

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.07.2012

Date of Reporting : 14.07.2012

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
35151	3885	39036	49.72	35832	3232	39064	49.83	846.0	82.51

* 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	53.53	16.01		69.54	117.68	124.65	6.98	194.19	12.73
Haryana	48.74	1.01		49.75	71.98	87.17	15.19	136.92	1.12
Rajasthan	64.56	0.33	34.55	99.44	39.09	26.89	-12.21	126.33	0.00
Delhi	23.85			23.85	72.68	70.21	-2.46	94.07	1.15
UP	76.27	13.71	2.40	92.38	92.83	113.98	21.16	206.36	62.34
Uttarakhand		20.51		20.51	8.52	10.39	1.87	30.89	2.11
HP		21.87		21.87	2.33	2.02	-0.31	23.89	0.11
J & K		15.15	0.00	15.15	11.93	12.36	0.43	27.51	2.95
Chandigarh				0.00	6.57	5.86	-0.70	5.86	0.00
Total	266.95	88.58	36.95	392.49	423.58	453.54	29.95	846.03	82.51

* 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	UI
Punjab	8341	575	332	2148	8374	500	230	1947	50.41	
Haryana	5723	0	749	825	5628	0	461	825	19.81	
Rajasthan	5238	0	-583	-557	5329	0	-384	-581	-13.66	
Delhi	3971	0	-373	598	3397	0	-610	608	15.33	
UP	7956	2950	374	-85	9802	2610	1672	15	-0.08	
Uttarakhand	1355	210	147	-116	1310	0	51	-116	-2.78	
HP	943	0	-69	-1439	867	22	-78	-1436	-34.50	
J&K	1363	150	156	-462	927	100	-199	-462	-11.59	
Chandigarh	262	0	-33	40	198	0	-35	0	1.07	
Total	35151	3885	700	952	35832	3232	1108	801	24.01	

* 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	2084	2068	46.69	1945	46.08	0.61
Rihand I STPS	1000	870	959	950	21.02	876	20.88	0.14
Rihand II STPS	1000	970	1040	1038	23.47	978	23.28	0.19
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	790	861	685	17.28	720	17.03	0.25
Dadri II STPS	980	483	636	796	11.07	461	11.24	-0.17
Unchahar I TPS	420	347	263	429	8.30	346	8.32	-0.02
Unchahar II TPS	420	386	412	441	9.27	386	9.27	0.00
Unchahar III TPS	210	194	207	220	4.65	194	4.65	0.01
ISTPP (Jhajjar)	1000	716	724	668	13.44	560	15.15	-1.71
Dadri GPS	830	593	504	456	11.86	494	11.83	0.03
Anta GPS	419	388	288	267	6.98	291	6.95	0.03
Auraiya GPS	663	412	303	300	6.96	290	6.90	0.05
Sub Total (A)	10282	8069	8281	8318	180.98	7541	181.58	-0.60
B. NPC								
NAPS	440	260	294	297	6.20	258	6.24	-0.04
RAPS- B	440	397	440	440	9.52	396	9.53	-0.01
RAPS- C	440	222	230	231	4.97	207	5.33	-0.36
Sub Total (B)	1320	879	964	968	20.68	862	21.09	-0.41
C. NHPC								
Chamera I HPS	540	534	540	540	12.81	534	12.81	0.00
Chamera II HPS	300	300	303	303	7.23	301	7.27	-0.04
Chamera III HPS	231	231	236	233	5.54	231	5.55	-0.01
Bairasuil HPS	180	182	182	182	2.52	105	2.64	-0.12
Salal-HPS	690	663	662	662	15.84	660	15.90	-0.06
Tanakpur-HPS	94	93	94	94	2.22	93	2.24	-0.01
Uri-HPS	480	472	480	480	11.60	483	11.52	0.09
Dhauliganga-HPS	280	277	280	280	6.66	277	6.72	-0.06
Dulhasi-HPS	390	56	0	0	0.00	0	1.79	-1.79
Sewa-II HPS	120	80	41	40	0.77	32	0.74	0.03
Sub Total (C)	3305	2888	2818	2814	65.20	2717	67.17	-1.97
D.NJPC								
Nathpa Jhakri	1500	1600	1605	1614	38.64	1610	38.40	0.24
Sub Total (D)	1500	1600	1605	1614	38.64	1610	38.40	0.24
E. THDC								
Tehri HPS	1000	440	663	157	5.94	248	6.00	-0.06
Koteshwar HPS	400	230	162	163	2.48	103	2.45	0.03
Sub Total (E)	1400	670	825	320	8.42	351	8.45	-0.03
F. BBMB								
Bhakra HPS	1480	825	1172	655	20.37	849	19.79	0.58
Dehar HPS	990	624	660	660	15.43	643	14.98	0.46
Pong HPS	396	210	306	162	5.16	215	5.01	0.15
Sub Total (F)	2866	1659	2138	1477	40.96	1707	39.77	1.19
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	232	5.21	217	4.90	0.31
KWHPEP HPS(IPP)	1000	0	1200	1200	28.58	1191	28.63	-0.05
Malana Stg-II HPS	100	0	110	108	2.62	109	0.00	2.62
Shree Cement TPS	300	0	246	282	6.22	259	5.53	0.69
Budhil HPS(IPP)	70	0	35	0	0.40	17		0.40
Sub Total (G)	1662	0	1821	1822	43.04	1793	39.07	3.97
H. Total Regional Entities (A-G)	22336	15765	18452	17333	397.92	16580	395.53	2.39

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	1244	1252	27.94	1164	
	Guru Nanak Dev TPS(Bhatinda)	440	210	211	4.48	187	
	Guru Hargobind Singh TPS(L.mbt)	920	942	905	21.12	880	
	Thermal (Total)	2620	2396	2368	53.53	2231	
	Total Hydro	1148	742	783	16.01	667	
	Total Punjab	3768	3138	3151	69.54	2897	
Haryana	Panipat TPS	1367	1088	1023	25.89	1079	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	381	381	9.26	386	
	RGTPP (kheadar) (IPP)	1200	558	547	13.59	566	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2027	1951	48.74	2031	
	Total Hydro	62	30	20	1.01	42	
	Total Haryana	5006	2057	1971	49.75	2073	
Rajasthan	kota TPS	1240	884	873	20.54	856	
	suratgarh TPS	1500	1109	1075	25.49	1062	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	115	95	2.69	112	
	Ramgarh GPS	111	54	53	1.38	57	
	RAPS A (NPC)	300	177	177	4.28	178	
	Barsingsar (NLC)	250	102	184	3.59	150	
	Giral LTPS	250	47	43	1.02	42	
	Rajwest LTPS (IPP)	540	243	239	5.58	233	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2731	2739	64.56	2690	
	Total Hydro	550	0	0	0.33	14	
	Wind power	1843	1435	1231	33.24	1385	
	Biomass	91	30	30	0.72	30	
	Solar	128	0	0	0.26	11	
	Renewable/Others (Total)	2062	1465	1261	34.55	1440	
	Total Rajasthan	7767	4196	4000	99.44	4143	
	UP	Anpara TPS	1630	764	916	16.30	679
		Obra TPS	1382	457	525	10.60	442
Paricha TPS		890	497	468	9.80	408	
Panki TPS		210	140	140	2.90	121	
Harduaganj TPS		665	140	114	2.60	108	
Tanda TPS (NTPC)		440	292	295	7.23	301	
Roza TPS (IPP)		1200	549	552	13.04	543	
Anpara-C (IPP)		1200	417	364	9.34	389	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	180	162	4.46	186	
Thermal (Total)		8067	3436	3536	76.27	3178	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	134	0	3.26	136	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4106	4072	92.38	3414	
Uttarakhand	Total Hydro	1303	869	876	20.51	854	
	Total Uttarakhand	1303	869	876	20.51	854	
Delhi	Rajghat TPS	135	37	0	0.28	12	
	Delhi Gas Turbine	282	225	145	3.96	165	
	Pragati Gas Turbine	330	290	289	6.64	277	
	Rithala GPS	108	29	0	0.63	26	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	580	585	12.35	514	
	Thermal (Total)	2237	1161	1019	23.85	994	
	Total Delhi	2237	1161	1019	23.85	994	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	100	107	2.50	104	
	Other Hydro	589	484	452	11.45	477	
	Total HP	1005	914	889	22	911	
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	17059	16611	392.49	15918	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1897	3372	63.05	2627	
Total Regional Availability(Gross)		54353	37408	37316	853.45	35125	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8926	7765	189.64	7902
State Control Area Hydro	5368	3307	3201	88.58	3256
Total Regional Hydro	15731	12233	10966	278.22	11157

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	0	0	200	0.00	1.09	-1.09
Gwalior-Agra (D/C)	575	787	1144	0	19.40	0.00	19.40
Zerda-Kankroli	-56	-41	24	225	0.00	2.01	-2.01
Zerda-Bhinmal	-106	-84	0	213	0.00	2.98	-2.98
Malanpur-Auraiya	-45	-37	0	113	0.00	0.67	-0.67
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	303	136	230	0	4.83	0.00	4.83
Sub Total WR	471	761			24.22	6.75	17.47
Pusauli Bypass	250	250	250	0	6.07	6.06	0.01
MZP- GKP (D/C)	524	852	992	0	18.62	0.00	18.62
Patna-Balia(D/C)	347	612	638	0	11.89	0.00	11.89
B'Sharif-Balia (D/C)	212	610	610	0	9.58	0.00	9.58
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-142	-16	142	0	0.00	0.57	-0.57
Gayaa-Fatehpur (765 Kv)	128	151	230	0	3.81	0.00	3.81
Pusauli-Sahupuri	147	177	179	0	2.96	0.00	2.96
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	1426	2611			52.93	7.35	45.57
Total IR Exch	1897	3372			77.15	14.10	63.05

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
27.28	2.97	30.25	0.26	20.35	-1.50	-8.40	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
29.01	7.68	36.69	45.57	17.47	63.05	16.56	9.80	26.36

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	0.10	3.50	33.10	99.20	56.20	10.60	0.70

<----- 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				
50.30	18.03	49.20	10.17	49.78	0.76	0.17	50.19	49.56

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	7:50	402	22:17	0.0	0.0	0.0	0.0
Gorakhpur	400	433	7:55	411	11:52	0.0	0.0	53.2	7.6
Bareilly	400	419	18:03	394	10:20	0.0	0.0	0.0	0.0
Kanpur	400	421	4:11	400	10:17	0.0	0.0	0.1	0.0
Dadri	400	416	3:02	395	12:32	0.0	0.0	0.0	0.0
Ballabgarh	400	422	3:41	398	12:32	0.0	0.0	4.7	0.0
Bawana	400	421	3:37	399	12:32	0.0	0.0	0.4	0.0
Bassi	400	430	4:02	405	12:32	0.0	0.0	34.8	0.0
Hissar	400	412	4:00	399	10:00	0.0	0.0	0.0	0.0
Moga	400	419	3:56	400	12:14	0.0	0.0	0.0	0.0
Abdullapur	400	420	3:14	400	12:16	0.0	0.0	0.0	0.0
Nalagarh	400	415	3:43	394	12:14	0.0	0.0	0.0	0.0
Kishenpur	400	416	7:50	404	14:27	0.0	0.0	0.0	0.0
Wagoora	400	410	23:52	397	15:31	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	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
Koteshwar	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 13.07.2012 :

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 :

1. 500 MVA ICT-II (Manesar) 1st time test charged on no load at 12.36 hrs to 13.40 hrs on 13.07.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 13.07.2012

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER