

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.07.2012

Date of Reporting : 15.07.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
35612	2891	38503	49.63	35447	1570	37017	50.15	843.5	63.63

* 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	47.89	15.48		63.37	117.47	124.49	7.02	187.86	14.21
Haryana	49.85	0.88		50.72	73.60	82.33	8.74	133.06	0.10
Rajasthan	62.61	0.33	32.10	95.04	39.02	31.06	-7.96	126.10	0.00
Delhi	24.51			24.51	73.44	64.94	-8.50	89.45	0.04
UP	78.70	13.58	2.40	94.68	98.32	122.80	24.48	217.47	45.20
Uttarakhand		20.68		20.68	8.48	10.78	2.30	31.46	1.06
HP		21.44		21.44	2.48	2.57	0.10	24.01	0.07
J & K		15.15	0.00	15.15	15.47	13.47	-2.00	28.62	2.95
Chandigarh				0.00	6.68	5.43	-1.24	5.43	0.00
Total	263.56	87.54	34.50	385.60	434.93	457.88	22.95	843.47	63.63

* 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 (Net MU)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	7999	986	225	2190	7880	250	43	1951	49.96	
Haryana	5798	0	481	825	5724	0	537	825	19.67	
Rajasthan	5381	0	-147	-557	5004	0	-868	-581	-13.66	
Delhi	3913	0	-395	594	3438	0	-552	604	15.23	
UP	8572	1755	740	-85	10083	1220	1862	15	-0.08	
Uttarakhand	1445	0	225	-116	1265	0	43	-116	-2.78	
HP	924	0	-105	-1474	911	0	-37	-1438	-34.42	
J&K	1337	150	-76	-362	937	100	-253	-362	-8.80	
Chandigarh	243	0	-63	40	205	0	-35	0	1.07	
Total	35612	2891	885	1056	35447	1570	740	898	26.19	

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

III. Regional Entities :

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	1920	2087	2066	46.62	1943	46.08	0.54
Rihand I STPS	1000	870	949	949	21.01	875	20.88	0.13
Rihand II STPS	1000	970	1043	1040	23.43	976	23.28	0.15
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	793	730	834	15.81	659	16.14	-0.33
Dadri II STPS	980	960	1005	995	20.61	859	21.36	-0.75
Unchahar I TPS	420	331	350	387	7.97	332	7.86	0.11
Unchahar II TPS	420	331	347	388	7.89	329	7.77	0.12
Unchahar III TPS	210	167	178	193	5.01	209	3.92	1.09
ISTPP (Jhajjar)	1000	842	700	691	15.85	660	15.59	0.26
Dadri GPS	830	593	556	462	11.98	499	12.15	-0.17
Anta GPS	419	388	255	276	6.30	262	6.30	0.00
Auraiya GPS	663	412	296	272	6.62	276	6.61	0.01
Sub Total (A)	10282	8579	8496	8553	189.09	7879	187.92	1.17
B. NPC								
NAPS	440	259	297	301	6.26	261	6.22	0.04
RAPS- B	440	396	441	440	9.61	401	9.50	0.11
RAPS- C	440	254	230	234	5.00	208	6.10	-1.10
Sub Total (B)	1320	909	968	975	20.87	870	21.82	-0.95
C. NHPC								
Chamera I HPS	540	534	540	540	12.85	536	12.81	0.04
Chamera II HPS	300	300	303	304	7.23	301	7.25	-0.02
Chamera III HPS	231	231	236	234	5.48	228	5.54	-0.07
Bairasuil HPS	180	182	182	80	1.93	81	1.99	-0.06
Salal-HPS	690	663	662	662	15.92	664	15.91	0.01
Tanakpur-HPS	94	94	93	93	2.21	92	2.23	-0.02
Uri-HPS	480	468	480	480	11.51	480	11.56	-0.05
Dhauliganga-HPS	280	277	282	279	6.66	278	6.68	-0.02
Dulhasi-HPS	390	59	210	0	1.42	59	1.35	0.08
Sewa-II HPS	120	80	42	22	0.71	30	0.73	-0.02
Sub Total (C)	3305	2888	3030	2694	65.93	2747	66.06	-0.13
D.NJPC								
Nathpa Jhakri	1500	1605	1610	1609	38.60	1608	38.52	0.08
Sub Total (D)	1500	1605	1610	1609	38.60	1608	38.52	0.08
E. THDC								
Tehri HPS	1000	447	680	155	5.77	240	6.00	-0.23
Koteshwar HPS	400	230	163	161	2.26	94	2.25	0.01
Sub Total (E)	1400	677	843	316	8.03	335	8.25	-0.22
F. BBMB								
Bhakra HPS	1480	849	1171	688	20.82	868	20.37	0.45
Dehar HPS	990	624	660	660	15.00	625	14.98	0.03
Pong HPS	396	202	306	108	5.01	209	5.01	0.00
Sub Total (F)	2866	1675	2137	1456	40.83	1701	40.35	0.48
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	226	220	5.20	216	5.11	0.09
KWHEP HPS(IPP)	1000	0	1200	1200	28.64	1193	28.63	0.01
Malana Stg-II HPS	100	0	110	108	2.62	109	0.00	2.62
Shree Cement TPS	300	0	248	236	5.57	232	5.53	0.04
Budhil HPS(IPP)	70	35	35	35	0.83	35		0.83
Sub Total (G)	1662	0	1819	1799	42.87	1786	39.27	3.60
H. Total Regional Entities (A-G)	22336	16332	18903	17402	406.21	16926	402.20	4.02

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	952	1053	22.83	951	
	Guru Nanak Dev TPS(Bhatinda)	440	210	211	4.37	182	
	Guru Hargobind Singh TPS(L.mbt)	920	930	952	20.70	862	
	Thermal (Total)	2620	2092	2216	47.89	1996	
	Total Hydro	1148	734	724	15.48	645	
	Total Punjab	3768	2826	2940	63.37	2641	
Haryana	Panipat TPS	1367	1086	1097	26.49	1104	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	381	380	9.31	388	
	RGTPP (kheadar) (IPP)	1200	547	547	13.06	544	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	200	0	0.99	41	
	Thermal (Total)	4944	2214	2024	49.85	2077	
	Total Hydro	62	31	15	0.88	37	
	Total Haryana	5006	2245	2039	50.72	2114	
	Rajasthan	kota TPS	1240	815	861	20.09	837
suratgarh TPS		1500	1031	1059	25.08	1045	
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	94	145	2.58	108	
Ramgarh GPS		111	54	54	1.38	58	
RAPS A (NPC)		300	177	177	4.25	177	
Barsingsar (NLC)		250	103	103	2.50	104	
Giral LTPS		250	60	47	1.11	46	
Rajwest LTPS (IPP)		540	235	235	5.62	234	
VSLLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2569	2681	62.61	2609	
Total Hydro		550	0	0	0.33	14	
Wind power		1843	1268	1450	31.06	1294	
Biomass		91	23	23	0.56	23	
Solar		128	0	0	0.15	6	
Renewable/Others (Total)		2062	1291	1473	32.10	1337	
Total Rajasthan		7767	3860	4154	95.04	3960	
UP		Anpara TPS	1630	801	600	18.20	758
		Obra TPS	1382	436	425	10.30	429
	Paricha TPS	890	544	475	12.50	521	
	Panki TPS	210	135	131	2.90	121	
	Harduaganj TPS	665	0	138	1.80	75	
	Tanda TPS (NTPC)	440	293	291	7.21	301	
	Roza TPS (IPP)	1200	550	549	11.87	495	
	Anpara-C (IPP)	1200	207	408	8.84	368	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	219	247	5.08	212	
	Thermal (Total)	8067	3185	3264	78.70	3279	
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435	
	Other Hydro	527	120	0	3.13	130	
	Cogeneration	981	100	100	2.40	100	
	Total UP	9975	3841	3800	94.68	3510	
	Uttarakhand	Total Hydro	1303	887	853	20.68	862
Total Uttarakhand		1303	887	853	20.68	862	
Delhi	Rajghat TPS	135	32	35	0.79	33	
	Delhi Gas Turbine	282	141	146	3.68	153	
	Pragati Gas Turbine	330	283	292	7.03	293	
	Rithala GPS	108	32	30	0.51	21	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	650	560	12.51	521	
	Thermal (Total)	2237	1138	1063	24.51	1021	
	Total Delhi	2237	1138	1063	24.51	1021	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	102	101	2.33	97	
	Other Hydro	589	482	459	11.18	466	
	Total HP	1005	914	890	21	893	
J & K	Baglihar HPS (IPP)	450	440	436	10.61	442	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	618	633	15.15	631	
Total State Control Area Generation		32017	16329	16372	385.60	15631	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2735	2687	66.00	2750	
Total Regional Availability(Gross)		54353	37967	36461	857.81	35307	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9156	7603	189.85	7910
State Control Area Hydro	5368	3304	3115	87.54	3212
Total Regional Hydro	15731	12460	10718	277.38	11122

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	-200	0	400	0.00	5.31	-5.31
Gwalior-Agra (D/C)	720	829	1216	0	20.35	0.00	20.35
Zerda-Kankroli	0	-53	39	240	0.00	1.32	-1.32
Zerda-Bhinmal	67	-77	264	282	0.00	1.43	-1.43
Malanpur-Auraiya	-74	-10	0	104	0.00	0.48	-0.48
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	320	125	320	0	6.07	0.00	6.07
Sub Total WR	933	614			26.42	8.54	17.89
Pusauli Bypass	250	250	250	0	6.02	0.00	6.02
MZP- GKP (D/C)	705	750	1176	0	20.14	0.00	20.14
Patna-Balia(D/C)	572	400	719	0	11.80	0.00	11.80
BSharif-Balia (D/C)	204	336	355	0	6.02	0.00	6.02
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-17	36	107	17	0.35	0.00	0.35
Gayaa-Fatehpur (765 Kv)	-16	154	211	16	1.38	0.00	1.38
Pusauli-Sahupuri	144	172	172	0	3.13	0.00	3.13
Knasa-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	1802	2073			48.84	0.72	48.11
Total IR Exch	2735	2687			75.26	9.26	66.00

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
27.26	3.36	30.62	0.16	22.97	-2.99	-3.49	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
27.79	14.52	42.31	48.11	17.89	66.00	20.33	3.36	23.69

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	4.20	20.70	93.70	77.20	20.10	2.10

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.32	18.03	49.22	23.06	49.84	0.69	0.19	50.26	49.43

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	409	5:02	400	16:27	0.0	0.0	0.0	0.0
Gorakhpur	400	432	6:19	401	14:25	0.0	0.0	33.7	2.5
Bareilly	400	422	5:03	389	15:51	0.0	0.1	0.4	0.0
Kanpur	400	422	5:03	393	14:11	0.0	0.0	0.1	0.0
Dadri	400	417	4:03	398	14:10	0.0	0.0	0.0	0.0
Ballabgarh	400	424	4:04	397	14:12	0.0	0.0	9.3	0.0
Bawana	400	422	5:03	400	14:08	0.0	0.0	3.8	0.0
Bassi	400	433	5:03	398	14:12	0.0	0.0	22.3	2.2
Hissar	400	408	0:00	408	0:00	0.0	0.0	0.0	0.0
Moga	400	420	4:01	395	22:06	0.0	0.0	0.0	0.0
Abdullapur	400	422	4:03	402	14:12	0.0	0.0	1.4	0.0
Nalagarh	400	417	4:00	397	15:32	0.0	0.0	0.0	0.0
Kishenpur	400	416	4:00	400	22:03	0.0	0.0	0.0	0.0
Wagoora	400	412	4:03	389	22:03	0.0	0.3	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	472.13	303.45	489.99	738.95	1068.05	474.76
Pong	426.72	384.05	394.00	111.75	412.41	577.87	513.55	419.57
Tehri	829.79	740.04	758.25	105.36	818.65	982.26	455.17	187.00
Koteswar	612.50	598.50	600.65	0.80	NA	NA	187.00	165.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	396.93	347.67
Rihand	268.22	252.98	254.26	47.90	256.70	145.10	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	500.51	NA	509.44	NA	315.48	233.84

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 14.07.2012 :

1. Partial rain in HP, J & K , Uttranchal , Punjab, Haryana &UP.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 : 14.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER