468	99.95	27468	100.0	13
13	Kerala	1364	1364	100.0	1364	100.0	0
14	Madhya Pradesh	52117	50863	97.6	50970	97.8	1147
15	Chattisgarh	19744	19181	97.1	19224	97.4	520
16	Maharashtra	41095	41059	99.9	41059	99.9	36
17	Manipur	2315	1997	86.3	1997	86.3	318
18	Meghalaya	5782	4988	86.3	4988	86.3	794
19	Mizoram	707	661	93.5	674	95.3	33
20	Nagaland	1278	896	70.1	896	70.1	382
21	Orissa	47529	37500	78.9	38920	81.9	8609
22	Punjab	12278	12278	100.0	12278	100.0	0
23	Rajasthan	39753	38771	97.5	39027	98.2	726
24	Sikkim	450	450	100.0	450	100.0	0
25	Tamil Nadu	15400	15400	100.0	15400	100.0	0
26	Tripura	858	797	92.9	798	93.0	60
27	Uttar Pradesh	97942	96850	98.9	96850	98.9	1092
28	Uttaranchal	15761	15593	98.9	15593	(*)	168
29	West Bengal	37945	37941	99.99	37941	99.99	4
	<b>Total(States)</b>	<b>593015</b>	<b>568782</b>	<b>95.9</b>	<b>571859</b>	<b>96.4</b>	<b>21156</b>
	<b>Union Territories</b>						
1	A & N Island	501	339	67.7	339	67.7	162
2	Chandigarh	23	23	100.0	23	100.0	0
3	D & N Haveli	70	70	100.0	70	100.0	0
4	Daman & Diu	23	23	100.0	23	100.0	0
5	Lakshadweep	8	8	100.0	8	100.0	0
6	Pondicherry	92	92	100.0	92	100.0	0
	<b>Total(UTs)</b>	<b>717</b>	<b>555</b>	<b>77.4</b>	<b>555</b>	<b>77.4</b>	<b>162</b>
	<b>Total</b>	<b>593732</b>	<b>569337</b>	<b>95.9</b>	<b>572414</b>	<b>96.4</b>	<b>21318</b>

(V) It includes no. of villages that are not complying the new definition of village electrification of 2004 & no. of villages where no electrification infrastructure is available.

NA-Not Available

(\*) It includes 75 no. of villages which are found Un-inhabited and submerged due to Tehri dam.

(\*) Out of this 162 villages, 88 villages are in encroached forest area and cannot be electrified as per Supreme Court order and 72 villages have been washed away in Tsunami and population shifted to other places already electrified.

(\*\*) 35 villages unelectrified due to going under submergence, deepwater, deep forest area and at present no population.

(\*\*\*) 36 no. of villages to be electrified by non-conventional method.

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Progress report of village electrification as on 31-03-2015 as per 2011

SI. No.	States/UTs	Total inhabited villages as per 2011 census	Villages electrified as on 31-03-2014 (Provisional)(#)		Cummulative achievement as on 31-03-2015 (Prov.)	%age of villages electrified as on 31-03-2015	Unelectrified villages as on 31-03-2015
			Numbers	%age			
1	Andhra Pradesh	26286	26286	100.0	26286	100.0	0
2	Arunachal Pradesh	5258	3586	68.2	3694	70.3	1564
3	Assam	25372	24404	96.2	24569	96.8	803
4	Bihar	39073	37002	94.7	37316	95.5	1757
5	Chattisgarh	19567	19055	97.4	19124	97.7	443
6	Goa	320	320	100.0	320	100.0	0
7	Gujarat	17843	17843	100.0	17843	100.0	0
8	Haryana	6642	6642	100.0	6642	100.0	0
9	Himachal Pradesh	17882	17822	99.66	17828	99.70	54
10	Jammu&Kashmir	6337	6224	98.2	6224	98.2	113
11	Jharkhand	29492	27164	92.1	27328	92.7	2164
12	Karnataka	27397	27363	99.88	27363	99.9	34
13	Kerala	1017	1017	100.0	1017	100.0	0
14	Madhya Pradesh	51929	50381	97.0	50471	97.2	1458
15	Maharashtra	40956	40920	99.9	40920	99.9	36
16	Manipur	2379	2061	86.6	2061	86.6	318
17	Meghalaya	6459	5132	79.5	5176	80.1	1283
18	Mizoram	704	596	84.7	659	93.6	45
19	Nagaland	1400	1261	90.1	1271	90.8	129
20	Odisha	47677	43750	91.8	43799	91.9	3878
21	Punjab	12168	12168	100.0	12168	100.0	0
22	Rajasthan	43264	39036	90.2	39098	90.4	4166
23	Sikkim	425	425	100.0	425	100.0	0
24	Tamil Nadu	15049	15049	100.0	15049	100.0	0
25	Tripura	863	837	97.0	837	97.0	26
26	Uttar Pradesh	97813	96515	98.7	96515	98.7	1298
27	UttaraKhand	15745	15638	99.3	15638	99.3	107
28	West Bengal	37463	37461	99.99	37461	99.99	2
	<b>Total(States)</b>	<b>596780</b>	<b>575958</b>	<b>96.5</b>	<b>577102</b>	<b>96.7</b>	<b>19678</b>
	<b>Union Territories</b>						
1	A & N Island	396	308	77.8	308	77.8	88
2	Chandigarh	5	5	100.0	5	100.0	0
3	D & N Haveli	65	65	100.0	65	100.0	0
4	Daman & Diu	19	19	100.0	19	100.0	0
5	Delhi	103	103	100.0	103	100.0	0
6	Lakshadweep	6	6	100.0	6	100.0	0
7	Pondicherry	90	90	100.0	90	100.0	0
	<b>Total(UTs)</b>	<b>684</b>	<b>596</b>	<b>87.1</b>	<b>596</b>	<b>87.1</b>	<b>88</b>
	<b>Total</b>	<b>597464</b>	<b>576554</b>	<b>96.5</b>	<b>577698</b>	<b>96.7</b>	<b>19766</b>

(^) Villages in forest area

(#) The figures are provisional and subject to confirmation from States.

**Disclaimer:**The data included in monthly progress reports of village electrification published by CEA is provisional in nature as indicated in all the reports. The data in the report is updated every month based on the information received from States/ distribution utilities as and when reported but the data for all the states for a particular month is generally not made available simultaneously to reflect the countrywide picture for a particular month. Number of total villages and number of electrified villages have also been adjusted for changes observed from Census 2011 data. As such, each monthly report of village electrification of CEA is independent of the earlier published reports and any derived data based on the earlier reports of CEA may not show a correct picture for that period.

Appx-2-59 Villages electrified (March 2016)

**Progress report of village electrification as on 31.03.2016**

Sl. No.	States/UTs	Total inhabited villages as per 2011 census	Villages Unelectrified	Villages electrified		Village Electrification During 2015-16	Cumulative achievement	%age of villages electrified	Unelectrified villages
				Numbers	%age				
			<b>All above Column Data As on 31.03.2015</b>			<b>All above Column Data As On 31.03.2016</b>			
1	Andhra Pradesh	16158	0	16158	100.0	0	16158	100.0	0
2	Arunachal Pradesh	5258	1578	3680	70.0	174	3854	73.3	1404
3	Assam	25372	2892	22480	88.6	942	23422	92.3	1950
4	Bihar	39073	2747	36326	93.0	1754	38080	97.5	993
5	Chattisgarh	19567	1080	18487	94.5	405	18892	96.6	675
6	Goa	320	0	320	100.0	0	320	100.0	0
7	Gujarat	17843	0	17843	100.0	0	17843	100.0	0
8	Haryana	6642	0	6642	100.0	0	6642	100.0	0
9	Himachal Pradesh	17882	35	17847	99.80	1	17848	99.81	34
10	Jammu&Kashmir	6337	134	6203	97.9	27	6230	98.3	107
11	Jharkhand	29492	2525	26967	91.4	750	27717	94.0	1775
12	Karnataka	27397	39	27358	99.86	0	27358	99.9	39
13	Kerala	1017	0	1017	100.0	0	1017	100.0	0
14	Madhya Pradesh	51929	469	51460	99.1	214	51674	99.5	255
15	Maharashtra	40956	0	40956	100.0	0	40956	100.0	0
16	Manipur	2379	276	2103	88.4	75	2178	91.6	201
17	Meghalaya	6459	912	5547	85.9	1	5548	85.9	911
18	Mizoram	704	58	646	91.8	16	662	94.0	42
19	Nagaland	1400	82	1318	94.1	0	1318	94.1	82
20	Odisha	47677	3489	44188	92.7	1264	45452	95.3	2225
21	Punjab	12168	0	12168	100.0	0	12168	100.0	0
22	Rajasthan	43264	483	42781	98.9	163	42944	99.3	320
23	Sikkim	425	0	425	100.0	0	425	100.0	0
24	Tamil Nadu	15049	0	15049	100.0	0	15049	100.0	0
25	Tripura	863	26	837	97.0	9	846	98.0	17
26	Telangana	10128	0	10128	100.0	0	10128	100.0	0
27	Uttar Pradesh	97813	1529	96284	98.4	1305	97589	99.8	224
28	UttaraKhand	15745	76	15669	99.5	0	15669	99.5	76
29	West Bengal	37463	22	37441	99.94	8	37449	99.96	14
	<b>Total(States)</b>	<b>596780</b>	<b>18452</b>	<b>578328</b>	<b>96.9</b>	<b>7108</b>	<b>585436</b>	<b>98.1</b>	<b>11344</b>
	<b>Union Territories</b>								
1	A & N Island	396	55	341	86.1		341	86.1	55
2	Chandigarh	5		5	100.0		5	100.0	0
3	D & N Haveli	65		65	100.0		65	100.0	0
4	Daman & Diu	19		19	100.0		19	100.0	0
5	Delhi	103		103	100.0		103	100.0	0
6	Lakshadweep	6		6	100.0		6	100.0	0
7	Pondicherry	90		90	100.0		90	100.0	0
	<b>Total(UTs)</b>	<b>684</b>		<b>629</b>	<b>92.0</b>	<b>0</b>	<b>629</b>	<b>92.0</b>	<b>55</b>
	<b>Total</b>	<b>597464</b>	<b>18507</b>	<b>578957</b>	<b>96.9</b>	<b>7108</b>	<b>586065</b>	<b>98.1</b>	<b>11399</b>

The figures are based on the data available on DDUGJY website (Except Union Territories).

**Disclaimer:** The data included in monthly progress reports of village electrification published by CEA is provisional in nature as indicated in all the reports. The data in the report prior to October, 2015 was updated every month based on the information received from States/distribution utilities as and when reported but the data for all the states for a particular month was generally not made available simultaneously to reflect the countrywide picture for a particular month. Number of total villages and number of electrified villages have also been adjusted for changes observed from Census 2011 data. As such, each monthly report of village electrification of CEA is independent of the earlier published reports and any derived data based on the earlier reports of CEA may not show a correct picture for that period.



## World Energy Outlook 2013 – Electricity Access Database

### Definitions and approach

The International Energy Agency's *World Energy Outlook* first constructed a database on electrification rates for *WEO-2002*. We have updated this database once again for *WEO-2013*, showing detailed data on urban and rural electrification.

The general paucity of data on electricity access means that it must be gathered through a combination of sources, including: IEA energy statistics; a network of contacts spanning governments, multilateral development banks and country-level representatives of various international organisations; and, other publicly available statistics, such as US Agency for International Development (USAID) supported DHS survey data, the World Bank's Living Standards Measurement Surveys (LSMS), the UN Economic Commission for Latin America and the Caribbean's (ECLAC) statistical publications, and data from national statistics agencies. In the small number of cases where no data could be provided through these channels other sources were used. If electricity access data for 2011 was not available, data for the latest available year was used.

For many countries, data on the urban and rural breakdown was collected, but if not available an estimate was made on the basis of pre-existing data or a comparison to the average correlation between urban and national electrification rates. Often only the percentage of households with a connection is known and assumptions about an average household size are used to determine access rates as a percentage of the population. To estimate the number of people without access, population data comes from OECD statistics in conjunction with the United Nations Population Division reports *World Urbanization Prospects: the 2011 Revision Population Database*, and *World Population Prospects: the 2012 Revision*. Electricity access data is adjusted to be consistent with demographic patterns of urban and rural population. Due to differences in definitions and methodology from different sources, data quality may vary from country to country. Where country data appeared contradictory, outdated or unreliable, the IEA Secretariat made estimates based on cross-country comparisons and earlier surveys.

For further detail, please see our Energy Access methodology note at [www.worldenergyoutlook.org](http://www.worldenergyoutlook.org).

## World Energy Outlook 2015– Electricity Access Database

### Definitions and approach

The International Energy Agency's *World Energy Outlook* first constructed a database on electrification rates for *WEO-2002*. We have updated this database once again for *WEO-2015*, showing detailed data on urban and rural electrification.

The general paucity of data on electricity access means that it must be gathered through a combination of sources, including: IEA energy statistics; a network of contacts spanning governments, multilateral development banks and country-level representatives of various international organisations; and, other publicly available statistics, such as US Agency for International Development (USAID) supported DHS survey data, the World Bank's Living Standards Measurement Surveys (LSMS), the UN Economic Commission for Latin America and the Caribbean's (ECLAC) statistical publications, and data from national statistics agencies. In the small number of cases where no data could be provided through these channels other sources were used. If electricity access data for 2013 was not available, data for the latest available year was used.

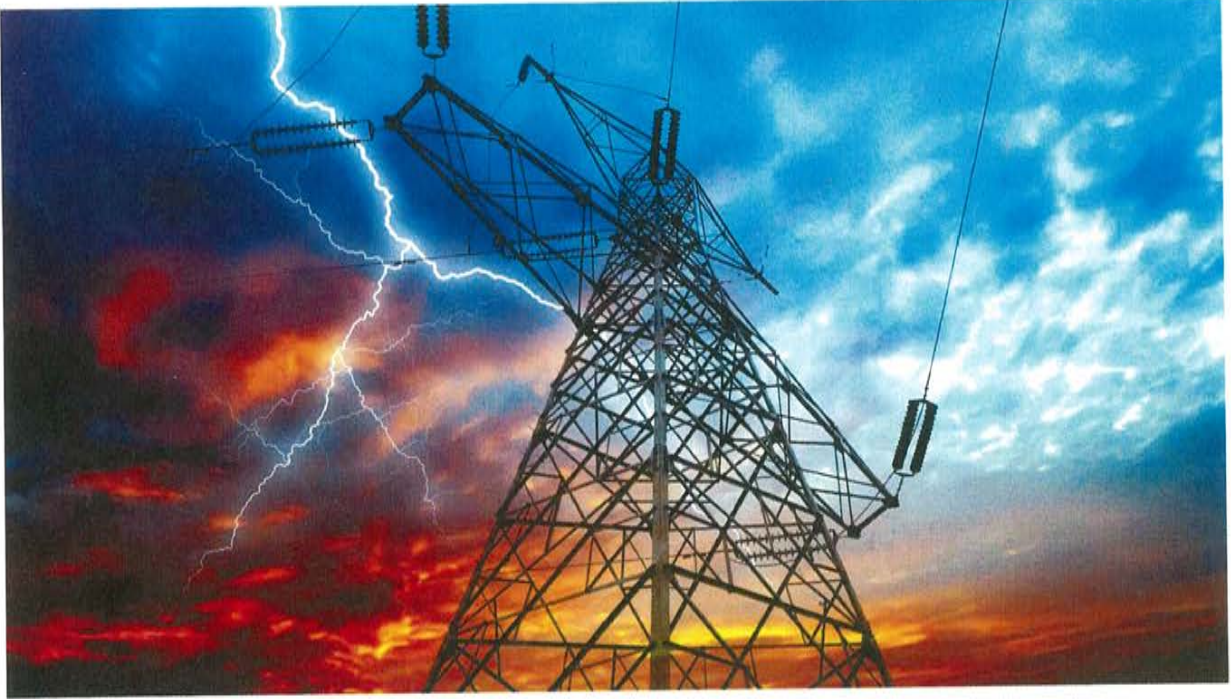
For many countries, data on the urban and rural breakdown was collected, but if not available an estimate was made on the basis of pre-existing data or a comparison to the average correlation between urban and national electrification rates. Often only the percentage of households with a connection is known and assumptions about an average household size are used to determine access rates as a percentage of the population. To estimate the number of people without access, population data comes from OECD statistics in conjunction with the United Nations Population Division reports *World Urbanization Prospects: the 2014 Revision Population Database*, and *World Population Prospects: the 2012 Revision*. Electricity access data is adjusted to be consistent with demographic patterns of urban and rural population. Due to differences in definitions and methodology from different sources, data quality may vary from country to country. Where country data appeared contradictory, outdated or unreliable, the IEA Secretariat made estimates based on cross-country comparisons and earlier surveys.

For further detail, please see our Energy Access methodology note at [www.worldenergyoutlook.org](http://www.worldenergyoutlook.org).

取扱注意



# भारत में विद्युत टैरिफ तथा शुल्क एवं विद्युत आपूर्ति की औसत दरें Electricity Tariff & Duty and Average rates of electricity supply in India



日本エネルギー経済研究所



00052121

## मार्च March 2015

भारत सरकार, केन्द्रीय विद्युत प्राधिकरण  
Government of India, Central Electricity Authority

取扱注意



# अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics

## सामान्य पुनर्विलोकन 2014

(2012-2013 के आँकड़े समाविष्ट)

## GENERAL REVIEW 2014

(Containing Data for the Year 2012-2013)

भारत सरकार,  
विद्युत मंत्रालय  
केन्द्रीय विद्युत प्राधिकरण,  
नई दिल्ली  
अगस्त, 2014



भारत  
INDIA

日本エネルギー経済研究所



00052120

Government of India,  
Ministry of Power  
Central Electricity Authority,  
New Delhi

(अधिनियम 2003 की धारा 73(आई) एवं (जे) के तहत के.वि.प्रा. के दायित्व के पालन हेतु प्रकाशित)

(Published in fulfillment of CEA's obligation under Section 73(i) & (j) of the Electricity Act 2003)



International  
Energy Agency  
Secure  
Sustainable  
Together

*Apps-2-64 India Energy Outlook (WEO 2015)*

# India Energy Outlook

World Energy Outlook Special Report



सत्यमेव जयते

**Ministry of Power**  
Government of India

**State Distribution Utilities**  
**Fourth Annual Integrated Rating**

**JUNE, 2016**



Ministry of Power, Coal and New &  
Renewable Energy

# Towards Ujwal Bharat UDAY: The Story of Reforms

9<sup>th</sup> November, 2015

सबका साथ  
सबका विकास

UJWAL  
BHARAT

1



# The Electricity Act, 2003

Government of India

March, 2006

## Background

- Three erstwhile Acts that regulated the electricity sector:
  - The Indian Electricity Act, 1910
  - The Electricity (Supply) Act, 1948
  - The Electricity Regulatory Commissions Act, 1998

2  
Contd..



रजिस्ट्री सं. डीएल-33004/2003

REGISTERED NO. DL-33004/2003



**भारत का राजपत्र**  
**The Gazette of India**

असाधारण

EXTRAORDINARY

भाग II — खण्ड 1

PART II — Section 1

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 39]

नई दिल्ली, सोमवार, जून 2, 2003 / ज्येष्ठ 12, 1925

No. 39]

NEW DELHI, MONDAY, JUNE 2, 2003 / JYAISTHA 12, 1925

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF LAW AND JUSTICE

(Legislative Department)

*New Delhi, the 2nd June, 2003/Jyaistha 12, 1925(Saka)*

The following Act of Parliament received the assent of the President on the 26th May, 2003, and is hereby published for general information :—

THE ELECTRICITY ACT, 2003

[No. 36 OF 2003]

[26th May, 2003]

An Act to consolidate the laws relating to generation, transmission, distribution, trading and use of electricity and generally for taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity to all areas, rationalisation of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies, constitution of Central Electricity Authority, Regulatory Commissions and establishment of Appellate Tribunal and for matters connected therewith or incidental thereto.

THE ELECTRICITY ACT, 2003

[No. 36 OF 2003]

*An Act to consolidate the laws relating to generation, transmission, distribution, trading and use of electricity and generally for taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity to all areas, rationalisation of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies constitution of Central Electricity Authority, Regulatory Commissions and establishment of Appellate Tribunal*

**MINISTRY OF LAW AND JUSTICE  
(Legislative Department)**

*New Delhi, the 31st December, 2003/Pausa 10, 1925 (Saka)*

The following Act of Parliament received the assent of the President on the 30<sup>th</sup> December, 2003 and is hereby published for general information:--

**THE ELECTRICITY (AMENDMENT) ACT, 2003  
No.57 OF 2003**

[30th December, 2003.]

An Act to amend the Electricity Act, 2003.

Be it enacted by Parliament in the Fifty-fourth Year of the Republic of India as follows:-

1. (1) This Act may be called the Electricity (Amendment) Act, 2003.

(2) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

Short title  
and  
commence-  
ment.

36 of 2003  
2. In section 14 of the Electricity Act, 2003 (hereinafter referred to as the principal Act), in the sixth proviso, for the brackets and words “(including the capital adequacy, creditworthiness, or code of conduct)”, the words “relating to the capital adequacy, creditworthiness, or code of conduct” shall be substituted.

Amendment  
of section  
14

Amendment  
of section  
42.  
3. In section 42 of the principal Act, in sub-section (2), after the fourth proviso, the following proviso shall be inserted, namely:-

“Provided also that the State Commission shall, not later than five years from the date of commencement of the Electricity (Amendment) Act, 2003, by regulations, provide such open access to all consumers who require a supply of electricity where the maximum power to be made available at any time exceeds one megawatt.”.

Substitution  
of new  
section for  
section 121  
4. For section 121 of the principal act, the following section shall be substituted, namely:-

  
**भारत का राजपत्र**  
**The Gazette of India**

असाधारण

EXTRAORDINARY

भाग II — खण्ड 1

PART II — Section 1

प्राधिकार से प्रकाशित

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सं० 31]

नई दिल्ली, मंगलवार, मई 29, 2007 / ज्येष्ठ 7, 1929

No.31]

NEW DELHI, TUESDAY, MAY 29, 2007 / JYAISTHA 8, 1929

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation.

**MINISTRY OF LAW AND JUSTICE**  
**(Legislative Department)**

*New Delhi, the 29th May, 2007/Jyaistha 8, 1929 (Saka)*

The following Act of Parliament received the assent of the President on the 28th May, 2007, and is hereby published for general information:—

**THE ELECTRICITY (AMENDMENT) ACT, 2007**

No. 26 OF 2007

[28th May, 2007.]

An Act further to amend the Electricity Act, 2003.

BE it enacted by Parliament in the Fifty-eighth Year of the Republic of India as follows:—

1. (1) This Act may be called the Electricity (Amendment) Act, 2007.

Short title and  
commencement.

(2) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

THE GAZETTE OF INDIA : EXTRAORDINARY [PART II – SECTION 3(ii)]

NOTIFICATION

New Delhi, the 3<sup>rd</sup> March, 2010

S.O. 528(E). - In exercise of the powers conferred by clause (b) of sub-section (1) of Section 49 of the Special Economic Zones Act, 2005 (28 of 2005), the Central Government hereby notifies that the provisions of clause (b) of Section 14 of the Electricity Act, 2003 (36 of 2003), shall apply to all Special Economic Zones notified under sub-section (1) of section 4 of the Special Economic Zones Act, 2005, subject to the following modification, namely:-

In clause (b) of Section 14 of the Electricity Act, 2003 (36 of 2003), the following proviso shall be inserted, namely:-

“Provided that the Developer of a Special Economic Zone notified under sub-section (1) of Section 4 of the Special Economic Zones Act, 2005, shall be deemed to be a licensee for the purpose of this clause, with effect from the date of notification of such Special Economic Zone”.

[F.No. D.6/12/2009-SEZ]

T. SRINIDHI, Director

AS INTRODUCED IN LOK SABHA

**Bill No. 191 of 2014**

THE ELECTRICITY (AMENDMENT) BILL, 2014

A  
BILL

*further to amend the Electricity Act, 2003.*

BE it enacted by Parliament in the Sixty-fifth Year of the Republic of India as follows:—

1. (1) This Act may be called the Electricity (Amendment) Act, 2014.

Short title and  
commencement.

(2) It shall come into force on such date as the Central Government may, by notification in the Official Gazette, appoint.

36 of 2003. 5

2. In section 2 of the Electricity Act, 2003 (hereinafter referred as the principal Act)—

Amendment  
of section 2.

(i) after clause (1), the following clause shall be inserted, namely:—

‘(1A) “ancillary services”, in relation to power system or grid operation, means the services necessary to support the power system or grid operation for maintaining power quality, reliability and security of the grid;’

# **THE ELECTRICITY REGULATORY COMMISSIONS ACT, 1998**

(No. 14 of 1998)

## **CHAPTER I PRELIMINARY**

- 1. Short title, extent and commencement.**
- 2. Definitions.**

## **CHAPTER II CENTRAL ELECTRICITY REGULATORY COMMISSION**

- 3. Establishment and incorporation of Central Commission**
- 4. Qualification for appointment of Chairperson and other Members of the Central Commission.**
- 5. Constitution of Selection Committee to recommend Members**
- 6. Term of office, salary and allowances and other conditions of service of Chairperson and Members**
- 7. Removal of Members**
- 8. Officers of the Central Commission and other staff**
- 9. Proceedings of the Central Commission**
- 10. Vacancies, etc., not to invalidate the proceedings of the Central Commission**
- 11. Expenses of Central Commission to be charged upon Consolidated-Fund of India**
- 12. Powers of the Central Commission**

## **CHAPTER III POWERS AND FUNCTIONS OF THE CENTRAL COMMISSION**

- 13. Functions of the Central Commission**

**National Electricity Policy**

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The Gazette of India

**EXTRAORDINARY**

**PART I - Section 1**

**PUBLISHED BY AUTHORITY**

**No...., New Delhi, Dated ....**

**Ministry of Power**

New Delhi,

**Dated the 12th, February, 2005**

**RESOLUTION**

**No. 23/40/2004-R&R (Vol.II)**

**1.0 INTRODUCTION**

1.1 In compliance with section 3 of the Electricity Act 2003 the Central Government hereby notifies the National Electricity Policy.

1.2 Electricity is an essential requirement for all facets of our life. It has been recognized as a basic human need. It is a critical infrastructure on which the socio-economic development of the country depends. Supply of electricity at reasonable rate to rural India is essential for its overall development. Equally important is availability of reliable and quality power at competitive rates to Indian industry to make it globally competitive and to enable it to exploit the tremendous potential of employment generation. Services sector has made significant contribution to the growth of our economy. Availability of quality supply of electricity is very crucial to sustained growth of this segment.

1.3 Recognizing that electricity is one of the key drivers for rapid economic growth and poverty alleviation, the nation has set itself the target of providing access to all households in next five years. As per Census 2001, about 44% of the households do not have access to electricity. Hence meeting the target of providing universal access is a daunting task requiring significant addition to generation capacity and expansion of the transmission and distribution network.

1.4 Indian Power sector is witnessing major changes. Growth of Power Sector in India since its Independence has been noteworthy. However, the demand for power has been outstripping the growth of availability. Substantial peak and energy shortages prevail in the country. This is due to inadequacies in generation, transmission & distribution as well as inefficient use of electricity. Very high level of technical and commercial losses and lack of commercial approach in management of utilities has led to unsustainable financial operations. Cross-subsidies have risen to unsustainable levels. Inadequacies in distribution networks has been one of the major reasons for poor quality of supply.

1.5 Electricity industry is capital-intensive having long gestation period. Resources of power generation are unevenly dispersed across the country. Electricity is a commodity that can not be stored in the grid where demand and supply have to be continuously balanced. The widely distributed and rapidly increasing demand requirements of the country need to be met in an



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग I—खण्ड 1

PART I—Section 1

प्राधिकार से प्रकाशित

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No. 39] NEW DELHI, THURSDAY, JANUARY 28, 2016/MAGHA 8, 1937

विद्युत मंत्रालय

संकल्प

नई दिल्ली, 28 जनवरी, 2016

टैरिफ नीति

सं. 23/2/2005-आर एंड आर (खंड-IX).-1.0 प्रस्तावना

1.1 विद्युत अधिनियम, 2003 की धारा 3 का अनुपालन करते हुए, केंद्र सरकार ने दिनांक 6 जनवरी, 2006 को टैरिफ नीति अधिसूचित की। टैरिफ नीति में और संशोधन 31 मार्च, 2008, 20 जनवरी, 2011 और 08 जुलाई, 2011 को अधिसूचित किए गए थे। विद्युत अधिनियम, 2003 की धारा 3(3) के अंतर्गत प्रदत्त शक्तियों का प्रयोग करते हुए केंद्र सरकार एतद्वारा भारत के राजपत्र में इस संकल्प के प्रकाशन की तारीख से प्रभावी किए जाने हेतु संशोधित टैरिफ नीति अधिसूचित करती है।

06 जनवरी, 2006 को अधिसूचित टैरिफ नीति के प्रावधानों के अंतर्गत तथा इसमें किए गए संशोधनों के अंतर्गत किसी भी किए गए कार्य अथवा की गई कार्रवाई अथवा तथाकथित किए गए अथवा किए जाने वाले कार्य के होते हुए भी, जहां तक कि इस नीति से असंगत नहीं हैं, उन्हें इस संशोधित नीति के प्रावधानों के अंतर्गत किया गया अथवा किया जाने वाला माना जाएगा।

1.2 राष्ट्रीय विद्युत नीति ने नयी उत्पादन क्षमता की अभिवृद्धि एवं प्रतिवर्ष विद्युत की प्रतिव्यक्ति उपलब्धता बढ़ाने का लक्ष्य निर्धारित किया है एवं न केवल ऊर्जा और व्यस्ततमकालीन कमी को दूर करने के लिए, बल्कि केंद्रीय विद्युत प्राधिकरण द्वारा निर्दिष्ट स्पिनिंग रिजर्व रखा जाना भी है। विद्युत क्षेत्र को आगामी पांच वर्षों में सभी घरों को सस्ती बिजली की उपलब्धता को सुगम बनाने हेतु चुनौती को भी पूरा करना है।

1.3 केन्द्र और राज्य सरकार, बजटीय संसाधनों से अपेक्षित धनराशि मुहैया कराने में असमर्थ हैं अतः विद्युत क्षेत्र में निवेश को आकर्षित करने के लिए निवेश पर उपयुक्त रिटर्न मुहैया कराना अनिवार्य है। देश के आर्थिक विकास में तेजी लाने और लोगों के जीवन स्तर में सुधार लाने का लक्ष्य प्राप्त करने हेतु



## **Brief description of Amendments in the Tariff Policy**

The Tariff Policy was notified by the Central Government under Section 3 of the Electricity Act, 2003 on 6<sup>th</sup> January, 2006 and the same was amended on 31<sup>st</sup> March, 2008, 20<sup>th</sup> January, 2011 and 8<sup>th</sup> July, 2011. The objective of the amendments is to ensure the 4 Es of **Electricity** for all, **Efficiency** to ensure affordable tariffs, **Environment** for a sustainable future, **Ease of doing business** to attract investments and ensure financial viability.

### **Highlights of Amendments:**

#### **Electricity:**

- Regulator will devise power supply trajectory so that 24x7 supply is ensured to all consumers latest by 2021-22 or earlier.
- To enable to provide power in remote unconnected villages through micro grids and provide continuity of power supply, regulator to mandate compulsory purchase of power into grid from such micro grids at regulated tariff.
- Affordable power to people near coal mines by enabling procurement of power from coal washery reject based plants of PSUs or their JVs (with not more than 26% private share) on regulated tariff.

#### **Efficiency:**

- Promote optimum utilization of land and other resources by increasing procurement of power from expansion of existing private power plants on regulated tariff from 50% to 100% of existing capacity. This will result in reduction in overall cost of power to the consumers.
- Allow utilization of surplus assets in order to decrease overall power cost. Create a win-win situation between Generator, utilities and consumers by allowing benefit from sale of un-requisitioned power to be shared on 50:50 basis between parties to the PPA, if not already provided for in the PPA.
- Intra-State Transmission projects shall be developed by State Government through competitive bidding process for projects costing above a threshold limit, which shall be decided by the State Regulator. Inter-State transmission projects to be developed through competitive bidding with flexibility to meet exigencies.
- The cross subsidy surcharge formula has been revised to balance interest of open access consumers and DISCOMs. Besides, Commission has been given flexibility to review it. Apart from this, Railways may be exempted from Cross Subsidy surcharge in consultation with State Government.

CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

New Delhi, the 13<sup>th</sup> August, 2015

NOTIFICATION

No. 18/1/2013/Reg.Aff.(AS Regul.)/CERC.- In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**1. Short title and commencement**

- 1.1. These regulations may be called the Central Electricity Regulatory Commission *(Ancillary Services Operations)* Regulations, 2015.
- 1.2. These regulations shall come into force with effect from such date as may be notified by Commission.

**2. Definitions and Interpretation**

- 2.1. In these regulations, unless the context otherwise requires,
  - a. "Act" means the Electricity Act, 2003 (36 of 2003);
  - b. "actual drawal" in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
  - c. "actual injection" in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;
  - d. "beneficiary" means a person who has a share in an Inter-State Generating Station;
  - e. "Commission" means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
  - f. "Congestion" means a situation where the demand for transmission capacity exceeds the Available Transfer Capability;
  - g. "Detailed Procedure" means the procedure issued under regulation 14;
  - h. "Deviation" in a time-block for a seller means its total actual injection minus its total scheduled generation and for a buyer means its total actual drawal minus its total scheduled drawal;
  - i. "Grid Code" means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 79 of the Act;



# LAW COMMISSION OF INDIA

## TENTH REPORT

### (LAW OF ACQUISITION AND REQUISITIONING OF LAND)

GOVERNMENT OF INDIA MINISTRY OF LAW



**The  
Land Acquisition  
Act, 1894**

**(Act No. 1 of 1894)**



# भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग II — खण्ड 1

PART II — Section 1

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No. 40] NEW DELHI, FRIDAY, SEPTEMBER 27, 2013/ ASVINA 5, 1935 (SAKA)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF LAW AND JUSTICE

(Legislative Department)

*New Delhi, the 27th September, 2013/Asvina 5, 1935 (Saka)*

The following Act of Parliament received the assent of the President on the 26th September, 2013, and is hereby published for general information:—

## THE RIGHT TO FAIR COMPENSATION AND TRANSPARENCY IN LAND ACQUISITION, REHABILITATION AND RESETTLEMENT ACT, 2013

No. 30 OF 2013

[26th September, 2013.]

An Act to ensure, in consultation with institutions of local self-government and Gram Sabhas established under the Constitution, a humane, participative, informed and transparent process for land acquisition for industrialisation, development of essential infrastructural facilities and urbanisation with the least disturbance to the owners of the land and other affected families and provide just and fair compensation to the affected families whose land has been acquired or proposed to be acquired or are affected by such acquisition and make adequate provisions for such affected persons for their rehabilitation and resettlement and for ensuring that the cumulative outcome of compulsory acquisition should be that affected persons become partners in development leading to an improvement in their post acquisition social and economic status and for matters connected therewith or incidental thereto.

BE it enacted by Parliament in the Sixty-fourth Year of the Republic of India as follows:—

CHAPTER I

PRELIMINARY

1. (1) This Act may be called the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.

Short title,  
extent and  
commencement.

Business Standard

# 10 states seek to have their own land laws

This could help bypass central legislation and break the land Bill deadlock

Archis Mohan & Sanjeeb Mukherjee | New Delhi July 16, 2015 Last Updated at 00:59 IST

Ten big states, most of those ruled by the Bharatiya Janata Party (BJP) and its alliance partners, on Wednesday sought to unshackle themselves from the logjam over amendments to the contentious land acquisition Bill, 2013, by proposing to bring their own laws for boosting infrastructure development.

At a NITI Aayog meeting to discuss the land Bill (the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation, and Resettlement Bill, 2015), which Prime Minister Narendra Modi chaired, several chief ministers stressed that land was needed for development and to create jobs.

The PM told the meeting that politics over the Bill was stalling rural development. He said the government would not compromise the country's development but will keep farmers' interest in mind. For this, it would consider all suggestions. Several state governments proposed they could enact their own land laws consistent with the amendments proposed by the Centre in the land acquisition Bill, 2015, rather than waiting indefinitely for a consensus.

"If the Centre fails to approve this (Bill) with consensus, it should be left to states. Those states that want to develop fast... can suggest their own state legislation and the Centre (would) approve that state legislation. An overwhelming section gave such a suggestion," Finance Minister Arun Jaitley said after the meeting.

He did not identify the specific states but it was evident most of these were those ruled by BJP or its alliance partners. Today's meeting was attended by 16 chief ministers. The nine Congress CMs boycotted the meeting, while the Uttar Pradesh, West Bengal and Odisha

Report on  
Short-term Power Market  
in India: 2014-15



Economics Division  
Central Electricity Regulatory Commission



Report on  
Short-term Power Market  
in India: 2015-16



Economics Division  
Central Electricity Regulatory Commission







भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
(विद्युत अधिनियम, 2003 की धारा 73(ए) के तहत  
के.वि.प्रा. के सांविधिक दायित्व का निर्वहन करते हुए)  
(In fulfillment of CEA's obligation under section 73(a) of  
Electricity Act, 2003)

**भार उत्पादन संतुलन रिपोर्ट  
2016-17  
LOAD GENERATION  
BALANCE REPORT  
2016-17**

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moneycontrol

Nov 06, 2015, 09.47 AM | Source: Moneycontrol.com

## **Cabinet clears financial restructuring pkg for discoms**

The Union Cabinet has given its approval that will allow power distribution companies (discoms) in select states to convert their debt into state bonds.

The Union Cabinet has given its approval to a scheme that will allow power distribution companies (discoms) in select states to convert their debt into state bonds, as well as roll out a host of steps to improve efficiency at power plants.

This will ensure struggling discoms can shake off years of losses and start on a path to profitability.

Power Minister Piyush Goyal said that power discoms in several states had been severely mismanaged, resulting in a debt burden upward of Rs 4 lakh crore. This has taken a toll on the power as well as bank sectors.

The plan, called Ujwal Discom Assurance Yojna (UDAY), will shift 75 percent of discoms debt burden from their to states' balance sheets and this will be result in interest cost savings to the tune of 3-5 percent.

States can sell the balance 25 percent as state-backed bonds. State government's power bonds will carry interest rates of g-sec plus 50 basis points.

The government is in talks with states and ratings agencies and the debt takeover will not affect states' fiscal headroom available under the FRBM Act.

The aim of the restructuring package would ease financial burdens of state discoms, bring down their costs as well as ensure timely tariff revision for them, Goyal said.

The government will sign individual memorandum of understanding (MoU) with each



सत्यमेव जयते

NITI AAYOG  
Government of India



# भारत ऊर्जा सुरक्षा परिदृश्य 2047

## INDIA ENERGY SECURITY SCENARIOS 2047

Version 2.0



# HANDBOOK

# Integrated Energy Policy

*Report of the Expert Committee*



Government of India  
Planning Commission  
New Delhi

August 2006

ALL INDIA INSTALLED CAPACITY (IN MW) OF POWER STATIONS (As on 31.03.2016) (UTILITIES)									REVISED
Region	Ownership/ Sector	Modewise breakup							Grand Total
		Thermal				Nuclear	Hydro	RES * (MNRE)	
		Coal	Gas	Diesel	Total				
Northern Region	State	17038.00	2879.20	0.00	19917.20	0.00	7502.55	661.56	28081.31
	Private	16606.00	108.00	0.00	16714.00	0.00	2478.00	7968.57	27160.57
	Central	12000.50	2344.06	0.00	14344.56	1620.00	8266.22	0.00	24230.78
	<b>Sub Total</b>	<b>45644.50</b>	<b>5331.26</b>	<b>0.00</b>	<b>50975.76</b>	<b>1620.00</b>	<b>18246.77</b>	<b>8630.13</b>	<b>79472.66</b>
Western Region	State	22800.00	2993.82	0.00	25793.82	0.00	5480.50	311.19	31585.51
	Private	36455.00	4288.00	0.00	40743.00	0.00	447.00	15003.73	56193.73
	Central	12898.01	3533.59	0.00	16431.60	1840.00	1520.00	0.00	19791.60
	<b>Sub Total</b>	<b>72153.01</b>	<b>10815.41</b>	<b>0.00</b>	<b>82968.42</b>	<b>1840.00</b>	<b>7447.50</b>	<b>15314.92</b>	<b>107570.84</b>
Southern Region	State	16882.50	556.58	362.52	17801.60	0.00	11558.03	506.45	29866.08
	Private	7670.00	5557.50	554.96	13782.46	0.00	0.00	17647.67	31430.13
	Central	11890.00	359.58	0.00	12249.58	2320.00	0.00	0.00	14569.58
	<b>Sub Total</b>	<b>36442.50</b>	<b>6473.66</b>	<b>917.48</b>	<b>43833.64</b>	<b>2320.00</b>	<b>11558.03</b>	<b>18154.12</b>	<b>75865.79</b>
Eastern Region	State	7540.00	100.00	0.00	7640.00	0.00	3168.92	225.11	11034.03
	Private	8731.38	0.00	0.00	8731.38	0.00	195.00	250.28	9176.66
	Central	14351.49	90.00	0.00	14441.49	0.00	925.20	0.00	15366.69
	<b>Sub Total</b>	<b>30622.87</b>	<b>190.00</b>	<b>0.00</b>	<b>30812.87</b>	<b>0.00</b>	<b>4289.12</b>	<b>475.39</b>	<b>35577.38</b>
North Eastern Region	State	60.00	445.70	36.00	541.70	0.00	382.00	254.25	1177.95
	Private	0.00	24.50	0.00	24.50	0.00	0.00	9.47	33.97
	Central	250.00	1228.10	0.00	1478.10	0.00	860.00	0.00	2338.10
	<b>Sub Total</b>	<b>310.00</b>	<b>1698.30</b>	<b>36.00</b>	<b>2044.30</b>	<b>0.00</b>	<b>1242.00</b>	<b>263.72</b>	<b>3550.02</b>
Islands	State	0.00	0.00	40.05	40.05	0.00	0.00	5.25	45.30
	Private	0.00	0.00	0.00	0.00	0.00	0.00	5.85	5.85
	Central	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>40.05</b>	<b>40.05</b>	<b>0.00</b>	<b>0.00</b>	<b>11.10</b>	<b>51.15</b>
ALL INDIA	State	64320.50	6975.30	438.57	71734.37	0.00	28092.00	1963.81	101790.18
	Private	69462.38	9978.00	554.96	79995.34	0.00	3120.00	40885.57	124000.91
	Central	51390.00	7555.33	0.00	58945.33	5780.00	11571.42	0.00	76296.75
	<b>Total</b>	<b>185172.88</b>	<b>24508.63</b>	<b>993.53</b>	<b>210675.04</b>	<b>5780.00</b>	<b>42783.42</b>	<b>42849.38</b>	<b>302087.84</b>

Figures at decimal may not tally due to rounding off

Abbreviation: SHP=Small Hydro Project ( $\leq 25$  MW), BP=Biomass Power, U&I=Urban & Industrial Waste Power, RES=Renewable Energy Sources

Note :- 1.RES include SHP, BP, U&I, Solar and Wind Energy. Installed capacity in respect of RES (MNRE) as on 31.03.2016 (As per latest information available with MNRE)

\*Break up of RES all India as on 31.03.2016 is given below (in MW) :

Small Hydro Power	Wind Power	Bio-Power		Solar Power	Total Capacity
		BM Power/Cogen.	Waste to Energy		
4273.47	26866.66	4831.33	115.08	6762.85	42849.38

- Installed capacity of Andhra Pradesh has been bifurcated in the ratio of 53.89 and 46.11 among Telangana and New Andhra Pradesh respectively. Except the installed capacity of Thamminapatnam (300 MW), Simhapuri (450 MW) and Tanir Bhavi (220 MW) are shown in the state of New Andhra Pradesh.
- \* Koldam (1000 MW, four units) shares are provisional
- Two units of Kondapalli Stg-II of 371 MW each taken in private sector in A.P.
- IPP Panipuram (2x660=1320 MW), Tied capacity of 270 MW with Telangana and balance capacity of 1050 MW has been shown in Andhra Pradesh
- Two units of 120 MW each of Amarkantak TPP, Chachai, MPPGCL has been retired and 240 MW capacity(Steam) has been deucted from state sector of Madhya Pradesh.
- New Cossipore Generating Station (2X30 MW and 2X50 MW Units) has been retired and 160 MW capacity(Steam) has been deucted from private sector of West Bengal.

# User Guide for 2047 Energy Calculator

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## Nuclear Sector

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# **User Guide for India's 2047 Energy Calculator**

## **Coal and Gas Power Stations**

# **User Guide for India's 2047 Energy Calculator**

**Renewable Energy Sources (Solar, Wind and Small Hydro)**



# **User Guide for India's 2047 Energy Calculator**

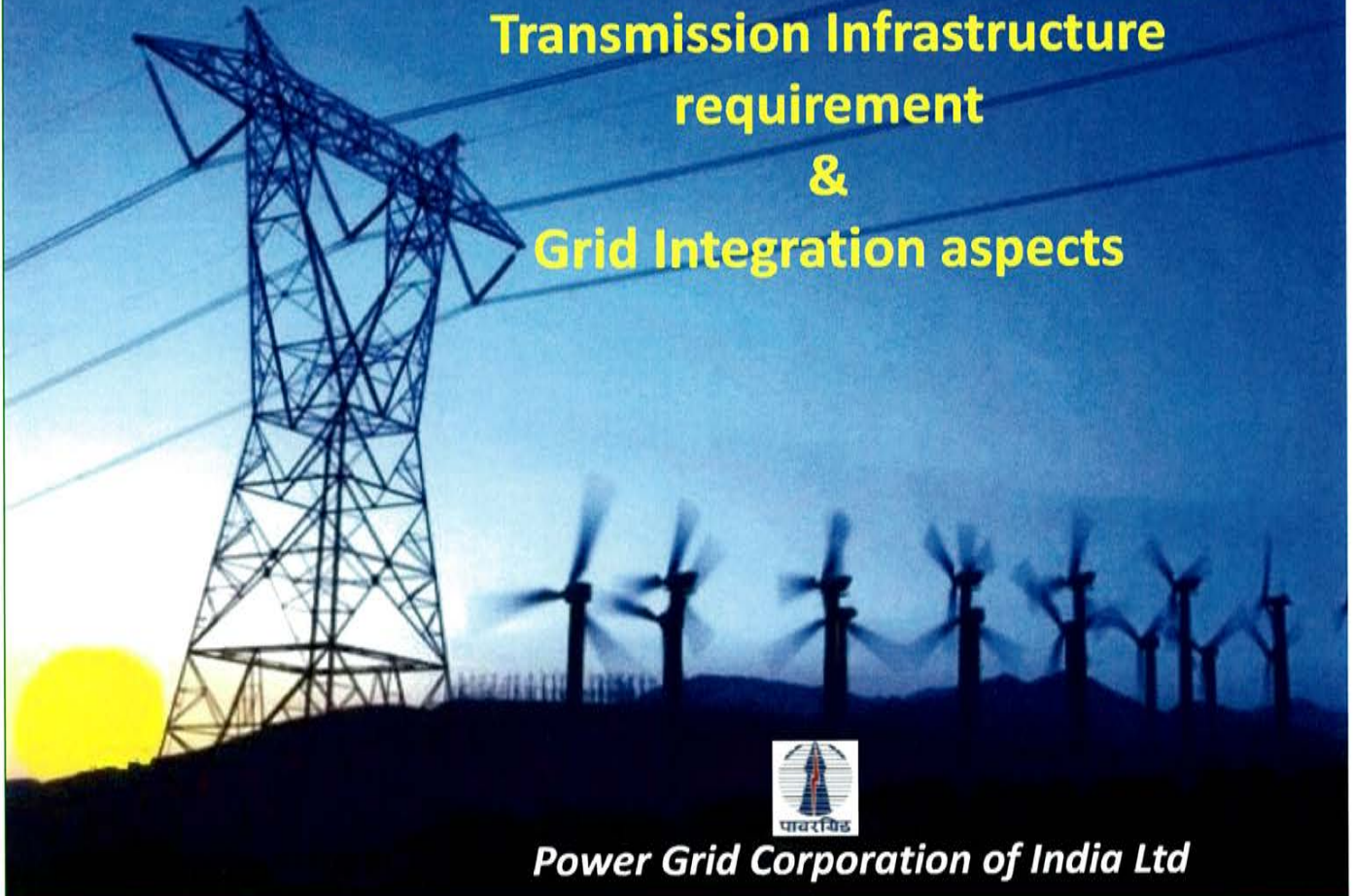
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## **Large Hydro Sector**

# User Guide for India's 2047 Energy Calculator

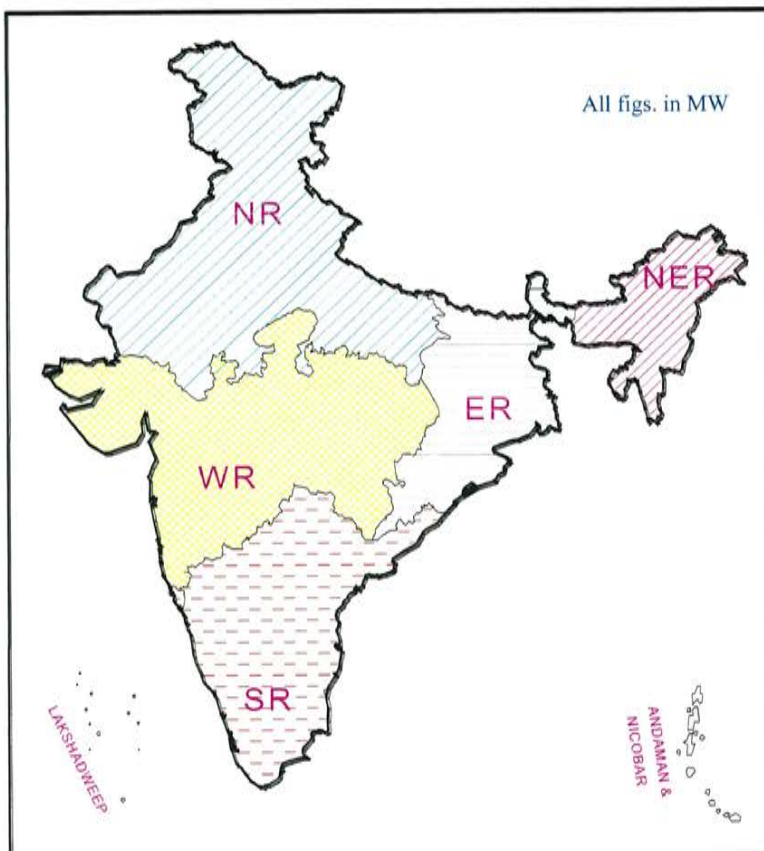
## Electrical Energy Storage (EES)

# Transmission Infrastructure requirement & Grid Integration aspects



**Power Grid Corporation of India Ltd**

## Indian Power System - Present



**Installed Capacity – 232,000 MW**

- Thermal- 60%
- Hydro- 17%
- Nuclear- 2%
- Renewable- 12%

**Peak Demand – 135,000 MW**

**Per capita consumption– 880 kwh**

<http://pib.nic.in/newsite/PrintRelease.aspx?relid=130261>

**Press Information Bureau  
Government of India  
Cabinet**

05-November-2015 19:59 IST

**UDAY (Ujwal DISCOM Assurance Yojana) for financial turnaround of Power Distribution  
Companies**

The Union Cabinet chaired by the Hon'ble Prime Minister Shri Narendra Modi, has today given its approval to a new scheme moved by the Ministry of Power - Ujwal DISCOM Assurance Yojna or UDAY. UDAY provides for the financial turnaround and revival of Power Distribution companies (DISCOMs), and importantly also ensures a sustainable permanent solution to the problem.

UDAY is a path breaking reform for realizing the Hon'ble Prime Minister's vision of affordable and accessible 24x7 Power for All. It is another decisive step furthering the landmark strides made in the Power sector over the past one and a half years, with the sector witnessing a series of historic improvements across the entire value chain, from fuel supply (highest coal production growth in over 2 decades), to generation (highest ever capacity addition), transmission (highest ever increase in transmission lines) and consumption (over 2.3 crore LED bulbs distributed).

The weakest link in the value chain is distribution, wherein DISCOMs in the country have accumulated losses of approximately Rs. 3.8 lakh crore and outstanding debt of approximately Rs. 4.3 lakh crore (as on March, 2015). Financially stressed DISCOMs are not able to supply adequate power at affordable rates, which hampers quality of life and overall economic growth and development. Efforts towards 100% village electrification, 24X7 power supply and clean energy cannot be achieved without performing DISCOMs. Power outages also adversely affect national priorities like "Make in India" and "Digital India". In addition, default on bank loans by financially stressed DISCOMs has the potential to seriously impact the banking sector and the economy at large.

## DISCOM wise AT&amp;C Loss trajectory up to 2021-22 (Finalised by MoP in consultation with Discoms)

Region	State	2012-13 (PFC Report)	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Eastern	Bihar										
	NBPDCL	56.00		46.63	42.63	38.13	34.00	30.00	27.00	24.00	21.00
	SBPDCL	53.97		46.63	42.63	38.13	34.00	30.00	27.00	24.00	21.00
	<b>Bihar Total</b>	<b>54.63</b>		<b>46.63</b>	<b>42.63</b>	<b>38.13</b>	<b>34.00</b>	<b>30.00</b>	<b>27.00</b>	<b>24.00</b>	<b>21.00</b>
	Jharkhand	47.49	43.49	39.49	36.49	32.49	29.49	27.00	24.00	21.00	18.00
	Orissa										
	CESCO	43.61	39.55	37.58	35.55	33.51	30.98	28.44	25.90	23.36	20.82
	NESCO	39.61	35.92	34.13	32.29	30.44	28.14	25.83	23.52	21.22	18.91
	SESCO	49.36	44.76	42.53	40.23	37.93	35.06	32.19	29.31	26.44	23.56
	WESCO	41.87	37.97	36.07	34.12	32.17	29.74	27.30	24.86	22.42	19.99
	<b>Orissa Total</b>	<b>42.94</b>	<b>38.94</b>	<b>37.00</b>	<b>35.00</b>	<b>33.00</b>	<b>30.50</b>	<b>28.00</b>	<b>25.50</b>	<b>23.00</b>	<b>20.50</b>
	Sikkim	53.51	49.51	45.51	41.51	37.51	33.51	29.00	26.00	23.00	20.00
	<b>West Bengal</b>	<b>34.43</b>	<b>30.51</b>	<b>29.00</b>	<b>28.00</b>	<b>26.00</b>	<b>24.00</b>	<b>23.00</b>	<b>23.00</b>	<b>22.00</b>	<b>21.50</b>
North Eastern	<b>Arunachal Pr.</b>	<b>60.26</b>	<b>56.76</b>	<b>53.26</b>	<b>49.76</b>	<b>46.26</b>	<b>42.76</b>	<b>39.26</b>	<b>36.00</b>	<b>33.00</b>	<b>30.00</b>
	<b>Assam</b>	<b>31.85</b>	<b>29.85</b>	<b>28.35</b>	<b>26.85</b>	<b>25.35</b>	<b>23.85</b>	<b>22.00</b>	<b>20.00</b>	<b>18.50</b>	<b>17.00</b>
	<b>Manipur</b>	<b>85.49</b>	<b>78.49</b>	<b>71.49</b>	<b>64.49</b>	<b>56.49</b>	<b>48.00</b>	<b>40.00</b>	<b>34.00</b>	<b>28.00</b>	<b>22.00</b>
	<b>Meghalaya</b>	<b>26.60</b>	<b>33.11</b>	<b>31.29</b>	<b>29.79</b>	<b>28.29</b>	<b>26.79</b>	<b>25.29</b>	<b>23.79</b>	<b>22.29</b>	<b>20.79</b>
	<b>Mizoram</b>	<b>27.55</b>	<b>27.02</b>	<b>26.14</b>	<b>25.77</b>	<b>24.59</b>	<b>23.49</b>	<b>22.13</b>	<b>21.13</b>	<b>19.75</b>	<b>18.62</b>
	<b>Nagaland</b>	<b>75.30</b>	<b>67.21</b>	<b>64.21</b>	<b>59.21</b>	<b>53.21</b>	<b>47.21</b>	<b>41.21</b>	<b>35.21</b>	<b>29.21</b>	<b>24.21</b>
	<b>Tripura</b>	<b>33.85</b>	<b>29.85</b>	<b>27.35</b>	<b>24.85</b>	<b>22.35</b>	<b>20.85</b>	<b>20.00</b>	<b>18.00</b>	<b>17.00</b>	<b>16.00</b>
	Delhi										
	BRPL	15.16	14.67	14.17	13.92	13.67	13.17	12.95	12.45	12.21	11.96
	BYPL	17.94	17.35	16.76	16.46	16.17	15.58	15.32	14.73	14.44	14.14
Northern	NDPL	13.12	12.69	12.25	12.04	11.82	11.39	11.20	10.77	10.56	10.34
	<b>Delhi Total</b>	<b>15.22</b>	<b>14.72</b>	<b>14.22</b>	<b>13.97</b>	<b>13.72</b>	<b>13.22</b>	<b>13.00</b>	<b>12.50</b>	<b>12.25</b>	<b>12.00</b>
	Haryana										
DHBVNL	28.31	26.14	23.96	21.35	18.74	17.01	15.66	14.79	13.92	13.05	

# NATIONAL ACTION PLAN ON CLIMATE CHANGE

GOVERNMENT OF INDIA

PRIME MINISTER'S COUNCIL ON CLIMATE CHANGE

<http://www.wri.org/blog/2016/05/india-charts-roadmap-achieve-ambitious-solar-targets>

# India Charts a Roadmap to Achieve Ambitious Solar Targets

by  [Katherine Ross](#) - May 31, 2016



A woman holds a solar panel in Rajasthan, India. Photo by Knut-Erik Helle/Flickr

In 2014, India's Prime Minister Narendra Modi announced a goal to increase solar power capacity to 100 gigawatts (GW) by 2022—five times higher than the previous target. The 2022 target is extremely ambitious (the world's total installed solar power capacity was 181 GW in 2014) and would make India a global leader in renewable energy.

<http://pib.nic.in/newsite/PrintRelease.aspx?relid=128403>

**Press Information Bureau  
Government of India  
Ministry of Environment and Forests**

02-October-2015 15:18 IST

**India's Intended Nationally Determined Contribution is Balanced and Comprehensive:  
Environment Minister**

**India to reduce the Emissions Intensity of its GDP by 33 to 35 Per Cent by 2030 from  
2005 Level**

**India to create additional Carbon Sink of 2.5 to 3 Billion Tonnes of Co2 Equivalent  
through Additional Forest and Tree Cover by 2030**

**India to Anchor a Global Solar Alliance**

The Government has said that India's Intended Nationally Determined Contribution (INDC) is balanced and comprehensive. Addressing a press conference here today, Union Minister of Environment, Forest and Climate Change, Shri Prakash Javadekar, said that India is keen to attempt to work towards a low carbon emission pathway, while simultaneously endeavoring to meet all the developmental challenges that the country faces today. Shri Javadekar said that INDC include reduction in the emissions intensity of its GDP by 33 to 35 per cent by 2030 from 2005 level and to create an additional carbon sink of 2.5 to 3 billion tonnes of CO<sub>2</sub> equivalent through additional forest and tree cover by 2030. India has also decided to anchor a global solar alliance, INSPA (International Agency for Solar Policy & Application), of all countries located in between Tropic of Cancer and Tropic of Capricorn.

The Minister said, 'recent decisions of the Government represent a quantum jump in its aspirations and demonstrate unparalleled vision'. He also said that India's contribution represent utmost ambitious action in the current state of development.

The INDC centre around India's policies and programmes on promotion of clean energy, especially renewable energy, enhancement of energy efficiency, development of less carbon intensive and resilient urban centres, promotion of waste to wealth, safe, smart and sustainable green transportation network, abatement of pollution and India's efforts to enhance carbon sink through creation of forest and tree cover. It also captures citizens and private sector contribution to combating climate change. The



Appx-2-100 Stricter Standards for Coal Based Thermal  
Power Plants to Minimise Pollution

<http://pib.nic.in/newsite/PrintRelease.aspx?relid=133726>

**Press Information Bureau**

**Government of India**

**Ministry of Environment and Forests**

22-December-2015 15:04 IST

**Environment Ministry Notifies Stricter Standards for Coal Based Thermal Power  
Plants to Minimise Pollution**

The Ministry of Environment, Forest & Climate Change has notified the revised standards for coal-based Thermal Power Plants in the country, with the primary aim of minimising pollution. These standards are proposed to be implemented in a phased manner. Thermal power plants are categorised into 3 categories, namely those:- (i) Installed before 31st December, 2003 (ii) Installed after 2003 upto 31st December, 2016 and (iii) Installed after 31st December, 2016.

The new standards are aimed at reducing emission of PM10(0.98 kg/MWh), sulphur dioxide(7.3 Kg/MWh) and Oxide of nitrogen (4.8 kg/MWh), which will in turn help in bringing about an improvement in the Ambient Air Quality (AAQ) in and around thermal power plants. The technology employed for the control of the proposed limit of Sulfur Dioxide – SO<sub>2</sub> & Nitrogen Oxide – NO<sub>x</sub> will also help in control of mercury emission (at about 70-90%) as a co-benefit. Limiting the use of water in thermal power plant will lead to water conservation (about 1.5 M<sup>3</sup>/MWh) as thermal power plant is a water-intensive industry. This will also lead to a reduction in energy requirement for drawl of water.

The standards have been made stringent for recent plants, compared to earlier ones and most stringent for those plants to be set up in future. These standards are based on the recommendation of the Central Pollution Control Board (CPCB) after consultations with stakeholders. The Ministry had extensive consultations with stakeholders and also placed these standards on its website for seeking views/comments from the general public. After detailed discussions in the Expert Committee in the Ministry, these standards were notified in the Gazette of India on 7th December 2015.

**Tentative State-wise break-up of Renewable Power target to be achieved by the year 2022  
So that cumulative achievement is 1,75,000 MW**

State/UTs	Solar Power (MW)	Wind (MW)	SHP (MW)	Biomass Power (MW)
Delhi	2762			
Haryana	4142		25	209
Himachal Pradesh	776		1500	
Jammu & Kashmir	1155		150	
Punjab	4772		50	244
Rajasthan	5762	8600		
Uttar Pradesh	10697		25	3499
Uttrakhand	900		700	197
Chandigarh	153			
<b>Northern Region</b>	<b>31120</b>	<b>8600</b>	<b>2450</b>	<b>4149</b>
Goa	358			
Gujarat	8020	8800	25	288
Chhattisgarh	1783		25	
Madhya Pradesh	5675	6200	25	118
Maharashtra	11926	7600	50	2469
D. & N. Haveli	449			
Daman & Diu	199			
<b>Western Region</b>	<b>28410</b>	<b>22600</b>	<b>125</b>	<b>2875</b>
Andhra Pradesh	9834	8100		543
Telangana		2000		
Karnataka	5697	6200	1500	1420
Kerala	1870		100	
Tamil Nadu	8884	11900	75	649
Puducherry	246			
<b>Southern Region</b>	<b>26531</b>	<b>28200</b>	<b>1675</b>	<b>2612</b>
Bihar	2493		25	244
Jharkhand	1995		10	
Orissa	2377			
West Bengal	5336		50	
Sikkim	36		50	
<b>Eastern Region</b>	<b>12237</b>		<b>135</b>	<b>244</b>
Assam	663		25	
Manipur	105			
Meghalaya	161		50	
Nagaland	61		15	
Tripura	105			
Arunachal Pradesh	39		500	

Appx-2-102 Power Ministry sets green target for state Discoms

**THE ECONOMIC TIMES**

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# Power Ministry sets green energy target for state discoms

By Kaavya Chandrasekaran, ET Bureau | Jul 27, 2016, 05:32 AM IST

[Post a Comment](#)

NEW DELHI: State discoms will have to mandatorily draw at least 2.75% of their total power consumption from solar plants in the current fiscal, according to the renewable purchase obligation (RPO) norms laid down by the power ministry.

States will have to increase the share of solar power to 4.75% in 2017-18 and 6.75% in 2018-19, the guidelines said.

While the Ministry of Power has issued guidelines, the final targets will be set by each individual state's electricity regulatory commission (SERC).

The RPO has been divided into energy from solar sources and non-solar.

The ministry has set the quota of power to be drawn from non-solar renewable energy sources at 8.75% in 2016-17, 9.50% in 2017-18 and 10.25% in 2018-19.

This adds up to a total renewable energy share of 11.50% this year, 14.25% in 2017-18 and 17% in 2018-19.

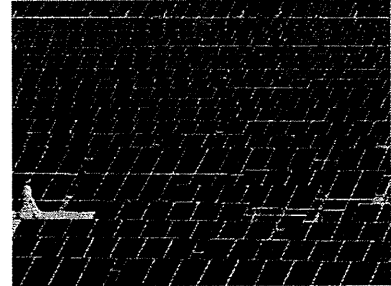
India had earlier announced a goal of achieving 8% intake of solar power by March 2022.

The new guidelines amount to a significant increase in the targets set, in keeping with the government's ambition of having 175,000 MW of renewable energy capacity by 2022, including 100,000 MW of solar energy capacity.

Track record of state discoms is not very encouraging though. In the last three years, solar RPOs set by different SERCs varied between 0.25% and 1%, and yet they were rarely fulfilled, with penal action rarely being taken against defaulting discoms.

Also, discoms, many of them badly cash-strapped, are hardly in a position to encourage renewable energy growth. Though renewable energy tariffs have been falling of late, thermal power remains more attractive for them. More so because solar and wind power, by their very nature, erratic or infirm with output varying considerably depending upon the sun's intensity or the wind's speed.

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States will have to increase the share of solar power to 4.75 per cent in 2017-18 and 6.75 per cent in 2018-19, the guidelines said.

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		<b>Networking</b>									
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## State- wise Solar RPO targets

States	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Andhra Pradesh	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Arunachal Pradesh	Not regulation issued for RPO by the Power Department										
Assam	0.10%	0.15%	0.20%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Bihar	0.25%	0.25%	0.50%	0.75%	1.00%	1.25%	1.50%	1.75%	2.00%	2.50%	3.00%
Chhattisgarh	0.25%	0.50%									
Delhi	0.10%	0.15%	0.20%	0.25%	0.30%	0.35%					
JERC (Goa & UT)	0.30%	0.40%									
Gujarat	0.50%	1.00%									
Haryana	0.00%	0.05%	0.75%								
Himachal Pradesh	0.01%	0.25%	0.25%	0.25%	0.25%	0.25%	0.50%	0.75%	1.00%	2.00%	3.00%
Jammu and Kashmir	0.10%	0.25%									
Jharkhand	0.50%	1.00%									
Karnataka	0.25%										
Kerala	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%
Madhya Pradesh	0.40%	0.60%	0.80%	1.00%							
Maharashtra	0.25%	0.25%	0.50%	0.50%	0.50%						
Manipur	0.25%	0.25%									
Mizoram	0.25%	0.25%									
Meghalaya	0.30%	0.40%									
Nagaland	0.25%	0.25%									
Orissa	0.10%	0.15%	0.20%	0.25%	0.30%						
Punjab	0.03%	0.07%	0.13%	0.19%							
Rajasthan	0.50%	0.75%	1.00%								
Sikkim	Not regulation issued for RPO by the Power Department										
Tamil Nadu	0.05%										
Tripura	0.10%	0.10%									
Uttarakhand	0.03%	0.05%									
Uttar Pradesh	0.50%	1.00%									
West Bengal			0.25%	0.30%	0.40%	0.50%	0.60%				

(Source: SERCs Order on RPO Regulations)

**No 30/80/2014-15/NSM  
Government of India  
Ministry of New and Renewable Energy  
(National Solar Mission)**

\*\*\*\*

Block 14, CGO Complex  
Lodhi Road, New Delhi  
Date: 6<sup>th</sup> April, 2016

**Office Memorandum**

**Subject: Year wise cumulative target to achieve 1, 00,000 MW Grid connected Solar Power Project by the year 2021-22.**

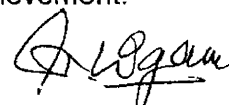
The Ministry has chalked out year wise and cumulative target to achieve 1,00,000 MW Grid connected Solar Power Project by the year 2021-22 under National Solar Mission.

2. Year wise and cumulative target is given as under:

Sl. No.	Year	Yearly Target (in MW)	Cumulative Target (in MW)
1	2015-16	2,000	5,000
2	2016-17	12,000	17,000
3	2017-18	15,000	32,000
4	2018-19	16,000	48,000
5	2019-20	17,000	65,000
6	2020-21	17,500	82,500
7	2021-22	17,500	1,00,000

Following conditions will be followed:

- In case of force majeure events, such as shortage of panels in international market or in the domestic market, a portion of target will become spill over target of next year
- Same spill over provisions will be applicable in case of over achievement.



**(Dilip Nigam)**  
Advisor (NSM)

Tele Fax: 011-24368911

**Copy to,**

- 1) PS to Minister, NRE
- 2) PSO to Secretary, MNRE
- 3) PPS to JS (NSM), MNRE
- ✓ 4) Dir (tech), NIC for uploading in MNRE website

**No. 66/175/2015-WE**  
**Ministry of New & Renewable Energy**  
**(Wind Energy Division)**

Block No.14, CGO Complex,  
Lodhi Road, New Delhi-110003  
Dated: 5<sup>th</sup> August, 2016

**Policy for Repowering of the Wind Power Projects**

Ministry of New & Renewable Energy hereby releases the Policy for Repowering of the Wind Power Projects for information of the stakeholders and general public.

[J. K. Jethani]  
Scientist-D



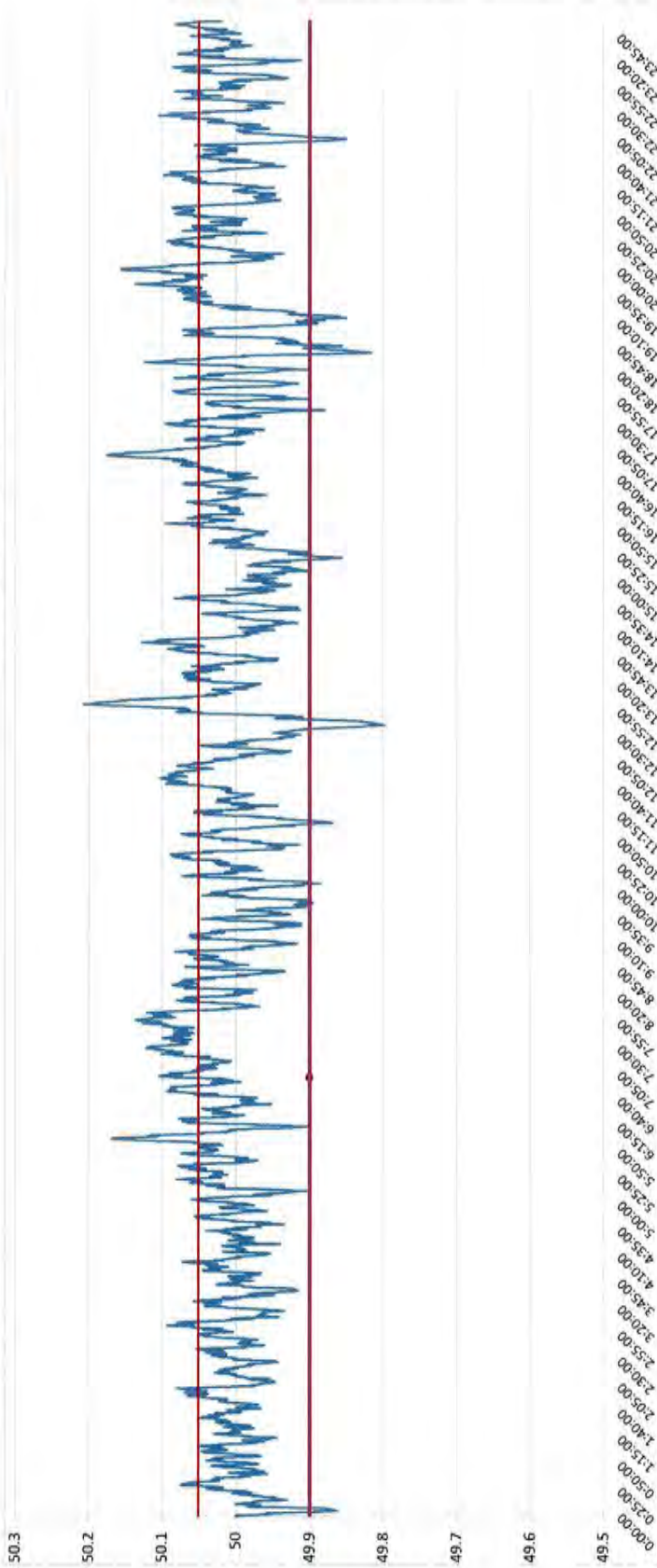
**POWER SYSTEM OPERATION CORPORATION LIMITED**

NATIONAL LOAD DISPATCH CENTRE NEW DELHI

National Grid Frequency Profile for

29-Aug-16

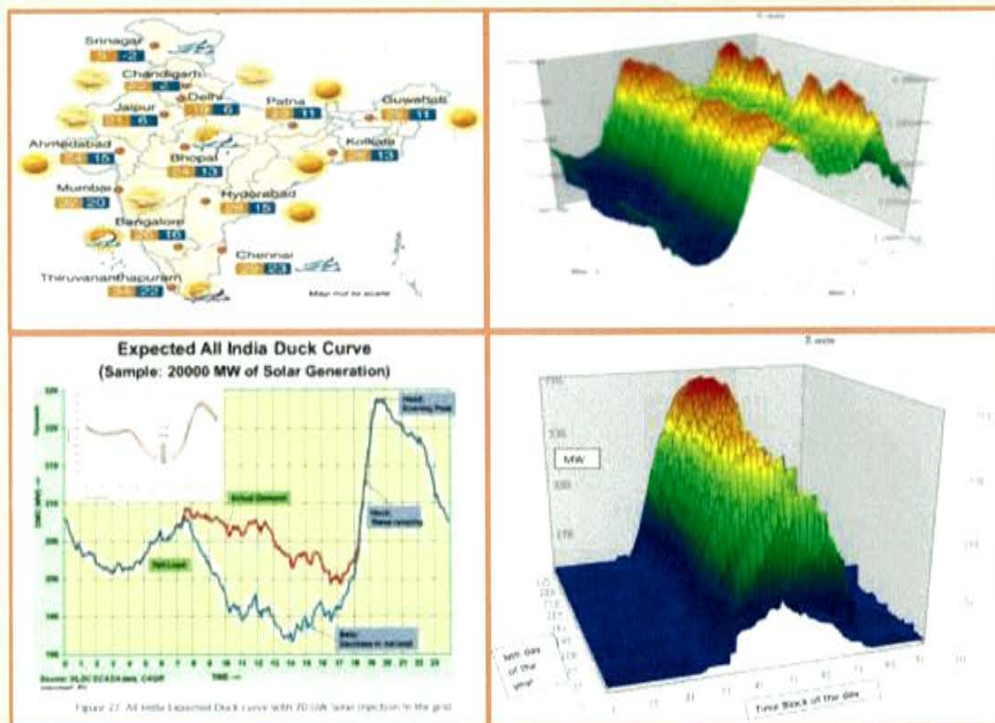
DURGAPUR-Frequency



<49.2	<49.7	<49.90	<49.97	49.7-49.8	49.8-49.9	49.9-50.0	50.0-50.1	50.1-50.2	49.7-50.2	49.97-50.03	50.05-50.1	>50	>50.03	>50.05	>50.2
0	0.00	2.95	21.42	0.03	2.92	38.95	54.69	3.38	99.97	42.14	20.36	58.06	36.44	23.63	0.03

Average Frequency	50.01	Frequency Variation Index :	0.031	Standard Deviation :	0.055
Instantaneous Frequency					
Max	50.21	13:01:40			
Min	49.80	12:41:30			
Average time freq remains below 49.97 per excursion	0:02:41	Average time frequency remains above 50.03 per excursion	0:03:34		
15 minute average Frequency					
Max	50.100	13:15:00	No. of excursion above 50.03 Hz		
Min	49.882	12:45:00	115		
			No. of excursion above 50.00 Hz		
			167		
			No. of excursion below 50.00 Hz		
			162		

# Flexibility Requirement in Indian Power System



Power System Operation Corporation Limited

New Delhi

January 2016



<http://www.pv-tech.org/news/indian-solar-facing-first-curtailments-in-tamil-nadu>

# Indian solar facing first curtailments in Tamil Nadu

- By Tom Kenning
- Jul 06, 2016 11:12 AM BST

Solar energy is being curtailed in Tamil Nadu for the first time, sometimes in the range of 50-100% during peak generation periods. Flickr: Huneycuttaddison

Developers have experienced curtailment of solar power in the Indian state of Tamil Nadu, according to India's Solar Power Developers Association (SPDA).

While wind power has faced curtailment in the past, now solar energy is being curtailed for the first time, sometimes in the range of 50-100% during peak generation periods, Mitali Ghosh, SPDA assistant secretary general, confirmed to PV Tech.

The association has sent a letter to the state utility Tamil Nadu Generation and Distribution Corporation (Tangedco) highlighting the issue. Ghosh said that wind developers are also appealing on the same grounds.

Ghosh added: "This curtailment is going on mostly in the renewable energy segment, but we are hopeful that government will come up with some kind of relief in this matter."

She said that wind developers, who faced curtailment previously were given some level of relief by Tangedco, so there is hope for solar developers looking for the same.

Jasmeet Khurana, associate director, consulting, at Bridge to India, told PV Tech that Tamil Nadu is paying a "relatively high tariff" for the recently commissioned solar projects. In this scenario, the risk gets compounded as the underlying reason for curtailment may not be just technical.

With another 500MW solar tender round the corner in the southern state, there have been concerns about developer interest being affected given the curtailment issues.

Khurana said: "It's a chicken and egg situation; if there is curtailment, developers would want a higher tariff and if they get a higher tariff, the risk for curtailment gets compounded."

<https://www.bloomberg.com/news/articles/2016-07-22/india-seeks-bids-for-300-megawatt-of-solar-projects-with-storage>

## India Seeks Bids for 300 Megawatt of Solar Projects With Storage

*by Anindya Upadhyay*

*More stories by Anindya Upadhyay* July 22, 2016 — 8:54 AM EDT

India has invited its first-ever bids for solar energy projects that include storage as a requirement as part of a trial program aimed at making the renewable resource a more reliable source of power.

Solar Energy Corp. of India, the implementing agency for clean-energy projects, sought bids for 300 megawatts of solar power to be built in the southern states of Andhra Pradesh and Karnataka in an advertisement in a local newspaper on July 20.

SECI is seeking bids for two projects of 50 megawatt each in Andhra Pradesh with a battery energy storage system of 5 megawatt/2.5 megawatt-hour attached. In Karnataka, it has invited bids for four solar projects of 50 megawatt each with the same storage specifications.

The cost of the project will go up only marginally since the size of the storage component being sought is small, Tarun Kapoor, joint secretary at the ministry of new and renewable energy, said by phone on Friday.

“A 5 billion rupee solar project will become costlier only by about 100 million rupees and the government is also extending support,” he said.

The sale of tender documents will begin on July 25 and the last date for submitting bids for the Andhra Pradesh projects is Sept. 8 and for Karnataka is Sept. 9.

India targets clean energy capacity of 175 gigawatts by 2022 from 45 gigawatts at present.

Appx-2-110 India Plans To Set Up 10 GW Of Solar-Based Pumped Hydro Storage Capacity

<https://cleantechnica.com/2016/08/31/india-plans-set-10-gw-solar-based-pumped-hydro-storage-capacity/>

# India Plans To Set Up 10 GW Of Solar-Based Pumped Hydro Storage Capacity

August 31st, 2016 by **Smiti Mittal**

Originally published on *Planetsave*.

India is planning to initiate work on several fronts to maximize the use of renewable energy at the least cost possible.

Officials of the Central Electricity Authority (CEA) recently told media outlets that the central government is **planning** to set up 10 GW of pumped storage capacity across the country. The entire plan is expected to require a total investment of Rs 80,000 crore (US\$12 billion).

The officials explained that solar power will be combined with hydro power pumped storage to maximize the use of renewable energy and keep the carbon footprint of power generation minimal.

Solar power projects will be set up near water reservoirs. During daytime, a part of the solar power generated will be used to pump the water up the hill, while during the night the water will be released downhill to generate hydro power in the conventional manner.

This process will also negate the requirement to store solar energy in batteries. The officials stated that using lithium-ion batteries to store solar energy would increase the tariff of electricity by around Rs 10/kWh (US\$15/kWh), whereas a pumped storage system would result in a tariff increase of just Rs 0.30-0.40/kWh (US\$0.45-0.60/kWh). Thus, the main aim, of stabilizing the grid while increasing the use of renewable energy, will be achieved at a very low cost.

The total potential of setting up pumped storage capacity in India is estimated to be around 90 GW. The CEA is believed to have identified sites to set up 10 GW of pumped storage capacity.

India is experimenting with a number of ways to integrate renewable energy projects into its power grid. The Solar Energy Corporation of India recently **announced** plans to hold its first auctions for storage-enabled

# EEC Conference

31<sup>th</sup> August, 2015, New Delhi

## Large Scale Integretion of Renewables

Power System Operation Corporation  
New Delhi, India

Appx-2-111 Large Scale Integration of Renewable

S.S.Barpanda  
AGM,NLDC  
ssbarpanda@posoco.in

Appx-2-112 Government to come up with pro-active hydro power policy

<http://indianexpress.com/article/india/india-news-india/government-to-come-up-with-pro-active-hydro-power-policy-piyush-goyal-3072024/>

# Government to come up with pro-active hydro power policy: Piyush Goyal

Government is planning to formulate a policy to push stalled projects and extend the benefits for renewable sources like wind and solar to hydro projects beyond 25 MW capacity.

By: **PTI** | Vadodara | Published: October 8, 2016 2:24 pm

In a bid to boost hydro power sector, the government is planning to formulate a policy to push stalled projects and extend the benefits for renewable sources like wind and solar to hydro projects beyond 25 MW capacity.

“We are looking at coming up with a pro-active hydro power policy to push stalled projects and explore the possibility of extending benefits for renewable sources like wind and solar to hydro projects beyond 25 MW,” Power Minister Piyush Goyal told PTI here.

He said it is the government’s resolve to come up with this policy after discussing it with the stakeholders. According to a proposal of the Power ministry, projects with capacities of up to 25 MW have been categorised as small hydro power projects and would get the benefits as extended to other renewable energy projects.

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

Dated 21, February, 2014

**NOTIFICATION**

No.L-1/144/2013/CERC.- In exercise of powers conferred under section 178 of the Electricity Act, 2003 (36 of 2003) read with section 61 thereof and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**CHAPTER - 1**

**PRELIMINARY**

1. **Short title and commencement.** (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014.

(2) These regulations shall come into force on 1.4.2014, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of five years from 1.4.2014 to 31.3.2019:

Provided that where a project or a part thereof, has been declared under commercial operation before the date of commencement of these regulations and whose

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

Dated: 5<sup>th</sup> of November, 2015

**NOTIFICATION**

**No. L-1/144/2013/CERC:** In exercise of powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003) read with Section 61 thereof and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred as “the Principal Regulations”):

**1. Short title and commencement**

(1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) (First Amendment) Regulations, 2015.

(2) These regulations except Regulation 23A shall come into force from the date of publication in the Official Gazette.

(3) Regulation 23A shall come into force with effect from 1.6.2015 and shall be applicable for the years 2015-16 and 2016-17 unless extended further.

**2. Amendment to Regulation 7 of the Principal Regulations:**

(1) The following proviso shall be added after proviso (i) under Clause 7 of Regulation 7 of the Principal Regulations:

“(i a) The difference between the tariff determined in accordance with proviso (i) above and the tariff determined in accordance with Regulation 6 of these regulations shall be recovered or refunded with simple interest at the rate equal to the bank rate as on 1st April of the respective year, in three equal monthly instalments.”

(2) The following proviso shall be added after proviso (i) under Clause 8 of Regulation 7 of the Principal Regulations:

“(i a) The difference between the tariff determined in accordance with proviso (i) above and the tariff determined in accordance with Regulation 6 of these regulations shall be recovered or refunded with

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

No. : L-1/94/CERC/2011

Dated: 06.02.2012

**NOTIFICATION**

In exercise of powers conferred under Section 61 read with Section 178 (2) (s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**1. Short title and commencement**

- 1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012.
- 2) These regulations shall come into force on 1.4.2012, and unless reviewed earlier or extended by the Commission, shall remain in force for a period of 5 years from the date of commencement.

**2. Definitions and Interpretation**

- 1) In these regulations, unless the context otherwise requires,
  - a) 'Act' means the Electricity Act, 2003 (36 of 2003);
  - b) 'Auxiliary energy consumption' or 'AUX' in relation to a period in case of a generating station means the quantum of energy consumed by auxiliary equipment of the generating station, and



**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Dated: 18.03.2014**

**NOTIFICATION**

**No. : L-1/94/CERC/2011:** In exercise of powers conferred under Section 61 read with Section 178 (2) (s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 (hereinafter referred to as “the Principal Regulations”), namely:

**1. Short title and commencement:**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (First Amendment) Regulations, 2014.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

**2. Amendment of Regulation 34 of the Principal Regulations:**

Regulation 34 of the Principal Regulations shall be substituted as under:

“The normative capital cost for the biomass power projects based on Rankine cycle shall be as under:

- a. ₹ 540 lakh/MW for project [other than rice straw and juliflora (plantation) based project] with water cooled condenser;
- b. ₹ 580 lakh/MW for Project [other than rice straw and Juliflora (plantation) based project] with air cooled condenser;

Appx-2-117 Tariff Regulation from Renewable Source Second Amendment 2014  
**CENTRAL ELECTRICITY REGULATORY COMMISSION**  
**NEW DELHI**

**Dated: 05.01.2015**

**NOTIFICATION**

**No. : L-1/94/CERC/2011** : In exercise of powers conferred under Section 61 read with Section 178 (2) (s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012, as amended from time to time (hereinafter referred to as "the Principal Regulations"), namely:

**1. Short title and commencement:**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (Second Amendment) Regulations, 2014.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette and will remain valid till 31.03.2017.

**2. Amendment of Regulation 41 of the Principal Regulations:**

Regulation 41 of the Principal Regulation shall be substituted as under:

"The use of fossil fuels shall be limited to the extent of 15% in terms of calorific value on annual basis, till 31.03.2017."

**3. Amendment to the Regulation 4 of the Principal Regulations:**

Clause (c) of the Regulations 4 of the Principal Regulations shall be substituted as under:

"(c) Biomass power project based on Rankine cycle technology – Biomass power projects using new plant and machinery based on Rankine cycle technology and using biomass fuel sources, provided use of fossil fuel is restricted only up to 15% in terms of calorific value on annual basis, till 31.03.2017.

**T.Rout**  
**Chief (Legal)**

**Note: The Principal Regulations were published on 7<sup>th</sup> February, 2012 in Gazette of India, Extraordinary, Part-III, Section – 4, Sr. No.20 and the First Amendment Regulations were published on 21<sup>st</sup> March, 2013 in Gazette of India, Extraordinary, Part-III, Section - 4, Sr. No. 92.**

Appx-2-118 Tariff Regulation from Renewable Source Third Amendment 2015  
**CENTRAL ELECTRICITY REGULATORY COMMISSION**  
**NEW DELHI**

Dated: 10 .07.2015

**NOTIFICATION**

**No. : L-1/94/CERC/2011** : In exercise of powers conferred under Section 61 read with Section 178 (2) (s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012, as amended from time to time (hereinafter referred to as "the Principal Regulations"), namely:

**1. Short title and commencement:**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (Third Amendment) Regulations, 2015.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette and will remain valid till 31.03.2017.

**2. Amendment of Regulation 38 of the Principal Regulations:**

Regulation 38 of the Principal Regulation shall be substituted as under:

**"38. Station Heat Rate**

*The Station Heat Rate for biomass power projects using fossil fuel up to 15% of calorific value on annual basis shall be as under:*

- a. 4126 kcal/kWh for project using travelling grate boilers
- b. 4063 kcal/kWh for project using AFBC boilers "

**3. Amendment to the Regulation 43 of the Principal Regulations:**

Regulation 43 of the Principal Regulations shall be substituted as under:

**"43. Calorific Value**

*For Biomass based projects using fossil fuel up to 15% of calorific contribution, the Calorific Value of fuel used for the purpose of determination of tariff shall be 3174 kcal/kg."*

Sd/-  
(Shubha Sarma)  
Secretary

**Note:** The Principal Regulations were published on 7<sup>th</sup> February, 2012 in Gazette of India, Extraordinary, Part-III, Section – 4, Sr. No.20, the First Amendment Regulations were published on 21<sup>st</sup> March, 2014 in Gazette of India, Extraordinary, Part-III, Section - 4, Sr. No. 92, and the Second Amendment Regulations were published on 5th January 2015 in Gazette of India, Extraordinary, Part-III, Section – 4, Sr. No.06

**Central Electricity Regulatory Commission**

**Notification**

**New Delhi, the 7<sup>th</sup> October ,2015**

**No. L-1/94/CERC/2011-** In exercise of the powers conferred under section 61 read with Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission, hereby makes the following regulations, to amend the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012 (hereinafter referred to as the "Principal Regulations") namely: -

1. **Short title and commencement-** (1) These regulations shall be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (Fourth Amendment) Regulations, 2015;

(2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

2. **Insertion of a new clause under Regulation 2:** After sub-clause (o) under clause (1) of Regulation 2 of the Principal Regulations, a new clause (oa) shall be added as under:-

“**Municipal solid waste**’ means and includes commercial and residential wastes generated in a municipal or notified areas in either solid or semi-solid form excluding industrial hazardous wastes but including treated bio-medical wastes”

3. **Insertion of a new clause under Regulation 2:** After sub-clause (s) under clause (1) of Regulation 2 of the Principal Regulations, a new clause (sa) shall be added as under:-

“**Refuse Derived Fuel**’ means segregated combustible fraction of solid waste other than chlorinated plastics in the form of pellets or fluff produced by drying, de-stoning, shredding, dehydrating, and compacting combustible components of solid waste that can be used as fuel;”

4. **Insertion of a new clause under Regulation 2:** After sub-clause (g) under clause (1)(aa) of Regulation 2 of the Principal Regulations, a new sub-clause (h) shall be added as under:-

"Municipal solid waste (MSW) and Refuse derived fuel (RDF) based power projects - 20 years”

5. **Amendment of Regulation 3 of Principal Regulations:** Proviso to Regulation 3 of the Principal Regulations shall be substituted as under:-

"Provided that in cases of wind, Small Hydro projects, Biomass power based on Rankine cycle, non-fossil fuel based cogeneration projects, Solar PV, Solar Thermal power projects, Biomass gasifier, Biogas, Municipal solid waste and Refuse derived fuel based power projects, these regulations shall apply subject to the fulfillment of eligibility criteria specified in Regulation 4 of these Regulations."

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Dated: 30.03.2016**

**NOTIFICATION**

**No. : L-1/94/CERC/2011** : In exercise of powers conferred under Section 61 read with Section 178 (2) (s) of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2012, as amended from time to time (hereinafter referred to as "the Principal Regulations"), namely:

**1. Short title and commencement:**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for Tariff determination from Renewable Energy Sources) (Fifth Amendment) Regulations, 2016.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette and will remain valid till 31.03.2017.

**2. Amendment of Regulation 59 of the Principal Regulations:**

The following proviso shall be added under Clause (1) of Regulation 59 of the Principal Regulations:-

“ Provided that Normative O&M expenses for the last year of the Control Period (i.e. FY 2016-17) shall be Rs. 7 lakhs per MW.”

Sd/-  
**(T. Rout)**  
**Chief (Legal)**

**Note:** The Principal Regulations were published in the Gazette of India (Extraordinary) No. 20, Part III, Section 4 on 7<sup>th</sup> February, 2012; the First Amendment to the Principal Regulations was published in the Gazette of India (Extraordinary) No. 92, Part III, Section 4 on 21<sup>st</sup> March, 2014; the Second Amendment to the Principal Regulations was published in the Gazette of India (Extraordinary) No. 6, Part III, Section 4 on 5<sup>th</sup> January, 2015; the Third Amendment to the Principal Regulations was published in the Gazette of India (Extraordinary) No. 250, Part III, Section 4 on 14<sup>th</sup> July, 2015 and the Fourth Amendment to the Principal Regulations was published in the Gazette of India (Extraordinary) No. 355, Part III, Section 4 on 23<sup>rd</sup> October, 2015.

**CENTRAL ELECTRICITY REGULATORY COMMISSION**

**NEW DELHI**

**No. L-1/12/2010-CERC**

**Dated: 14<sup>th</sup> January, 2010**

**NOTIFICATION**

In exercise of powers conferred under sub-section (1) of Section 178 and Section 66 read with clause (y) of sub-section (2) of Section 178 of the Electricity Act, 2003 and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations for the development of market in power from Non Conventional Energy Sources by issuance of transferable and saleable credit certificates:

**1. Short title, commencement and extent of application**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010.
- (2) These regulations shall come into force from the date of their notification in the Official Gazette.
- (3) These Regulations shall apply throughout India except the State of Jammu and Kashmir.

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**No. L-1/12/2010-CERC**

**Dated: 29<sup>th</sup> September, 2010**

**NOTIFICATION**

In exercise of powers conferred under section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010, ("hereinafter referred to as "the principal regulations"), namely:

**1. Short title and commencement.** (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) (First Amendment) Regulations, 2010.

(2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

**2. Amendment of Regulation 5 of principal regulations:** The following provisos shall be added at the end of the Sub-clause (c) of Clause (1) of Regulation 5 of the principal regulations, namely:

"Provided that such a generating company having entered into a power purchase agreement for sale of electricity at a preferential tariff shall not, in case of pre-mature termination of the agreement, be eligible for participating in the Renewable Energy Certificate (REC) scheme for a period of three years from the date of termination of such agreement or till the scheduled date of expiry of power purchase agreement whichever is earlier, if any order or ruling is found to have been passed by an Appropriate Commission or a competent court against the generating company for material breach of the terms and conditions of the said power purchase agreement.

Provided further that a Captive Power Producer (CPP) based on renewable energy sources shall be eligible for the entire energy generated from such plant including self consumption for participating in the REC scheme subject to the condition that such CPP has not availed or does not propose to avail any benefit in the form of concessional/promotional transmission or wheeling charges, banking facility benefit and waiver of electricity duty.

Provided also that if such a CPP forgoes on its own, the benefits of concessional transmission or wheeling charges, banking facility benefit and waiver of electricity duty, it shall become eligible for participating in the REC scheme only

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

Dated: 10<sup>th</sup> of July, 2013

**NOTIFICATION**

**No.L-1/12/2010-CERC.-** In exercise of powers conferred under section 178 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 (hereinafter referred to as "the Principal Regulations"), namely:

1. **Short title and commencement.-** (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) (Second Amendment) Regulations, 2013.

(2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

2. **Amendment of Regulation 2 of the Principal Regulations.-** Sub-clause (k) of clause (1) of Regulation 2 of the Principal Regulations shall be deleted.

3. **Amendment of Regulation 5 of Principal Regulations.-** (1) Sub-clause (b) of clause (1) of Regulation 5 of the Principal Regulations shall be substituted as under:

"(b) it does not have any power purchase agreement for the capacity related to such generation to sell electricity, with the obligated entity for the purpose of meeting its renewable purchase obligation, at a tariff determined under section 62 or adopted under section 63 of the Act by the Appropriate Commission:



**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

Dated: 30<sup>th</sup> December, 2014

**NOTIFICATION**

**No.L- 1/12/2010- CERC:** In exercise of powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 (hereinafter referred to as “the Principal Regulations”), namely:-

**1. Short title and commencement:**

- (i) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) (Third Amendment) Regulations, 2014.
- (ii) These regulations shall come into force with effect from 1<sup>st</sup> January, 2015.

**2. Amendment of Regulation 5 of Principal Regulations:**

1. A new clause (1A) shall be added after clause (1) of Regulation 5 of the Principal Regulations as under:

(1A) A distribution licensee shall be eligible to apply for registration with the Central Agency for issuance of and dealing in Certificates if it fulfills the following conditions:

- (a) It has procured renewable energy, in the previous financial year, at a tariff determined under Section 62 or adopted under Section 63 of the Act, in excess of the renewable purchase obligation as may be specified by the Appropriate Commission or in the National Action Plan on Climate Change or in the Tariff Policy, whichever is higher:

Provided that the renewable purchase obligation as may be specified for a year, by the Appropriate Commission should not be lower than that for the previous financial year.

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Dated: 28<sup>th</sup> March, 2016**

**NOTIFICATION**

**No. L-1/12/2010-CERC:** In exercise of powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 (hereinafter referred to as "the Principal Regulations"), namely:

**1. Short title and commencement**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) (Fourth Amendment) Regulations, 2016.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

**2. Amendment to Regulation 5 of the Principal Regulations:**

- (1) Second, third, fourth, fifth and sixth proviso including the explanation under sub-clause (c) of Clause (1) of Regulation 5 of the Principal Regulations shall be deleted.
- (2) The following provisos shall be added after the first proviso under sub-clause (c) of Clause (1) of Regulation 5 of the Principal Regulations:

“Provided further that a renewable energy generator selling electricity component to third party through open access shall be eligible for the entire energy generated from such plant for participating in the REC scheme subject to the condition that such generator does not avail or does not propose to avail any benefit in the form of concessional/promotional transmission or wheeling charges or banking facility benefit:

Provided also that if such a renewable energy generator forgoes on its own, the benefits of concessional/promotional transmission or wheeling charges or banking facility benefit, it shall become eligible for participating in the REC scheme only after the date of forgoing such benefits:

Provided also that the above mentioned condition for renewable energy generator selling electricity component to third party through open access for participating in the REC scheme shall not apply if the benefits given to such renewable energy generator in the form of concessional transmission or

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Dated: 26<sup>th</sup> June, 2015**

**DRAFT NOTIFICATION**

**No. L-1/12/2010-CERC:** In exercise of powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) Regulations, 2010 (hereinafter referred to as “the Principal Regulations”), namely:

**1. Short title and commencement**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Terms and Conditions for recognition and issuance of Renewable Energy Certificate for Renewable Energy Generation) (Fifth Amendment) Regulations, 2015.
- (2) These regulations shall come into force with effect from the date of their publication in the Official Gazette.

**2. Amendment to Regulation 5 of the Principal Regulations:**

- (1) Second, third, fourth, fifth and sixth proviso including the explanation under sub-clause (c) of Clause (1) of Regulation 5 of the Principal Regulations shall be deleted.
- (2) The following provisos shall be added after the first proviso under sub-clause (c) of Clause (1) of Regulation 5 of the Principal Regulations:

“Provided further that a renewable energy generator selling electricity component to third party through open access, shall be eligible for the entire energy generated from such plant for participating in the REC scheme subject to the condition that such generator has not availed or does not propose to avail any benefit in the form of concessional/promotional transmission or wheeling charges or banking facility benefit or concessional cross subsidy surcharge:

Provided also that if such a renewable energy generator forgoes on its own, the benefits of concessional/promotional transmission or wheeling charges or banking facility benefit or concessional cross subsidy surcharge, it shall become eligible for participating in the REC scheme only after the date of forgoing such benefits:

Provided also that if any dispute arises as to whether a renewable energy generator has availed such concessional/promotional benefits, the same shall be referred to the Appropriate Commission for decision.

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

No. L-1/18/2010-CERC

New Delhi, 28<sup>th</sup> April 2010

**PREAMBLE**

The Indian Electricity Grid Code (IEGC) is a regulation made by the Central Commission in exercise of powers under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Act. The IEGC also lays down the rules, guidelines and standards to be followed by various persons and participants in the system to plan, develop, maintain and operate the power system, in the most secure, reliable, economic and efficient manner, while facilitating healthy competition in the generation and supply of electricity.

**NOTIFICATION**

In exercise of powers conferred under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations.

**1. Short title, extent and commencement**

(1) These Regulations may be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010.

(2) These Regulations shall come into force from 3.5.2010.

(3) These regulations shall supersede the Indian Electricity Grid Code, 2006 which came into effect from 1.4.2006.

**2. Definitions**

(1) In these Regulations unless the context otherwise requires:

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

No.L-1/18/2010-CERC

New Delhi 5<sup>th</sup> March, 2012

**NOTIFICATION**

In exercise of powers conferred under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010, hereinafter referred to as "the Principal Regulations".

**1. Short title, extent and commencement**

(1) These Regulations may be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (First Amendment) Regulations, 2012.

(2) These Regulations shall come into force with effect from 2<sup>nd</sup> of April 2012.

**2. Amendment in Regulation 2.3.2 of Principal Regulations:**

In sub-regulation (d) of Regulation 2.3.2 of Principal Regulations, the words "Metering and data collection" shall be substituted by the words "Meter data processing".

**3. Amendment in Regulation 2.5.1 of Principal Regulations:**

The sub-regulation (2) of Regulation 2.5.1 of Principal Regulations shall stand deleted.

**4. Amendment in Regulation 3.4 of Principal Regulations:**

The last sentence of the sub-regulation (c) of Regulation 3.4 of Principal Regulations shall be substituted as under:

*"In case of associated transmission system where all PPAs have not been signed, and where agreement could not be reached in respect of system strengthening schemes, the CTU may approach the Commission for the regulatory approval in accordance with Central Electricity Regulatory Commission (Grant of Regulatory Approval for execution of Inter-State Transmission Scheme to Central Transmission Utility) Regulations, 2010."*

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

6<sup>th</sup> January, 2014

**NOTIFICATION**

No.L-1/18/2010-CERC:In exercise of powers conferred under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 including the first amendment thereof (hereinafter referred to as “the Principal Regulations”).

**1. Short title and commencement**

- (1) These Regulations may be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Second Amendment) Regulations, 2014.
- (2) These Regulations shall come into force with effect from 17.2.2014.

**2. Amendment in Regulation 2 of Principal Regulations.-**Following new clauses shall be added after clause (gggg) of sub-Regulation (1) of Regulation 2 of Principal Regulations as under, namely:

“(hhhh) Deviation Settlement Mechanism Regulations means Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 including any subsequent amendments thereof;

(iiii) Pooling Station means the sub-station where pooling of generation of individual wind generators or solar generators is done for interfacing with the next higher voltage level:

Provided that where there is no separate pooling station for a wind / solar generator and the generating station is connected through common feeder and terminated at a sub-station of distribution company/STU/ CTU, the sub-

**Central Electricity Regulatory Commission**

**Notification**

**New Delhi**, the 7<sup>th</sup> August, 2015

No. 1/14/2015-Reg.Aff.(FSDS)(i)/CERC - In exercise of powers conferred under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 including the first and second amendments thereof (hereinafter referred to as “the Principal Regulations”), namely:-

1. Short title and commencement - (1) These regulations shall be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Third Amendment) Regulations, 2015,  
  
(2) These regulations shall come into force with effect from 1<sup>st</sup> November, 2015
2. **Amendment of Regulation 1 of Part 1 of Principal Regulations:** Sub-Regulation (v) under Regulation 1.4 of the Principal Regulations, shall be substituted as under:-

**“Part 6: Scheduling and Despatch Code:** This section deals with the procedure to be adopted for scheduling and despatch of generation of the Inter-State Generating Stations (ISGS) and scheduling for other transactions through long-term access, medium-term and short-term open access including complementary commercial mechanisms, on a day-ahead and intra-day basis with the process of the flow of information between the ISGS, National Load Despatch Centre (NLDC), Regional Load Despatch Centre (RLDC), Power Exchanges and the State Load Despatch Centres (SLDCs), and other concerned persons.

Most of the wind and solar energy generators are presently connected to intra-State network and in future are likely to be connected to the inter-state transmission system (ISTS) as well. Keeping in view the variable nature of generation from such sources and the effect such variability has on the inter-state grid, and in view of the large-scale integration of such sources into the grid envisaged in view of the Government of India’s thrust on renewable sources of energy, scheduling of wind and solar generators which are regional entities, has been incorporated in this code.”

3. **Amendment of Regulation 2 (Definitions) of Principal Regulations:**
  - (i) Sub-Regulation (eee) of Regulation 2 of the Principal Regulations, shall be substituted as under:-

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**6<sup>th</sup> April, 2016**

**NOTIFICATION**

**No. L-1/18/2010-CERC:** In exercise of powers conferred under clause (h) of subsection (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 as amended from time to time (hereinafter referred to as “the Principal Regulations”).

**1. Short title and commencement:**

(1) These Regulations may be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2016.

(2) These Regulations shall come into force with effect from date of publication in Official Gazette except Sub-Regulation 6.3B which shall come into force on such date as the Commission may appoint by notification in the Official Gazette.

**2. Amendment in Regulation 2 of Principal Regulations-** Following new clauses shall be added after clause (iiii) of Sub-Regulation (1) of Regulation 2 of Principal Regulations as under, namely:

“(jjjj) Date of Commercial Operation or 'COD' shall have the same meaning as provided in Sub-Regulation 6.3A.1, 6.3A.2 and 6.3A.4 of these Regulations.

(kkkk) Trial Operation or Trial Run shall have the same meaning as provided in Sub-Regulation 6.3A.3 and 6.3A.5 of these Regulations.

(llll) Technical Minimum Schedule in respect of Central Generating Stations and inter-State Generating Stations shall have the same meaning as provided in Sub-Regulation 6.3B of these Regulations.”

**3. Amendment in Regulation 6.1 of the Principal Regulations-** Following clause shall be added after clause (d) of Principal Regulations:

“(e) Procedure for declaration of commercial operation of Central Generating Stations, inter-State Generating Stations and inter-State Transmission Systems, and technical minimum schedule for operation of the Central Generating Stations and inter-State Generating Stations”

**4. Amendment in Regulation 6.2 of the Principal Regulations –** Following shall be added at the end of first para of Regulation 6.2 of the Principal Regulations:



**CENTRAL ELECTRICITY REGULATORY COMMISSION**

**EXPLANATORY MEMORANDUM**

to

**Draft 'Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2013'**

The Central Electricity Regulatory Commission (Unscheduled Interchange charges and related matters) Regulations, 2009 was amended for the second time vide Notification dated 5.3.2012. The amendments were to come into effect from 2.4.2012 but due to stay granted by the Chennai High court, it came in to effect on 17.9.2012.

2. Meanwhile, there were two major grid failures in the country on consecutive days; one on 30<sup>th</sup> July 2012 and another on 31<sup>st</sup> July 2012. In the wake of these recent grid disturbances, the Government of India had appointed an Enquiry Committee under Chairmanship of Chairman, CEA. The Enquiry Committee in its report submitted to the Government on 16.8.2012 has identified over-drawals as one of the causes of grid disturbance. The Enquiry Committee has inter-alia recommended as under:

"9.2.2 Frequency band needs to be further tightened and brought closer to 50 Hz. POSOCO may file an urgency application in Supreme Court for early resolution of the issue in view of the recent grid disturbances.

9.2.2 A review of UI mechanism should be carried out in view of its impact on recent grid disturbances. Frequency control through UI may be phased out in a time bound manner and generation reserves/ancillary services may be used for frequency control. Appropriate regulatory mechanism needs to be put in place for this purpose. POSOCO should take up the matter with CERC."

3. Consequently, National Load Despatch Centre (NLDC) filed a Petition for amendment of Central Electricity Regulatory Commission (Unscheduled Interchange charges and related matters) Regulations, 2009 and suggested certain changes for incorporation. The Commission, vide order dated 5.12.2012 in the said Petition No. 208/MP/2012, directed that the petition be treated as a proposal of POSOCO for amendment of the UI Regulations and

Energy Sector News & Information

<http://www.energysector.in/power-news/cerc-regulation-deviation-settlement-mechanism-and-related-matters>

## CERC Regulation: Deviation Settlement Mechanism and Related Matters

Published: 28 April 2014

CERC (Central Electricity Regulatory Commission) on 17 February, 2014 has replaced the UI (Unscheduled Interchange) Regulation 2009 with Deviation settlement mechanism regulation 2014 in order to strengthen the grid and improve grid stability. This step was taken to ensure that situations of grid failure like that of 30 & 31 July, 2012 will not happen again.

The grid failure has presented a case where some states were using the UI as a trading platform; The grid failure states like Haryana, U.P. were overdrawing heavily whereas states like Rajasthan & Punjab were under drawing from their schedule resulting in frequency variation in the specified range and at the same time making the grid unstable, thus resulted in grid failure.

With this regulation, CERC has implemented a volume limit for buyer and seller depending on their approved schedule, range of frequency has tighten, charges for the unscheduled interchange or deviation has increased. All this will ensure a better demand predictability by states and to avoid UI as a trading platform.

Deviation & Settlement Mechanism will definitely improve the grid discipline and help the state in forecasting of demand and scheduling in a more accurate and stringent manner. Various provisions made in the regulation such as volume limits, additional charges, etc will force the state to procure power through bilateral route or on a day ahead basis which will help in fund flow and eventually improve the position of power sector.

A summary of the deviation settlement mechanism and its comparison with the previous prevailing UI regulation is provided below:

### **Title & Commencement**

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**New Delhi, the 6<sup>th</sup> January, 2014**

**NOTIFICATION**

**No.L-1/132/2013/CERC.-** In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**1. Short title and commencement**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014.
- (2) These regulations shall come into force on 17.2.2014.

**2. Definitions and Interpretation**

(1) In these regulations, unless the context otherwise requires,-

- (a) '**Act**' means the Electricity Act, 2003 (36 of 2003);
- (b) '**actual drawal**' in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
- (c) '**actual injection**' in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;
- (d) '**beneficiary**' means a person purchasing electricity generated from a generating station;
- (e) '**buyer**' means a person, including beneficiary, purchasing electricity through a transaction scheduled in accordance with the regulations applicable for short-term open access, medium-term open access and long-term access;
- (f) '**Connectivity Regulations**' means the Central Electricity Regulatory Commission (Grant of Connectivity, Long Term Access and Medium Term Access in inter-State Transmission) Regulations, 2009 as amended from time to time and shall include any subsequent amendment thereof.
- (g) '**Commission**' means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
- (h) '**Deviation**' in a time-block for a seller means its total actual injection minus its total scheduled generation and for a buyer means its total actual drawal minus its total scheduled drawal.

**CENTRAL ELECTRICITY REGULATORY COMMISSION**

**NEW DELHI**

**New Delhi, the 18<sup>th</sup> December, 2014**

**NOTIFICATION**

**No:L-1/132/2013/CERC** : In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 (hereinafter referred to as "The Principal Regulations"), namely:

1. Short title and commencement – (1)These regulations may be called the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) (First Amendment) Regulations, 2014.
2. These regulations shall come into force with effect from the date of their publication in the Official Gazette.
3. Amendment of Regulation 5 of the Principal Regulations:
  - (1) In sub-clause (ii) of clause (1) of Regulation 5 of Principal Regulations, the figure '1.4.2014' shall be substituted by the words '*the date of revision of price of APM gas by the Government of India*'.
  - (2) In clause (5) of Regulation 5 of Principal Regulations, the words and figures "up to 31.3.2014 and thereafter ₹5.64/kWh sent out" appearing against 'APM gas as fuel' shall be substituted by the words "*up to the date of revision of price of APM gas by Government of India and thereafter, at the rate to be notified by the Commission separately*".
4. Amendment of Regulation 7 of the Principal Regulations:
  - (1) Clause (1) of Regulation 7 of the Principal Regulations shall be substituted as under :

*'(1) The overdrawal/underdrawal of electricity by any buyer during the time block shall not exceed 12% of its scheduled drawal or 150 MW, whichever is lower, when grid frequency is "49.70 Hz and above and below 50.10 Hz";*

*Provided that no overdrawal of electricity by any buyer shall be permissible*

**Central Electricity Regulatory Commission**

**Notification**

**New Delhi, the 7<sup>th</sup> August, 2015**

No. 1/14/2015-Reg.Aff.(FSDS)(ii)/CERC - In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 (hereinafter referred to as the "Principal Regulations") namely: -

1. Short title and commencement - (1) These regulations shall be called the **Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) (Second Amendment) Regulations, 2015,**

(2) These regulations shall come into force with effect from 1<sup>st</sup> November, 2015.

2. **Amendment of Regulation 2 of Principal Regulations:**

**(i) After sub-clause (a) under clause (1) of Regulation 2, new sub-clause (aa) shall be added as under:-**

“ (aa) ‘Absolute Error’ shall mean the absolute value of the error in the actual generation of wind or solar generators which are regional entities with reference to the scheduled generation and the 'Available Capacity' (AvC), as calculated using the following formula for each 15 minute time block:

$$\text{Error (\%)} = 100 \times [\text{Actual Generation} - \text{Scheduled Generation}] / (\text{AvC})$$

**(ii) After sub-clause (q) under clause (1) of Regulation 2, new sub-clause (r) shall be added as under:-**

(r) 'Available Capacity (AvC)' for wind or solar generators which are regional entities is the cumulative capacity rating of the wind turbines or solar inverters that are capable of generating power in a given time-block.

3. **Amendment of Regulation 5 of Principal Regulations:** In clause (1) of Regulation 5 of the Principal Regulations, the words “and over-injection by the seller and shall be worked out on the average frequency of a time-block at the rates specified in the table below as per the methodology specified in clause (2) of this regulation” shall be substituted by the words “and over-injection by the seller, except for wind and solar generators which are regional entities, and shall be worked out on the average frequency of a time-block at the rates specified in the table below as per the methodology specified in clause (2) of this regulation”.

4. **Amendment of Regulation 5 of Principal Regulations:** Sub-clause (iv) to clause (1) of Regulation 5 of the Principal Regulations, shall be substituted as under:-

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**NOTIFICATION**

Dated: 6<sup>th</sup> of May.2016

**No.-L-1/(3)/2009-CERC** - In exercise of powers conferred by section 178 of the Electricity Act, 2003 and all other powers enabling it in this behalf and after previous publication, the Central Electricity Regulatory Commission, hereby makes the following regulations, to amend the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 (hereinafter "Principal Regulations).

**1. Short Title and Commencement**

- (1) These regulations may be called the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters)(Third Amendment) Regulations, 2016
- (2) These regulations shall come into force with effect from 30.05.2016.

**2. Amendment of Regulation 2 of the Principal Regulations:**

- (1) The following proviso shall be added below Regulation 2 (1) (h) of the Principal Regulations:

“Provided that deviation shall be calculated for the Regional Entities by the concerned RLDC/RPC which shall be attributed to various entities embedded within the State by SLDC.”

- (2) The following clause shall be added after clause (m) of Regulation 2(1) of the Principal Regulations:

**“(m-i) Renewable Rich State** means a State whose minimum combined installed capacity of wind and solar power is 1000 MW or more.

Note: Combined installed capacity shall be reckoned on the basis of the capacity installed as on the last day of the month for the purpose of deciding the installed capacity for the next month.

**CENTRAL ELECTRICITY REGULATORY COMMISSION (CERC)**  
3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok Building, 36, Janpath, New Delhi – 110 001  
Tel : 23353503, Fax: 23753920

No. 18/1/2013-Reg.Aff (AS Regul.)/CERC

Dated: 10<sup>th</sup> April, 2013

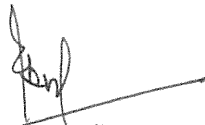
**PUBLIC NOTICE**

Sub: Staff paper on “**Introduction of Ancillary Services in Indian Electricity Market**”.

The staff of the Commission has prepared a consultation paper on "Introduction of Ancillary Services in Indian Electricity Market". Ancillary Services are aimed at supplementing efforts at maintaining power quality, reliability and security of the electricity grid and optimum utilization of resources. To facilitate discussion on the subject, the staff paper highlights various issues involved in the context.

2. Comments of the stakeholders are invited on the staff paper latest by **30.04.2013.**

3. It may be noted that staff paper does not necessarily represent the views of the Commission. The Commission would take a view on various issues after receiving the suggestions of the stakeholders.

  
(Rajiv Bansal)  
Secretary

Appx-2-139 Ancillary Service Regulation (Draft) 2015

CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

New Delhi, the 1<sup>st</sup> May, 2015

NOTIFICATION

No. L - \_\_\_/\_\_\_/\_\_\_/CEERC.- In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**1. Short title and commencement**

- 1.1. These regulations may be called the Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015.
- 1.2. These regulations shall come into force with effect from the date of their publication in the Official Gazette.

**2. Definitions and Interpretation**

- 2.1. In these regulations, unless the context otherwise requires,
  - a. 'Act' means the Electricity Act, 2003 (36 of 2003);
  - b. 'actual drawal' in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
  - c. 'actual injection' in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;
  - d. 'beneficiary' means a person who has a share in an ISGS;
  - e. 'Commission' means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
  - f. 'Congestion' means a situation where the demand for transmission capacity exceeds the Available Transfer Capability;
  - g. 'Deviation' in a time-block for a seller means its total actual injection minus its total scheduled generation and for a buyer means its total actual drawal minus its total scheduled drawal.
  - h. 'Grid Code' means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 79 of the Act.
  - i. 'interface meters' means interface meters as defined by the Central Electricity Authority under the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006, as amended from time to time.
  - j. 'Load Despatch Centre' means National Load Despatch Centre, Regional Load Despatch Centre or State Load Despatch Centre, as the case may be, responsible for coordinating scheduling of the buyers and the sellers in accordance with the provisions of Grid Code;



CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI

New Delhi, the 13<sup>th</sup> August, 2015

NOTIFICATION

No. 18/1/2013/Reg.Aff.(AS Regul.)/CERC.- In exercise of the powers conferred under Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**1. Short title and commencement**

- 1.1. These regulations may be called the Central Electricity Regulatory Commission *(Ancillary Services Operations)* Regulations, 2015.
- 1.2. These regulations shall come into force with effect from such date as may be notified by Commission.

**2. Definitions and Interpretation**

- 2.1. In these regulations, unless the context otherwise requires,
  - a. "Act" means the Electricity Act, 2003 (36 of 2003);
  - b. "actual drawal" in a time-block means electricity drawn by a buyer, as the case may be, measured by the interface meters;
  - c. "actual injection" in a time-block means electricity generated or supplied by the seller, as the case may be, measured by the Interface meters;
  - d. "beneficiary" means a person who has a share in an Inter-State Generating Station;
  - e. "Commission" means the Central Electricity Regulatory Commission referred to in sub-section (1) of section 76 of the Act;
  - f. "Congestion" means a situation where the demand for transmission capacity exceeds the Available Transfer Capability;
  - g. "Detailed Procedure" means the procedure issued under regulation 14;
  - h. "Deviation" in a time-block for a seller means its total actual injection minus its total scheduled generation and for a buyer means its total actual drawal minus its total scheduled drawal;
  - i. "Grid Code" means the Grid Code specified by the Commission under clause (h) of sub-section (1) of Section 79 of the Act;

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

New Delhi, 17<sup>th</sup> September, 2015

**Framework on Ancillary Services Operations Regulations 2015:  
Statement of Reasons**

**Introduction**

Central Electricity Regulatory Commission notified Draft Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015 vide public notice No. 18/1/2013 on 1<sup>st</sup> May, 2015. Comments were invited from all stakeholders till 1<sup>st</sup> June, 2015. Written comments as received from individual stakeholders are available on CERC's website, and their list can be perused in Annexure I. Subsequently, public hearing was held on 12<sup>th</sup> June, 2015, where oral presentations were made by 8 stakeholders.

The important issues raised by the stakeholders, and Commission's analysis and decisions thereon are presented in the subsequent sections.

**1 Definition, Applicability and Scope of Services**

**1.1 Commission's Proposal on Definitions and Scope as in Draft Regulations:**

**1. Short title and commencement**

1.1. *These regulations may be called the Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015.*

**2. Definitions and Interpretation**

2.1. *In these regulations, unless the context otherwise requires,*

- l. "Reserves Regulation Ancillary Services" means an Ancillary Services that consists of either Regulation Down Service or Regulation Up Service;*
- m. "Reserves Regulation Ancillary Services Provider" means the inter-State Generating Stations (ISGSs) having un-requisitioned surplus and eligible to participate in the Reserves Regulation Ancillary Services.*
- n. "Regulation Down Service" means an Ancillary Service that provides capacity that can respond to signals or instruction of the Nodal Agency for decrease in generation, within the technical limit and time limit, to respond to changes in system frequency or congestion in the system.*



# **Power System Operation Corporation Ltd.**

## **Detailed Procedure For Ancillary Services Operations**

*Prepared in Compliance to Regulation 14  
of  
CERC (Ancillary Services Operations) Regulations, 2015*

**March 2016**

**National Load Despatch Centre (NLDC)**

**New Delhi**

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 11/SM/2015**

**Coram:**

**Shri Gireesh B. Pradhan, Chairperson**

**Shri A.K. Singhal, Member**

**Shri A.S. Bakshi, Member**

**Dr. M.K. Iyer, Member**

**Date of Order: 13.10.2015**

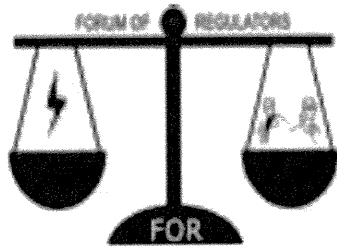
**In the matter of**

Roadmap to operationalise Reserves in the country

**ORDER**

The Electricity Act, 2003 entrusts on the Central Commission important responsibilities inter-alia of regulating the inter-State transmission of electricity, specifying grid code and also enforcing standards with respect to quality, continuity and reliability of service by licensees. Laying down of framework for effective and secure grid operation is thus one of the most important mandates of the Commission. The Central Commission has taken initiatives towards this end through regulations on Indian Electricity Grid Code and Deviation Settlement Mechanism and related matters. The Commission has also issued direction from time to time for enforcing grid discipline.

2. Over the period, reliance of the utilities on the grid for meeting their short term energy demand was increasing. This caused serious threat to grid security. The Commission, therefore, tightened the operating band of grid frequency and made deviation charges stringent enough to discourage the utilities from deviation from their schedule. This has started yielding the desired results in terms of operation of the grid



## **FORUM OF REGULATORS**

# **Model Regulations on Forecasting, Scheduling and Deviation Settlement of Wind and Solar Generating Stations at the State level**

---

**2015**

**DRAFT**

**PROCEDURE FOR IMPLEMENTATION OF THE FRAMEWORK**

**ON**

**FORECASTING, SCHEDULING AND IMBALANCE HANDLING FOR RENEWABLE**

**ENERGY (RE) GENERATING STATIONS BASED ON WIND AND SOLAR ENERGY**

**AT**

**INTER-STATE LEVEL**

**CENTRAL ELECTRICITY REGULATORY COMMISSION**

**12<sup>TH</sup> FEBRUARY 2016**

CENTRAL ELECTRICITY REGULATORY COMMISSION

NEW DELHI

No. L-1/13/2010- CERC

Dated 20<sup>th</sup> January, 2010

NOTIFICATION

In exercise of powers conferred under Section 66 read with Section 178(2)(y) of the Electricity Act, 2003 (36 of 2003) and paragraph 5.7.1 (f) of the National Electricity Policy, and all other powers enabling it in this behalf, and after previous publication, the Central Electricity Regulatory Commission hereby makes the following regulations, namely:

**Part – 1**  
**Preliminary**

**1. Short title and commencement**

- (i) These regulations may be called the Central Electricity Regulatory Commission (Power Market) Regulations, 2010.
- (ii) These regulations shall come into force from the date of their publication in the Official Gazette.

**2. Definitions and Interpretation**

- (i) In these regulations, unless the context otherwise requires-
  - (a) "Act" means the Electricity Act, 2003 (36 of 2003);
  - (b) "Annual Turnover" means such turnover in Million Units of Electricity (MU) which is calculated considering the total number of units cleared in all types of transactions on a Power Exchange in a financial year.  
*For example- if a transaction of 10 MU is cleared , the turnover considered will be 10 MU only and not a cumulative addition of 10 MU as buy quantity and 10 MU as sell quantity of that transaction;*
  - (c) "Automated audit trail" means automated creation and maintenance of time-sequenced record of transactions (creation, modification or deletion)

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

Dated: 3<sup>rd</sup> April, 2014

**NOTIFICATION**

**L-1/13/2010/CERC:** In exercise of powers conferred under Section 66 read with Section 178(2) (y) of the Electricity Act, 2003 (36 of 2003) and paragraph 5.7.1 (f) of the National Electricity Policy, and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Power Market) Regulations, 2010 (hereinafter referred to as 'Principal Regulations') namely:

**1. Short title and commencement:**

(i) These regulations may be called the Central Electricity Regulatory Commission (Power Market) (First Amendment) Regulations, 2014.

(ii) These regulations shall come into force from the date of their publication in the Official Gazette.

2. A new Regulation shall be inserted after Regulation 22 of the Principal Regulations as under:-

**"22A Qualifications and Disqualifications for appointment as Director in the Board of Power Exchange**

(1) A person shall be considered as qualified to be appointed as a Director in the Board of Power Exchange if such person has a record of fairness and integrity, good reputation and character, and honesty.

(2) A person shall be considered as disqualified for appointment as Director of the Power Exchange, if:-

(a) he is convicted by a court of any offence involving moral turpitude or fraud or any economic offence or any offence against any law and a period of five years has not elapsed from the date of expiry of the conviction:

Provided that if the person is convicted of any offence and sentenced in respect thereof to imprisonment for a period of seven years or more, he shall not be eligible to be appointed as a Director in any Power Exchange; or

(b) he is found guilty in any proceedings for non-compliance of any of the provisions of the Act or the rules or the regulations made thereunder or any order made by the Appropriate Commission or the Appellate Tribunal for Electricity and a period of five years has not elapsed from the date of the order; or

(c) an order restraining, prohibiting or debarring him to hold the post of Director in the Board of a Company has been passed by any other Regulatory Authority



CENTRAL ELECTRICITY REGULATORY COMMISSION

**STAFF PAPER ON EXTENDED MARKET SESSION ON  
POWER EXCHANGES**

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The paper discusses additional contracts for extended market session on power exchanges. This is in response to the deviation settlement mechanism regulation and tightening of the operating frequency band notified recently. These contracts will benefit generators and beneficiaries in contingency conditions and facilitate transition of UI volumes to a scheduled market.

**July 2014**

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 006/SM//2015**

**Coram:**

**Shri Gireesh B. Pradhan, Chairperson**

**Shri A.K. Singhal, Member**

**Shri A. S. Bakshi, Member**

**Date of Order: 8.4.2015**

**IN THE MATTER OF**

Extended Market Session on Power Exchanges

**ORDER**

Section 66 of the Electricity Act, 2003 provides for development of market (including trading) in power as under:

"66. Development of market- The Appropriate Commission shall endeavour to promote the development of a market (including trading) in power in such manner as may be specified and shall be guided by the National Electricity Policy referred to in Section 3 in this regard."

2. The Commission in pursuance of objectives of maintaining grid security and grid discipline as envisaged under the Central Electricity Regulatory Commission (Indian Electricity Grid Code), Regulations, 2010 and subsequent amendments, has further narrowed the operating frequency band. This coupled with deterrent provisions in the regulations on Deviation Settlement Mechanism is aimed at inducing the grid connected entities to increasingly bank on scheduled transactions rather than on Unscheduled Interchanges (UI).
3. In order to provide the grid-connected entities with measures to respond optimally and in pursuance of development of market, the staff of the Commission published a staff paper on Extended Market Session on Power Exchanges. Following options were explored for operating additional contracts on the power exchanges :-
  - i. **24x7 intraday/contingency contracts** - Operating day ahead contingency contracts in remaining hours after gate closure of day ahead market on power exchanges and operating intraday contracts on 24x7 basis;
  - ii. **Evening market** – Operating Day ahead auction based on collective transaction in the evening on power exchanges; and operating intraday contracts on 24x7 basis.

## **Review of the Functioning of Round the Clock Intraday/Contingency Market (Extended Market Session) on Power Exchanges**

### **Background**

The Commission in its order dated 8.4.2015 in Petition No. 006/SM//2015 directed the power exchanges in respect of operation of 24x7 intraday/contingency market as under:

*“9. The Commission directs the following:*

*a. Power Exchanges should commence operation of round the clock intraday/contingency market within three (3) months from the date of issue of this order after undertaking all requisite modifications, formulation of appropriate risk management practices considering banking hours and testing and validations of the software application of the trading system, clearing and settlement system and any other applications needed. The features of the intraday/contingency market shall be as under:-*

*i. The existing products for day ahead contingency and intraday markets would continue to be operated by the exchanges. As a principle, the timeline for these products is being extended so that trading window is open for periods as mentioned below:*

*1. Same day Delivery (upto 2400 hours): The trading window is open round the clock for delivery of power on the same day (minimum delivery period - 3 hours after contract execution subject to corridor availability).*

*2. Next day Delivery (0000- 2400 hours): The trading window opens after declaration of day ahead results and remains open till end of day.*

*ii. Price discovery mechanism remains as is for the respective products.*

*b. Power Exchanges are directed to submit for approval of the Commission the proposed amendments, if any, to Rules, Bye-laws or Business Rules along with views of the stakeholders on the modifications and responses of the Power Exchanges on each of the views within one (1) month from the date of issue of this order.*

*c. The Commission may review the functioning of round the clock intraday/contingency market after six (6) months from the date of operation of the market.*

# **Large Scale Grid Integration of Renewable Energy Sources - Way Forward**



**Central Electricity Authority  
November 2013**

*International Seminar on  
"Impact of Generation from Renewable Sources on Conventional Power  
Generation and Grid"*

Appx-2-152 Ramp Management & Integration of Renewables

# **Ramp Management & Integration of Renewables**

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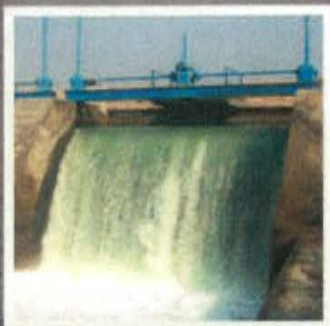
**S.K. Soonee  
Chief Executive Officer  
Power System Operation Corporation Ltd.**

**31<sup>st</sup> January 2014**



Ministry of Power  
Government of India

Report of the  
**Technical Committee**  
on  
**Large Scale Integration of Renewable Energy,  
Need for Balancing,  
Deviation Settlement Mechanism (DSM)**  
and  
**associated issues**



April, 2016

**APPENDIX 3**

**ENVIRONMENTAL  
AND  
SOCIAL CONSIDERATIONS**



পশ্চিমবঙ্গ স্টোরেজ প্রজেক্ট ডিপার্টমেন্ট  
**West Bengal State Electricity Distribution Company Limited**  
(A Government of West Bengal Enterprise)  
Pumped Storage Project Department

FAX : 033 2334-5855  
Telephones : 033 2334-5821/2319-7628  
E-Mail : [wbsedclpspd@gmail.com](mailto:wbsedclpspd@gmail.com)

Vidyut Bhavan (5<sup>th</sup> Floor)  
Block-DJ, Sector-II  
Bidhannagar, Kolkata – 700 091

Memo No. PSPD/Turga PSP/2F/ 38

Dated : 09 May 2016

To,  
The Director, (IA – I Division)  
Ministry of Environment, Forest and Climate Change,  
Government of India,  
Paryavaran Bhawan,  
CGO Complex, Lodi Road,  
New-Delhi-110 003

**Sub: Turga Pumped Storage Project (1000 MW) in Purulia District of West Bengal by West Bengal State Electricity Distribution Company Limited - Request for Environmental Clearance**

**Ref: TOR vide File No. J-12011/13/2013 – IA-I dated 04<sup>th</sup> November 2013**

Sir,

Based on the stipulation of the TOR clearance along with the additional Terms & Reference as set forth by the Ministry of Environment, Forest and Climate Change, Govt. of India vide No. J-12011/13/2013–IA-I dated 04<sup>th</sup> November 2013 for pre-construction activities at the proposed site as per the provisions of the Environmental Impact Assessment Notification, 2006 and its subsequent amendment, 2009 for preparation of EIA/EMP report, the West Bengal State Electricity Distribution Company Limited (WBSEDCL) has prepared and finalized the Final EIA/EMP report of proposed Turga Pumped Storage Project (1000 MW).

As stipulated in the TOR the following has been done –

- i. A table of 10-daily discharge in 90% dependable year showing the intercepted discharge vis-à-vis environment & other releases is included in the EIA/EMP report
- ii. A site-specific study for establishing the environmental flow release during monsoon, non-monsoon/non-lean and lean months has been carried out and relevant report enclosed in the EIA/EMP report
- iii. Biodiversity study carried out & report enclosed in EIA/EMP report



## EXECUTIVE SUMMARY

### 1. INTRODUCTION

The Turga Pumped Storage Project on Turga nala is located in Purulia district of West Bengal. This is one of the four Pumped Storage Schemes initially identified by erstwhile WBSEB (now known as WBSEDCL). The Turga Pumped Storage Scheme envisages utilization of the waters of the river Turga in Ajodhya hills for peak power generation on a Pumped storage type development. The coordinates of Upper Dam site are 23°12'47"N and 86°04'20"E. Likewise, coordinates of the lower Dam site are 23°11'49"N and 86°04'13"E. The project site is approachable by a jeepable road taking off from Balarampur - Baghmundi state highway. The nearest rail head is located at Barabhum and nearest airport is located at Ranchi. The project location map is enclosed as Figure-1.

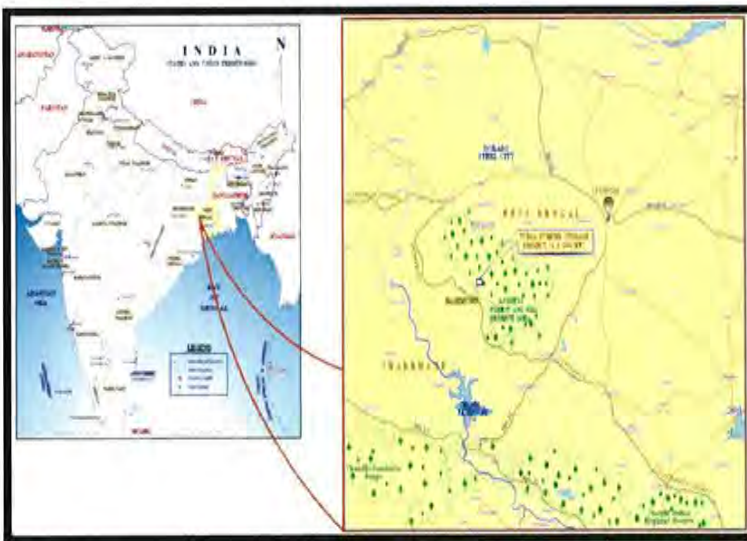


Figure-1: Project Location Map

### 2. PROJECT PROFILE

The Turga Pumped Storage Project envisages utilization of hydro potentiality of Ajodhya Plateau, an extension of Chhota Nagpur Plateau. The project envisages the construction of Upper Dam (C.A. 8.29 Sq. Km) across Turga Nala, a tributary of Subarnarekha river and a water conductor system with an underground Power House on the downstream of Upper Dam and a Lower Dam having intermediate catchment of 4.37 sq. km ( total C.A. 12.66 sq. km ).

The Project is a Close Loop type Pumped Storage Scheme. It comprises two reservoirs at two different levels (the difference of water levels of the reservoirs will represent the

**WEST BENGAL STATE ELECTRICITY  
DISTRIBUTION COMPANY LIMITED**

(A Government of West Bengal Enterprise)



**VOLUME- I: EIA REPORT**



**TURGA PUMPED STORAGE  
PROJECT**

(Previously known as Purulia Pumped Storage Extension Project on Turga Nala)

**(4 X 250 MW)**

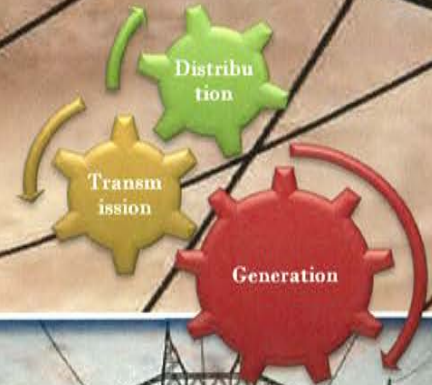
APRIL 2016

## **APPENDIX 4**

### **POWER SECTOR STATUS IN STATES**



# भार उत्पादन संतुलन रिपोर्ट 2014-15 LOAD GENERATION BALANCE REPORT 2014-15



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण

**Central Electricity Authority**

(विद्युत अधिनियम, 2003 की धारा 73(ए) के तहत के.वि.प्रा. के सांविधिक दायित्व का निर्वहन करते हुए)  
(In fulfillment of CEA's obligation under section 73(a) of Electricity Act, 2003)



# भारत उत्पादन संतुलन रिपोर्ट 2015-16

# LOAD GENERATION BALANCE REPORT 2015-16

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

(विद्युत अधिनियम, 2003 की धारा 73(ए) के तहत के.वि.प्रा. के सांविधिक दायित्व का निर्वहन करते हुए)

(In fulfillment of CEA's obligation under section 73(a) of Electricity Act, 2003)



भारत सरकार  
Government of India

विद्युत मंत्रालय  
Ministry of Power

केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority

(विद्युत अधिनियम, 2003 की धारा 73(ए) के तहत  
के.वि.प्रा. के सांविधिक दायित्व का निर्वहन करते हुए)  
(In fulfillment of CEA's obligation under section 73(a) of  
Electricity Act, 2003)

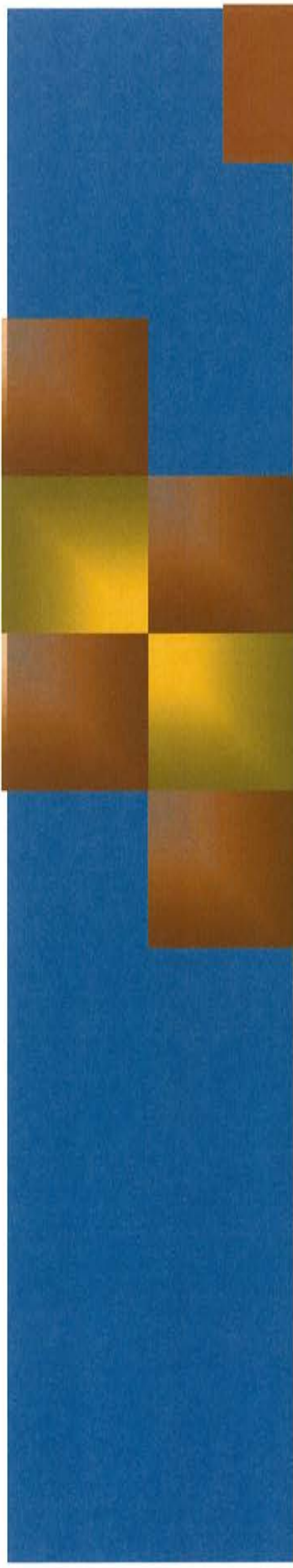
**भार उत्पादन संतुलन रिपोर्ट**

**2016-17**

**LOAD GENERATION  
BALANCE REPORT**

**2016-17**

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# Report on Short-term Power Market in India: 2015-16



Economics Division  
Central Electricity Regulatory Commission





पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड  
(पावर ग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कम्पनी)  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
(A wholly owned subsidiary company of Power Grid Corporation of India Limited)



CIN: U40105DL2009GO1188682

पूर्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गोल्फ क्लब रोड, टालिगंज, कोलकाता - 700 033

दूरभाष : 033 2423 5867/5875, फैक्स : 033 2423 5809/5704/5029, ई-मेल : erldc@posoco.in / www.erldc.org

EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kolkata - 700 033

Tel. : 033 2423 5867/5875, Fax : 033 2423 5809/5704/5029, E-mail : erldc@posoco.in / www.erldc.org

सन्दर्भ: पू. क्षे. भा. प्रे. केन्द्र / एम आई एस/ वार्षिक रिपोर्ट / 2015-16 / 14 26-14 51 दिनांक : 28.06.16

सेवा में / To

वितरण सूची के अनुसार / (As per distribution list)

विषय : पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वर्ष 2015-16 की वार्षिक रिपोर्ट

Sub : Annual Grid Report of ERLDC for the year 2015-16

महोदया / महोदय / Madam/ Sir,

कृपया इस पत्र के साथ पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वर्ष 2015-16 की वार्षिक रिपोर्ट संलग्न पायें। यह वार्षिक रिपोर्ट पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वेब-साईट (www.erldc.org / www.erldc.com) पर भी उपलब्ध है।

Please find enclosed a copy of Annual Report of Eastern Regional Load Despatch Centre for the year 2015-16. The Annual report is also available at the website of ERLDC (www.erldc.org / www.erldc.com) .

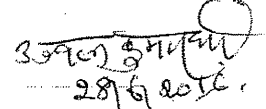
रिपोर्ट पर आपके सुझावों के लिए हम आपके आभारी होंगे।

Your comments/suggestion on the report will be highly appreciated.

सधन्यवाद / Thanking you,

संलग्न : उपरोक्तानुसार / Enclosed as above.

आपका विश्वासी / Yours faithfully,



(यू के वर्मा) / (U.K. Verma)

महाप्रबंधक / General Manager



**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

6<sup>th</sup> January, 2014

**NOTIFICATION**

No.L-1/18/2010-CERC:In exercise of powers conferred under clause (h) of sub-section (1) of Section 79 read with clause (g) of sub-section (2) of Section 178 of the Electricity Act, 2003 (36 of 2003), and all other powers enabling it in this behalf, the Central Electricity Regulatory Commission hereby makes the following regulations to amend the Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2010 including the first amendment thereof (hereinafter referred to as “the Principal Regulations”).

**1. Short title and commencement**

- (1) These Regulations may be called the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Second Amendment) Regulations, 2014.
- (2) These Regulations shall come into force with effect from 17.2.2014.

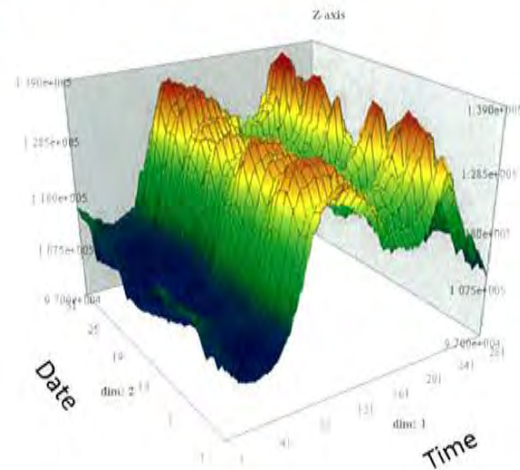
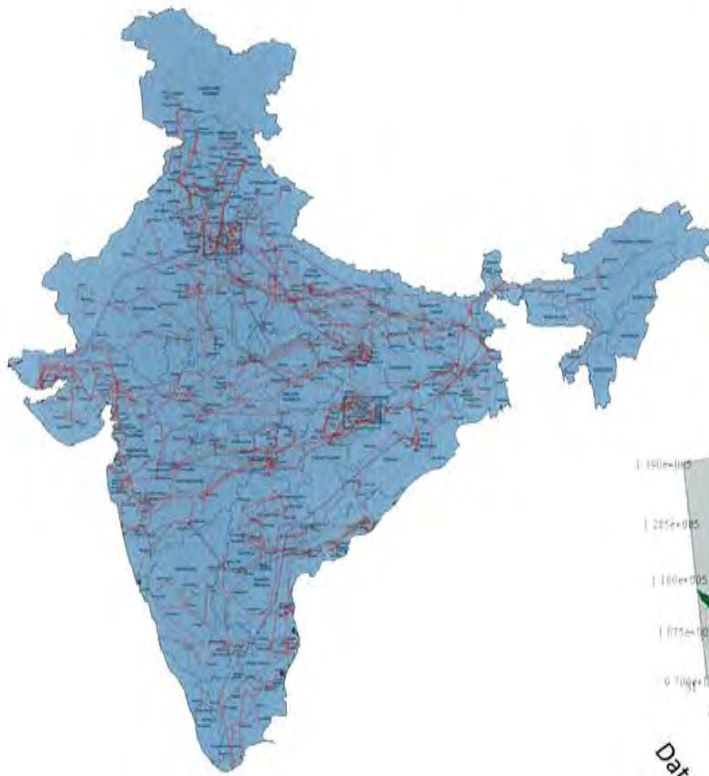
**2. Amendment in Regulation 2 of Principal Regulations.**-Following new clauses shall be added after clause (gggg) of sub-Regulation (1) of Regulation 2 of Principal Regulations as under, namely:

“(hhhh) Deviation Settlement Mechanism Regulations means Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) Regulations, 2014 including any subsequent amendments thereof;

(iii) Pooling Station means the sub-station where pooling of generation of individual wind generators or solar generators is done for interfacing with the next higher voltage level:

Provided that where there is no separate pooling station for a wind / solar generator and the generating station is connected through common feeder and terminated at a sub-station of distribution company/STU/ CTU, the sub-

# Electricity Load Factor in Indian Power System



**Power System Operation Corporation Ltd.**

**January 2016**



Appx-4-8 Southern Regional Load  
Despatch Center Monthly Report March  
2016

# प्रणाली प्रचालन विवरण SYSTEM OPERATION REPORT

**मार्च 2016**  
**March 2016**

दक्षिण क्षेत्रीय भार प्रेषण केन्द्र  
बेंगलूर



# के वि प्रा

## CEA



### दक्षिण क्षेत्रीय विद्युत समिति

### SOUTHERN REGIONAL POWER COMMITTEE

### बेंगलूरु

### BENGALURU

### वार्षिक रिपोर्ट

### ANNUAL REPORT

### 2014-15



# के.वि.प्रा.



## CEA

दक्षिण क्षेत्रीय विद्युत समिति  
बेंगलूरु

**SOUTHERN REGIONAL  
POWER COMMITTEE  
BENGALURU**

वार्षिक रिपोर्ट  
**ANNUAL REPORT  
2015-16**

**QUARTERLY REPORT  
OF  
SOUTHERN REGION (APR-JUN'15)**



**SOUTHERN REGIONAL LOAD DESPATCH CENTRE  
POWER SYSTEM OPERATION CORPORATION LTD  
BANGALORE**

**QUARTERLY REPORT  
OF  
SOUTHERN REGION (JUL-SEP'15)**



**SOUTHERN REGIONAL LOAD DESPATCH CENTRE  
POWER SYSTEM OPERATION CORPORATION LTD  
BANGALORE**

**QUARTERLY REPORT  
OF  
SOUTHERN REGION (OCT-DEC'15)**



**SOUTHERN REGIONAL LOAD DESPATCH CENTRE  
POWER SYSTEM OPERATION CORPORATION LTD  
BANGALORE**



**QUARTERLY REPORT  
OF  
SOUTHERN REGION (JAN-MAR'16)**



**SOUTHERN REGIONAL LOAD DESPATCH CENTRE  
POWER SYSTEM OPERATION CORPORATION LTD  
BANGALORE**

## Status of Rural Electrification in Maharashtra

### I. Village Electrification (Nos.)

a. Total inhabited villages (as per Census 2011)	-	40956
b. Un-electrified villages as on 31.05.2016	-	Nil

### II. Household Electrification (Nos. in Lakhs)

a. Total Rural Households	-	130.16
b. Balance un-electrified Rural Households (As on 31.03.2015) (as per PFA document)	-	18.73
c. Subsequent progress under DDUGJY	-	0.0
d. Balance un-electrified as on 31.05.2016	-	18.73

*(Out of 18.73 Lakh Rural HHs, 0.048 Lakh HHs already sanctioned under XI & XII Plan)*

### III. Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) (as on 31.05.2016)

#### A. Ongoing RE projects (erstwhile RGGVY)

Plan	No. of projects	Amount sanctioned (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of UE Villages (Nos.)		Electrification of BPL Households (Nos.)		Remarks
				Scope	Achmt	Scope	Achmt	Scope	Achmt	
X	4	86.88	85.74 (99%)			4291	4291 (100%)	208969	208969 (100%)	All projects closed
XI	31	610.37	553.39 (91%)			32173	31863 (99%)	1017216	1012381 (99%)	30 projects closed
<b>Total</b>	<b>35</b>	<b>697.25</b>	<b>639.13 (92%)</b>			<b>36464</b>	<b>36154 (99%)</b>	<b>1226185</b>	<b>1221350 (99%)</b>	<b>34 projects closed</b>

#### B. New projects

##### DDUGJY Grid:

37 projects costing **Rs 2163.44 Cr** have been sanctioned under DDUGJY:

Feeder segregation	:Rs 700.00 Cr	SAGY	:Rs 18.97 Cr
System Strengthening & RHHs	:Rs 1433.71 Cr	PMA charges	:Rs 10.76 Cr

(Physical scope- 69 SAGY villages; the projects are yet to be awarded)

Appx-4-16 Maharashtra Power for All  
A JOINT INITIATIVE OF



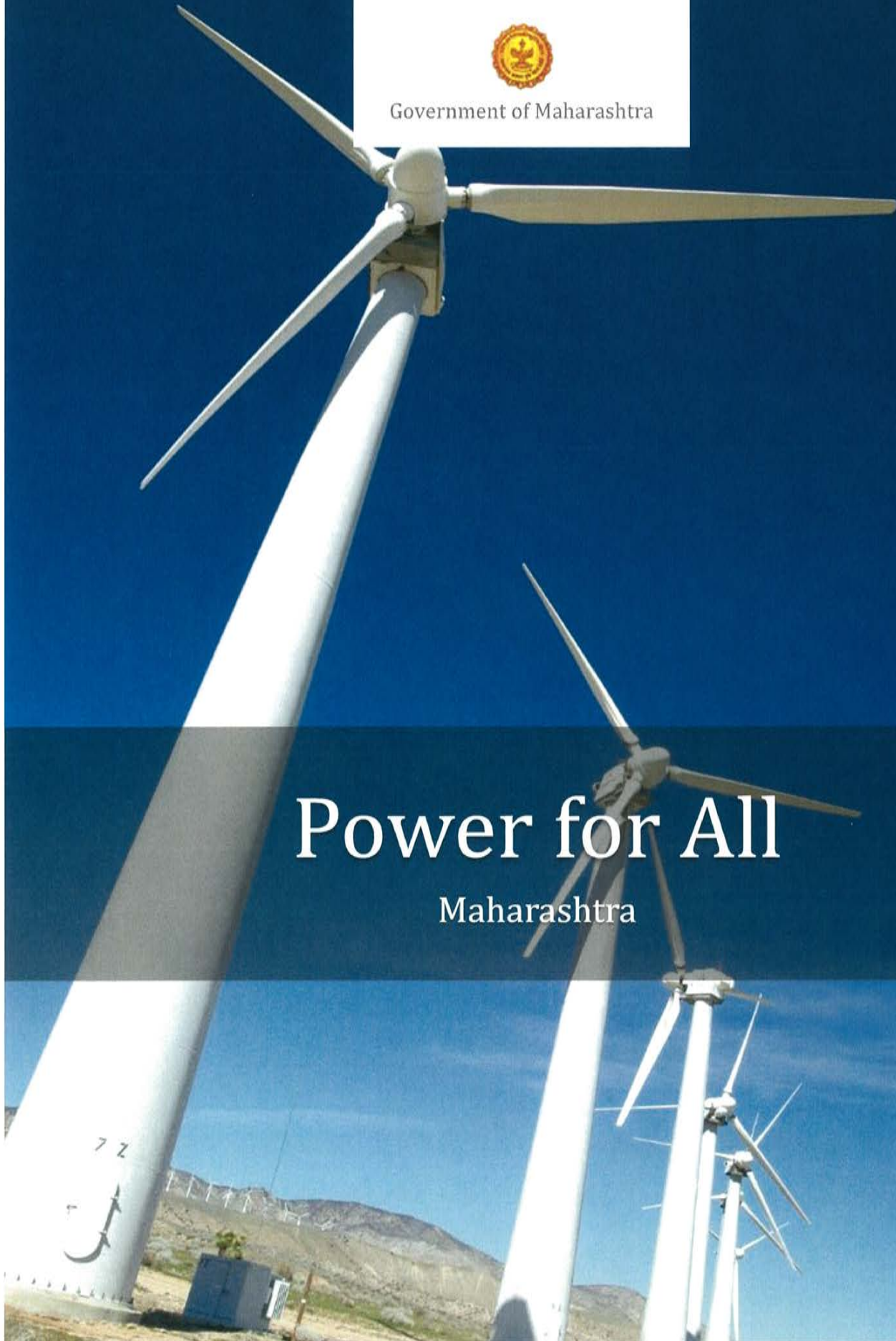
Government of India




Government of Maharashtra


# Power for All

Maharashtra





Appx-4-17 MAHATRANSCO PSP Ghatgar..




**MAHATRANSCO**  
Maharashtra State Electricity Transmission Co. Ltd.

## Operation of Ghatghar Hydro Pumped Storage Plant in Maharashtra

Presentation by  
State Load Despatch Centre, Airoli  
June-2016

## Ghatghar Pump Storage Operation



- **A. Plant details:-**
- Unit 1 (125MW) Commissioned on 08.04.2008
- Unit 2 (125MW) Commissioned on 21.06.2008
- 1) Capacity : 2 units ( 250 MW) Reversible Francis Turbine Pumps & Generator
- 2) Rated Head : 410 m ( Generation Mode ) & 430 m ( Pumping Mode )
- 3) Rated Discharge 37.40 m<sup>3</sup>/sec
- 4) Max yearly generation possible : 469.5 Mus ( Running 2X125MW , Daily 6 hrs for 313 day for year )
- 5) Max yearly energy required for pumping : 645.372 Mus.( Running 2X150MW Daily 7 hrs for 313 day for year )
- 6) Power House Type : Under Ground
- 7) Black start facility : 2 x 1250 KVA, 11 KV Diesel Generating sets.
- 8) Generator speed:- 500 R.P.M.

2

**पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)  
(A wholly owned subsidiary company of POWERGRID)



**WESTERN REGIONAL LOAD DESPATCH CENTRE**

F-3, MIDC Area, Andheri (East) Marol, Mumbai – 400 093, CIN : U40105DL2009GOI188682  
Phone (O) : 022-28202690, 28203885, 28203885, Fax : 022-28235434, 28202630 website: www://wrldc.com

प क्षेत्र भा प्रे केंद्र / एम आई एस/ वार्षिक रिपोर्ट / 2016/308/1070  
WRLDC /MIS/Annual Report/2016/308/

दिनांक : Date 29 | 06 | 2016

सेवा में / To,

वितरण सूची के अनुसार / As per distribution list

विषय : पश्चिम क्षेत्रीय भार प्रेषण केंद्र की 2015-16 की वार्षिक रिपोर्ट।

Sub: Annual Report of Western Regional Load Despatch Centre for the Year 2015-16.

महोदय / Sir

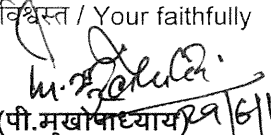
आपको सूचित किया जाता है कि पश्चिम क्षेत्रीय भार प्रेषण केंद्र की साल 2015-16 की वार्षिक रिपोर्ट वेब साइट [www.wrldc.com/www.wrldc.in](http://www.wrldc.com/www.wrldc.in) पर निम्नलिखित लिंक पर उपलब्ध है।

This is to inform you that Annual Report of Western Regional Load Despatch Centre for the Year 2015-16 is available in the website [www.wrldc.com/www.wrldc.in](http://www.wrldc.com/www.wrldc.in) on the following link.

[www.wrldc.com/Reports/Annual/AnnualReport](http://www.wrldc.com/Reports/Annual/AnnualReport)

धन्यवाद सहित | With Regards

आपका विश्वस्त / Your faithfully

  
(पी. मुखोपाध्याय 29/6/16)  
महाप्रबंधक

「もうくるな」  
と言われる営業

嫌われる営業と、歓迎される営業の違い  
初対面の自己紹介であなたは何を話していますか?  
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DIRL



# The Telegraph

calcutta, india

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## Ball set rolling for Cesu privatisation

Subhashish Mohanty

**Bhubaneswar, May 24:** The process of privatising Central Electricity Supply Utility of Odisha (Cesu), a government subsidiary for power distribution, has begun. Odisha Electricity Regulatory Commission (OERC) manages Cesu.

The OERC has invited an expression of interest from the private sector to help it in appointing an "advisor" who would assist the company in selecting investors for the transfer of ownership and management of Cesu.

The advisor will be to help the OERC negotiate with the prospective bidder to buy its Cesu shares. The OERC has 51 per cent stake in the utility company and the rest are with the state government.

Odisha was the first state to go for privatisation in the power sector in 1996. The state was divided into four sectors. While the coastal and central belt were under Central Electricity Supply Company of Odisha Limited (Cesco), now called Cesu, western, northern and southern areas of the state functioned under the Reliance Infra. In March, the OERC cancelled the licence of Reliance Infra for its failure to make any improvement in the power sector. The three regional units are now functioning under Grid Corporation of Odisha (Gridco).

In the case of Cesco, trouble began after the super cyclone wreaked havoc in the state in 1999. The American power giant, AES, which had 51 per cent share in it, quit Cesco's management in 2001 and this led to the birth of Cesu.

"After the revocation of the licence in 2005, the OERC initiated the process of selling the utility, but could not. Then, it formulated a scheme for operation and management of distribution and retail supply of electricity in the central zone. Initially the tenure of the scheme was two years. The tenure was extended periodically. At present, the scheme is extended till July 7, 2015," an OERC official said.

Now, after operating the scheme for over eight years, the OERC has decided to revive its efforts to sell and transfer of the ownership and management of the power utility. OERC officials claimed that one of the reasons for the decision to sell the utility was the transfer of liabilities because Cesu has, over the years, accumulated a loss of Rs 2,000 crore. The buyer will inherit the assets as well as the liabilities of the organisation.

The OERC has put a condition that anyone buying the power utility would also have to absorb all its existing 10,000 odd employees. Those not willing to serve in the new dispensation will have to be given compensation.

Convener of the joint action committee of Cesu B.P. Paitala said: "We will organise a protest rally against the decision of the state government on May 26. The state should run the power sector itself."

While the state government has so far remained silent on the issue, BJD spokesperson Samir Ranjan Dash said: "The government will keep 49 per cent shares of the utility and sell 51 per cent."

The news of the attempts to privatise Cesu comes at a time the state is reeling from intermittent power cuts.

Sources said there would be power cuts in Bhubaneswar, Cuttack and Khurda from tomorrow because of damage to a major supply tower near Balugaon, around 70km from here. The power cuts will continue till the end of the month.

Energy minister Pranab Prakash Das denied this saying the occasional disruption in supply was on account of overloading caused by excessive use of air-conditioners.

"This is at best a temporary phenomenon," he said.

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GOVERNMENT OF ODISHA  
DEPARTMENT OF ENERGY

\*\*\*\*\*

No. 187 /En.,  
EL (BJ) 06/2015

Dated 08.01.2016

OFFICE MEMORANDUM

**Sub: Amendment of Biju Gram Jyoti-Rural Electrification programme of the State Government.**

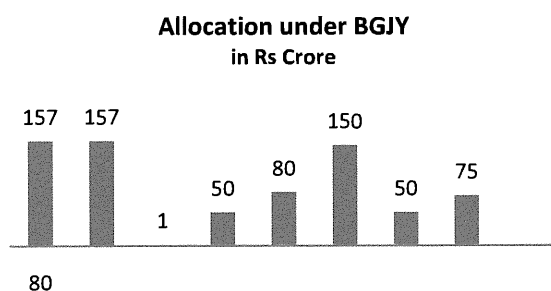
1. The State Government had introduced the scheme namely "Biju Gram Jyoti-Rural Electrification programme" during the year 2007-08 for electrification of villages/habitations having population below 100 which were not eligible to be covered under the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY). It was decided that 10,000 villages/habitations would be covered during 11<sup>th</sup> Five year Plan. Accordingly, the Govt. had allocated an amount of Rs.314 Crore for the scheme @ Rs.50 Lakh per block per annum for 2007-08 and 2008-09. The detailed guidelines for execution of the scheme were issued vide this Department Office Memorandum No.8228 dt.26.09.07.
2. (a) In course of execution of the scheme, certain difficulties were brought to the notice of the Govt. Hence, revised guideline was issued vide this Dept. OM No. 837 dated.03.02.2010, modifying the maximum cost limit of electrification of Rs.3.50 Lakh per habitation to Rs.4.50 Lakh in plain areas and Rs.6.00 Lakh in the hilly and tribal area. Besides, it was stipulated that where energisation of private L.I Points/Pump sets is not feasible in a Block, the matter with all justification for diversion of funds shall be placed before the DEC by the Collectors and after approval of DEC, the Collectors will be competent to divert the funds from one activity to another.
- (b) As a result of implementation of electrification programme including Biju Gram Jyoti, Biju Saharanchal Vidyutkaran Yojana and Rajiv Gandhi Grameen Vidyutkaran Yojana the demand for drawl of power from transmission system has tremendously increased. This has subjected

(P.T.O.)

**Biju Gram Jyoti Yojana(BGJY)**

**Objective:** In order to ensure “Electricity to all”, the State Govt. have launched a scheme in the year 2007-08 namely, “Biju Gram Jyoti Yojana” to electrify villages/habitation having less than 100 population those are not covered under RGGVY. There was a target for electrification of 10,000 villages/ habitations during the 11<sup>th</sup> Five Year Plan under the scheme, which have already been achieved. The target for the 12<sup>th</sup> Plan Period has not been fixed yet.

**Fund flow arrangement:** The Government of Odisha provides budgetary support of 100% for implementation of this people’s beneficiary scheme. So far the Government of Odisha have provided ₹ 645 crore for this programme. The year-wise allocation of funds is given in the figure below:



For electrification of remaining BPL households under the scheme, a provision of ₹75.00 crore is proposed in the Plan Budget for the F.Y. 2014-15.

**Implementation Status:** The amount allotted under the scheme in each year is released in favour of the district Collectors for execution of work. 12789 nos. villages and 154316 BPL Households have been electrified till 31.03.2014, under the scheme. The work is implemented through the electricity distribution Companies or by the authorized licensee as the case may be under the direct supervision of district administration.

Figure 1. Allocation under BGJY

**Project Monitoring Mechanism:** The Government of Odisha in Energy Department lays considerable emphasis on sustained monitoring of the projects. Though the schemes are being implemented by the district administration, the Energy Department conducts regular review and project evaluation meeting under the Chairmanship of Principal Secretary by convening meeting of district Collectors and the officials of the Executing Agencies. The Hon’ble Chief Minister, Odisha also undertake the review meeting time to time for success of the scheme. The senior officers of the Department make field visit to review the progress of work at field level.



GOVERNMENT OF ODISHA  
DEPARTMENT OF ENERGY

\*\*\*\*\*

No. 191 /En.,  
EL(BJ)-06/2015

Dated 08.01.2016

OFFICE MEMORANDUM

**Sub: Amendment of Biju Saharanchal Vidyutikaran Yojana- A programme of the State Govt. to provide access to electricity to the people living in un-electrified areas of the Urban Local Bodies.**

The State Govt. introduced the scheme namely "Biju Saharanchal Vidyutikaran Yojana" to provide access to electricity to the people living in un-electrified villages/Wards/Slums of urban areas along with system improvement during the year 2010 vide Office Memorandum No.834 dtd.03.02.2010. As per the scheme guidelines, villages/wards/slums with a minimum population of 100 will be considered for the coverage under the scheme. Each Municipal Corporation is to be provided with Rs.1 Crore, each Municipality with Rs.50.00 Lakh and each NAC with Rs.30.00 Lakh per annum. The maximum cost for electrification of un-electrified villages/wards/slums will be Rs.3.5 lakh per village/ward/slum inclusive of system improvement.

The major components of the scheme are as follows:

(i) Electrification of un-electrified villages/wards/slums inside the Municipal Corporations, Municipalities and NACs.

(ii) BPL families within these un-electrified villages/wards/slums inside the Municipal Corporations, Municipalities and NACs will be provided with electricity on the pattern of Kutir Jyoti within a maximum cost of Rs.2,000/- only per Households. This will include (i) service connection to the House holds up to 30 meters, (ii) 5 Amp Meter, (iii) CFL bulb of 18 watt & 11 watt and (iv) earthing devices.

(iii) Up-gradation of capacity of distribution system will be made in order to cope up with the additional load.

2. In course of execution of the scheme certain difficulties were brought to the notice of the Govt. and the guideline was revised vide Office Memorandum No.2809 dtd.02.04.2013 with the following decisions.

(i) Villages/Wards/Slums with a population of 100 or less will be considered for coverage under the programme.

### **Biju Saharanchala Vidyutikaran Yojana (BSVY)**

**Objective:** For providing access to electricity to the people living in unelectrified areas of urban local bodies, the State Government have launched a flagship programme namely, Biju Saharanchala Vidyutikar Yojana (BSVY) during the year 2010-11. Under the scheme, unelectrified villages/yards with population of less than 100 along with BPL household electrification and system improvement are taken up. Three(3) Municipal Corporations, 37 Municipalities and 63 NACs of the State have been covered under the Scheme.

**Fund flow arrangement:** The Government of Odisha is providing 100% budgetary support for implementation of the scheme which started since the year 2010-11. During the year 2010-11, a provision of ₹ 40.40 crore was made available and the same has been disbursed to the district Collectors to provide funds @ ₹1.00 crore for Municipal Corporation, ₹50.00 lakh per Municipality and ₹30.00 lakh per NAC. The maximum cost of electrification of an un-electrified village is estimated at ₹3.50 lakh and a BPL house electrification is estimated at ₹2000/-. For continuation of the scheme a plan provision of ₹20.00 crore each has been kept during the F.Y. 2011-12, 2012-13 & 2013-14 respectively. 1773 nos. of Wards/Slums have been electrified till 31<sup>st</sup> March 2014. There is a budget provision of ₹10.00 crore under the scheme during the FY 2014-15.

**Implementation Status:** The District Collectors are the Nodal Officers for implementation of this scheme. At the district level, District Electrical Committee represented by the Government nominated Members, M.P., M.L.A. / Mayor/ Chairperson of the Municipal Corporation/ Municipality / NAC, Superintending Engineer / Executive Engineer (Elec.) in charge of distribution will act as the Monitoring Committee. The work under the scheme will be implemented by the Electrical Contractors who have valid license granted by the ELBO, Odisha duly authorized by the Government to execute electrical works. Where such licensed contractors are not available and no such contractor participates in the tender the Collector may entrust the work to the concerned DISCOM/ OSIC /IDCO on a turnkey basis. All the works executed under the scheme is subject to measurement by the Junior Engineers (Electrical) which will be reflected in the M.B. Book and same will be super checked by the SDO and Executive Engineer of the DISCOMs.

50% of the electrification work will be inspected by Deputy Electrical Inspector, Asst. Electrical Inspector on sample basis. The completion certificate of work will be issued by the concerned Local Bodies which will be communicated to all concerned.

**Project Monitoring Mechanism:** The Government of Odisha in Energy Department regularly monitors the implementation of the scheme by convening the periodical review meetings to evaluate the progress of work. The District Collectors at district level review the progress of work under the scheme. The Executing Agencies entrusted with the work at their administrative level also review the progress of work. The achievement of the scheme is being informed by the district administration to the government in Energy Department. The Hon'ble Chief Minister, Odisha also undertake the review meeting time to time for success of the scheme. The senior officers of the Department make field visit to review the progress of work at field level.

F. No. 44/44/2014-RE  
Ministry of Power  
Govt. of India

Shram Shakti Bhawan, Rafi Marg,  
New Delhi dated 3<sup>rd</sup> December, 2014

**OFFICE MEMORANDUM**

**Subject: "Deendayal Upadhyaya Gram Jyoti Yojana" (DDUGJY)**

Sanction of the President is conveyed for launch/implementation of "Deendayal Upadhyaya Gram Jyoti Yojana" (DDUGJY) with the following components :

- (i) Separation of agriculture and non-agriculture feeders facilitating judicious rostering of supply to agricultural & non- agricultural consumers in the rural areas; and
  - (ii) Strengthening and augmentation of sub-transmission & distribution infrastructure in rural areas, including metering of distribution transformers/feeders/consumers
  - (iii) Rural electrification, as per CCEA approval dated 01.08.2013 for completion of the targets laid down under RGGVY for 12th and 13th Plans by carrying forward the approved outlay for RGGVY to DDUGJY.
2. The components at (i) and (ii) of the above scheme will have an estimated outlay of Rs. 43033 crore including a budgetary support of Rs. 33453 crore from Government of India during the entire implementation period. Details are given in **Annexure-I**.
  3. The scheme of RGGVY as approved by CCEA for continuation in 12th and 13th Plans will get subsumed in this scheme as a separate rural electrification component [component (iii) above] for which CCEA has already approved the scheme cost of Rs. 39275 crore including a budgetary support of Rs. 35447 crore. This outlay will be carried forward to the new scheme of DDUGJY in addition to the outlay indicated in para 2 above.
  4. **Scope of works**  
The scheme will cover works relating to feeder separation, strengthening of sub-transmission & distribution systems including metering of distribution transformers/feeders/consumers and rural electrification. The details are given at **Annexure-II**.

## Status of Rural Electrification in Odisha

### I. Village Electrification (Nos.)

a.	Total inhabited villages (as per Census 2011)	-	47677
b.	Un-electrified Villages as on 31.03.2016	-	2210
c.	Villages electrified during 2016-17 (01.04.2016 to 31.07.2016)	-	177
d.	Balance Un-electrified villages as on 31.07.2016	-	2033
	▪ Villages to be electrified through grid (Awarded-810, yet to be awarded-521)	-	1331
	▪ Villages to be electrified through off-grid (All sanctioned but yet to be awarded)	-	269
	▪ Uninhabited villages	-	433

### II. Household Electrification (Nos. in Lakhs)

a.	Total Rural Households	-	81.44
b.	Balance un-electrified Rural Households(As on 31.03.2015) (as per PFA document)	-	42.78
c.	Subsequent progress of BPL HHs under DDUGJY	-	0.15

### III. DeendayalUpadhyaya Gram JyotiYojana (DDUGJY)(as on 31.07.2016)

#### A. Ongoing RE projects:

Plan	No. of projects	Amount sanctd. (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of Villages (Nos)		Electrification of BPL Households (Nos)		Remarks
				Scope	Achievement	Scope	Achievement	Scope	Achievement	
X	4	419.09	393.80 (94%)	2177	2177 (100%)	3910	3910 (100%)	351718	351718 (100%)	All closed
XI	28	3407.74	2974.23 (87%)	12204	12204 (100%)	22660	22660 (100%)	2404798	2404798 (100%)	23 projects closed
XII	31	3550.47	842.41 (24%)	3144	1346 (41%)	41022	1051 (3%)	1658147	15450 (1%)	4 projects yet to be awarded
DDG XII	7	01.97		6	6 (100%)			43		
<b>Total</b>	<b>70</b>	<b>7379.27</b>	<b>4210.44 (57%)</b>	<b>17531</b>	<b>15733 (90%)</b>	<b>67592</b>	<b>27621 (41%)</b>	<b>4414706</b>	<b>2771966 (63%)</b>	<b>27 project closed</b>

#### B. New projects

- i. **DDUGJY Grid:** 30 projects costing **Rs 1656.51Cr** have been sanctioned under DDUGJY as per detailed below-

Electrification of UEV	:Rs302 Cr	Feedersegregation	:Rs141 Cr
RHHs & System Strengthening	:Rs727.39 Cr	SAGY	:Rs36.85 Cr
Metering	:Rs440.93Cr	PMA charges	:Rs8.24 Cr

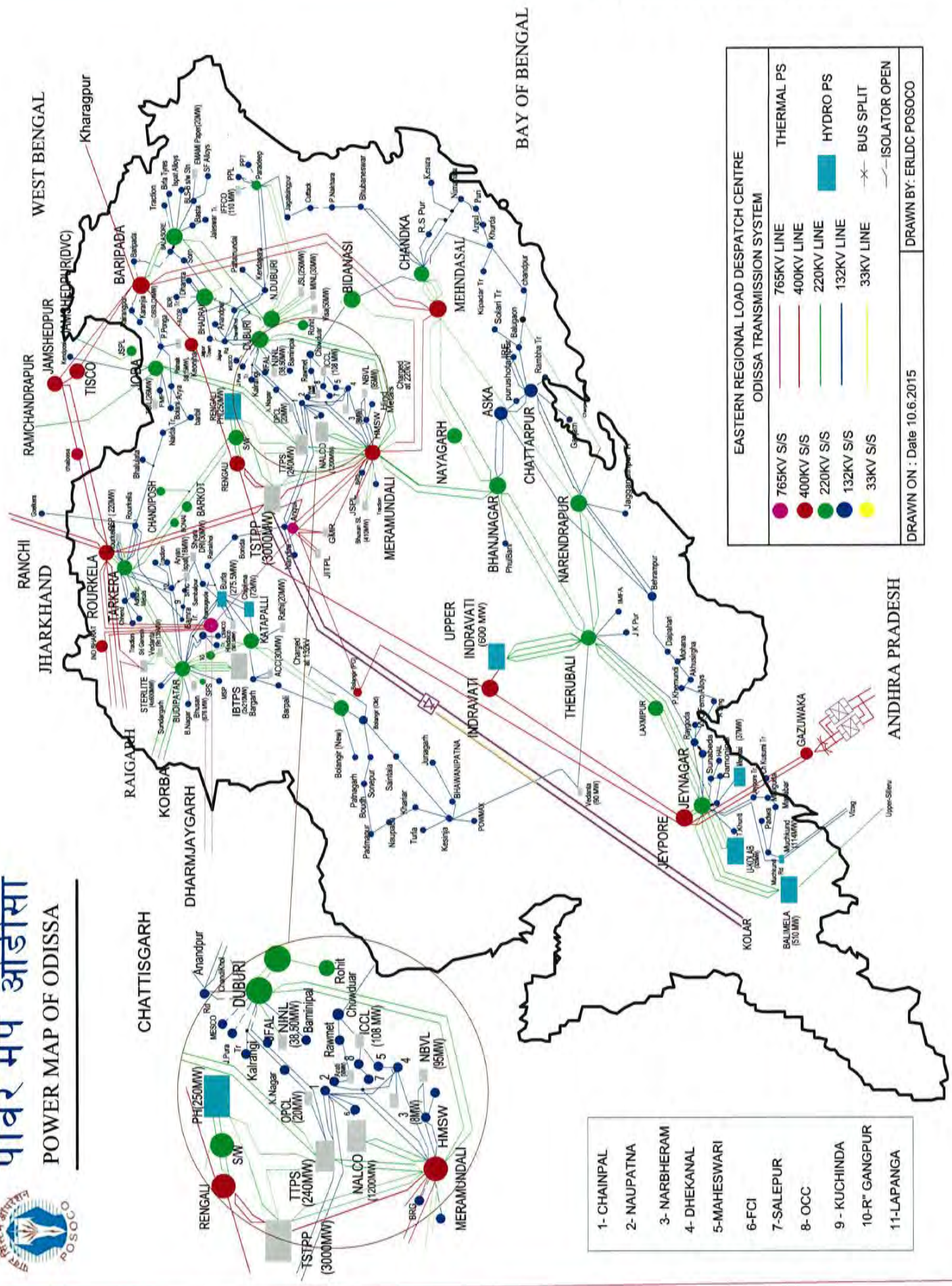
(Physical scope - 521 UE & 35 SAGY villages)

- ii. **DDUGJY Off-Grid:** Projects covering 269 UE villages with a cost of **Rs 95.05 Cr** have been sanctioned.

**Project-wise details of all RE & new DDUGJY projects are enclosed as Annexure-I**

# पावर मैप ओडीसा

## POWER MAP OF ODISHA



**EASTERN REGIONAL LOAD DESPATCH CENTRE  
ODISHA TRANSMISSION SYSTEM**

765KV S/S	765KV LINE	THERMAL PS
400KV S/S	400KV LINE	HYDRO PS
220KV S/S	220KV LINE	BUS SPLIT
132KV S/S	132KV LINE	ISOLATOR OPEN
33KV S/S	33KV LINE	

DRAWN ON : Date 10.6.2015  
DRAWN BY: ERLDC POSOCO

- 1- CHAINPAL
- 2- NAUPATNA
- 3- NARBHERAM
- 4- DHEKANAL
- 5- MAHESWARI
- 6- FCI
- 7- SALEPUR
- 8- OCC
- 9 - KUCHINDA
- 10-R" GANGPUR
- 11-LAPANGA

**ODISHA ELECTRICITY REGULATORY COMMISSION  
BIDYUT NIYAMAK BHAWAN,  
UNIT – VIII, BHUBANESWAR – 751 012  
\*\*\* \*\***

**Present:** Shri S. P. Nanda, Chairperson  
Shri S. P. Swain, Member  
Shri A. K. Das, Member

**CASE NO.54 OF 2015**

Date of Hearing : 05.02.2016  
Date of Order : 21.03.2016

**IN THE MATTER OF:** Application for approval of Aggregate Revenue Requirement (ARR) and determination of Bulk Supply Price (BSP) of GRIDCO Ltd. for the year 2016-17 under Section 86(1) (a) & (b) and other applicable provisions of the Electricity Act, 2003 read with relevant provisions of OERC (Conduct of Business) Regulations, 2004 and other related Rules and Regulations.

**ORDER**

Section 86(1) (b) of the Electricity Act, 2003 requires the Commission to determine the procurement price structure for Distribution Utilities operating in the State of Odisha. Under the existing Bulk Supply Agreements with GRIDCO Ltd. (in short GRIDCO), the Distribution Utilities of Odisha are under obligation to purchase power solely from GRIDCO. In determining the procurement price, the Commission has to hear not only the buyers (Distribution Utilities) but also the seller (GRIDCO Ltd.). No meaningful hearing of GRIDCO is possible unless GRIDCO files its Aggregate Revenue Requirement and expected revenue. The Commission, in its earlier BSP orders, has given enough reasoning with justification for filing of ARR & BSP application by GRIDCO Ltd. The Commission requires to take up the filing of GRIDCO Ltd. into consideration even though GRIDCO Ltd. as a deemed trading licensee under the 5<sup>th</sup> Proviso to Section 14 of the Electricity Act, 2003 (hereinafter referred to as “the Act”) is outside the purview of Section 62 of the said Act. The prices at which GRIDCO Ltd. supplies power to the Distribution Utilities coincides with the procurement price fixed for the Distribution Utilities under Section 86(1)(b) of the Act. For

GOVERNMENT OF ODISHA

ENERGY DEPARTMENT

No....., Bhubaneswar      Dated.....

**RESOLUTION**

**Subject: "Odisha Renewable Energy Policy, 2015-22"**

# Business Standard Appx-4-29 Odisha wants UDAY to be implemented through GIDCO

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## Odisha wants UDAY scheme to be implemented through its power trading firm

med at financial turnaround of the discoms saddled with debt and operational losses

Jayajit Dash | Bhubaneswar  
July 6, 2016 Last Updated at 17:21 IST



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**ALSO READ** Having given its consent to join the central government's UDAY (Ujjwal Discom Assurance Yojana), Odisha has

Beyond Business GO

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**ODISHA ELECTRICITY REGULATORY COMMISSION  
BIDYUT NIYAMAK BHAWAN,  
UNIT – VIII, BHUBANESWAR – 751 012**

\*\*\* \*\*

**Present : Shri S. P Nanda, Chairperson  
Shri S. P. Swain, Member  
Shri A. K. Das, Member**

**CASE NOS. 57, 58, 59 & 60 of 2015**

**DATE OF HEARING : 08.02.2016, 09.02.2016, 10.02.2016 & 11.02.2016**

**DATE OF ORDER: 21.03.2016**

**IN THE MATTER OF: Applications of Distribution Utilities (NESCO Utility, WESCO Utility, SOUTHCO Utility & CESU) for approval of their Aggregate Revenue Requirement (ARR), Wheeling and Retail Supply Tariff for the FY 2016-17 under Sections 62 & 64 and other applied provisions of the Electricity Act, 2003 read with relevant provisions of OERC (Terms and Conditions for determination of Wheeling and Retail Supply Tariff) Regulations, 2014 and OERC (Conduct of Business) Regulations, 2004 and other Tariff related matters.**

**ORDER**

The Distribution Utilities in Odisha namely CESU, NESCO Utility, WESCO Utility and SOUTHCO Utility are carrying out the business of distribution and retail supply of electricity in their licensed areas as detailed below:

**Table – 1**

<b>Sl. No.</b>	<b>Name of DISCOMs</b>	<b>Licensed Areas (Districts)</b>	<b>%age area of the State</b>
1.	CESU	Puri, Khurda, Nayagarh, Cuttack, Denkanal, Jagatsinghpur, Angul, Kendrapara and some part of Jajpur.	18.9
2.	WESCO	Sambalpur, Sundargarh, Bolangir, Bargarh, Deogarh, Nuapara, Kalahandi, Sonepur and Jharsuguda.	32.3
3.	NESCO	Mayurbhanj, Keonjhar, Bhadrak, Balasore and major part of Jajpur.	18.0
4.	SOUTHCO	Ganjam, Gajapati, Kandhamal, Boudh, Rayagada, Koraput, Nawarangpur and Malkanagiri.	30.8
<b>Odisha Total</b>			100.0

The above utilities have submitted their applications to the Commission for determination of Aggregate Revenue Requirement (ARR), Wheeling Tariff and Retail

**GOVERNMENT OF ODISHA  
SCIENCE AND TECHNOLOGY DEPARTMENT**

No....., Bhubaneswar                      Dated.....

**RESOLUTION**

**Subject:       “Odisha Solar Policy- 2013”**

**Preamble**

It has been established that conventional sources of energy like oil, gas, coal etc. will not be able to provide the desired levels of energy security to mankind in foreseeable future. Preparedness being the key to successful governance, the State must prepare itself to combat energy insecurity and continue with its development goals uninterrupted. Such preparedness against energy insecurity largely rests on exploitation of alternate sources of energy besides energy conservation and energy efficiency. Amongst alternative sources of energy, renewables sources like solar, wind, biomass, hydro, tidal, wave, geothermal, ocean thermal etc. have become favourite world across, as use of these resources does not endanger the environment with threats like global warming and climate change.

Global warming is referred to the increase in temperature near the earth's surface. It happens because of the trapping of solar radiation in the earth's atmosphere due to over accumulation of greenhouse gases resulting from human activities such as burning of fossil fuels, industrial emissions etc.

Government of India has announced the National Solar Mission that aims at an installed capacity of 20,000 MW by the end of the 13th Five Year Plan in 2022. The mission has also introduced several enabling mechanism to meet this steep challenge.

Odisha by virtue of its position on the globe has almost all the aforementioned renewable energy resources. Some rough assessments indicate Odisha's gross renewable energy potential as 53,820 MW. With detailed resources assessment studies



# 24 X 7 POWER FOR ALL ODISHA



A Joint Initiative of Government of India and  
Government of Odisha



# The Odisha Gazette

EXTRAORDINARY  
PUBLISHED BY AUTHORITY

No. 1301 CUTTACK, THURSDAY, SEPTEMBER 10, 2015/BHADRA 19, 1937

ODISHA ELECTRICITY REGULATORY COMMISSION  
UNIT - VIII, BHUBANESWAR - 751 012

NOTIFICATION

The 1st August 2015

No. 924—OERC-RA-AMEND.-REGU.-8/2013-Vol.-IV.—In exercise of powers conferred by Sections 61, 66, 86(1)(e) and 181 of the Electricity Act, 2003 (Act 36 of 2003) and all other powers enabling it on that behalf, the Odisha Electricity Regulatory Commission hereby makes the following Regulations for promoting the sale of power from Renewable Energy Sources to any person and for procurement of energy from Renewable Sources by Distribution Licensee (or any entity procuring power on their behalf) within the State of Odisha and compliance thereof :—

**1. Short title, Commencement and Extent :**

- 1.1 These Regulations shall be called "Odisha Electricity Regulatory Commission (Procurement of Energy from Renewable Sources and its Compliance) Regulations, 2015".
- 1.2 These Regulations shall extend to the whole of the State of Odisha
- 1.3 These Regulations shall come into force on the date of publication in the Official Gazette.
- 1.4 OERC (Renewable Purchase Obligation and its Compliance) Regulations, 2010 is hereby repealed.

**2. Definitions and Interpretation :**

- 2.1 In these Regulations, unless the context otherwise requires,—
  - (a) "Act" means the Electricity Act, 2003 (36 of 2003);

<http://www.financialexpress.com/industry/companies/reliance-infras-power-distribution-licences-revoked-in-odisha/50422/>

## Reliance Infra's power distribution licences revoked in Odisha

**The Odisha Electricity Regulatory Commission (OERC) on Wednesday revoked the licences of the three distribution companies...**

Bhubaneswar | Published: March 5, 2015 1:05 AM



The Odisha Electricity Regulatory Commission (OERC) on Wednesday revoked the licences of the three distribution companies — Nesco, Wesco and Southco — managed by Reliance Infrastructure (RInfra), with controlling stakes of 51%, in Odisha.

The OERC, hosting the cancellation order in its official website, said that the licences were cancelled for an unsatisfactory performance and violation of the shareholding agreements by the discoms. The OERC has removed the Reliance Infra-appointed MD/CEOs of the three discoms and appointed the chairman-cum-managing director of Gridco, a state-owned utility company, as the administrators in their place.

“Highly unsatisfactory performance of the licensees in different key areas, such as energy audit, inability to control technical and commercial loss, poor billing efficiency, non payment of arrears with regard to bulk supply price (BSP) and NTPC Bond, failure to create requisite corpus for terminal benefits of employees and non-compliance of various directions of the Commission spelt out in retail supply tariff (RST) orders and during performance reviews”, said the OERC.

The commission said in its order that the discoms have breached the public trust and violated the legal provisions of the Electricity Act by non-incorporation of important clauses of the shareholders agreement in the Articles of Association of the discom when 51% of share in Nesco, Wesco and Southco were divested by Gridco in favour of three of private investors. The discoms have indulged in subsequent transfer of shares to companies that were not group companies; gradual dilution of shares in favour of

### **Small / Mini / Micro Hydro Power Development**

**Objective:** In order to promote hydro potentiality of power sector of the State and to meet the deficit in power supply position, private developers have been encouraged to invest in Small / Mini / Micro Hydro Power Projects in the State. For the purpose, the project areas have been identified in different rivers, canals and tributaries.

**Funds flow arrangement:** The projects will be implemented by the developers by their own initiative and self-fund flow arrangements.

**Implementation Status:** In order to establish Small / Mini / Micro Hydro Power Projects, 36 MOUs have been signed with the developers with an installed capacity of around 484 MW power. Out of 36 projects, 3 nos. of Hydro Electrical projects have been completed supplying 57 MW power to the State.

**Project Monitoring Mechanism:** Since the Government of Odisha have signed MOUs with those developers of Small / Mini / Micro Hydro Power Projects, it reviews the progress of work and also helps in eradicating the bottle-necks the developers face in implementation of the projects.



# POWER FOR ALL

Telangana State

A JOINT INITIATIVE OF



Government of Telangana



सत्यमेव जयते

Government of India

## Status of Rural Electrification in Telangana

### I. Household Electrification (Nos. in Lakhs)

a. Total Rural Households	-	52.49
b. Balance un-electrified Rural Households (As on 31.11.2014) (as per PFA document)	-	7.21
c. Subsequent progress under DDUGJY	-	0.04
d. Balance un-electrified as on 31.05.2016	-	7.17

*(All 7.17 Lakh Rural HHs will be electrified under DDUGJY, 0.013 Lakh HHs already sanctioned under XI & XII Plan)*

### II. Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) (as on 31.05.2016)

#### A. Ongoing RE projects (erstwhile RGGVY)

Plan	No. of projects	Amount sanctioned (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of UE Villages (Nos.)		Electrification of BPL Households (Nos.)		Remarks
				Scope	Achmt	Scope	Achmt	Scope	Achmt	
X	5	202.83	203.85 (101%)	-	-	5681	5681 (100%)	504829	504829 (100%)	All projects closed
XI	5	107.9	100.48 (93%)	-	-	3495	3495 (100%)	204036	204036 (100%)	
DDG XI	39	9.26	3.89 (42%)	-	-	-	-	1275		
<b>Total</b>	<b>49</b>	<b>319.89</b>	<b>308.23</b> (96%)	-	-	<b>9176</b>	<b>9176</b> (100%)	<b>710140</b>	<b>708865</b> (99%)	

#### B. New projects

**DDUGJY Grid:** 9 projects costing **Rs 462.29** Crores have been sanctioned under DDUGJY as per detail below-

System Strengthening & RHHs	:Rs	439.47 Cr	Metering	:Rs	5.16 Cr
SAGY	:Rs	15.36 Cr	PMA charges	:Rs	2.30 Cr

(Physical scope- 14 SAGY villages; the projects are allowed for departmental execution)



**PRESS NOTE**

**23.06.2016**

**Telangana State Electricity Regulatory Commission**

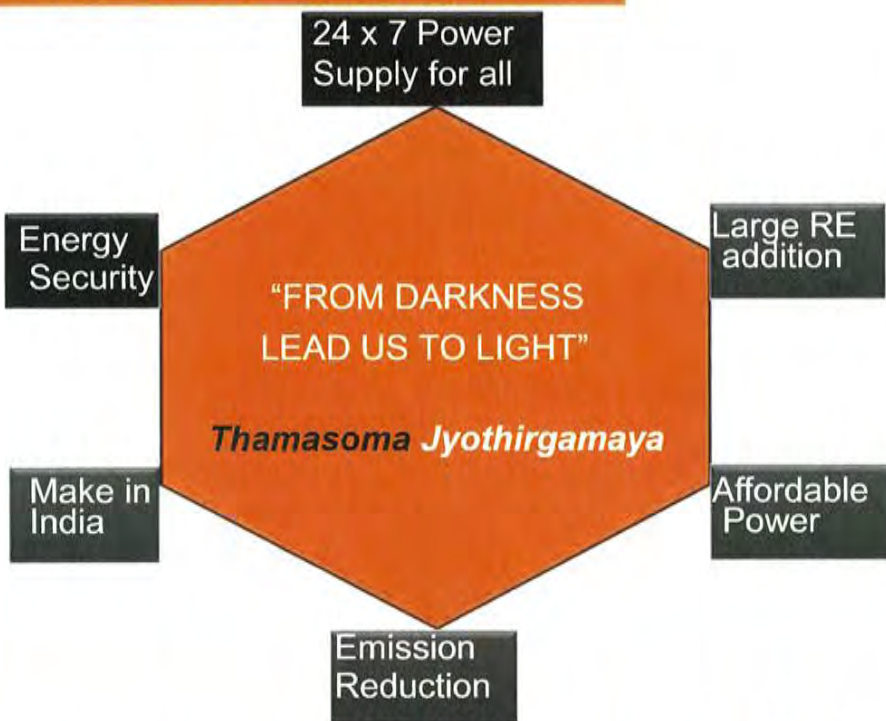
**Salient Features of Tariff Order for Retail Supply Business of TSSPDCL and TSNPDCL for FY 2016-17**

- 1) No tariff increase for Domestic consumers consuming upto 100 units/ month (around 60 lakh consumers).
- 2) No tariff increase for Agriculture consumers (around 20 lakh consumers) except for Horticulture Nurseries upto 15 HP.
- 3) Overall Average increase of 7.5% in tariff.
- 4) Slabs under the Domestic and Non Domestic categories have been merged with a view to simplifying the tariff structure.
- 5) New category for Hair cutting salons under the LT-II Non-Domestic for consumption upto 200 units per month, has been introduced.
- 6) The load restriction of 2kW for Religious places has been removed and a new slab with connected load of above 2kW has been introduced under LT-VII (B) for wholly Religious Places.
- 7) Under LT-III(v), Sheep and Goat Farms have also been included.
- 8) IT Assesseees have also been included in the free category under LT-V Agriculture and Urban Horticulture Nurseries have been included along with Rural Horticulture Nurseries under LT-V Agriculture.
- 9) Optional category (with contract maximum demand up to 150 kVA) has been introduced under HT-1 (A) - Industry at 11kV, to benefit small industries.
- 10) HT-V (B) Hyderabad Metro Rail (HMR) category has been introduced as a sub-category under HT-V Railway traction.
- 11) Time of Day tariff has been introduced to aid in flattening of the day load curve while incentivizing off-peak hour consumption for eligible customers. The new ToD charges introduced are as follows.

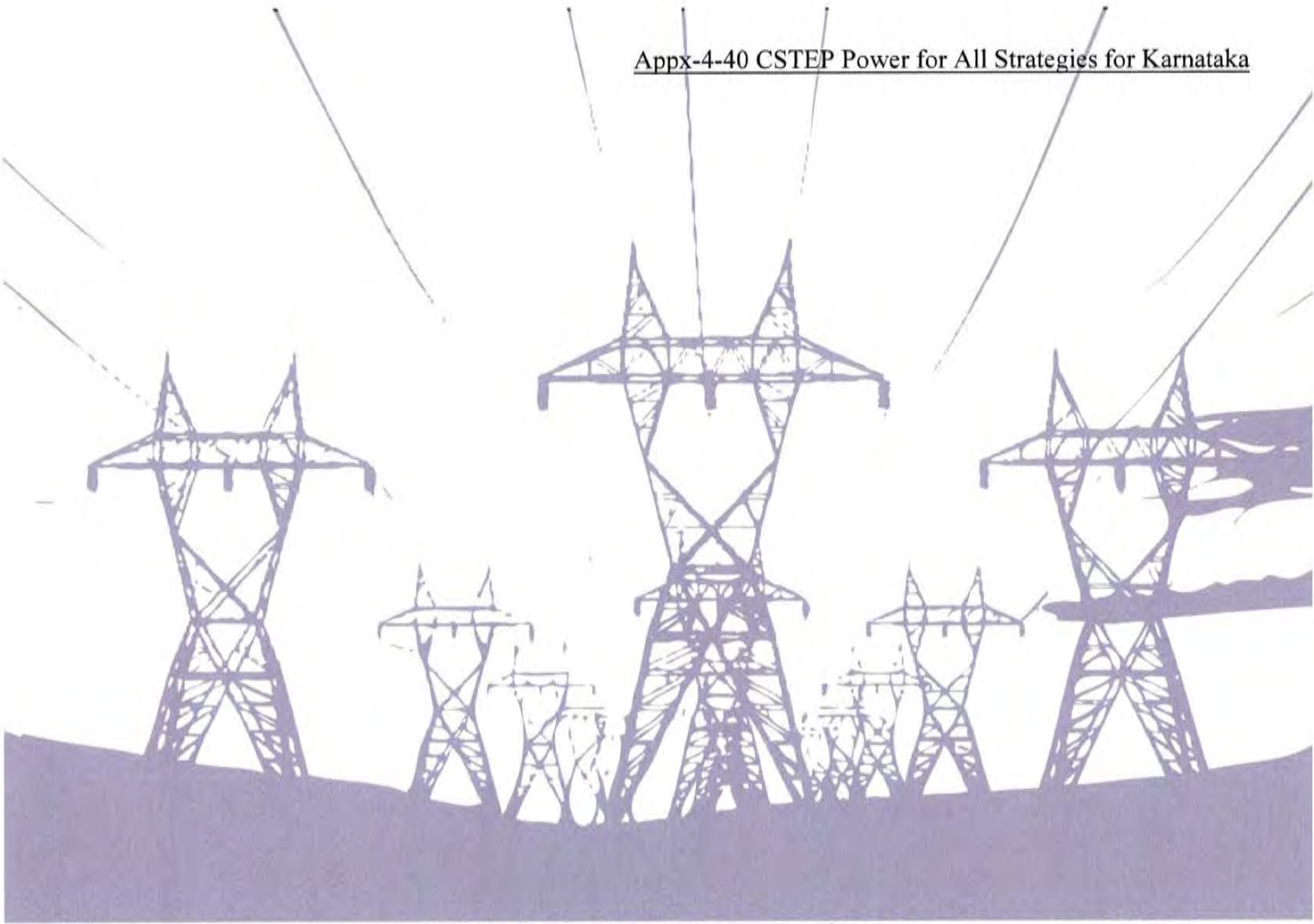
# Injection of Renewable Power on a large scale and its effect on the stability of the Transmission Grid and operational cycle of conventional Thermal Power Plants

Anjuli chandra  
CE RES CEA

## Stated Mission of Ministry of Power



Systemic, system-level view required to manage the pulls and pressures



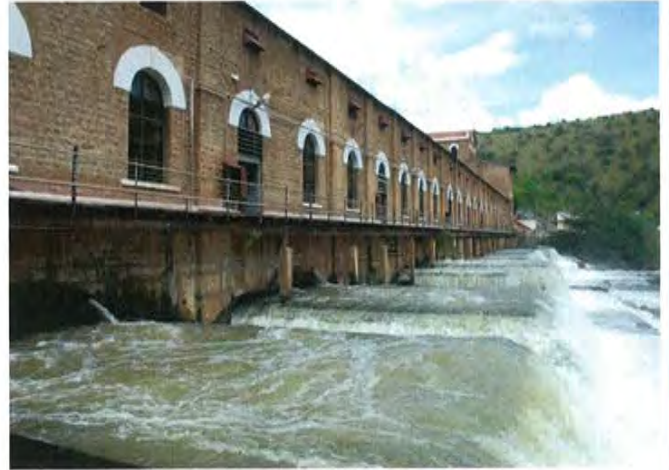
# **24x7 Power for All: Strategies for Karnataka**

March 2016



# 24 X 7 POWER FOR ALL – KARNATAKA

*A Joint Initiative of Government of India and  
Government of Karnataka*



## Status of Rural Electrification in Karnataka

### I. Village Electrification (Nos.)

a. Total inhabited villages (as per Census 2011)	-	27397
b. Un-electrified Villages as on 31.03.2016	-	39
c. Villages electrified during 2016-17 (01.04.2016 to 30.05.2016)	-	NIL
d. Balance Un-electrified villages as on 30.05.2016	-	39
▪ Villages to be electrified through grid	-	Nil
▪ Villages to be electrified through off-grid	-	39
(All sanctioned & out of these 6 are awarded)		

### II. Household Electrification (Nos. in Lakhs)

a. Total Rural Households	-	78.64
b. Balance un-electrified Rural Households (As on 31.03.2015) (as per PFA document)	-	10.16
c. Subsequent progress under DDUGJY	-	0.03
d. Balance un-electrified as on 31.05.2016	-	10.13

*(Out of 10.13 Lakh Rural HHs, 1.43 Lakh HHs already sanctioned under XI & XII Plan)*

### III. Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) (as on 31.05.2016)

#### A. Ongoing RE projects (erstwhile RGGVY)

Plan	No. of project	Amount Sanctd (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of UE Villages (Nos.)		Electrification of BPL Households (Nos.)		Remarks
				Scope	Achmt	Scope	Achmt	Scope	Achmt.	
X	17	563.48	522.79 (93%)	43	43 (100%)	16518	16518 (100%)	632667	632667 (100%)	All project closed
XI	10	440.38	349.14 (79%)	12	12 (100%)	6284	6284 (100%)	267725	260023 (97%)	8 projects closed
XII	9	99.53	22.67 (23%)			9205	1 (0%)	130785	178	All Awarded
DDG(XII)	93	43.22	5.30 (12%)	6				4839		
<b>Total</b>	<b>129</b>	<b>1147</b>	<b>900 (81%)</b>	<b>61</b>	<b>55 (90%)</b>	<b>32007</b>	<b>22803 (71%)</b>	<b>1036016</b>	<b>892868 (86%)</b>	<b>25 projects closed</b>

#### B. New projects

##### i. DDUGJY Grid:

30 projects costing **Rs 1750.15 Crores** have been sanctioned under DDUGJY:

UEV Electrification works	: Rs	2.88 Cr	Feeder segregation	: Rs	753.25 Cr
System Strengthening & RHHs	: Rs	468.43 Cr	SAGY	: Rs	55.21 Cr
Metering	: Rs	461.63 Cr	PMA charges	: Rs	8.71 Cr

(Physical scope- 184 SAGY villages; NIT issued, bids evaluated & award under process). However, District wise DPRs yet to be received from the State.

##### ii. DDUGJY Off Grid :

Projects covering 33 Un-electrified villages with a cost of **Rs 4.75 Crores** have been sanctioned under DDUGJY

**GOVERNMENT OF KARNATAKA**

No EN 21 VSC 2014

Karnataka Government Secretariat,  
Vikasa Soudha,  
Bengaluru, dated: 22.05.2014

**NOTIFICATION**

To harness the potential of Solar resources in the State, Government of Karnataka has published Solar Policy vide GO no EN 61 NCE 2011 dated 01-07-2011 for the period 2011-2016. In light of technological advantages unfolding in the sector and achievements made by Solar forefront States, Government formed a Technical Committee vide G.O. No: EN 61 NCE 2011 Dated: 05.09.2013 for suggesting amendments to the existing Solar Policy 2011-16. With change in technology, Solar power, a green source of Energy is being considered as one of the alternative to augment the current sources. To have Energy security and sustainability, more capacity addition in Solar power, it is felt necessary, for a revision in Solar policy. Taking inputs from various stake holders, the Technical Committee has given its recommendation for revision of Solar policy.

Accordingly Government of Karnataka has decided to revise its Solar policy.

Now therefore the Government of Karnataka revises the existing Solar policy and makes the following policy, namely the Karnataka Solar Policy 2014-2021.

**Solar Policy 2014-2021**

**1. Preamble.**

The Government of India's Jawaharlal Nehru National Solar Mission (JNNSM) launched in January 2010, with the objective of achieving 34152 MW of solar power capacity by 2022 which will be around 3% of the total energy consumption and it is a concentrated effort to tap India's naturally available energy sources and contribute to low carbon sustainable growth in the country, while overcoming its ecological and energy security challenges.

Karnataka is rich in solar resources and solar energy will complement the conventional sources of energy in a large way. The State of Karnataka is blessed with about 240 to 300 sunny days with good solar radiation of 5.4 to 6.2 kWh/m<sup>2</sup>/day. Karnataka was the first southern state to notify its solar policy in 2011 and was the first state to commission utility scale solar project in India.



**KARNATAKA ELECTRICITY REGULATORY COMMISSION**

# **TARIFF ORDER 2016**

OF

# **BESCOM**

**ANNUAL PERFORMANCE REVIEW FOR FY15**

**&**

**ANNUAL REVENUE REQUIREMENT FOR FY17-19**

**&**

**REVISION OF RETAIL SUPPLY  
TARIFF FOR FY17**

**30<sup>th</sup> March 2016**

---

6<sup>th</sup> and 7<sup>th</sup> Floor, Mahalaxmi Chambers  
9/2, M.G. Road, Bengaluru-560 001  
Phone: 080-25320213 / 25320214  
Fax : 080-25320338

Website: [www.karnataka.gov.in/kerc](http://www.karnataka.gov.in/kerc) - E-mail: [kerc-ka@nic.in](mailto:kerc-ka@nic.in)

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# 24X7 POWER FOR ALL

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A JOINT INITIATIVE OF GOVERNMENT OF  
INDIA AND GOVERNMENT OF KERALA



**FEBRUARY 2016**



## Status of Rural Electrification in Kerala

### I. Village Electrification (Nos.)

- a. Total inhabited villages (as per Census 2011) - 1017  
 b. Un-electrified villages as on 31.05.2016 - Nil

### II. Household Electrification (Nos. in Lakhs)

- a. Total Rural Households - 40.95  
 b. Balance un-electrified Rural Households (As on 31.03.2014) - 3.55  
 (as per Draft PFA document)  
 c. Subsequent progress under DDUGJY - 0.37  
 d. Balance un-electrified as on 31.05.2016 - 3.18

*(Out of 3.18 Lakh Rural HHs, 0.007 Lakh Rural Households have been sanctioned under XI & XII Plan)*

### III. DeendayalUpadhyaya Gram JyotiYojana (DDUGJY)(as on 31.05.2016)

#### A. Ongoing RE projects (erstwhile RGGVY)

Plan	No. of projects	Amount sanctioned (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of UE Villages (Nos.)		Electrification of BPL Households (Nos.)		Remarks
				Scope	Achmt	Scope	Achmt	Scope	Achmt	
X	1	33.19	33.19 (100%)	-	-	37	37 (100%)	20715	20715 (100%)	All projects closed
XI	13	182.03	133.07 (70%)	-	-	1050	1050 (100%)	129590	129590 (100%)	All Project closed
DDG XII	15	5.32	-	-	-			730	-	
<b>Total</b>	<b>29</b>	<b>221</b>	<b>166 (75%)</b>	<b>-</b>	<b>-</b>	<b>1087</b>	<b>1087 (100%)</b>	<b>151035</b>	<b>150305 (99%)</b>	

#### B. New projects

##### DDUGJY Grid:

14 projects costing **Rs 485.35Crores** have been sanctioned under DDUGJY:

Metering	Rs 259.16 Cr
RHHs & System Strengthening	Rs 164.66 Cr
SAGY	Rs 59.12 Cr
PMA charges	Rs 2.41 Cr

*(Physical Scope- SAGY- 27 villages; the projects are allowed for departmental execution)*



**KERALA STATE ELECTRICITY REGULATORY COMMISSION**

**ANNUAL REVENUE REQUIREMENTS (ARR),  
EXPECTED REVENUE FROM CHARGES (ERC) AND  
TARIFF ORDER FOR KSEBL - 2014-15**

**Petition OP No.9 of 2014**

**August 14, 2014**



Appx-4-48 suo-motu determination of tariff KSEB-June 2016-22.6.16  
**KERALA STATE ELECTRICITY REGULATORY COMMISSION**

KPFC BHAVANAM, C.V. RAMAN PILLAI ROAD, VELLAYAMBALAM,  
THIRUVANANTHAPURAM, KERALA, PIN 695 010

Phone: 0471 273 5544, FAX 0471 273 5599, Website: [www.erckerala.org](http://www.erckerala.org)  
E-mail: [kserc@erckerala.org](mailto:kserc@erckerala.org)

1007/F&T/ Suo-motu tariff revision/ 2016-17

22-06-2016

**Public Notice**

In exercise of the powers conferred under regulation 23 of Kerala State Electricity Regulatory Commission (Conduct of Business) Regulations, 2003 read with the directions of the Hon'ble APTEL in its judgment dated 11.11.2011 in OP No. 1/2011 as well as Sections 62 and 64 of the Electricity Act, 2003, the Kerala State Electricity Regulatory Commission hereby issues this notice for the purpose of determination of tariff for electricity for the financial year 2016-17 in suo motu proceedings. Suggestions and objections of the consumers and other stakeholders may be forwarded to the Secretary, Kerala State Electricity Regulatory Commission, KPFC Bhavanam, C.V.Raman Pillai Road, Vellayambalam, Thiruvananthapuram-695 010, so as to reach him on or before 22.07.2016. A public hearing will be held at the Court Hall of the Commission at 11 a.m. on 27.07.2016.

1. Section 62 and Section 64 of the Electricity Act-2003, deal with 'determination of tariff' and 'procedure for tariff order' respectively. The Commission has, under Section 61 of the Act, published the Kerala State Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014 (hereafter mentioned as the Tariff Regulations, 2014) vide the notification No. 787/SEA/2011/KSERC dated 14<sup>th</sup> November 2014. As per regulation 11 of the Tariff Regulations, 2014, KSEB Ltd is bound to make, on or before 30.11.2015, an application for determination of tariff relating to 2016-17.
2. The Government of Kerala has issued the First Transfer Scheme and Second Transfer Scheme under Section 131 of the Act re-organizing the erstwhile Kerala State Electricity Board which was constituted under Section 5 of the Electricity (Supply) Act, 1948. As per the First Transfer Scheme issued vide GO (MS) 37/2008/PD dated 25.09.2008 and published as Statutory Rules and Orders (SRO) No 990/2008 in Kerala Gazette Extra Ordinary No.2090 dated 25.09.2008, the assets, liabilities, rights, and interests of the erstwhile KSEB stood transferred to and vested in Government. The Government of Kerala has, thereafter incorporated a Government Company namely, KSEB Ltd, with effect from 14.01.2012. As per the Second Transfer Scheme issued vide GO (P) No. 46/2013/PD dated 31.10.2013 and published as Statutory Rules and Orders (SRO) No 871/2013 in Kerala Gazette Extra Ordinary No.3103 dated 31.10.2013, the assets, liabilities, rights and interests of the erstwhile KSEB which were vested in the Government as per the First Transfer Scheme, were re-vested in the three Strategic Business Units (SBUs) namely, the Strategic Business Unit (Generation), the Strategic Business Unit (Transmission) and the Strategic



Conference on  
**Energy – Economy - Environment**

Chennai 5th September 2014

Theme paper on  
**Power sector: Status, challenges and  
way ahead**



ICRA Management Consulting Services Limited



# **ENERGY DEPARTMENT**

## **POLICY NOTE 2016-2017**

### **DEMAND NO.14**

**Thiru. P.THANGAMANI**  
Minister for Electricity, Prohibition and  
Excise

**STATUS OF RURAL ELECTRIFICATION IN TAMIL NADU**

**I. Status of Rural Electrification**

The State of Tamil Nadu had been declared 100% electrified in 1987. As per 1991 census, all the 15822 inhabited villages have been electrified. Status of Rural electrification, as per CEA data, in Tamil Nadu as on 31.03.2005 is as under:

**a) Village Electrification**

i)	Total No. of inhabited villages (1991 census)	:	15822
ii)	No. of villages reported as electrified	:	15822
iii)	%age of Village Electrification	:	100%
iv)	Villages electrified under REC programme	:	807(5%)

**b) Pumpset Energisation**

i)	Estimated ultimate potential	:	16,62,600
ii)	Pumpsets Energised	:	1854471
iii)	Pumpsets energized under REC programme	:	913471(49%)

**c) Rural Household Electrification (as per 2001 Census)**

i)	Total No. of rural households	:	82,74,790
ii)	Households electrified	:	58,90,371
ii)	%age of electrified rural households	:	71.18%

**2. REC financed programme**

Cumulatively, REC has disbursed Rs. 2717.53 crore as loan assistance to the State of Tamil Nadu up to March, 2005. The cumulative sanction of loan assistance up to 31.3.2005 is Rs. 3918.98 crores.

**3. Kutir Jyoti Programme / Electrification of BPL HH under AREP (RGGVY)**

During 2004-05, no grant was sanctioned for electrification of BPL rural households. A grant amount of Rs. 1.35 crore was drawn by the state for electrification of BPL households during 2004-05. The state has reported electrification of 36486 no. of BPL rural HH during the year 2004-05 (including spillover KJ).



## **Tamil Nadu Electricity Regulatory Commission**

No 19A, Rukmini Lakshmi pathy Salai, Egmore, Chennai - 600 008.

Phone: 044-28411376,

Website: <http://www.tnerc.gov.in>

### **Summary of ARR determination of TANGEDCO for 2014-15**

#### **Introduction**

1. The Tamil Nadu Generation and Distribution Corporation Ltd. (TANGEDCO) had last year filed its application before the Commission for final true-up and approval of Aggregate Revenue Requirement (ARR) for the year 2010-11, provisional true-up and approval of ARR for the year 2011-12, Annual Performance Review (APR) for the year 2012-13 based on estimates and its Multi Year Tariff petition for 2013-14 to 2015-16 along with tariff revision for 2013-14. Based on this petition and after considering views of the State Advisory Committee, public and other stakeholders, Tamil Nadu Electricity Regulatory Commission had passed the Order in which the Aggregate Revenue Requirement for the 2<sup>nd</sup> Control Period i.e. 2013-14 to 2015-16 was determined and revenue gap and tariff determination for 2013-14 was carried out.
2. As per provisions of Section 64 of the Electricity Act 2003, it is incumbent upon the Licensee to make an application to the State Regulatory Commission for determination of tariff in such manner as may be determined by Regulations framed by the Commission. Regulation 5 of the Tamil Nadu Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2005 lays down that licensee is required to file tariff application on or before 30th November each year, with the Commission, the relevant extract is reproduced below :

*“(1) The Distribution / Transmission licensee shall file the Aggregate Revenue Requirement (ARR) on or before 30th November of each year in the format prescribed, containing the details of the expected aggregate revenue that the licensee is permitted to recover at the prevailing tariff and the estimated expenditure.”*

Accordingly TANGEDCO was expected to file a petition for the final true up and approval of ARR for 2011-12, provisional true up for 2012-13, APR for 2013-14 and ARR and Tariff petition for 2014-15 by 30<sup>th</sup> November 2013. However TANGEDCO failed to file the petition before the said deadline.

3. Hon'ble APTEL vide it's judgement dated 11th November, 2011 in the matter OP No. 1 of 2011, has directed the State Commissions as follows :

*“In the event of delay in filing of the ARR, true-up and Annual Performance Review, one month beyond the scheduled date of submission of the petition, the State Commission must initiate suo-motu proceedings for tariff determination in accordance with Section 64 of the Act read with clause 8.1 (7) of the Tariff Policy.”*



# **TAMIL NADU ELECTRICITY REGULATORY COMMISSION**

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## **Comprehensive Tariff Order on SOLAR POWER**

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**Order No 2 of 2016 dated 28- 03-2016**







**TAMIL NADU ELECTRICITY REGULATORY  
COMMISSION**

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**Comprehensive Tariff Order on  
WIND ENERGY**

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Order No 3 of 2016 dated 31 -03- 2016



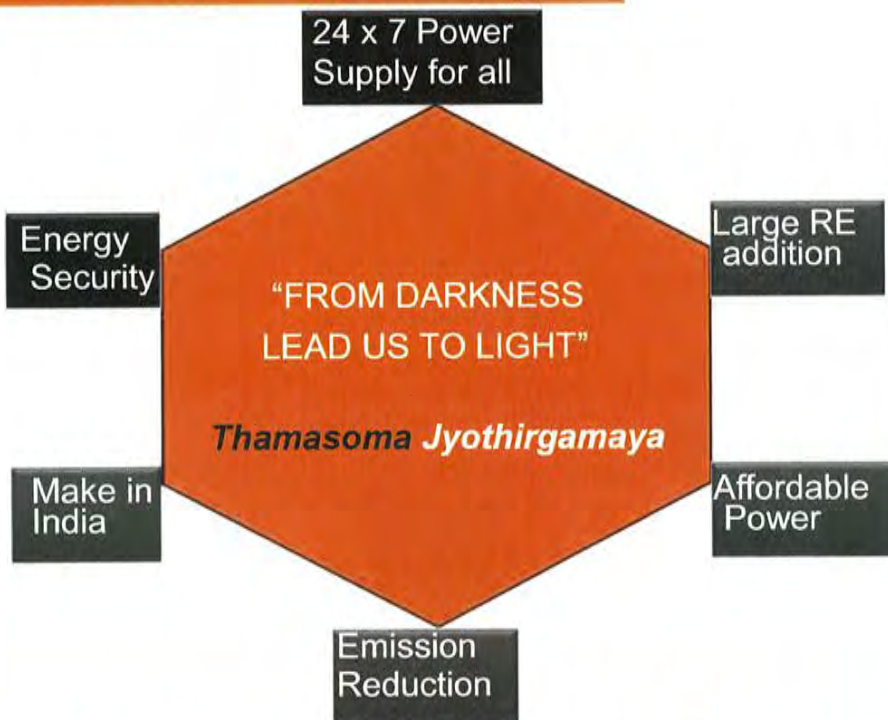
<b>DETAILS OF 400 KV TRANSMISSION LINES UNDER EXECUTIION / TO BE TAKEN UP FOR EXECUTION</b>				
Sl. No.	Name of Transmission Line	Total Length (CKm)	Pogramme for commissioning	Present status
<b>I</b>	<b>400 KV Transmission Line</b>			
1	Erection of 400 KV line on DC tower with twin moose conductor from the proposed Thappakundu SS to Anaikadavu 400 KV SS.	358	2016-17	Works completed.
2	Erection of 400 KV line on DC tower with twin moose conductor from the proposed Rasipalayam SS to Anaikadavu 400 KV SS.	78	2016-17	Works completed.
3	Erection of 400 KV SC line on DC towers with Quad Moose from Tirunelveli SS(Abishekapatty) to the proposed Kanarpatty 400 KV SS	16	2016-17	Works are under progress.
4	Erection of 400 KV DC line on DC towers with twinmoose conductor from sanctioned Kanarpatti 400 KV SS to proposed Kayathar 400 KV SS.	24	2016-17	Works are under progress.
5	Erection of 400 KV DC Line on DC tower with quad Moose conductor from Rasipalayam 400 KV SS to Dharmapuri(Palavady) 400 KV SS	390	2016-17	Works are under progress.
6	Erection of second 400 kv DC line with Quad Moose conductor from Rasipalayam 400 kv SS to Dharmapuri (Palavadi) 400 kv SS	390	2017-18	Works are under progress.
7	Kalivanthapattu 400 KV SS to Sholinganallur(Ottiyampakkam) 400 KV SS	52	2016-17	Works are under progress.
8	400 kv DC line to link Thervaikandigai with Korattur and Manali, NCTPS - Manali and Alamathy - Korattur - (OH portion)	177	2016-17	Works are under progress.
9	LILO of both the circuits of MTPS Stage -III - Arasur line at Karamadai 400 kv SS (4 circuits on MC towers)	160	2016-17	Works are under progress.
10	Erection of 400 KV DC Line on DC tower with Quad Moose conductor from Karaikudi 400 KV (PGCIL ) SS to proposed Kamudhi 400 KV SS	220	2016-17	Works are under progress.
11	LILO of one of 400 kv DC Alamathy - Sunguvarchatram line upto Vellavedu towards Guindy 400 kv SS	16		Tender is under process
12	400 kv SC line on DC towers from Sholinganallur 400 kv SS upro Perumbakkam junction towards Guindy 400 kv SS	40		Tender is under process
13	LILO of one circuit of Thappagundu - Anikadavu line at Udumalpet 400 kv PGCIL SS.	30		Tender is under process

# Injection of Renewable Power on a large scale and its effect on the stability of the Transmission Grid and operational cycle of conventional Thermal Power Plants

Anjuli chandra  
CE RES CEA

Appx-4-56 CEA Injection of Renewable Power

## ted Mission of Ministry of Power



istic, system-level view required to manage the pulls and pressures



पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड  
(पावर ग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कम्पनी)  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
(A wholly owned subsidiary company of Power Grid Corporation of India Limited)



CIN : U40105DL2009GO1188692

पूर्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता - 700 033

दूरभाष : 033 2423 5867/5875, फैक्स : 033 2423 5809/5704/5029, ई-मेल : erldc@posoco.in / www.erldc.org

EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kolkata - 700 033

Tel. : 033 2423 5867/5875, Fax : 033 2423 5809/5704/5029, E-mail : erldc@posoco.in / www.erldc.org

सन्दर्भ: पू. क्षे. भा. प्रे. केन्द्र / एम आई एस/ वार्षिक रिपोर्ट / 2015-16 / 14 26 - 14 51 दिनांक : 28.06.16

सेवा में / To

वितरण सूची के अनुसार / (As per distribution list)

विषय : पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वर्ष 2015-16 की वार्षिक रिपोर्ट

Sub : Annual Grid Report of ERLDC for the year 2015-16

महोदया / महोदय / Madam/ Sir,

कृपया इस पत्र के साथ पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वर्ष 2015-16 की वार्षिक रिपोर्ट संलग्न पायें। यह वार्षिक रिपोर्ट पूर्वी क्षेत्रीय भार प्रेषण केन्द्र की वेब-साईट (www.erldc.org / www.erldc.com) पर भी उपलब्ध है।

Please find enclosed a copy of Annual Report of Eastern Regional Load Despatch Centre for the year 2015-16. The Annual report is also available at the website of ERLDC (www.erldc.org / www.erldc.com) .

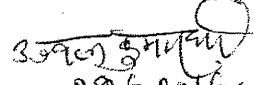
रिपोर्ट पर आपके सुझावों के लिए हम आपके आभारी होंगे।

Your comments/suggestion on the report will be highly appreciated.

सधन्यवाद / Thanking you,

संलग्न : उपरोक्तानुसार / Enclosed as above.

आपका विश्वासी / Yours faithfully,

  
28/6/2016  
(यू के वर्मा) / (U.K. Verma)

महाप्रबंधक / General Manager



पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड  
(पावर गिड की पूर्ण स्वामित्व प्राप्त सहायक कम्पनी)

POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary company of Power Grid Corporation of India Limited)



CIN : U40105DL2009GO1188682

पूर्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गॉल्फ क्लब रोड, टॉलीगुंज, कोलकाता - 700 033

दूरभाष : 033 2423 5867/5875, फैक्स : 033 2423 5809/5704/5029, ई-मेल : erldc@posoco.in / www.erldc.org

EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kolkata - 700 033

Tel. : 033 2423 5867/5875, Fax : 033 2423 5809/5704/5029, E-mail : erldc@posoco.in / www.erldc.org

सन्दर्भ: पू. क्षे. भा. प्रे. केन्द्र / एम आई एस/ मासिक रिपोर्ट / 2015-16 /

दिनांक : 19.04.16

Ref: ERLDC / MIS / Monthly Report / 2015-16/ 334-359

सेवा में / To

सूची के अनुसार / As per distribution list

विषय: माह MARCH'16 की गिड रिपोर्ट

Sub: Monthly Grid Report for the month of MARCH'16

महोदया/ महोदय,

Madam/Sir,

पूर्वी क्षेत्रीय विद्युत प्रणाली से संबंधित माह MARCH-2016 की गिड रिपोर्ट की सी. डी. आपकी सूचनार्थ भेजी जा रही है। यह रिपोर्ट पू. क्षे. भा. प्रे. के. की वेब साइट पर भी उपलब्ध है।

Please find enclosed herewith a CD containing monthly report of Eastern Regional Grid for the month of MARCH-2016. The same report is also available on the ERLDC website [www.erldc.org](http://www.erldc.org). This is for your kind information.

रिपोर्ट की गुणवत्ता को बढ़ाने के लिये आपके सुझाव कृपया हमें प्रेषित किये जाएँ।

Your kind suggestion for the improvement of the report may please be forwarded to us.

धन्यवाद सहित,

संलग्न : उपरोक्त सी डी

Encl: One no. CD

आपका विश्वस्त,

यू.के. वर्मा  
4-04-2016  
(यू के वर्मा) / (U. K. Verma)

महाप्रबंधक/ General Manager

Appx-4-59 Gist of the Tariff Order Dated 10.08.2015 for the Year 2015-16 Issued by the  
West Bengal Electricity Regulatory Commission (Commission)  
**West Bengal State Electricity Distribution Company Ltd.**

(A Government of West Bengal Enterprise)

Vidyut Bhavan, Bidhannagar, Block – DJ, Sector – II, Kolkata – 700 091

**Gist of the Tariff order dated 10.08.2015 for the year 2015-16 issued by the West Bengal Electricity Regulatory Commission ("Commission").**

- 1) Hon'ble Commission has determined the Aggregated Revenue Requirement (ARR) for each year of the fourth control period comprising three years 2014-15, 2015-16 and 2016-17 vide its order dated 04/03/2015 in Case No. TP-61/13-14.
- 2) Based on above referred ARR together with some adjustment in power purchase cost etc. Hon'ble Commission has determined the revised revenue recoverable through tariff by West Bengal State Electricity Distribution Company Limited (WBSEDCL) for the year 2015-16 vide its order dated 10/08/2015 ("Order").
- 3) The applicable tariff structure and other associated conditions of tariff of WBSEDCL for the year 2015-16 as per Order dated 10/08/2015 is available on the website of WBSEDCL at [www.wbsecl.in](http://www.wbsecl.in).
- 4) For any further interpretation / clarification, the order of the Hon'ble Commission dated 10.08.2015 may be referred to and the copy of the order may be obtained from the office of the Commission at FD-415A, Pura Bhavan (3rd Floor), Sector – III, Bidhannagar, Kolkata 700 106, following the procedure laid down in the West Bengal Electricity Regulatory Commission (Conduct of Business) Regulations, 2013 and West Bengal Electricity Regulatory Commission (Fees) Regulations, 2013.
- 5) The gist has been published with the approval of Hon'ble Commission.

*N.B. : However, if any difference from the original tariff order is found anywhere in this gist, due to misprinting or any other reason, the version to be found in the original tariff order would prevail.*

Place:

Name and designation of the signatory

Date:



**Certified true Copy**



**ORDER  
OF THE  
WEST BENGAL ELECTRICITY REGULATORY COMMISSION**

**FOR THE YEAR 2014 – 2015 AND 2015 – 2016**

**IN**

**CASE NO: TP – 57 / 13 - 14**

**IN RE THE TARIFF APPLICATION OF DAMODAR VALLEY  
CORPORATION FOR THE YEARS**

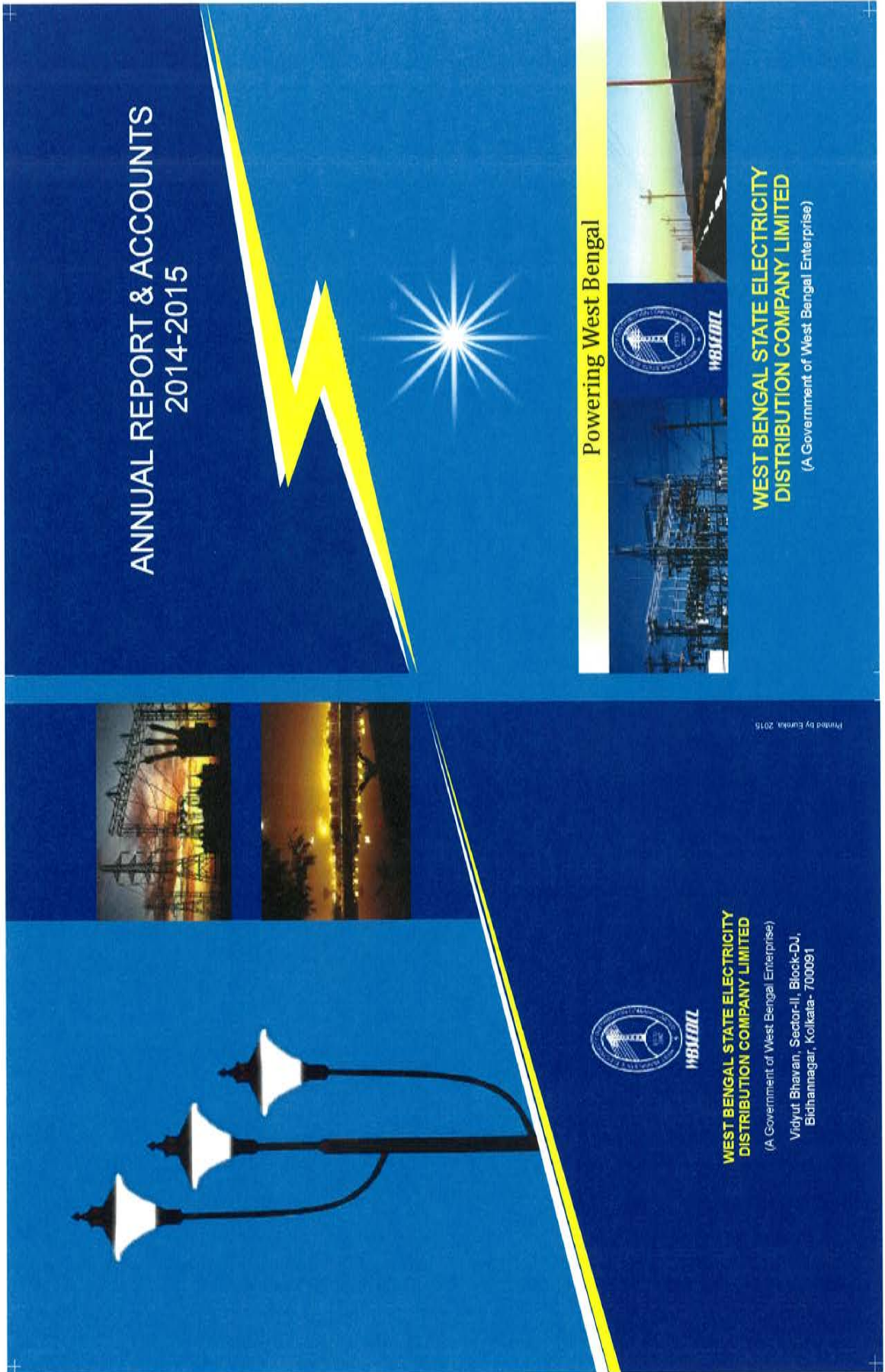
**2014-2015, 2015-2016 and 2016-2017**

**UNDER SECTION 64(3)(a)**

**READ WITH SECTION 62(1) AND SECTION 62(3)**

**OF THE ELECTRICITY ACT, 2003**

**DATE: 25.05.2015**



ANNUAL REPORT & ACCOUNTS  
2014-2015

Powering West Bengal

WEST BENGAL STATE ELECTRICITY  
DISTRIBUTION COMPANY LIMITED  
(A Government of West Bengal Enterprise)



WEST BENGAL STATE ELECTRICITY  
DISTRIBUTION COMPANY LIMITED  
(A Government of West Bengal Enterprise)  
Vidyut Bhawan, Sector-II, Block-DJ,  
Bidhannagar, Kolkata- 700091

Printed by Europa, 2015



A JOINT INITIATIVE OF

Appx-4-62 West Bengal Power for All

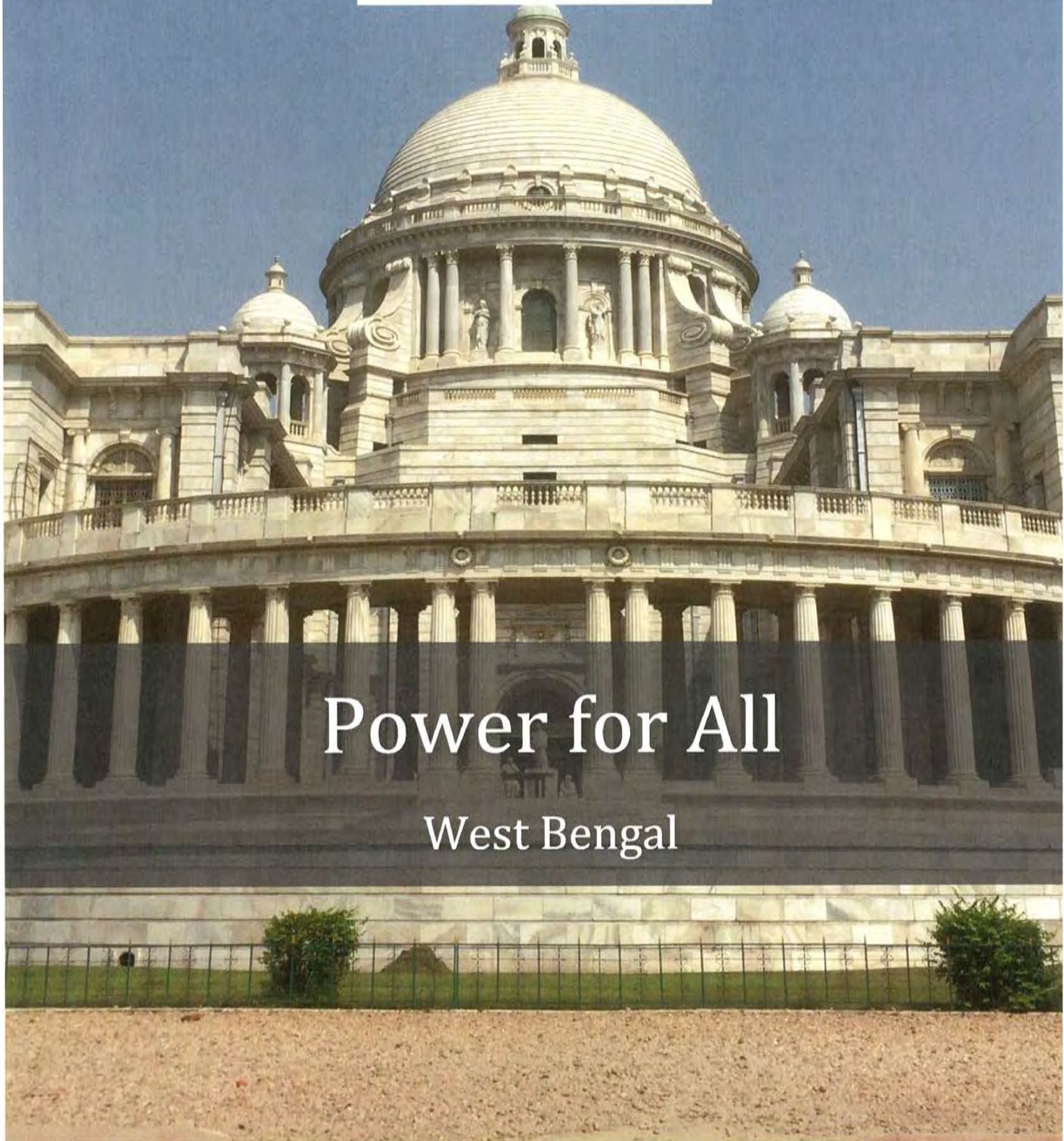


सत्यमेव जयते

Government of India



Government of West Bengal



# Power for All

West Bengal

## Status of Rural Electrification in West Bengal

### I. Village Electrification (Nos.)

a. Total inhabited villages (as per Census 2011)	-	37463
b. Un-electrified Villages as on 31.03.2016	-	14
c. Villages electrified during 2016-17 (01.04.2016 to 31.05.2016)	-	Nil
d. Balance Un-electrified villages as on 31.05.2016 (All villages to be electrified through grid & awarded also)	-	14

### II. Household Electrification (Nos. in Lakhs)

a. Total Rural Households	-	137.17
b. Balance un-electrified Rural Households (As on 31.03.2015) (as per draft PFA document)	-	7.47
c. Subsequent progress under DDUGJY	-	0.11
d. Balance un-electrified as on 31.05.2016	-	7.36

*(Out of 7.36 Lakh Households, 2.57 Lakh Rural Households have already been sanctioned under XI & XII Plan)*

### III. Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) (as on 31.05.2016)

#### A. Ongoing RE projects (erstwhile RGGVY)

Plan	No. of projects	Amount sanctioned (Rs Cr)	Amount disbursed (Rs Cr)	Electrification of UE Villages (Nos.)		Intensive Electrification of UE Villages (Nos.)		Electrification of BPL Households (Nos.)		Remarks
				Scope	Achmt	Scope	Achmt	Scope	Achmt	
X	13	472.01	451.85 (96%)	3922	3922 (100%)			93110	93110 (100%)	All projects closed
XI	16	2415.33	2005.16 (86%)	270	270 (100%)	23929	23671 (100%)	2107927	2084928 (100%)	14 closed, Coochbehar & Purulia pending
XII	7	609.61	167.85 (28%)	4		5628	2932 (52%)	248073	13348 (5%)	
<b>Total</b>	<b>36</b>	<b>3496.95</b>	<b>2625 (75%)</b>	<b>4196</b>	<b>4192 (99%)</b>	<b>29557</b>	<b>26603 (88%)</b>	<b>2449110</b>	<b>2191386 (89%)</b>	<b>27 projects closed</b>

#### B. New projects

**DDUGJY Grid : 19 projects costing Rs 4262.15 Crores** have been sanctioned under DDUGJY as per detail below-

UEV Electrification works	: Rs 46.86 Cr	System Strengthening & RHHs	: Rs 2592.27 Cr
Feeder segregation	: Rs 1159.96 Cr	Metering	: Rs 441.22 Cr
SAGY villages	: Rs 0.60 Cr	PMA charges	: Rs 21.20 Cr

*(Physical scope of 14 UE villages, 0.58 Lakhs Rural HHs; the projects are allowed for departmental execution & Rs 254.45 Cr has been released)*