

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिक की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.06.2013
Date of Reporting : 29.06.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
39056	2315	41371	49.85	37087	416	37503	50.26	912.1	29.28

* Half hourly (two 15 minutes block—one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	48.00	18.79		66.79	123.49	123.50	0.01	190.29	9.75
Haryana	60.13	0.49		60.62	102.64	101.51	-1.14	162.12	0.00
Rajasthan	80.06	0.00	35.37	115.44	58.41	49.56	-8.85	165.00	0.00
Delhi	29.56			29.56	75.14	72.50	-2.65	102.06	0.46
UP	98.99	2.68	3.60	105.26	101.50	98.84	-2.66	204.11	16.29
Uttarakhand		10.50		10.50	19.84	20.53	0.70	31.04	1.08
HP		23.77		23.77	2.68	0.50	-2.18	24.27	0.00
J & K		13.39	0.00	13.39	14.24	14.45	0.21	27.83	1.70
Chandigarh				0.00	5.99	5.39	-0.60	5.39	0.00
Total	316.74	69.61	38.97	425.33	503.93	486.78	-17.15	912.11	29.28

* Shortage furnished by the respective constituent. \$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	8522	400	130	1703	7804	400	11	1907	44.22	
Haryana	7320	0	-354	1130	6519	0	-346	1117	24.86	
Rajasthan	6288	0	-696	-84	6952	0	-363	301	4.82	
Delhi	4491	0	88	-393	3834	16	-380	-35	0.42	
UP	8383	1760	-297	143	8595	0	-281	603	7.12	
Uttarakhand	1506	55	140	355	1313	0	124	271	7.19	
HP	1002	0	-178	-901	911	0	-108	-1056	-22.44	
J&K	1299	100	17	-314	970	0	-44	-459	-8.93	
Chandigarh	246	0	-36	0	188	0	-44	0	0.07	
Total	39056	2315	-1186	1638	37087	416	-1431	2650	57.32	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI	
									Net MU	
A. NTPC	Singrauli STPS	2000	1935	2089	2032	43.16	1798	42.82	0.34	
	Rihand I STPS	1000	490	502	390	9.55	398	10.04	-0.49	
	Rihand II STPS	1000	955	976	915	19.02	792	19.02	0.00	
	Rihand III STPS	500	480	445	404	8.97	374	9.35	-0.38	
	Dadri I STPS	840	807	876	612	15.72	655	15.90	-0.17	
	Dadri II STPS	980	880	502	712	16.33	680	17.30	-0.97	
	Unchahar I TPS	420	394	300	308	6.59	275	7.51	-0.92	
	Unchahar II TPS	420	201	184	156	3.53	147	3.68	-0.15	
	Unchahar III TPS	210	172	164	153	2.93	122	3.08	-0.15	
	ISTPP (Jhajhar)	1500	1410	940	656	15.17	632	15.44	-0.27	
	Dadri GPS	830	804	491	444	11.15	465	11.22	-0.07	
	Anta GPS	419	398	254	240	5.74	239	5.87	-0.13	
	Auraiya GPS	663	627	298	306	6.80	284	6.86	-0.06	
	Sub Total (A)	10782	9552	8021	7328	164.66	6861	168.08	-3.42	
	B. NPC	NAPS	440	295	328	347	7.17	299	7.08	0.09
		RAPS- B	440	388	429	436	9.34	389	9.31	0.03
RAPS- C		440	400	458	467	9.90	413	9.60	0.30	
Sub Total (B)		1320	1083	1215	1250	26.42	1101	25.99	0.43	
C. NHPC	Chamera I HPS	540	540	540	540	13.00	542	12.96	0.04	
	Chamera II HPS	300	306	306	304	7.31	305	7.36	-0.05	
	Chamera III HPS	231	231	239	230	5.52	230	5.53	-0.02	
	Bairasuil HPS	180	179	179	120	2.39	100	2.50	-0.11	
	Salal-HPS	690	620	560	660	14.79	616	14.87	-0.08	
	Tanakpur-HPS	94	82	90	68	1.84	77	1.94	-0.10	
	Uri-HPS	480	463	469	462	11.15	465	10.97	0.18	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasi-HPS	390	387	406	404	9.29	387	9.31	-0.01	
	Sewa-II HPS	120	119	126	0	1.01	42	0.99	0.03	
Sub Total (C)	3305	2926	2915	2788	66.31	2763	66.43	-0.12		
D. NJPC	Natpaa Jhakri	1500	1541	1612	1477	36.33	1514	36.40	-0.07	
	Sub Total (D)	1500	1541	1612	1477	36.33	1514	36.40	-0.07	
E. THDC	Tehri HPS	1000	785	580	301	16.83	701	16.94	-0.11	
	Sub Total (E)	1400	1170	964	591	23.76	990	24.14	-0.38	
F. BBMB	Bhakra HPS	1480	1174	1151	1259	28.35	1181	28.17	0.18	
	Dehar HPS	990	585	825	610	14.42	601	14.04	0.38	
	Pong HPS	396	131	310	0	3.34	139	3.14	0.20	
	Sub Total (F)	2866	1889	2286	1869	46.11	1921	45.35	0.76	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	200	5.09	212	5.29	-0.21	
	KWHEP HPS(IPP)	1000	0	1080	991	24.57	1024	25.55	-0.98	
	Malana Stg-II HPS	100	0	108	110	2.49	104	2.26	0.23	
	Shree Cement TPS	300	0	266	254	6.26	261	6.37	-0.11	
	Budhil HPS(IPP)	70	0	70	69	1.65	69	1.46	0.19	
Sub Total (G)	1662	0	1754	1654	40.06	1669	40.93	-0.88		
H. Total Regional Entities (A-G)	22836	18161	18767	16957	403.64	16818	407.32	-3.68		

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	1256	1060	25.92	1080
	Guru Nanak Dev TPS(Bhatinda)	440	195	180	3.76	157
	Guru Hargobind Singh TPS(L.mbt)	920	899	690	18.32	763
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2350	1930	48.00	2000
	Total Hydro	1148	885	672	18.79	783
	Total Punjab	3768	3235	2602	66.79	2783
Haryana	Panipat TPS	1367	635	666	15.73	655
	DCRTPP (Yamuna nagar)	600	280	253	6.17	257
	Faridabad GPS (NTPC)	432	161	181	4.08	170
	RGTPP (khedar) (IPP)	1200	1047	922	23.11	963
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	454	438	11.03	460
	Thermal (Total)	4944	2577	2460	60.13	2505
	Total Hydro	62	21	20	0.49	20
	Total Haryana	5006	2598	2480	60.62	2526
	Rajasthan	kota TPS	1240	608	661	15.01
suratgarh TPS		1500	936	942	22.50	938
Chabra TPS		500	191	91	3.95	165
Dholpur GPS		330	121	136	2.92	121
Ramgarh GPS		111	39	68	1.32	55
RAPS A (NPC)		300	179	179	4.26	178
Barsingar (NLC)		250	152	183	3.76	157
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	636	828	16.00	667
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	498	91	10.35	431
Thermal (Total)		6956	3360	3179	80.06	3336
Total Hydro		550	0	0	0.00	0
Wind power		2191	1528	1507	33.04	1376
Biomass		91	27	27	0.64	27
Solar		201	0	0	1.70	71
Renewable/Others (Total)		2483	1555	1534	35.37	1474
Total Rajasthan		9989	4915	4713	115.44	4810
UP		Anpara TPS	1630	1052	1169	27.40
	Obra TPS	1288	517	525	11.30	471
	Paricha TPS	1140	635	705	13.30	554
	Panki TPS	210	144	160	3.20	133
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	290	169	5.38	224
	Roza TPS (IPP)	1200	846	828	20.27	845
	Anpara-C (IPP)	1200	517	366	10.88	453
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	294	315	7.26	303
	Thermal (Total)	8223	4295	4237	98.99	4125
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	146	146	2.68	112
	Cogeneration	981	150	150	3.60	150
	Total UP	10131	4591	4533	105.26	4386
Uttarakhand	Total Hydro	1303	513	395	10.50	438
	Total Uttarakhand	1303	513	395	10.50	438
Delhi	Rajghat TPS	135	88	86	2.33	97
	Delhi Gas Turbine	282	79	199	3.21	134
	Pragati Gas Turbine	330	288	260	6.99	291
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	198	200	5.00	208
	Badarpur TPS (NTPC)	705	555	595	12.03	501
	Thermal (Total)	2232	1208	1340	29.56	1232
	Total Delhi	2232	1208	1340	29.56	1232
HP	Baspa HPS (IPP)	330	331	331	7.89	329
	Malana HPS (IPP)	86	94	98	2.00	83
	Other Hydro	589	581	582	13.88	578
	Total HP	1005	1006	1011	23.77	990
J & K	Baglihar HPS (IPP)	450	471	432	10.43	435
	Other Hydro	323	110	128	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	581	560	13.39	558
Total State Control Area Generation		34390	18647	17634	425.33	17722
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3816	3718	94.44	3935
Total Regional Availability(Gross)		57226	41230	38309	923.41	38475

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9195	8056	204.65	8527
State Control Area Hydro	5368	3152	2804	69.61	2900
Total Regional Hydro	15731	12347	10860	274.26	11428

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-200	200	300	300	1.92	1.82	0.10
Gwalior-Agra (D/C)	1482	967	1560	0	28.85	0.00	28.85
Zerda-Kankroli	-159	-199	0	311	0.00	4.98	-4.98
Zerda-Bhinmal	-174	-223	0	339	0.00	4.94	-4.94
Malanpur-Auraiya	-70	-70	0	83	0.00	1.23	-1.23
Badod-Kota/Morak	-22	-24	0	57	0.00	0.67	-0.67
Mundra-Mohindergarh(HVDC)	1448	1251	1449	0	31.41	0.00	31.41
Sub Total WR	2305	1902			62.18	13.64	48.54
Pusauli Bypass	-292	-194	0	352	0.00	5.00	-5.00
MZP- GKP (D/C)	612	822	954	0	19.29	0.00	19.29
Patna-Balia(D/C)	460	505	585	0	11.66	0.00	11.66
B'Sharif-Balia (D/C)	228	262	445	0	7.51	0.00	7.51
Pusauli-Balia	-32	-21	36	40	0.00	0.48	-0.48
Gaya-Fatehpur (765 Kv)	104	62	214	0	2.99	0.00	2.99
Pusauli-Sahupuri	122	158	162	0	3.23	0.00	3.23
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	347	262	398	0	7.57	0.00	7.57
Sub Total ER	1511	1816			52.26	6.37	45.90
Total IR Exch	3816	3718			114.44	20.00	94.44

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
39.83	3.92	43.74	3.84	15.95	-0.65	1.98	1.17	-1.16

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
48.10	64.29	112.39	45.90	48.54	94.44	-2.21	-15.74	-17.95

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.60	69.50	1.90	68.90	80.60	30.50

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.51	8.07	49.67	19.56	50.12	0.35	0.14	50.52	49.79

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	421	04:57	405	00:03	0.0	0.0	0.5	0.0
Gorakhpur	400	425	04:11	407	00:00	0.0	0.0	29.1	0.0
Bareilly	400	422	04:01	358	11:11	0.1	0.1	0.6	0.0
Kanpur	400	428	04:01	403	23:06	0.0	0.0	33.4	0.0
Dadri	400	416	06:55	398	23:11	0.0	0.0	0.0	0.0
Ballabgarh	400	428	04:01	403	23:07	0.0	0.0	23.0	0.0
Bawana	400	422	04:02	400	23:07	0.0	0.0	2.4	0.0
Bassi	400	428	04:00	404	23:08	0.0	0.0	14.8	0.0
Hissar	400	409	04:01	390	23:24	0.0	0.0	0.0	0.0
Moga	400	415	04:43	400	14:26	0.0	0.0	0.0	0.0
Abdullapur	400	416	04:01	399	23:09	0.0	0.0	0.0	0.0
Nalagarh	400	415	04:04	400	14:23	0.0	0.0	0.0	0.0
Kishenpur	400	418	04:06	405	19:48	0.0	0.0	0.0	0.0
Wagoora	400	416	04:02	400	19:52	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	807	04:02	744	23:12	0.0	0.0	14.2	0.0
Balia	765	766	04:42	735	23:09	0.0	12.7	0.0	0.0
Moga	765	795	04:02	762	23:19	0.0	0.0	0.0	0.0
Agra	765	821	04:02	765	23:09	0.0	0.0	26.2	0.0
Bhiwani	765	797	04:01	756	23:11	0.0	0.0	0.0	0.0
Unnao	765	773	04:41	734	23:08	0.0	9.7	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	489.91	729.18	467.66	230.40	2132.44	903.11
Pong	426.72	384.05	404.00	312.39	394.57	121.45	1149.27	201.33
Tehri	829.79	740.04	779.45	314.00	818.65	982.26	584.46	504.00
Koteshwar	612.50	598.50	608.95	3.98	605.50	2.46	504.00	590.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	408.76	352.47
Rihand	288.22	252.98	254.69	64.30	254.45	54.90	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.36	NA	499.53	NA	539.32	413.62

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 28.06.2013 :

1. Hot and humid weather.

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 28.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER