

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.06.2013
Date of Reporting : 27.06.2013

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
39515	2590	42105	50.00	39010	1385	40395	50.19	944.0	53.35

* 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	50.76	18.05		68.81	125.53	126.19	0.67	195.00	14.88
Haryana	60.23	0.48		60.72	110.18	108.11	-2.07	168.83	0.00
Rajasthan	76.94	0.00	27.74	104.68	62.52	53.81	-8.71	158.49	0.00
Delhi	29.54			29.54	76.02	72.70	-3.32	102.24	0.14
UP	108.68	3.48	3.60	115.77	118.67	115.39	-3.28	231.16	33.76
Uttarakhand		10.30		10.30	19.34	21.13	1.80	31.43	2.84
HP		22.57		22.57	3.24	1.88	-1.36	24.45	0.04
J & K		13.39	0.00	13.39	14.37	13.28	-1.09	26.67	1.70
Chandigarh				0.00	5.98	5.68	-0.30	5.68	0.00
Total	326.16	68.27	31.34	425.77	535.85	518.19	-17.66	943.95	53.35

* 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				UI [OD:(+ve), UD: (-ve)]	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	Day Energy MU
Punjab	8526	725	57	1922	8129	400	37	1907	45.43	
Haryana	7550	0	-174	1177	6842	0	-364	1013	25.18	
Rajasthan	5962	0	-758	314	6612	0	-148	273	6.45	
Delhi	4364	0	-30	-65	3968	0	-331	-136	0.34	
UP	9008	1690	-243	340	10219	985	-348	1371	16.01	
Uttarakhand	1562	75	177	411	1296	0	87	280	7.45	
HP	974	0	-160	-949	903	0	-20	-1060	-22.57	
J&K	1319	100	36	-314	824	0	-178	-459	-8.98	
Chandigarh	250	0	-30	0	217	0	-5	0	0.18	
Total	39515	2590	-1125	2836	39010	1385	-1271	3189	69.48	

* 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)	UI [OG:(+ve), UG: (-ve)]		
								Schedule Net MU	UI Net MU	
A. NTPC	Singrauli STPS	2000	1935	1976	2087	45.98	1916	45.69	0.29	
	Rihand I STPS	1000	490	467	514	10.92	455	11.38	-0.45	
	Rihand II STPS	1000	948	940	1006	21.96	915	21.65	0.31	
	Rihand III STPS	500	472	497	501	10.93	456	10.88	0.05	
	Dadri I STPS	840	807	645	629	15.13	630	15.25	-0.12	
	Dadri II STPS	980	968	845	822	19.81	826	20.20	-0.39	
	Unchahar I TPS	420	388	377	366	8.19	341	8.67	-0.48	
	Unchahar II TPS	420	201	174	167	3.91	163	4.12	-0.22	
	Unchahar III TPS	210	196	156	200	3.76	157	3.84	-0.08	
	ISTPP (Jhajihar)	1500	1410	829	757	17.78	741	19.85	-2.07	
	Dadri GPS	830	803	473	467	11.30	471	11.36	-0.07	
	Anta GPS	419	398	0	0	0.00	0	0.13	-0.13	
	Auraiya GPS	663	628	293	266	6.63	276	6.55	0.08	
	Sub Total (A)	10782	9642	7672	7782	176.30	7346	179.57	-3.26	
	B. NPC	NAPS	440	290	328	339	7.12	297	6.96	0.16
		RAPS- B	440	388	426	436	9.27	386	9.31	-0.04
		RAPS- C	440	400	446	465	9.79	408	9.60	0.19
Sub Total (B)		1320	1078	1200	1240	26.18	1091	25.87	0.31	
C. NHPC	Chamera I HPS	540	540	540	540	13.00	542	12.96	0.04	
	Chamera II HPS	300	306	308	306	7.32	305	7.34	-0.02	
	Chamera III HPS	231	231	232	232	5.51	229	5.17	0.34	
	Bairasuil HPS	180	179	179	110	2.76	115	2.61	0.15	
	Salal-HPS	690	660	660	666	15.86	661	15.84	0.02	
	Tanakpur-HPS	94	14	72	0	0.39	16	0.32	0.07	
	Uri-HPS	480	475	470	463	11.12	463	11.29	-0.18	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasi-HPS	390	387	408	406	9.34	389	9.10	0.25	
	Sewa-II HPS	120	119	123	0	1.12	47	1.05	0.07	
Sub Total (C)	3305	2911	2992	2723	66.42	2767	65.69	0.73		
D. NJPC	Natpaa Jhakri	1500	1533	1583	1568	36.43	1518	36.26	0.17	
	Sub Total (D)	1500	1533	1583	1568	36.43	1518	36.26	0.17	
E. THDC	Tehri HPS	1000	780	793	783	18.76	782	18.50	0.26	
	Sub Total (E)	1400	1161	1182	1168	27.02	1126	26.70	0.32	
F. BBMB	Bhakra HPS	1480	1146	1259	1102	27.78	1158	27.51	0.27	
	Dehar HPS	990	614	825	620	15.09	629	14.73	0.36	
	Pong HPS	396	115	246	0	2.91	121	2.76	0.15	
	Sub Total (F)	2866	1875	2330	1722	45.78	1908	45.00	0.78	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	231	5.41	226	5.29	0.12	
	KWHEP HPS(IPP)	1000	0	1200	1197	28.17	1174	28.51	-0.34	
	Malana Stg-II HPS	100	0	111	111	2.60	108	2.34	0.25	
	Shree Cement TPS	300	0	264	261	6.28	262	6.37	-0.09	
	Budhil HPS(IPP)	70	0	70	69	1.66	69	1.46	0.20	
Sub Total (G)	1662	0	1876	1869	44.11	1838	43.97	0.14		
H. Total Regional Entities (A-G)	22836	18199	18835	18072	422.25	17594	423.06	-0.82		

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	1253	1160	26.92	1122	
	Guru Nanak Dev TPS(Bhatinda)	440	200	180	3.86	161	
	Guru Hargobind Singh TPS(L.mbt)	920	943	942	19.97	832	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2396	2282	50.76	2115	
	Total Hydro	1148	825	608	18.05	752	
	Total Punjab	3768	3221	2890	68.81	2867	
Haryana	Panipat TPS	1367	687	685	16.91	704	
	DCRTPP (Yamuna nagar)	600	279	260	6.45	269	
	Faridabad GPS (NTPC)	432	147	162	4.20	175	
	RGTPP (khedar) (IPP)	1200	957	849	18.56	773	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	592	591	14.12	588	
	Thermal (Total)	4944	2662	2547	60.23	2510	
	Total Hydro	62	15	15	0.48	20	
		Total Haryana	5006	2677	2562	60.72	2530
	Rajasthan	kota TPS	1240	821	808	18.82	784
suratgarh TPS		1500	732	942	21.95	915	
Chabra TPS		500	195	200	4.82	201	
Dholpur GPS		330	136	136	3.00	125	
Ramgarh GPS		111	50	66	1.45	61	
RAPS A (NPC)		300	179	179	4.27	178	
Barsingar (NLC)		250	156	190	3.91	163	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	692	697	16.55	690	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	233	0	2.17	90	
Thermal (Total)		6956	3194	3218	76.94	3206	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	1395	818	25.58	1066	
Biomass		91	26	26	0.63	26	
Solar		201	0	0	1.53	64	
Renewable/Others (Total)		2483	1421	844	27.74	1156	
		Total Rajasthan	9989	4615	4062	104.68	4362
UP		Anpara TPS	1630	1323	1325	28.70	1196
	Obra TPS	1288	342	349	7.60	317	
	Paricha TPS	1140	692	694	14.80	617	
	Panki TPS	210	70	25	1.30	54	
	Harduaganj TPS	665	391	395	5.50	229	
	Tanda TPS (NTPC)	440	296	296	7.30	304	
	Roza TPS (IPP)	1200	999	1018	24.30	1013	
	Anpara-C (IPP)	1200	492	352	11.38	474	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	356	315	7.81	325	
	Thermal (Total)	8223	4961	4769	108.68	4528	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	139	113	3.48	145	
	Cogeneration	981	150	150	3.60	150	
		Total UP	10131	5250	5032	115.77	4824
	Uttarakhand	Total Hydro	1303	475	411	10.30	429
Total Uttarakhand		1303	475	411	10.30	429	
Delhi	Rajghat TPS	135	89	87	2.07	86	
	Delhi Gas Turbine	282	194	185	4.60	192	
	Pragati Gas Turbine	330	263	143	4.72	197	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	238	234	5.38	224	
	Badarpur TPS (NTPC)	705	585	575	12.78	533	
	Thermal (Total)	2232	1369	1224	29.54	1231	
		Total Delhi	2232	1369	1224	29.54	1231
HP	Baspa HPS (IPP)	330	329	329	7.84	327	
	Malana HPS (IPP)	86	57	49	1.24	52	
	Other Hydro	589	572	571	13.49	562	
		Total HP	1005	958	949	22.57	940
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	19146	17690	425.77	17740	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4646	4598	108.65	4527	
Total Regional Availability(Gross)		57226	42627	40360	956.66	39861	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9629	8720	211.83	8826
State Control Area Hydro	5368	2993	2656	68.27	2845
Total Regional Hydro	15731	12622	11376	280.10	11671

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	250	500	100	4.49	0.39	4.10
Gwalior-Agra (D/C)	1616	1351	1849	0	32.75	0.00	32.75
Zerda-Kankroli	-11	-99	52	260	0.00	2.52	-2.52
Zerda-Bhinmal	-27	-82	127	316	0.00	2.30	-2.30
Malanpur-Auraiya	44	36	0	54	0.00	1.15	-1.15
Badod-Kota/Morak	-61	32	96	129	0.00	0.19	-0.19
Mundra-Mohindergarh(HVDC)	1450	1446	1451	0	33.02	0.00	33.02
Sub Total WR	3211	2934			70.26	6.56	63.70
Pusauli Bypass	-268	-287	300	294	0.17	4.81	-4.64
MZP- GKP (D/C)	532	686	940	0	17.15	0.00	17.15
Patna-Balia(D/C)	507	591	845	0	14.64	0.00	14.64
B'Sharif-Balia (D/C)	255	341	540	0	7.57	0.00	7.57
Pusauli-Balia	-15	39	70	115	0.00	0.01	-0.01
Gaya-Fatehpur (765 Kv)	56	0	142	17	1.66	0.00	1.66
Pusauli-Sahupuri	131	167	167	0	3.59	0.00	3.59
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)	275	167	313	0	5.88	0.00	5.88
Sub Total ER	1435	1664			50.65	5.71	44.94
Total IR Exch	4646	4598			120.91	12.26	108.65

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
44.04	3.69	47.73	6.89	16.70	1.28	5.70	2.51	-2.51

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
58.41	72.33	130.73	44.94	63.70	108.65	-13.47	-8.62	-22.09

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	0.30	91.20	1.30	90.90	72.10	8.80

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					
50.41	16.04	49.60	19.50	50.06	0.14	0.11	50.36	49.89

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	413	18:29	400	14:55	0.0	0.0	0.0	0.0
Gorakhpur	400	424	18:32	401	14:50	0.0	0.0	8.3	0.0
Bareilly	400	418	06:03	396	13:57	0.0	0.0	0.0	0.0
Kanpur	400	422	04:03	404	13:53	0.0	0.0	2.6	0.0
Dadri	400	414	04:03	391	14:49	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:00	396	14:49	0.0	0.0	6.7	0.0
Bawana	400	416	04:03	395	14:55	0.0	0.0	0.0	0.0
Bassi	400	432	04:02	401	12:33	0.0	0.0	30.2	0.5
Hissar	400	406	04:00	384	14:50	0.0	11.1	0.0	0.0
Moga	400	414	04:01	394	12:45	0.0	0.0	0.0	0.0
Abdullapur	400	412	08:58	404	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	411	04:02	394	14:49	0.0	0.0	0.0	0.0
Kishenpur	400	414	04:01	403	12:27	0.0	0.0	0.0	0.0
Wagoora	400	415	04:01	401	11:48	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	787	04:06	752	23:20	0.0	0.0	0.0	0.0
Balia	765	766	18:29	727	12:32	0.6	28.3	0.0	0.0
Moga	765	791	04:02	2	14:44	46.4	46.4	0.0	0.0
Agra	765	806	04:04	763	13:58	0.0	0.0	3.9	0.0
Bhiwani	765	788	04:01	747	14:50	0.0	0.0	0.0	0.0
Unnao	765	774	18:29	741	13:58	0.0	0.1	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	489.06	709.72	467.55	230.40	2097.37	911.60
Pong	426.72	384.05	403.45	304.55	394.84	121.45	1462.62	198.70
Tehri	829.79	740.04	778.80	304.00	818.65	982.26	526.78	519.00
Koteswar	612.50	598.50	610.40	4.21	804.20	1.88	519.00	548.00
Chamera-I	760.00	748.75	756.77	NA	NA	NA	445.33	352.40
Rihand	288.22	252.98	254.75	66.60	254.48	56.10	NA	NA
RPS	352.80	343.81	348.62	NA	NA	NA	NA	18.58
Jawahar Sagar	298.70	295.78	298.00	NA	NA	NA	NA	17.92
RSD	527.91	487.91	513.31	NA	499.53	NA	353.05	438.85

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 26.06.2013 :

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 : 26.06.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER