

**Central Electricity Authority
Operation Performance Monitoring Division**

No.CEA/OPM/PPI/6/1/2012

Dated .07.2013

Subject: Electricity Generation during the month of June'13 and during the period April'13- June'13.

HIGHLIGHTS

All INDIA GENERATION

All India Generation for the month was 76 BU compared to 77 BU last year giving a negative growth of 1.25% and it is 95% of the target. During the period April 2013 to June, 2013, All India Generation was 238 BU compared to 231 BU over the last year giving a growth of 2.84% and it is 101.46% of the target.

THERMAL GENERATION

Thermal Generation for the month was 61 BU compared to 62 BU last year giving a negative growth of 2.40% and it is 92.53% of the target. During the period April 2013 to June, 2013, Thermal Generation was 198 BU compared to 193 BU over the last year giving a growth of 2.88% and it is 99.22% of the target.

NUCLEAR

Nuclear Generation for the month was 2.82 BU compared to 2.75 BU last year giving a growth of 2.84% and it is 112.37% of the target. During the period April, 2013 to June, 2013, Nuclear Generation was 112.37 BU compared to 8.41 BU over the last year giving a negative growth of 9.00% and it is 97.14% of the target.

HYDRO

Hydro Generation for the month was 12 BU compared to 11.38 BU last year giving a growth of 5.44% and it is 106.65% of the target. During the period April, 2013 to June, 2013, Hydro Generation was 31.28 BU compared to 29.50 BU over the last year giving a growth of 6.04% and it is 101.81 %of the target.

BHUTAN IMPORT

Bhutan Import for the month was 0.33 BU compared to 0.49 BU last year giving a negative growth of 33.44% and it is 61.18% of the target. During the period April, 2013 to June, 2013, Bhutan Import was 0.49 BU compared to 0.49 BU over the last year giving a growth of 0.43% and it is 91.95% of the target.

PLANT LOAD FACTOR (PLF)

The Plant Load Factor (PLF) for the month in regard to Thermal is 64.63 and for Nuclear Station it is 82.05 and for Gas 22.51 and for the period from April, 2013 to June, 2013 the PLF is 68.75,73.33,29.38 for Thermal, Nuclear and Gas respectively.

Category-wise Gross Electricity Generation performance:

The category-wise details of electricity generation in the country during June'13 are given below:

Category	Programmed (BU)	Actual Generation* (BU)	% of Program	Actual Generation (June'13)(BU)	Growth (%)
Thermal	65.60	60.70	92.53	62.19	-2.40
Nuclear	2.51	2.82	112.37	2.75	2.84
Hydro	11.25	12.00	106.65	11.38	5.44
Bhutan Import	0.54	0.33	61.18	0.49	-33.44
Total	79.89	75.85	94.94	76.80	-1.25

The category-wise details of electricity generation in the country during April'13-June'13 are given below:

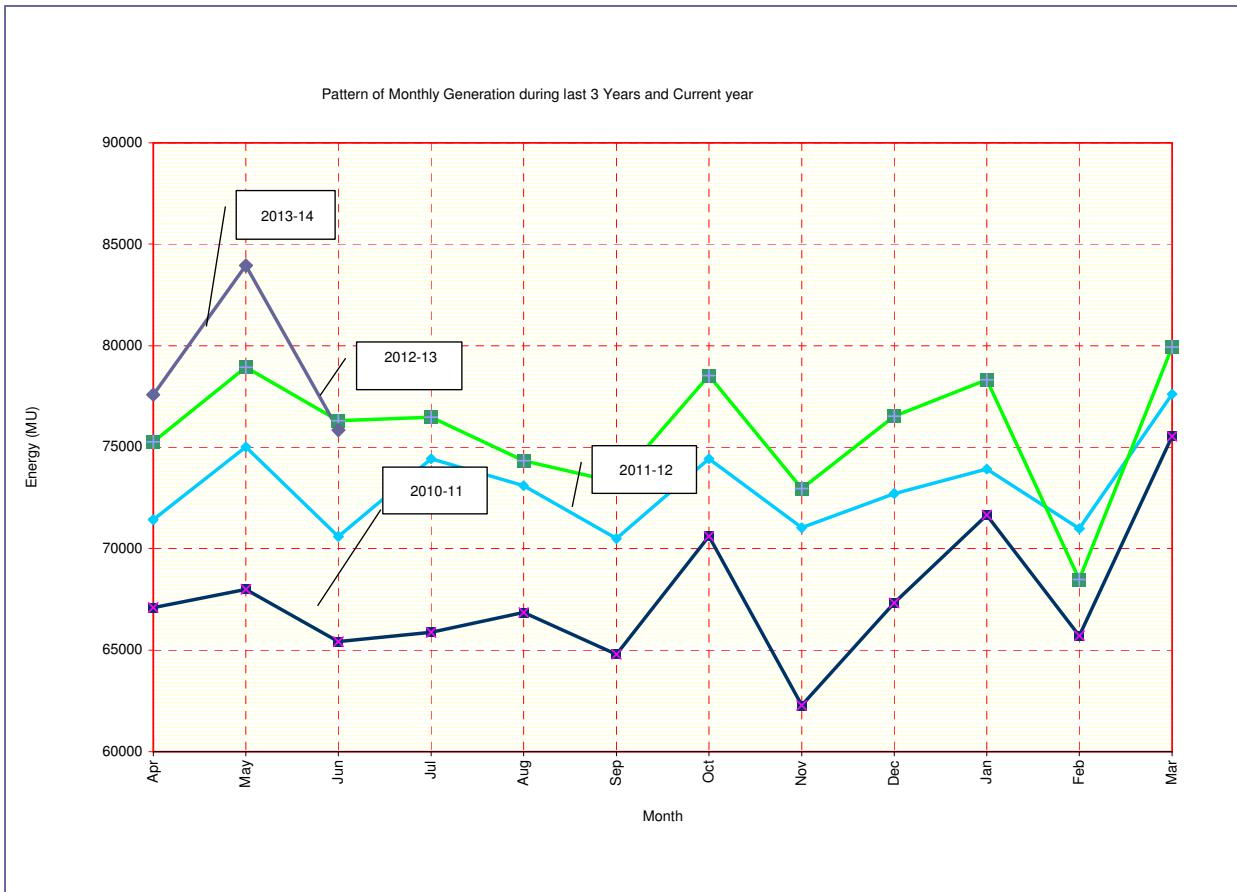
Category	Program (BU)	Actual Generation* (BU)	% of Program	Actual Generation same period Last year (BU)	Growth (%)
Thermal	199.75	198.19	99.22	192.65	2.88
Nuclear	7.88	7.65	97.14	8.41	-9.00
Hydro	30.72	31.28	101.81	29.50	6.04
Bhutan Import	1.02	0.94	91.95	0.94	-0.43
Total	239.37	238.07	99.46	231.50	2.84

Category wise Plant load factor of Plants

Type	Fuel	June'13	April'13-June'13
Thermal Stations	Coal/Lignite	64.63	68.75
Nuclear Station	Nuclear	82.05	73.33
Gas Station	Gas(includes gas, Liquid fuels, diesel)	22.51	29.38

Month wise Generation performance in the country during the period April'13-June'13 for last 3years:

The pattern of monthly energy generation in the country during the last 3 years and during the current financial year is graphically represented below:-



Thermal Generation performance:

Region wise performance

Region wise details of thermal generation during June'13 and April'13 - June'13 are as follows:-

Region	Thermal Generation performance in June'13		Thermal Generation performance during Apr'13-June'13	
	% of Programme	% of last year's actual	% of Programme	% of last year's actual
Northern	85.73	93.71	93.92	101.92
Western	91.29	96.54	100.01	103.76
Southern	101.39	97.70	107.85	103.47
Eastern	95.57	105.15	95.49	101.49
North Eastern	92.44	99.43	107.05	110.35
Total (All India)	92.53	97.60	99.22	102.88

Fuel-wise performance

The fuel-wise details of thermal generation for the month of June'13 are given below:-

Particulars	Programme (BU)	Actual Generation* (BU)	Excess(+)/Shortfall(-) (BU)	Generation Last Year (BU)	Growth (%)	PLF (%) June'13	PLF (%) June'12
Coal	59.01	54.51	-4.50	52.78	2.93	64.28	72.00
Lignite	2.76	2.82	0.06	2.69	4.86	73.08	77.50
Gas Turbine (gas)	3.59	3.23	-0.36	6.26	-48.40	22.51	50.91
Gas Turbine (liquid fuel)	0.08	0.02	-0.06	0.02	37.34		
Diesel	0.16	0.12	-0.04	0.16	-27		
Total (Thermal)	65.60	60.70	-4.90	62.19	-2.4	64.63	72.21

* Provisional figures

The fuel-wise details of the cumulative thermal generation for the period from April'13 to June'13 are given below:

Particulars	Programme (BU)	Actual * Generation (MU)	Excess(+)/Shortfall(-) BU	Generation Last Year (MU)	Growth (%)	PLF (%)	
						this year	last year
Coal	180.03	175.69	-4.35	162.89	7.74	68.40	73.76
Lignite	8.39	9.01	0.63	8.24	9.32	77.00	78.33
Gas Turbine (gas)	10.61	12.43	1.82	20.52	-39.42	29.38	52.83
Gas Turbine (liquid fuel)	0.23	0.44	0.21	0.14	214.72		
Diesel	0.49	0.63	0.13	0.57	8.74		
Total (Thermal)	199.75	198.19	-1.55	192.36	2.84	68.75	73.93

* Provisional figures

Loss of generation due to various constraints and subsequently reasons for low PLF during the period April 2013-June'2013 are furnished in following table:

Sl. No.	Category	Energy loss in the Period of April- April'13(BU)*
Shortfall in Generation - Reasons		
1	Shortage of coal	2.27
2	Wet/poor coal quality	0.22
3	Backing down/shut down (Low schedule)	6.8
4	Transmission constraints	0.06
5	Gas shortage	24.14
Total Loss of thermal generation on a/c of above reasons(BU)		33.4

*Provisional Figure

A statement indicating the thermal generating stations suffering shortfall in generation exceeding 100 MU during the period April- June'13 along with the reasons thereof is attached at **Annex-I**.

Availability of Coal: During the current financial year 2013.14, the anticipated gap between the requirement and availability of domestic coal was estimated around 70 MT. To meet the shortage of 46 MT of coal was to be met through import of coal, for which all the utilities have been advised to take necessary action. In addition to this 24 MT of coal would be needed to operate power plants designed on imported coal. The status of import of coal by various utilities (as on the last day of June'13) is given in **Annex-II**.

During the month of June 2013 only 82 % of the total requirement of coal was available. The thermal power stations received about 34.5 MT of coal against the demand of 43.1 MT. On 30.06.2013, 12 TPS had critical coal stock i.e. less than 7 days. Out of these 6 TPS were having coal stock of less than 4 days.

Best Performing Power Plants: During the month of June'13, 17 numbers of coal / Lignite based TPS with an aggregate installed capacity of 13915 MW achieved PLF more than 90%. The list is enclosed at **Annex-III**.

Gas based Generation

- Region-wise average PLF of gas based power plants is given below:

June'13

Region	June'13		June'12	
	Generation (BU) *	PLF (%)	Generation (BU)	PLF (%)
Northern	1.14	33.17	1.88	58.95
Western	1.06	16.37	2.68	45.14
Southern	0.70	19.71	1.47	41.24
Eastern	0.00	0.00	0.00	0.00
North Eastern	0.35	41.41	0.35	60.55
All India	3.25	22.51	6.38	47.63

Region	April'13_June'13		April'12_June'12	
	Generation (BU) *	PLF (%)	Generation (BU)	PLF (%)
Northern	3.72	35.60	5.52	57.14
Western	4.99	25.41	8.82	48.92
Southern	2.97	27.41	5.34	49.39
Eastern	0.00	0.00	0.00	0.00
North Eastern	1.20	47.18	1.09	62.15
All India	12.87	29.38	20.76	51.12

Nuclear Generation

Plant wise performances of nuclear generation during June'13 are as under:

Stations	Capacity (MW)	Nuclear Generation performance in June'13		PLF %	PLF %
		% of programme	% Growth		
KAIGA	880	116.78	123.73	92.16	74.48
KAKRAPARA	440	101.89	93.37	86.84	93.01
MADRAS A.P.S.	440	48.48	51.14	38.26	74.81
NARORA A.P.S.	440	94.35	111.59	74.45	66.72
RAJASTHAN A.P.S.	1180	145.95	127.61	90.53	70.95
TARAPUR	1400	117.13	90.35	83.20	92.08
TOTAL NUCLEAR	4780	112.37	102.84	82.05	79.79

Following are the details for plant wise performance of nuclear generation during April'13 to June'13:

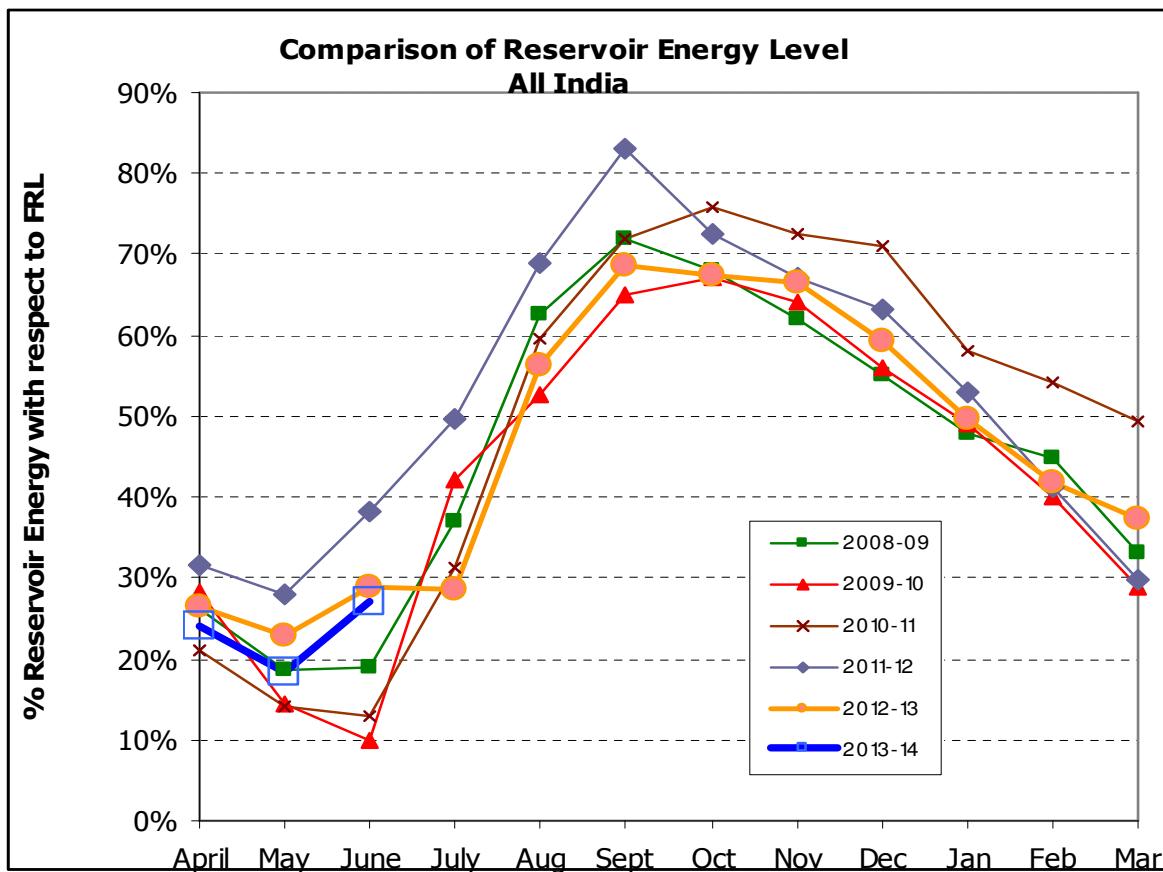
Stations	Capacity (MW)	Nuclear Generation performance in April'13 - June'13		PLF %	
		% of programme	% Growth	April'13 - June '13	April'12- June '12
KAIGA	880	111.75	117.22	87.91	75
KAKRAPARA	440	111.72	96.73	95.1	98.31
MADRAS A.P.S.	440	48.62	55.28	38.25	69.19
NARORA A.P.S.	440	87.78	111.86	69.06	61.74
RAJASTHAN A.P.S.	1180	123.43	116.2	89.61	77.12
TARAPUR	1400	78.95	61.53	55.95	90.93
TOTAL NUCLEAR	4780	97.14	91	73.33	80.58

Hydro Generation

- Region wise hydro generation performance:-

Region	Hydro Generation performance in June '13		Hydro Generation performance during April'13- June "13	
	% of Programme	% of last year's actual	% of Programme	% of last year's actual
Northern	102.26	101.71	102.00	104.53
Western	164.83	117.92	135.85	110.94
Southern	92.29	85.44	78.45	80.81
Eastern	118.94	178.26	113.78	187.15
North Eastern	105.11	110.24	107.11	128.44
Total (All India)	106.65	105.44	101.81	106.04

- Reservoir levels:** The storage position of the 31 major reservoirs in the country is regularly monitored in CEA. These reservoirs feed hydroelectric stations having total installed generating capacity of 18,273 MW which constitute about 46 % of the hydro capacity in the country.
- The storage position of these reservoirs as compared to that obtained during the previous four years is shown graphically below:



- During 2012-13, share of energy generation from these reservoir based plants was 45.35 % in terms of total annual hydroelectric energy generation in the country. The reservoirs positions in the five regions of the country are summarized below:-

Region	No. of schemes	Energy Content at FRL (BU)	Energy Content on 30.06.2013		Energy Content Last Year on the same day 30.06.2012		% variation in energy content with respect to same day last year
			(BU)	% of Energy at FRL	(BU)	% of Energy at FRL	
Northern	7	6.01	2.00	33%	2.17	36%	-8%
Western	6	8.42	2.50	30%	4.15	49%	-40%
Southern	12	15.81	4.37	28%	2.79	18%	57%
Eastern	5	3.30	0.73	22%	0.42	13%	74%
North Eastern	1	0.25	0.25	100%	0.25	100%	0%
Total (All India)	31	34	9.85	29%	9.77	29%	1%

- The storage positions of each of 31 reservoirs in the country and corresponding energy content as on 30.06.2013 along with the comparison of the same with the last day of March'11 are given at **Annex-IV & V**.

Statement of Shortfall in generation (more than 100 MU) vis-a vis targets of Coal/Lignite power plants during April-June'13

Station	Organisation	Capacity (MW)	Program (MU)	Actual (MU)	Shortfall (MU)	Reasons
AKRIMOTA LIG TPS	GMDCL	250	360	121.81	238.19	Lignite feeding problem/Vintage units
ANPARA C TPS	LAPPL	1200	1820	1534.33	285.67	Coal Shortage
BAKRESWAR TPS	WBPDC	1050	2065	1826.46	238.54	RSD/BTL
BANDEL TPS	WBPDC	450	605	440.53	164.47	RSD
BELLARY TPS	KPCL	1000	1770	1461.63	308.37	Fire in cable gallery
BHUSAWAL TPS	MAHAGENCO	1470	1960	1360.04	599.96	Misc. Force Outage
BINA TPS	BPSCL	500	464	262.54	201.46	RSD
BOKARO `B` TPS	DVC	630	845	620.89	224.11	Uneconomical Operation & Tube Leakage
CHANDRAPUR(MAHARASHTRA) STPS	MAHAGENCO	2340	4270	3494.05	775.95	Boiler inspection/ recertification/ BTL
CHANDRAPURA(DVC) TPS	DVC	1250	1331	1225.3	105.70	Water wall tube leakage/ Uneconomical operation
D.P.L. TPS	DPL	690	742	571.2	170.80	Misc. Problem
DSPM TPS	CSPGCL	500	980	503.7	476.30	LSD
FARAKKA STPS	NTPC Ltd.	2100	3172	2949.59	222.41	Misc. Force Outage & Coal Shortage
GANDHI NAGAR TPS	GSECL	870	994	771.24	222.76	RSD
GND TPS(BHATINDA)	PSPCL	440	609	450.37	158.63	RSD
HARDUAGANJ TPS	UPRVUNL	720	888	627.11	260.89	Misc. Force Outage
INDIRA GANDHI STPP	APCPL	1500	1725	1169.94	555.06	RSD
KAHALGAON TPS	NTPC Ltd.	2340	3738	3212.97	525.03	Coal shortage/feeding Problem
KAKATIYA TPS	APGENCO	500	983	872.98	110.02	Water wall tube leakage
KHAPARKHEDA TPS	MAHAGENCO	1340	1990	1852.06	137.94	water wall tube leakage/ Furnace draft abnormal
KOLAGHAT TPS	WBPDC	1260	1857	1641.08	215.92	RSD & Furnace Draft Abnormal
MAHATMA GANDHI TPS	JhPL(HR)	1320	1892	759.67	1132.33	LSD
MAITHON RB TPP	MPL	1050	1856	1712.63	143.37	PG Test, Water wall tube leakage
MAUDA TPS	NTPC Ltd.	1000	546	0	546.00	Non stabilised
MUZAFFARPUR TPS	K.B.U.N.L	220	124	0	124.00	R&M
PANIPAT TPS	HPGCL	1360	2362	1667.61	694.39	RSD/STL
PARLI TPS	MAHAGENCO	1170	1062	0	1062.00	Misc. Force Outage
PATHADI TPP	LANCO	600	900	558.73	341.27	LSD/Misc.
RAICHUR TPS	KPCL	1720	2768	2606.23	161.77	Misc. Force Outages
RAJIV GANDHI TPS	HPGCL	1200	1297	1027.37	269.63	unscheduled/AOH
ROPAR TPS	PSPCL	1260	2285	2088.86	196.14	RSD
SAGARDIGHI TPS	WBPDC	600	1180	666.55	513.45	RSD
SATPURA TPS	MPPGCL	1330	1577	1241.47	335.53	Misc. Force Outages

Station	Organisation	Capacity (MW)	Program (MU)	Actual (MU)	Shortfall (MU)	Reasons
SIPAT STPS	NTPC Ltd.	2980	5306	4440.42	865.58	Coal handling problem
SURATGARH TPS	RRVUNL	1500	2615	2413.92	201.08	Turbine vibration high
TALCHER STPS	NTPC Ltd.	3000	5607	4760.95	846.05	Coal shortage
TROMBAY TPS	TATA PCL	1400	2205	1879.41	325.59	RSD
UKAI TPS	GSECL	1350	1493	1204.04	288.96	Misc. Force Outages
WANAKBORI TPS	GSECL	1470	2429	1679.36	749.64	RSD
WARDHA WARORA TPP	WPCL	540	936	774.42	161.58	ID Fan/ RSD

Annex-II

IMPORT OF COAL DURING THE YEAR 2013-14

Sl.No.	Board/Utility	Annual Target of Imported Coal	Receipt at TPPs during April - May 13	Receipt at TPPs during June 2013	Available at Port	Total	Fig in MT	
							Prorata Receipt %	Prorata Target
1	2	3	4	5	6=(3+4+5)	7		
POWER PLANTS DESIGNED ON INDIGENEOUS COAL								
1	HPGCL	1.500	0.251	0.040	0.000	0.291	78	0.38
2	RVUNL	2.000	0.154	0.057	0.000	0.211	42	0.50
3	UPRVUNL	0.500	0.000	0.000	0.000	0.000	0	0.13
4	MPGCL	2.000	0.109	0.037	0.000	0.146	29	0.50
5	Torrent AEC	0.500	0.041	0.084	0.000	0.125	100	0.13
6	GSECL	1.500	0.032	0.008	0.029	0.069	18	0.38
7	MAHA GENCO	3.500	0.733	0.122	0.000	0.855	98	0.88
8	Reliance	0.600	0.160	0.055	0.000	0.215	143	0.15
9	AP GENCO	2.500	0.310	0.044	0.000	0.354	57	0.63
10	TNEB	2.400	0.899	0.507	0.000	1.406	234	0.60
11	KPCL	1.500	0.196	0.103	0.000	0.299	80	0.38
12	DVC	3.000	0.507	0.248	0.000	0.755	101	0.75
13	CESC	0.400	0.074	0.000	0.000	0.074	74	0.10
14	WBDCL	1.000	0.003	0.000	0.000	0.003	1	0.25
15	NTPC	16.600	2.107	1.999	0.848	4.954	119	4.15
16	NTPC(JV)IndGandhi	2.000	0.150	0.075	0.000	0.225	45	0.50
17	Reliance ROSA	1.500	0.079	0.231	0.000	0.310	83	0.38
18	TATA(MAITHONRB)	0.500	0.000	0.000	0.000	0.000	0	0.13
19	CLP	1.700	0.488	0.313	0.000	0.801	188	0.43
20	LANCO(Anpara)	1.500	0.107	0.030	0.000	0.137	37	0.38
21	CSEB	0.300	0.000	0.000	0.000	0.000	0	0.08
22	J P BINA	0.500	0.008	0.001	0.000	0.009	7	0.13
23	VEDANTA(Star.)	0.500	0.160	0.069	0.000	0.229	183	0.13
24	NTPC(JV) VELLUR	1.000	0.101	0.055	0.000	0.156	62	0.25
25	ADANI(Tirora)	1.000	0.096	0.135	0.000	0.231	92	0.25
	Emco Energy	0.000	0.018	0.013	0.000	0.031		0.00
	NTPC SAIL	0.000	0.054	0.054	0.000	0.108		0.00
	Sub Total	50.000	6.837	4.280	0.877	11.994	96	12.50
POWER PLANTS DESIGNED ON IMPORTED COAL								
26	TROMBAY	2.300	0.508	0.209	0.000	0.717	125	0.58
27	JSW ENERGY	6.600	1.269	0.443	0.000	1.712	104	1.65
28	ADANI POWER	9.000	2.187	0.887	0.000	3.074	137	2.25
29	UDUPPI	2.400	0.712	0.404	0.000	1.116	186	0.60
30	MUNDRA UMPP	7.200	2.443	0.811	0.000	3.254	181	1.80
31	ESSAR SALAYA	2.400	0.688	0.210	0.000	0.898	150	0.60
32	SIMAPURI	0.600	0.246	0.144	0.000	0.390	260	0.15
33	THAMNA PATNAM	0.300	0.132	0.050	0.000	0.182	243	0.08
34	KAWAI*	1.200	0.000					0.30
	Sub Total	32.000	8.185	3.158	0.000	11.343	142	8.00
	TOTAL	82.000	15.022	7.438	0.877	23.337	114	20.50

* Presently using Imported Coal as linkage yet to be granted.

**List of Thermal (Coal/ Lignite based) Stations with PLF more than 90%
during June'2013**

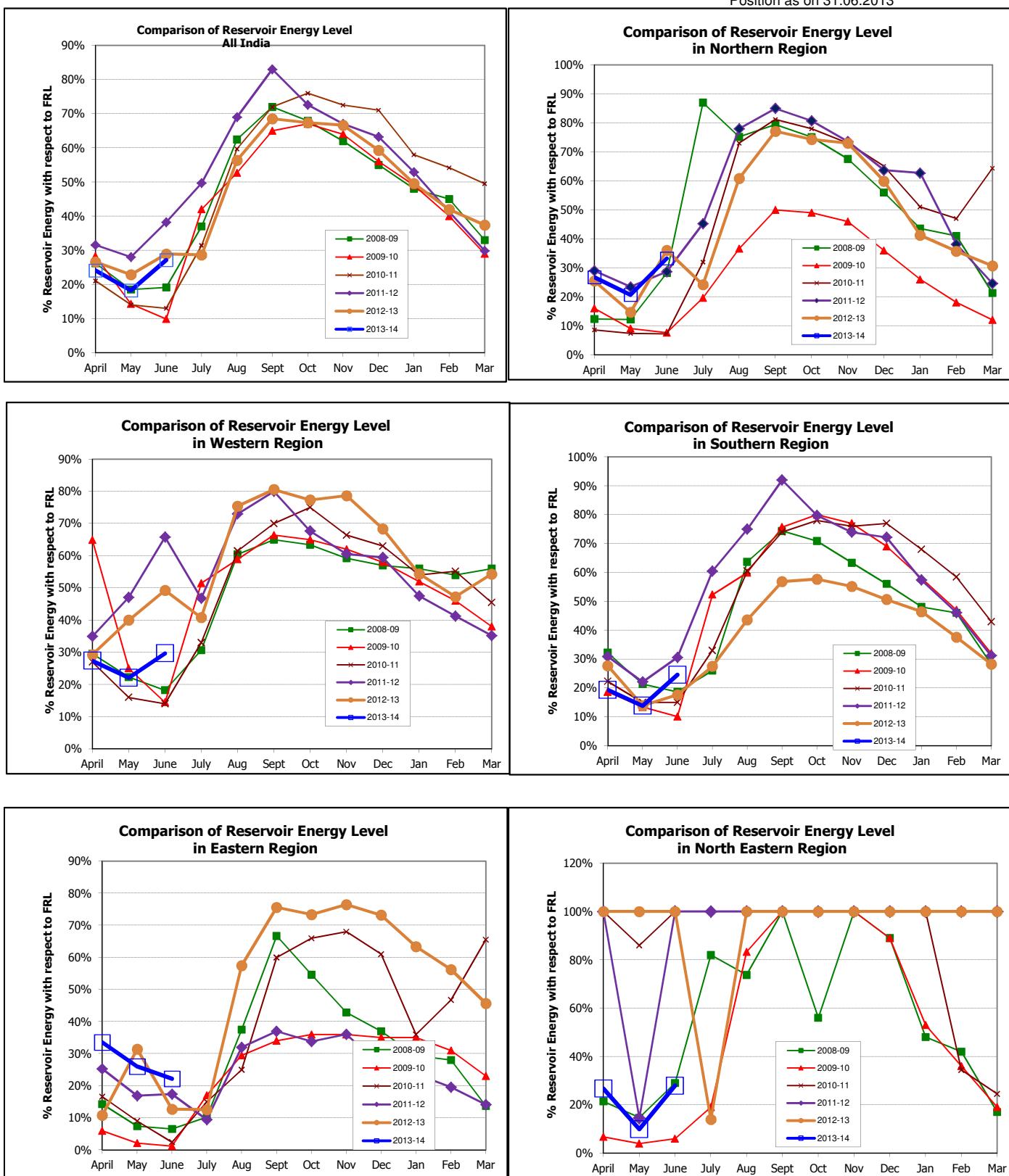
Sl.No	Station	Installed Cap.(MW)	Sector	PLF (%)
1	BUDGE BUDGE TPS	750	PVT	96.9
2	DAHANU TPS	500	PVT	99.13
3	KOTA TPS	1240	STATE	90.24
4	METTUR TPS	1440	STATE	90.6
5	NEYVELI (EXT) TPS	420	CENTRAL	100.39
6	NEYVELI TPS(Z)	250	PVT	97.65
7	NEYVELI TPS-II	1470	CENTRAL	93.76
8	OP JINDAL TPS	1000	PVT	100.45
9	RAMAGUNDEM STPS	2600	CENTRAL	91.5
10	RAYALASEEMA TPS	1050	STATE	91.28
11	SOUTHERN REPL. TPS	135	PVT	99.05
12	TALCHER (OLD) TPS	470	CENTRAL	91.97
13	TANDA TPS	440	CENTRAL	91.76
14	TITAGARH TPS	240	PVT	92.36
15	TORANGALLU TPS(SBU-I)	260	PVT	100.59
16	TORANGALLU TPS(SBU-II)	600	PVT	103.72
17	TUTICORIN TPS	1050	STATE	94.5
		13915		

Storage Position of Major Reservoirs based Hydroelectric Projects in the Country as on 30-Jun-2013

Sl No.	Reservoir	STATE	Installed Capacity	Full Reservoir Level	Minimum Draw Down Level	Effective Capacity	Annual design energy potential	Energy content at F.R.L.	Present reservoir Level	Reservoir level on the same day last year	Energy content at present level	Energy content on the same day last year	% Energy content w.r.t. content at FRL on the last day of the month	% Energy content w.r.t. content at FRL on the same day last year
													(%)	(%)
Northern Region														
1	Bhakra	PUNJAB	1325	513.59	445.62	4604.97	5282	1728.8	489.91	467.77	756.08	238.42	43.73%	13.79%
2	Pong	PUNJAB	396	426.72	384.05	3974.43	1123	1084	405.21	393.7	307.98	95.14	28.41%	8.78%
3	Ranjit Sagar	PUNJAB	600	527.91	487.91	1196.16	1507	390.3	513.03	527.91	249.85	388.33	64.01%	99.50%
4	R.P. Sagar	RAJASTHAN	172	352.81	343.81	1326.7	459	175.66	348.75	349.68	84.51	103.2	48.11%	58.75%
5	Rihand	UTTAR PRADESH	300	268.22	252.98	1740.66	920	860.5	254.66	268.22	63.12	860.18	7.34%	99.96%
6	Ram Ganga	UTTARAKHAND	198	366	323	757.09	164	480.8	345.65	366	158.49	480.81	32.96%	100.00%
7	Tehri	UTTARAKHAND	1000	829.79	740.04	1287.37	3090	1291.49	780.80	740.04	378.02	0.26	29.27%	0.02%
Total (N Region)			3991				12545	6011.55			1998.05	2166.34	33.24%	36.04%
Western Region														
8	Sardar Sarovar	GUJARAT	1450	138.68	110.84	519.57	5469	1817.55	114.85	113.44	120.46	81.28	6.63%	4.47%
9	Ukai	GUJARAT	305	105.16	82.3	1063.08	1080	813.08	96.05	91.63	330.68	193.54	40.67%	23.80%
10	Gandhi Sagar	MADHYA PRADESH	115	399.9	381	925.11	420.48	725	392.17	386.90	274.75	103.5	37.90%	14.28%
11	Indira Sagar	MADHYA PRADESH	1000	262.14	243.24	281.34	2628	1316.12	246.50	244.04	104.89	23.46	7.97%	1.78%
12	Bhira	MAHARASHTRA	150	606.03	590.09	429.43	790	618.8	594.99	606.03	156.65	617.58	25.32%	99.80%
13	Koyna	MAHARASHTRA	1960	657.91	609.6	1511.6	3523	3126.1	642.09	657.91	1509.6	3125.97	48.29%	100.00%
Total (W Region)			4980				13910.48	8416.65			2497.03	4145.33	29.67%	49.25%
Southern Region														
14	Machkund	ANDHRA PRADESH	114.75	838.2	813.39	346.2	670	551.6	826.01	827.14	111.69	136.43	20.25%	24.73%
15	Nagarjun Sagar	ANDHRA PRADESH	810	179.83	150.88	2287.43	2237	1398.13	158.44	155.78	252.8	158.67	18.08%	11.35%
16	Srisailam	ANDHRA PRADESH	1670	269.75	243.84	265.99	4300	1391.84	247.22	269.75	69.72	1391.85	5.01%	100.00%
17	Almatti	KARNATAKA	290	519.62	505.97	1442.58	483	175.35	513.50	506.03	37.22	0.62	21.23%	0.35%
18	Kalindi Supa	KARNATAKA	1220	563.88	513.52	19168.68	542	2885	528.11	515.42	481.51	48.23	16.69%	1.67%
19	Sharavathy	KARNATAKA	1006.2	554.43	522.73	1329.83	5564	4557.03	538.58	532.38	1074.46	468.42	23.58%	10.28%
20	Idamalayar	KERALA	75	169	114.99	308.85	380	254.45	147.89	128.69	116.75	32.4	45.88%	12.73%
21	Idukki	KERALA	780	732.35	694.94	283.18	2398	2146.32	712.85	701.63	787.64	249.48	36.70%	11.62%
22	Sabrigiri	KERALA	300	981.46	908.3	265.07	1338	764	960.77	928.04	320.13	57.07	41.90%	7.47%
23	Kundah Group	TAMIL NADU	555				1315	1270		180.33	564.23	180.33	44.43%	14.20%
24	Mettur	TAMIL NADU	240	240.79	211.23	410.53	790	204	215.37	228.16	7.84	64.89	3.84%	31.81%
25	Periyar	TAMIL NADU	140	46.33	33.53	80.27	409	216	38.06	33.56	59.48	0.42	27.54%	0.19%
Total (S Region)			7200.95				20426	15813.72			3883.47	2788.81	24.56%	17.64%
Eastern Region														
26	Balimela	ORISSA	510	462.08	438.91	149.23	1183	897.75	450.71	441.05	343.81	50.94	38.30%	5.67%
27	Hirakud	ORISSA	331.5	192.02	179.83	1316.28	1174	372.28	181.61	186.45	20.01	122.51	5.37%	32.91%
28	Indravati	ORISSA	600	641.84	625	130.67	1962	1213.13	632.81	629.35	222.22	125.76	18.32%	10.37%
29	Rengali	ORISSA	250	123.44	109.72	1565.1	525	275	109.79	116.48	0.2	88.61	0.07%	32.22%
30	Upper Kolab	ORISSA	320	857.78	843.78	84.09	832	540	849.90	845.01	144.71	31.19	26.80%	5.78%
Total(2011.5				5676	3298.16			730.95	419.01	22.16%	12.70%
North Eastern Region														
31	Loktak	MANIPUR	90	768.5	766.01		450	250	767.57	768.5	69.78	250.02	27.91%	100.01%
Total (NE Region)			90				450	250			69.78	250.02	27.91%	100.01%
Total (All India)			18273.45				53007.48	33790.08			9179.28	9769.51	27.17%	28.91%

Energy Content in major Hydro Reservoirs as percent of Energy Content at Full Reservoir Level (FRL)

Position as on 31.06.2013



Based on the water storage position of 31 major reservoirs in the country as monitored in CEA.
 Monthly data refers to position on the last day of the particular month.