

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.07.2012
Date of Reporting : 09.07.2012

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
33531	2690	36221	49.65	34450	1320	35770	50.02	812.8	48.78

* 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	52.05	12.69		64.74	115.09	124.12	9.03	188.86	6.96
Haryana	38.42	0.70		39.12	76.13	83.73	7.60	122.85	3.50
Rajasthan	59.88	0.00	10.95	70.83	50.39	75.45	25.06	146.28	0.45
Delhi	21.59			21.59	68.70	59.12	-9.58	80.72	0.02
UP	66.78	12.79	2.40	81.97	94.55	110.21	15.66	192.18	34.70
Uttarakhand		18.74		18.74	9.84	11.02	1.18	29.76	0.00
HP		21.72		21.72	1.92	-1.06	-2.98	20.66	0.21
J & K		14.98	0.00	14.98	19.77	11.81	-7.96	26.79	2.95
Chandigarh				0.00	6.18	4.68	-1.50	4.68	0.00
Total	238.72	81.61	13.35	333.68	442.58	479.10	36.51	812.78	48.78

* 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	
Punjab	8126	655	415	2161	7772	0	-67	2161	51.86
Haryana	5046	125	227	1020	4740	370	20	1020	24.49
Rajasthan	5429	0	609	-457	6562	0	1670	-481	-11.26
Delhi	3606	0	-270	511	3154	0	-511	511	13.04
UP	7702	1760	447	-85	9080	850	1542	15	-0.08
Uttarakhand	1433	0	195	-116	1276	0	82	-116	-2.78
HP	753	0	-121	-1515	816	0	-189	-1512	-35.95
J&K	1208	150	-331	-337	875	100	-468	-337	-8.34
Chandigarh	228	0	-33	40	175	0	-50	0	1.07
Total	33531	2690	1139	1222	34450	1320	2029	1261	32.05

* 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	1915	2053	2054	45.53	1897	45.96	-0.43
	Rihand I STPS	1000	885	954	945	21.13	881	20.88	0.25
	Rihand II STPS	1000	960	1029	1030	23.06	961	22.68	0.38
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	793	502	468	10.37	432	10.26	0.11
	Dadri II STPS	980	963	1024	765	18.73	780	18.98	-0.25
	Unchahar I TPS	420	403	428	421	8.88	370	8.91	-0.03
	Unchahar II TPS	420	403	437	437	8.40	350	8.26	0.14
	Unchahar III TPS	210	201	216	215	4.17	174	4.14	0.02
	ISTPP (Jhajhar)	1000	940	754	733	16.44	685	16.83	-0.38
	Dadri GPS	830	781	475	432	11.03	460	11.02	0.01
	Anta GPS	419	388	256	146	4.38	183	4.30	0.08
	Auraiya GPS	663	613	293	257	6.10	254	6.09	0.01
	Sub Total (A)	10282	9244	8421	7903	178.23	7426	178.31	-0.08
B. NPC	NAPS	440	257	299	301	6.31	263	6.17	0.15
	RAPS- B	440	398	442	440	9.51	396	9.55	-0.04
	RAPS- C	440	220	430	228	6.17	257	5.28	0.89
	Sub Total (B)	1320	875	1171	969	21.99	916	21.00	0.99
C. NHPC	Chamera I HPS	540	534	540	540	12.83	534	12.81	0.01
	Chamera II HPS	300	300	302	302	7.18	299	7.23	-0.06
	Chamera III HPS	231	231	237	235	5.55	231	5.42	0.14
	Bairasuil HPS	180	182	180	120	2.79	116	2.88	-0.09
	Salal-HPS	690	663	662	662	15.94	664	15.92	0.02
	Tanakpur-HPS	94	90	90	88	2.17	91	2.24	-0.07
	Uri-HPS	480	471	480	479	11.55	481	11.63	-0.08
	Dhauliganga-HPS	280	277	284	282	6.66	278	6.63	0.03
	Dulhasti-HPS	390	387	410	408	9.22	384	9.28	-0.06
	Sewa-II HPS	120	80	80	30	0.82	34	0.88	-0.07
Sub Total (C)	3305	3215	3265	3146	74.71	3113	74.93	-0.22	
D.NJPC	Nathpa Jhakri	1500	1600	1616	1610	38.54	1606	38.40	0.14
	Sub Total (D)	1500	1600	1616	1610	38.54	1606	38.40	0.14
E. THDC	Tehri HPS	1000	400	461	125	4.87	203	5.00	-0.13
	Koteswar HPS	400	230	172	170	2.01	84	2.00	0.01
	Sub Total (E)	1400	630	633	295	6.88	287	7.00	-0.12
F. BBMB	Bhakra HPS	1480	912	1047	779	22.20	925	21.88	0.32
	Dehar HPS	990	603	825	660	15.08	628	14.47	0.61
	Pong HPS	396	176	300	206	4.43	185	5.01	-0.58
	Sub Total (F)	2866	1690	2172	1645	41.71	1738	41.36	0.35
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	226	4.98	208	5.16	-0.18
	KWHEP HPS(IPP)	1000	0	1200	1200	28.60	1192	28.32	0.28
	Malana Stg-II HPS	100	0	108	109	2.60	108	0.00	2.60
	Shree Cement TPS	300	0	221	143	4.64	193	5.15	-0.51
	Budhil HPS(IPP)	70	0	36	35	1.02	43		1.02
	Sub Total (G)	1662	0	1795	1713	41.84	1743	38.64	3.20
H. Total Regional Entities (A-G)	22336	17254	19073	17281	403.90	16829	399.63	4.27	

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	1258	1259	27.41	1142
	Guru Nanak Dev TPS(Bhatinda)	440	210	207	4.45	185
	Guru Hargobind Singh TPS(L.mbt)	920	937	940	20.20	841
	Thermal (Total)	2620	2405	2406	52.05	2169
	Total Hydro	1148	545	473	12.69	529
	Total Punjab	3768	2950	2879	64.74	2697
Haryana	Panipat TPS	1367	937	826	20.66	861
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	190	191	4.61	192
	RGTPP (khedar) (IPP)	1200	490	549	13.15	548
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1617	1566	38.42	1601
	Total Hydro	62	22	21	0.70	29
	Total Haryana	5006	1639	1587	39.12	1630
	Rajasthan	kota TPS	1240	868	682	18.53
suratgarh TPS		1500	1036	891	21.46	894
Chabra TPS		500	0	0	0.00	0
Dholpur GPS		330	147	80	2.67	111
Ramgarh GPS		111	56	55	1.40	58
RAPS A (NPC)		300	190	190	4.29	179
Barsingar (NLC)		250	185	186	4.79	200
Giral LTPS		250	64	63	1.33	56
Rajwest LTPS (IPP)		540	243	270	5.41	225
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	2789	2417	59.88	2495
Total Hydro		550	0	0	0.00	0
Wind power		1843	87	631	10.13	422
Biomass		91	22	22	0.54	22
Solar		128	0	0	0.29	12
Renewable/Others (Total)		2062	109	653	10.95	456
Total Rajasthan		7767	2898	3070	70.83	2951
UP	Anpara TPS	1630	788	854	18.90	788
	Obra TPS	1382	463	428	11.10	463
	Paricha TPS	890	522	513	12.30	513
	Panki TPS	210	68	59	1.40	58
	Harduaganj TPS	665	32	32	0.80	33
	Tanda TPS (NTPC)	440	191	191	4.80	200
	Roza TPS (IPP)	1200	270	275	6.75	281
	Anpara-C (IPP)	1200	315	315	7.47	311
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	153	173	3.26	136
	Thermal (Total)	8067	2802	2840	66.78	2782
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435
	Other Hydro	527	71	0	2.35	98
	Cogeneration	981	100	100	2.40	100
	Total UP	9975	3409	3376	81.97	2980
	Uttarakhand	Total Hydro	1303	833	792	18.74
Total Uttarakhand		1303	833	792	18.74	781
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	146	149	3.64	152
	Pragati Gas Turbine	330	284	293	7.00	292
	Rithala GPS	108	29	28	0.68	28
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	515	470	10.28	428
	Thermal (Total)	2237	974	940	21.59	900
	Total Delhi	2237	974	940	21.59	900
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	95	101	2.33	97
	Other Hydro	589	471	493	11.47	478
	Total HP	1005	896	924	22	905
J & K	Baqilhar HPS (IPP)	450	438	418	10.43	435
	Other Hydro	323	178	197	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	616	615	14.98	624
Total State Control Area Generation		32017	14215	14183	333.68	13468
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3325	4725	103.18	4299
Total Regional Availability(Gross)		54353	36613	36189	840.77	34597

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9224	8231	198.02	8251
State Control Area Hydro	5368	2983	2825	71.17	2965
Total Regional Hydro	15731	12207	11056	269.19	11216

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	
Vindhyachal B/B	50	100	400	0	5.97	0.00	5.97
Gwalior-Agra (D/C)	800	1244	1244	0	24.31	0.00	24.31
Zerda-Kankroli	107	312	319	0	4.21	0.00	4.21
Zerda-Bhinmal	167	336	410	0	5.45	0.00	5.45
Malanpur-Auraiya	-87	29	29	87	0.00	0.15	-0.15
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	1037	2021			39.94	0.15	39.79
Pusaali Bypass	250	250	250	0	6.05	0.00	6.05
MZP- GKP (D/C)	710	900	1100	0	21.29	0.00	21.29
Patna-Balia(D/C)	702	710	776	0	16.35	0.00	16.35
B'Sharif-Balia (D/C)	528	561	661	0	12.43	0.00	12.43
Barh - Balia(D/C)	0	0	402	0	1.06	0.00	1.06
Pusaali-Balia	16	49	80	0	0.63	0.00	0.63
Gaya-Fatehpur (765 Kv)	0	140	227	0	3.80	0.00	3.80
Pusaali-Sahupuri	122	119	144	0	2.81	0.00	2.81
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-25	0	47	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2288	2704			64.42	1.03	63.39
Total IR Exch	3325	4725			104.36	1.18	103.18

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
29.18	3.72	32.89	3.97	31.37	0.06	-1.43	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
36.93	24.44	61.37	63.39	39.79	103.18	26.46	15.35	41.81

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	3.40	14.80	94.70	83.30	29.70	1.90

<----- 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)
50.40	18.04	49.21	20.06	49.89	0.48	0.19	50.25	49.47

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	407	18:29	399	12:50	0.0	0.0	0.0	0.0
Gorakhpur	400	427	7:59	397	22:39	0.0	0.0	35.0	0.0
Bareilly	400	420	18:04	393	22:10	0.0	0.0	0.0	0.0
Kanpur	400	416	18:03	397	22:06	0.0	0.0	0.0	0.0
Dadri	400	405	20:59	397	23:05	0.0	0.0	0.0	0.0
Ballabgarh	400	420	18:04	400	22:06	0.0	0.0	0.0	0.0
Bawana	400	416	18:03	399	23:05	0.0	0.0	0.0	0.0
Bassi	400	429	18:03	406	6:43	0.0	0.0	27.2	0.0
Hissar	400	412	18:04	390	8:21	0.0	0.0	0.0	0.0
Moga	400	413	3:50	397	8:20	0.0	0.0	0.0	0.0
Abdullapur	400	416	18:03	398	8:29	0.0	0.0	0.0	0.0
Nalagarh	400	411	3:49	395	8:22	0.0	0.0	0.0	0.0
Kishenpur	400	412	3:48	400	15:05	0.0	0.0	0.0	0.0
Wagooa	400	410	3:50	391	20:40	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	470.20	272.43	488.51	690.35	1192.02	828.95
Pong	426.72	384.05	393.68	106.94	411.98	566.84	651.43	434.52
Tehri	829.79	740.04	751.80	63.22	818.65	982.26	434.61	153.00
Koteshwar	612.50	598.50	602.80	1.33	NA	NA	178.00	232.00
Chamera-I	760.00	748.75	754.78	NA	NA	NA	420.91	347.90
Rihand	268.22	252.98	254.20	45.50	256.61	141.20	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	499.33	NA	510.08	NA	315.48	323.52

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 08.07.2012 :

1. Scattered Rains NR.

XII. Synchronisation of new generating units :

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

Bawana (DTL): 315 MVA ICT- 6 (New) charged at 19:08 hrs of dt. 08.07.2012 on no load.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 08.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER