

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.07.2012

Date of Reporting : 23.07.2012

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
35947	4140	40087	49.78	36903	4639	41542	49.43	857.0	110.73

* 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	47.76	17.94		65.70	115.13	117.54	2.41	183.24	28.43
Haryana	32.75	0.96		33.71	71.73	82.93	11.20	116.64	25.16
Rajasthan	64.20	0.29	5.58	70.07	53.27	72.28	19.02	142.36	5.97
Delhi	25.86			25.86	75.54	66.67	-8.88	92.53	0.12
UP	74.21	11.47	1.20	86.87	103.53	146.74	43.21	233.62	48.11
Uttarakhand		15.94		15.94	11.21	14.01	2.80	29.95	0.00
HP		20.42		20.42	4.39	3.24	-1.14	23.66	0.00
J & K		15.18	0.00	15.18	13.24	14.33	1.08	29.51	2.95
Chandigarh				0.00	5.94	5.48	-0.46	5.48	0.00
Total	244.78	82.20	6.78	333.76	453.97	523.23	69.26	856.99	110.73

* 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	7399	1248	-84	2192	7653	1235	-112	2192	52.61	
Haryana	5283	459	743	1047	4341	1913	-28	1047	24.81	
Rajasthan	6117	313	1097	-653	5727	306	1458	-677	-16.00	
Delhi	4303	0	-100	632	4212	0	-386	642	14.94	
UP	8828	1970	1238	92	11289	1085	2271	192	2.42	
Uttarakhand	1356	0	270	0	1414	0	197	0	0.00	
HP	878	0	-172	-1689	967	0	-10	-1714	-40.26	
J&K	1543	150	278	-374	1066	100	-93	-374	-9.22	
Chandigarh	240	0	-8	40	235	0	12	0	1.07	
Total	35947	4140	3261	1287	36903	4639	3308	1308	30.37	

* 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	1743	2004	1746	42.27	1761	41.82	0.45
Rihand I STPS	1000	336	360	360	8.14	339	8.05	0.09
Rihand II STPS	1000	935	1003	1006	22.62	942	22.44	0.18
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	769	823	833	18.61	775	18.46	0.15
Dadri II STPS	980	745	909	619	18.16	757	17.88	0.27
Unchahar I TPS	420	317	372	330	7.68	320	7.61	0.07
Unchahar II TPS	420	356	406	403	8.64	360	8.54	0.10
Unchahar III TPS	210	162	193	166	3.92	163	3.89	0.03
ISTPP (Jhajjar)	1000	870	889	890	20.33	847	20.67	-0.34
Dadri GPS	830	744	741	761	17.54	731	17.84	-0.30
Anta GPS	419	388	385	394	9.29	387	9.28	0.00
Auraiya GPS	663	387	293	208	6.92	288	7.74	-0.82
Sub Total (A)	10282	7751	8378	7716	184.12	7672	184.23	-0.11
B. NPC								
NAPS	440	255	292	297	6.18	258	6.12	0.06
RAPS- B	440	197	219	221	4.77	199	4.73	0.04
RAPS- C	440	365	470	315	8.30	346	8.76	-0.46
Sub Total (B)	1320	817	981	833	19.25	802	19.61	-0.36
C. NHPC								
Chamera I HPS	540	356	360	360	8.47	353	8.59	-0.12
Chamera II HPS	300	300	302	302	7.20	300	7.23	-0.03
Chamera III HPS	231	231	215	214	5.53	230	5.43	0.10
Bairasuil HPS	180	182	120	120	2.16	90	1.94	0.22
Salal-HPS	690	607	658	658	14.59	608	14.55	0.04
Tanakpur-HPS	94	92	90	73	1.99	83	2.14	-0.14
Uri-HPS	480	471	480	480	11.60	483	11.59	0.01
Dhauliganga-HPS	280	277	280	281	6.71	279	6.78	-0.07
Dulhasi-HPS	390	387	414	308	9.26	386	9.33	-0.08
Sewa-II HPS	120	80	31	39	0.71	30	0.69	0.02
Sub Total (C)	3305	2983	2950	2835	68.21	2842	68.27	-0.05
D.NJPC								
Nathpa Jhakri	1500	1605	1613	1617	38.71	1613	38.52	0.18
Sub Total (D)	1500	1605	1613	1617	38.71	1613	38.52	0.18
E. THDC								
Tehri HPS	1000	408	323	469	5.02	209	5.00	0.02
Koteshwar HPS	400	230	0	220	1.93	80	1.95	-0.02
Sub Total (E)	1400	638	323	689	6.95	290	6.95	0.00
F. BBMB								
Bhakra HPS	1480	775	1199	556	11.99	794	18.61	0.44
Dehar HPS	990	606	825	630	14.93	622	14.56	0.38
Pong HPS	396	235	300	159	5.73	239	5.01	0.72
Sub Total (F)	2866	1617	2324	1345	39.71	1655	38.17	1.54
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	149	4.15	173	3.56	0.59
KWHPEP HPS(IPP)	1000	0	1200	1200	28.78	1199	28.12	0.65
Malana Stg-II HPS	100	87	105	106	2.51	105	2.09	0.43
Shree Cement TPS	300	0	107	0	0.83	35	0.00	0.83
Budhil HPS(IPP)	70	70	70	35	1.14	48		1.14
Sub Total (G)	1662	87	1712	1490	37.40	1559	33.77	3.63
H. Total Regional Entities (A-G)	22336	15498	18281	16525	394.35	16431	389.51	4.83

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	1040	1037	23.05	960
	Guru Nanak Dev TPS(Bhatinda)	440	205	209	4.44	185
	Guru Hargobind Singh TPS(L.mbt)	920	930	927	20.28	845
	Thermal (Total)	2620	2175	2173	47.76	1990
	Total Hydro	1148	747	749	17.94	747
	Total Punjab	3768	2922	2922	65.70	2738
Haryana	Panipat TPS	1367	1001	1019	23.70	988
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	374	383	9.05	377
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1375	1402	32.75	1365
	Total Hydro	62	26	26	0.96	40
Total Haryana	5006	1401	1428	33.71	1405	
Rajasthan	kota TPS	1240	875	874	20.68	862
	suratgarh TPS	1500	645	852	19.26	802
	Chabra TPS	500	225	225	5.30	221
	Dholpur GPS	330	276	144	3.99	166
	Ramgarh GPS	111	55	0	1.36	57
	RAPS A (NPC)	300	170	170	4.25	177
	Barsingsar (NLC)	250	113	115	2.55	106
	Giral LTPS	250	94	27	1.80	75
	Rajwest LTPS (IPP)	540	243	230	5.03	209
	VSLLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2696	2637	64.20	2675
	Total Hydro	550	0	41	0.29	12
	Wind power	1843	0	147	4.26	177
	Biomass	91	30	30	0.73	30
	Solar	128	0	0	0.30	12
	Renewable/Others (Total)	2062	30	177	5.58	232
	Total Rajasthan	7767	2726	2855	70.07	2920
	UP	Anpara TPS	1630	570	565	14.50
Obra TPS		1382	438	441	10.60	442
Paricha TPS		890	482	348	10.40	433
Panki TPS		210	155	141	3.50	146
Harduaganj TPS		665	31	32	0.70	29
Tanda TPS (NTPC)		440	296	285	7.10	296
Roza TPS (IPP)		1200	733	550	15.16	632
Anpara-C (IPP)		1200	236	413	8.15	339
Bajaj Energy Pvt.Ltd(IPP) TPS		450	167	153	4.10	171
Thermal (Total)		8067	3108	2928	74.21	3092
Vishnuparyag HPS (IPP)		400	397	436	10.26	427
Other Hydro		527	64	0	1.21	51
Cogeneration		981	50	50	1.20	50
Total UP		9975	3619	3414	86.87	3192
Uttarakhand	Total Hydro	1303	640	701	15.94	664
	Total Uttarakhand	1303	640	701	15.94	664
Delhi	Rajghat TPS	135	48	54	1.13	47
	Delhi Gas Turbine	282	211	185	4.60	192
	Pragati Gas Turbine	330	271	283	5.82	242
	Rithala GPS	108	0	21	0.05	2
	Bawana GPS	677	241	428	2.43	101
	Badarpur TPS (NTPC)	705	540	530	11.83	493
	Thermal (Total)	2237	1311	1501	25.86	1078
	Total Delhi	2237	1311	1501	25.86	1078
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	106	69	2.17	90
	Other Hydro	589	438	445	10.34	431
	Total HP	1005	874	844	20	851
J & K	Baglihar HPS (IPP)	450	436	440	10.45	435
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	621	650	15.18	633
Total State Control Area Generation		32017	14114	14315	333.76	13479
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			5476	6604	149.73	6239
Total Regional Availability(Gross)		54353	37871	37444	877.84	36149

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8745	7941	189.01	7875
State Control Area Hydro	5368	2972	3011	82.20	2998
Total Regional Hydro	15731	11717	10952	271.21	10873

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	500	500	0	11.97	0.00	11.97
Gwalior-Agra (D/C)	1000	1297	1297	0	26.91	0.00	26.91
Zerda-Kankroli	406	393	446	0	7.54	0.00	7.54
Zerda-Bhinmal	456	511	607	0	9.86	0.00	9.86
Malanpur-Auraiya	-4	-29	0	32	0.00	0.22	-0.22
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	590	593	595	0	14.29	0.00	14.29
Sub Total WR	2948	3265			70.57	0.22	70.35
Pusauli Bypass	250	250	250	0	4.44	0.00	4.44
MZP- GKP (D/C)	866	1206	1300	0	26.87	0.00	26.87
Patna-Balia(D/C)	640	656	665	0	15.61	0.00	15.61
B'Sharif-Balia (D/C)	428	399	718	0	14.63	0.00	14.63
Barh - Balia(D/C)	0	402	408	0	8.19	0.00	8.19
Pusauli-Balia	8	100	143	0	1.86	0.00	1.86
Gayaa-Fatehpur (765 Kv)	233	191	339	0	5.68	0.00	5.68
Pusauli-Sahupuri	148	160	171	0	3.07	0.00	3.07
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2528	3339			80.35	0.97	79.38
Total IR Exch	5476	6604			150.92	1.19	149.73

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
21.24	3.47	24.71	-1.15	38.85	10.88	10.35	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
34.44	50.77	85.20	79.38	70.35	149.73	44.95	19.58	64.53

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	1.32	5.73	24.97	70.33	74.75	29.39	6.50	0.28

<----- 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				
50.39	8.05	48.88	14.30	49.65	1.87	0.22	50.13	49.10

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	08:03	399	00:09	0.0	0.0	0.0	0.0
Gorakhpur	400	431	20:32	392	02:04	0.0	0.0	8.8	0.3
Bareilly	400	422	08:05	386	00:08	0.0	0.6	0.0	0.0
Kanpur	400	420	08:03	395	00:08	0.0	0.0	0.0	0.0
Dadri	400	417	08:04	394	14:28	0.0	0.0	0.0	0.0
Ballabgarh	400	422	08:03	395	14:28	0.0	0.0	1.2	0.0
Bawana	400	421	07:32	396	14:28	0.0	0.0	0.6	0.0
Bassi	400	424	00:44	394	14:22	0.0	0.0	5.1	0.0
Hissar	400	416	06:01	386	14:27	0.0	1.1	0.0	0.0
Moga	400	418	06:01	394	14:22	0.0	0.0	0.0	0.0
Abdullapur	400	421	07:32	400	14:27	0.0	0.0	0.3	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	416	08:02	399	14:27	0.0	0.0	0.0	0.0
Wagoora	400	418	08:03	393	20:35	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	474.64	345.61	493.18	838.00	867.06	663.01
Pong	426.72	384.05	392.32	84.61	412.73	588.94	159.79	482.86
Tehri	829.79	740.04	765.20	165.00	818.65	982.26	345.35	151.00
Koteshwar	612.50	598.50	599.80	0.45	NA	NA	159.00	133.00
Chamera-I	760.00	748.75	750.48	10.00	NA	NA	261.42	270.22
Rihand	268.22	252.98	254.02	38.60	257.04	160.70	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.72	NA	509.17	NA	319.44	309.93

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.07.2012 :

1: Normal 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 : 22.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER