

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.07.2012
Date of Reporting : 11.07.2012

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
35658	3057	38714	49.66	37053	1457	38510	49.94	869.4	66.90

* 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	51.42	15.91		67.33	118.86	130.16	11.29	197.48	16.53
Haryana	41.57	0.79		42.36	76.84	100.82	23.98	143.18	4.71
Rajasthan	65.31	0.20	7.64	73.15	50.57	61.10	10.54	134.25	0.12
Delhi	25.38			25.38	79.96	72.18	-7.78	97.57	0.94
UP	76.45	14.51	2.40	93.36	97.97	113.49	15.53	206.85	40.29
Uttarakhand		18.55		18.55	9.12	13.61	4.49	32.16	1.36
HP		20.75		20.75	2.17	2.51	0.34	23.26	0.00
J & K		15.15	0.00	15.15	14.16	13.59	-0.57	28.74	2.95
Chandigarh				0.00	6.68	5.88	-0.80	5.88	0.00
Total	260.13	85.87	10.04	356.04	456.34	513.35	57.01	869.38	66.90

* 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	8266	931	408	2192	8376	500	162	1843	49.00	
Haryana	5954	63	1286	825	6166	0	1065	1025	23.49	
Rajasthan	5169	8	310	-457	5853	0	403	-481	-11.26	
Delhi	4329	0	-137	560	3809	7	-776	570	14.40	
UP	8102	1755	201	-85	9519	850	1371	15	-0.08	
Uttarakhand	1471	150	183	-116	1293	0	165	-116	-2.78	
HP	819	0	-179	-1524	872	0	-3	-1422	-35.33	
J&K	1286	150	-61	-462	945	100	-193	-487	-11.77	
Chandigarh	262	0	-28	40	219	0	-32	0	1.07	
Total	35658	3057	1983	972	37053	1457	2162	947	26.73	

* 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	
										UI [OG:(+ve), UG: (-ve)]
A. NTPC	Singrauli STPS	2000	1814	1855	2089	43.73	1822	43.54	0.19	
	Rihand I STPS	1000	870	942	958	21.03	876	20.88	0.15	
	Rihand II STPS	1000	960	1028	1038	23.27	970	23.04	0.23	
	Rihand III STPS	500		0	0	0.00	0		0.00	
	Dadri I STPS	840	675	650	831	14.67	611	14.77	-0.09	
	Dadri II STPS	980	963	1021	995	22.61	942	22.42	0.19	
	Unchahar I TPS	420	384	426	397	9.16	382	9.20	-0.04	
	Unchahar II TPS	420	403	442	440	9.63	401	9.67	-0.04	
	Unchahar III TPS	210	201	219	219	4.79	200	4.81	-0.02	
	ISTPP (Jhajhar)	1000	911	857	724	19.32	805	18.21	1.11	
	Dadri GPS	830	778	605	716	13.86	577	13.81	0.05	
	Anta GPS	419	396	328	387	7.51	313	7.46	0.04	
	Auraiya GPS	663	400	289	307	6.42	268	6.20	0.22	
	Sub Total (A)	10282	8755	8662	9101	196.00	8167	194.01	1.99	
	B. NPC	NAPS	440	263	294	297	6.21	259	6.31	-0.10
		RAPS- B	440	394	440	442	6.54	273	9.46	-2.91
RAPS- C		440	400	434	4621	9.58	399	9.60	-0.02	
Sub Total (B)		1320	1057	1168	5360	22.34	931	25.37	-3.03	
C. NHPC	Chamera I HPS	540	534	540	540	12.85	535	12.81	0.04	
	Chamera II HPS	300	300	300	302	7.17	299	7.24	-0.07	
	Chamera III HPS	231	218	231	231	5.23	218	5.26	-0.03	
	Bairasuil HPS	180	182	140	120	2.57	107	2.54	0.03	
	Salal-HPS	690	663	662	662	15.83	660	15.92	-0.09	
	Tanakpur-HPS	94	92	91	92	2.21	92	2.21	-0.01	
	Uri-HPS	480	475	480	480	11.58	483	11.56	0.02	
	Dhauliganga-HPS	280	277	278	279	6.70	279	6.67	0.03	
	Dulhasti-HPS	390	387	402	392	9.29	387	9.21	0.09	
	Sewa-II HPS	120	80	32	17	0.66	27	0.71	-0.05	
Sub Total (C)	3305	3208	3156	3115	74.09	3087	74.14	-0.05		
D.NJPC	Nathpa Jhakri	1500	1600	1618	1614	38.67	1611	38.40	0.27	
	Sub Total (D)	1500	1600	1618	1614	38.67	1611	38.40	0.27	
E. THDC	Tehri HPS	1000	413	625	151	5.96	248	6.00	-0.04	
	Koteshwar HPS	400	230	0	0	2.53	105	2.50	0.03	
	Sub Total (E)	1400	643	625	151	8.48	353	8.50	-0.02	
F. BBMB	Bhakra HPS	1480	869	1057	651	21.53	897	20.86	0.67	
	Dehar HPS	990	603	825	606	15.13	630	14.47	0.66	
	Pong HPS	396	212	306	159	5.26	219	5.01	0.25	
	Sub Total (F)	2866	1684	2188	1416	41.92	1747	40.33	1.59	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	232	5.53	230	4.96	0.57	
	KWHEP HPS(IPP)	1000	0	1200	1200	28.57	1190	27.78	0.78	
	Malana Stg-II HPS	100	0	107	106	2.57	107	0.00	2.57	
	Shree Cement TPS	300	0	144	149	3.48	145	3.48	0.00	
	Budhil HPS(IPP)	70	0	70	70	1.68	70		1.68	
	Sub Total (G)	1662	0	1752	1757	41.82	1742	36.22	5.59	
H. Total Regional Entities (A-G)	22336	16947	19169	22514	423.32	17638	416.98	6.34		

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	1245	1258	27.40	1142	
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.46	186	
	Guru Hargobind Singh TPS(L.mbt)	920	892	913	19.55	815	
	Thermal (Total)	2620	2347	2381	51.42	2142	
	Total Hydro	1148	643	782	15.91	663	
	Total Punjab	3768	2990	3163	67.33	2805	
Haryana	Panipat TPS	1367	933	1106	24.22	1009	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	187	190	4.63	193	
	RGTPP (khedar) (IPP)	1200	446	550	12.72	530	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1566	1846	41.57	1732	
	Total Hydro	62	21	27	0.79	33	
	Total Haryana	5006	1587	1873	42.36	1765	
	Rajasthan	kota TPS	1240	757	678	19.27	803
		suratgarh TPS	1500	1124	1069	26.30	1096
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	117	87	2.68	112	
Ramgarh GPS		111	56	57	1.42	59	
RAPS A (NPC)		300	180	180	4.26	178	
Barsingar (NLC)		250	185	185	4.78	199	
Giral LTPS		250	30	61	0.98	41	
Rajwest LTPS (IPP)		540	243	243	5.62	234	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2692	2560	65.31	2721	
Total Hydro		550	40	0	0.20	8	
Wind power		1843	109	456	6.64	277	
Biomass		91	25	25	0.60	25	
Solar		128	0	0	0.20	8	
Renewable/Others (Total)		2062	134	481	7.64	318	
Total Rajasthan		7767	2866	3041	73.15	3048	
UP		Anpara TPS	1630	1126	955	23.60	983
		Obra TPS	1382	381	487	9.30	388
	Paricha TPS	890	516	450	10.10	421	
	Panki TPS	210	135	130	2.80	117	
	Harduaganj TPS	665	32	34	0.70	29	
	Tanda TPS (NTPC)	440	191	496	4.82	201	
	Roza TPS (IPP)	1200	548	523	12.91	538	
	Anpara-C (IPP)	1200	342	447	9.30	387	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	139	123	2.93	122	
	Thermal (Total)	8067	3410	3645	76.45	3186	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	176	0	4.05	169	
	Cogeneration	981	100	100	2.40	100	
	Total UP	9975	4122	4181	93.36	3454	
	Uttarakhand	Total Hydro	1303	908	732	18.55	773
Total Uttarakhand		1303	908	732	18.55	773	
Delhi	Rajghat TPS	135	37	83	1.36	57	
	Delhi Gas Turbine	282	146	148	3.67	153	
	Pragati Gas Turbine	330	282	287	7.11	296	
	Rithala GPS	108	20	21	0.53	22	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	625	656	12.71	530	
	Thermal (Total)	2237	1110	1195	25.38	1058	
	Total Delhi	2237	1110	1195	25.38	1058	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	107	106	2.54	106	
	Other Hydro	589	462	410	10.29	429	
	Total HP	1005	899	846	21	865	
J & K	Baglihar HPS (IPP)	450	442	440	10.61	442	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	620	637	15.15	631	
Total State Control Area Generation		32017	15102	15668	356.04	14399	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3811	4816	104.49	4354	
Total Regional Availability(Gross)		54353	38082	42998	883.84	36391	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9125	7834	199.83	8326
State Control Area Hydro	5368	3307	3024	85.87	3142
Total Regional Hydro	15731	12432	10858	285.69	11468

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	500	200	500	0	7.28	0.00	7.28
Gwalior-Agra (D/C)	919	1159	1304	0	25.29	0.00	25.29
Zerda-Kankroli	161	102	307	75	2.00	0.00	2.00
Zerda-Bhinmal	93	112	267	154	2.22	0.00	2.22
Malanpur-Auraiya	-22	21	0	13	0.00	0.05	-0.05
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohinderqarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1651	1594			36.79	0.05	36.73
Pusaui Bypass	250	250	250	0	5.79	0.00	5.79
MZP- GKP (D/C)	672	1074	1430	0	24.07	0.00	24.07
Patna-Balia(D/C)	311	620	753	0	12.37	0.00	12.37
B'Sharif-Balia (D/C)	371	576	943	0	11.51	0.00	11.51
Barh - Balia(D/C)	376	380	405	0	5.99	0.00	5.99
Pusaui-Balia	7	50	225	0	0.79	0.00	0.79
Gaya-Fatehpur (765 Kv)	61	156	281	0	4.91	0.00	4.91
Pusaui-Sahupuri	152	141	157	0	3.04	0.00	3.04
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-25	0	47	0.00	0.72	-0.72
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2160	3222			68.48	0.72	67.75
Total IR Exch	3811	4816			105.26	0.78	104.49

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
32.75	3.72	36.47	5.05	26.01	-2.83	-2.90	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
38.69	18.24	56.93	67.75	36.73	104.49	29.06	18.50	47.56

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	4.50	23.30	95.30	76.50	9.80	0.20

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.24	18.03	49.32	23.08	49.80	0.66	0.16	50.20	49.49

VII. Voltage profile

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	402	4:04	395	14:13	0.0	0.0	0.0	0.0
Gorakhpur	400	428	5:17	399	22:23	0.0	0.0	23.1	0.0
Bareilly	400	416	19:08	384	14:16	0.0	2.8	0.0	0.0
Kanpur	400	412	18:05	392	14:13	0.0	0.0	0.0	0.0
Dadri	400	407	18:03	386	14:16	0.0	3.8	0.0	0.0
Ballabgarh	400	412	3:58	388	14:14	0.0	1.2	0.0	0.0
Bawana	400	411	19:22	389	14:14	0.0	0.4	0.0	0.0
Bassi	400	425	4:03	396	14:40	0.0	0.0	9.5	0.0
Hissar	400	407	18:02	382	14:14	0.0	16.9	0.0	0.0
Moga	400	410	20:18	388	14:40	0.0	1.8	0.0	0.0
Abdullapur	400	413	18:12	392	13:49	0.0	0.0	0.0	0.0
Nalagarh	400	408	19:30	382	14:21	0.0	20.5	0.0	0.0
Kishenpur	400	407	3:03	396	14:14	0.0	0.0	0.0	0.0
Wagooa	400	407	3:05	390	14:14	0.0	0.0	0.0	0.0

VIII. 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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	471.15	287.87	489.47	719.44	1018.33	797.66
Pong	426.72	384.05	303.64	106.94	412.42	577.87	462.92	430.39
Tehri	829.79	740.04	751.80	63.22	818.65	982.26	434.61	153.00
Koteswar	612.50	598.50	600.90	0.80	NA	NA	168.00	192.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	254.29	49.00	256.67	143.80	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	500.27	NA	509.45	NA	294.64	130.51

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.07.2012 :

1. Cloudy weather in NR.

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 10.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER