

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.07.2013
Date of Reporting : 15.07.2013

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
38955	2628	41583	50.00	40244	1840	42084	50.00	923.7	52.59

* 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)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	52.39	19.37		71.76	125.44	126.88	1.44	198.64	18.11
Haryana	59.78	0.54		60.32	104.49	105.01	0.52	165.33	0.00
Rajasthan	75.23	0.14	17.54	92.91	47.38	39.36	-8.02	132.28	0.53
Delhi	19.29			19.29	77.24	76.72	-0.52	96.01	0.07
UP	117.98	4.23	1.20	123.41	122.25	115.64	-6.61	239.05	32.18
Uttarakhand		17.11		17.11	18.38	16.08	-2.31	33.18	0.00
HP		23.68		23.68	0.70	-0.21	-0.91	23.46	0.00
J & K		13.77	0.00	13.77	19.77	16.63	-3.14	30.40	1.70
Chandigarh				0.00	5.57	5.31	-0.26	5.31	0.00
Total	324.67	78.83	18.74	422.24	521.23	501.42	-19.81	923.66	52.59

* 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	8601	615	254	1921	8479	600	83	1921	46.11	
Haryana	6930	0	-37	1407	6964	0	61	1050	34.71	
Rajasthan	5688	0	-600	-95	6232	0	-365	-12	-1.58	
Delhi	4211	13	329	343	4006	0	-80	-144	6.24	
UP	9407	1900	-505	561	10705	1240	-115	1508	20.00	
Uttarakhand	1562	0	-14	383	1464	0	-41	318	8.10	
HP	838	0	-170	-1071	939	0	31	-1228	-25.71	
J&K	1477	100	-171	-99	1239	0	-161	-149	-7.18	
Chandigarh	241	0	-24	0	215	0	-14	-10	-0.16	
Total	38955	2628	-939	3351	40244	1840	-601	3255	80.53	

* 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	1514	1592	2084	34.98	1458	35.23	-0.25
	Rihand I STPS	1000	915	815	879	19.57	815	19.12	0.44
	Rihand II STPS	1000	970	208	1095	20.62	859	20.52	0.10
	Rihand III STPS	500	480	402	468	9.82	409	9.56	0.26
	Dadri I STPS	840	810	820	854	15.67	653	16.22	-0.54
	Dadri II STPS	980	755	509	941	14.49	604	14.99	-0.50
	Unchahar I TPS	420	397	355	351	7.73	320	7.73	-0.05
	Unchahar II TPS	420	403	355	319	7.29	304	7.30	-0.01
	Unchahar III TPS	210	201	189	156	3.50	146	3.51	-0.01
	ISTPP (Jhajhar)	1500	1410	647	656	14.10	588	14.64	-0.53
	Dadri GPS	830	781	382	388	8.99	375	9.57	-0.58
	Anta GPS	419	398	258	258	6.14	256	6.26	-0.12
	Auraiya GPS	663	611	299	305	7.08	295	7.19	-0.11
	Sub Total (A)	10782	9644	6831	8754	169.93	7080	171.83	-1.91
B. NPC	NAPS	440	156	177	181	3.79	158	3.74	0.05
	RAPS- B	440	387	435	436	9.36	390	9.29	0.08
	RAPS- C	440	210	234	235	4.91	205	5.04	-0.13
	Sub Total (B)	1320	753	846	852	18.07	753	18.07	0.00
C. NHPC	Chamera I HPS	540	534	540	540	9.55	398	9.32	0.23
	Chamera II HPS	300	300	303	305	7.20	300	7.21	-0.01
	Chamera III HPS	231	231	235	232	5.51	230	5.50	0.01
	Bairasuil HPS	180	179	179	80	1.76	73	1.60	0.16
	Salal-HPS	690	656	657	657	15.68	653	15.75	-0.07
	Tanakpur-HPS	94	58	51	59	1.24	52	1.38	-0.14
	Uri-HPS	480	450	448	448	10.68	445	10.76	-0.07
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasi-HPS	390	387	403	407	9.34	389	9.36	-0.03
	Sewa-II HPS	120	119	40	0	0.58	24	0.57	0.02
Sub Total (C)	3305	2914	2856	2728	61.54	2564	61.44	0.10	
D. NJPC	Natpaa Jhakri	1500	1605	1623	1613	38.62	1609	38.52	0.10
	Sub Total (D)	1500	1605	1623	1613	38.62	1609	38.52	0.10
E. THDC	Tehri HPS	1000	880	885	890	21.32	888	21.12	0.20
	Sub Total (E)	1400	1256	1270	1162	29.26	1219	29.02	0.24
F. BBMB	Bhakra HPS	1480	1347	1360	1366	32.75	1365	32.33	0.42
	Dehar HPS	990	609	825	615	14.92	622	14.61	0.31
	Pong HPS	396	178	306	60	4.35	181	4.28	0.07
	Sub Total (F)	2866	2134	2491	2041	52.02	2168	51.21	0.81
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	118	4.24	176	3.84	0.39
	KWHEP HPS(IPP)	1000	0	1196	1198	28.52	1188	28.51	0.01
	Malana Stg-II HPS	100	0	113	112	2.69	112	2.50	0.19
	Shree Cement TPS	300	0	238	144	4.88	203	5.61	-0.74
	Budhil HPS(IPP)	70	0	69	69	1.65	69	1.65	0.00
	Sub Total (G)	1662	0	1847	1641	41.97	1749	42.12	-0.15
H. Total Regional Entities (A-G)	22836	18306	17764	18791	411.40	17142	412.22	-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	1260	1260	27.51	1146	
	Guru Nanak Dev TPS(Bhatinda)	440	204	205	4.34	181	
	Guru Hargobind Singh TPS(L.mbt)	920	937	926	20.54	856	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2401	2391	52.39	2183	
	Total Hydro	1148	877	728	19.37	807	
	Total Punjab	3768	3278	3119	71.76	2990	
Haryana	Panipat TPS	1367	402	361	9.48	395	
	DCRTPP (Yamuna nagar)	600	271	276	6.39	266	
	Faridabad GPS (NTPC)	432	304	385	8.42	351	
	RGTPP (khedar) (IPP)	1200	1051	883	23.78	991	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	485	557	11.71	488	
	Thermal (Total)	4944	2513	2462	59.78	2491	
	Total Hydro	62	22	21	0.54	23	
		Total Haryana	5006	2535	2483	60.32	2513
	Rajasthan	kota TPS	1240	961	961	23.42	976
suratgarh TPS		1500	986	943	20.89	870	
Chabra TPS		500	192	189	4.58	191	
Dholpur GPS		330	93	107	2.53	105	
Ramgarh GPS		111	31	31	0.86	36	
RAPS A (NPC)		300	176	176	4.24	177	
Barsingar (NLC)		250	149	162	3.71	154	
Giral LTSP		250	59	35	0.90	37	
Rajwest LTSP (IPP)		1080	510	861	14.12	588	
VSLP LTSP (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	0	0.00	0	
Thermal (Total)		6956	3157	3465	75.23	3135	
Total Hydro		550	0	27	0.14	6	
Wind power		2191	1024	697	15.54	647	
Biomass		91	16	16	0.39	16	
Solar		201	0	0	1.61	67	
Renewable/Others (Total)		2483	1040	713	17.54	731	
		Total Rajasthan	9989	4197	4205	92.91	3871
UP		Anpara TPS	1630	1179	1186	28.40	1183
	Obra TPS	1288	304	328	8.10	338	
	Paricha TPS	1140	419	605	13.50	563	
	Panki TPS	210	126	131	3.10	129	
	Harduaganj TPS	665	350	351	8.50	354	
	Tanda TPS (NTPC)	440	317	294	7.65	319	
	Roza TPS (IPP)	1200	899	797	22.40	933	
	Anpara-C (IPP)	1200	806	810	18.83	785	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	315	292	7.50	313	
	Thermal (Total)	8223	4715	4794	117.98	4916	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	146	160	4.23	176	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	4911	5004	123.41	5142
	Uttarakhand	Total Hydro	1303	752	728	17.11	713
Total Uttarakhand		1303	752	728	17.11	713	
Delhi	Rajghat TPS	135	32	33	0.90	37	
	Delhi Gas Turbine	282	72	74	1.77	74	
	Pragati Gas Turbine	330	292	286	7.27	303	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	425	420	9.36	390	
	Thermal (Total)	2232	821	813	19.29	804	
		Total Delhi	2232	821	813	19.29	804
HP	Baspa HPS (IPP)	330	305	336	7.53	314	
	Malana HPS (IPP)	86	99	101	2.42	101	
	Other Hydro	589	584	574	13.73	572	
		Total HP	1005	988	1011	23.68	987
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436	
	Other Hydro	323	130	140	3.30	137	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	566	576	13.77	574
Total State Control Area Generation		34390	18048	17939	422.24	17593	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4378	5283	110.30	4596	
Total Regional Availability(Gross)		57226	40190	42013	943.94	39331	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9780	8972	216.88	9037
State Control Area Hydro	5368	3351	3251	78.83	3285
Total Regional Hydro	15731	13131	12223	295.71	12321

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	-100	300	500	100	4.74	0.23	4.52
Gwalior-Agra (D/C)	1434	1616	1783	0	33.61	0.00	33.61
Zerda-Kankroli	-83	26	52	159	0.00	1.07	-1.07
Zerda-Bhinmal	-96	26	126	190	0.00	0.91	-0.91
Malanpur-Auraiya	-52	-35	0	93	0.00	1.11	-1.11
Badod-Kota/Morak	-96	-16	26	111	0.00	1.27	-1.27
Mundra-Mohindergarh(HVDC)	977	989	1022	0	22.95	0.00	22.95
Sub Total WR	1984	2906			61.30	4.59	56.71
Pusauli Bypass	198	270	307	0	4.01	0.00	4.01
MZP- GKP (D/C)	792	812	920	0	18.61	0.00	18.61
Patna-Balia(D/C)	524	529	635	0	11.59	0.00	11.59
B'Sharif-Balia (D/C)	345	344	410	0	7.22	0.00	7.22
Pusauli-Balia	-9	18	28	61	0.38	0.00	0.38
Gaya-Fatehpur (765 Kv)	134	43	159	0	2.31	0.00	2.31
Pusauli-Sahupuri	146	183	200	0	4.25	0.00	4.25
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)	302	218	317	0	6.11	0.00	6.11
Sub Total ER	2394	2377			54.48	0.90	53.58
Total IR Exch	4378	5283			115.78	5.48	110.30

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
37.18	3.72	40.90	9.58	42.16	-1.14	-6.59	1.11	-1.10
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
50.45	76.31	126.75	53.58	56.71	110.30	3.14	-19.59	-16.46

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	0.00	90.60	1.20	90.60	65.00	9.40

<----- 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					
50.36	21.44	49.72	3.19	50.05	0.16	0.12	50.40	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	407	18:25	397	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	420	07:34	401	13:44	0.0	0.0	0.0	0.0
Bareilly	400	419	06:08	398	00:06	0.0	0.0	0.0	0.0
Kanpur	400	419	06:13	403	00:10	0.0	0.0	0.0	0.0
Dadri	400	414	06:13	398	00:04	0.0	0.0	0.0	0.0
Ballabgarh	400	422	06:06	406	00:04	0.0	0.0	3.6	0.0
Bawana	400	416	06:06	400	14:42	0.0	0.0	0.0	0.0
Bassi	400	427	18:02	410	13:49	0.0	0.0	14.9	0.0
Hissar	400	407	06:12	391	14:41	0.0	0.0	0.0	0.0
Moga	400	414	06:04	397	14:42	0.0	0.0	0.0	0.0
Abdullapur	400	411	06:08	396	13:50	0.0	0.0	0.0	0.0
Nalagarh	400	407	06:04	396	14:46	0.0	0.0	0.0	0.0
Kishenpur	400	419	06:04	403	20:35	0.0	0.0	0.0	0.0
Wagoora	400	415	06:03	394	20:32	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	770	07:00	747	23:00	0.0	0.0	0.0	0.0
Balia	765	772	06:13	733	22:16	0.0	14.4	0.0	0.0
Moga	765	793	06:05	762	14:42	0.0	0.0	0.0	0.0
Agra	765	807	06:12	772	00:09	0.0	0.0	2.1	0.0
Bhiwani	765	789	06:10	758	14:43	0.0	0.0	0.0	0.0
Unnao	765	767	06:05	740	00:01	0.0	6.4	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	498.09	1018.16	472.50	308.66	1367.22	1047.72
Pong	426.72	384.05	409.62	464.36	394.03	111.75	417.36	278.38
Tehri	829.79	740.04	790.10	454.00	818.65	982.26	798.15	551.00
Koteswar	612.50	598.50	608.90	3.93	NA	NA	549.00	518.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	283.29	258.66
Rihand	288.22	252.98	254.51	57.30	254.17	44.30	NA	NA
RPS	352.80	343.81	349.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.72	144.00	501.50	144.00	322.70	428.12

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 14.07.2013 :

1.Normal 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.
3. MANERI BHALI STG-1(90MW)/Uttarakhand closed down due to flush flooding.

Report for : 14.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER