

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.08.2012

Date of Reporting : 25.08.2012

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
35181	1880	37060	49.97	31266	1044	32310	50.17	781.5	33.22

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages *
Punjab	46.04	13.30		59.34	107.16	109.15	1.99	168.48	1.80
Haryana	54.17	0.77		54.94	62.87	61.82	-1.05	116.76	0.59
Rajasthan	59.15	2.06	19.05	80.25	37.83	33.92	-3.91	114.17	0.00
Delhi	24.28			24.28	66.82	60.91	-5.92	85.19	0.06
UP	71.64	14.33	0.48	86.45	128.43	122.48	-5.96	208.93	28.60
Uttarakhand		17.21		17.21	14.24	14.29	0.05	31.50	0.48
HP		25.13		25.13	-0.22	-1.63	-1.41	23.50	0.00
J & K		15.29	0.00	15.29	15.46	12.58	-2.88	27.86	1.70
Chandigarh				0.00	5.66	5.08	-0.57	5.08	0.00
Total	255.27	88.08	19.53	362.88	438.26	418.59	-19.67	781.47	33.22

* 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	7839	450	69	1839	6837	0	74	2190	47.16	
Haryana	5153	211	-85	970	4588	0	-65	971	23.15	
Rajasthan	5483	0	112	-74	4433	0	-478	-42	-4.73	
Delhi	3849	15	-312	543	3014	0	-238	140	10.31	
UP	8581	1024	-533	1018	9279	1044	-233	1493	30.49	
Uttarakhand	1487	80	154	-45	1246	0	-24	-69	-0.44	
HP	1053	0	-33	-1127	883	0	-19	-1178	-26.46	
J&K	1490	100	20	-308	826	0	-335	-371	-8.55	
Chandigarh	246	0	-19	32	161	0	-46	-2	0.64	
Total	35181	1880	-628	2847	31266	1044	-1363	3133	71.57	

* 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	1732	2061	1825	41.40	1725	41.31	0.09
Rihand I STPS	1000	374	500	366	8.53	356	8.49	0.04
Rihand II STPS	1000	867	1023	890	19.53	814	19.52	0.01
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	467	620	458	10.63	443	10.53	0.10
Dadri II STPS	980	460	480	351	9.20	383	9.62	-0.42
Unchahar I TPS	420	389	425	333	8.29	345	8.37	-0.08
Unchahar II TPS	420	398	440	315	8.02	334	7.97	0.05
Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajjhar)	1000	465	463	351	8.12	338	8.43	-0.31
Dadri GPS	830	787	678	394	10.81	450	11.86	-1.05
Anta GPS	419	261	245	232	4.72	197	4.74	-0.02
Auraiya GPS	663	610	312	317	7.19	299	8.34	-1.16
Sub Total (A)	10282	6809	7247	5832	136.43	5684	139.18	-2.75
B. NPC								
NAPS	440	261	297	303	6.35	264	6.26	0.08
RAPS- B	440	384	423	427	9.14	381	9.22	-0.08
RAPS- C	440	410	454	457	9.62	401	9.84	-0.22
Sub Total (B)	1320	1055	1174	1187	25.10	1046	25.32	-0.22
C. NHPC								
Chamera I HPS	540	534	540	540	12.83	535	12.82	0.01
Chamera II HPS	300	300	301	301	7.20	300	7.20	0.00
Chamera III HPS	231	154	155	156	3.71	155	3.71	0.00
Bairasuil HPS	180	182	170	182	4.26	177	4.15	0.11
Salai-HPS	690	648	649	648	15.34	639	15.47	-0.13
Tanakpur-HPS	94	92	96	96	2.29	95	2.24	0.04
Uri-HPS	480	382	410	400	8.92	372	9.05	-0.13
Dhauliganga-HPS	280	277	282	279	6.71	279	6.77	-0.06
Dulhasti-HPS	390	387	403	396	9.20	383	9.23	-0.03
Sewa-II HPS	120	80	81	80	1.60	67	1.56	0.04
Sub Total (C)	3305	3035	3087	3078	72.05	3002	72.18	-0.14
D.NJPC								
Natpha Jhakri	1500	1605	1620	1621	37.58	1566	37.29	0.30
Sub Total (D)	1500	1605	1620	1621	37.58	1566	37.29	0.30
E. THDC								
Tehri HPS	1000	1050	1064	1056	24.88	1037	25.00	-0.12
Koteshwar HPS	400	392	400	382	9.10	379	9.28	-0.18
Sub Total (E)	1400	1442	1464	1438	33.99	1416	34.28	-0.29
F. BBMB								
Bhakra HPS	1480	741	1237	553	18.21	759	17.77	0.44
Dehar HPS	990	617	825	630	15.63	651	14.81	0.83
Pong HPS	396	194	366	180	4.78	199	5.01	-0.23
Sub Total (F)	2866	1552	2428	1363	38.62	1609	37.58	1.04
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	226	196	4.81	200	4.63	0.18
KWHEP HPS(IPP)	1000	0	1000	1200	25.76	1073	26.82	-1.06
Malana Stg-II HPS	100	0	107	110	2.60	108	2.27	0.33
Shree Cement TPS	300	0	295	258	7.21	300	6.77	0.44
Bdhil HPS(IPP)	70	0	70	70	1.66	69		1.66
Sub Total (G)	1662	0	1698	1834	42.03	1751	40.49	1.54
H. Total Regional Entities (A-G)	22336	15497	18718	16353	385.79	16075	386.32	-0.53

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	1014	910	22.21	925	
	Guru Nanak Dev TPS(Bhatinda)	440	203	203	4.31	179	
	Guru Hargobind Singh TPS(L.mbt)	920	926	718	19.52	813	
	Thermal (Total)	2620	2143	1831	46.04	1918	
	Total Hydro	1148	822	378	13.30	554	
	Total Punjab	3768	2965	2209	59.34	2472	
Haryana	Panipat TPS	1367	865	910	21.61	900	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	84	103	2.16	90	
	RGTPP (kheadar) (IPP)	1200	944	746	21.02	876	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	404	351	9.38	391	
	Thermal (Total)	4944	2297	2110	54.17	2257	
	Total Hydro	62	20	20	0.77	32	
	Total Haryana	5006	2317	2130	54.94	2289	
Rajasthan	kota TPS	1240	673	624	14.96	623	
	suratgarh TPS	1500	733	576	16.56	690	
	Chabra TPS	500	422	368	9.13	381	
	Dholpur GPS	330	144	130	3.39	141	
	Ramgarh GPS	111	69	61	1.72	71	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	0	106	0.54	23	
	Giral LTPS	250	74	69	1.52	64	
	Rajwest LTPS (IPP)	540	473	475	11.33	472	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2588	2409	59.15	2464	
	Total Hydro	550	111	30	2.06	86	
	Wind power	1843	555	732	16.34	681	
	Biomass	91	23	23	0.55	23	
	Solar	128	0	0	0.10	4	
	Renewable/Others (Total)	2062	578	755	19.05	794	
	Total Rajasthan	7767	3277	3194	80.25	3344	
	UP	Anpara TPS	1630	864	809	20.90	871
		Obra TPS	1382	395	438	10.20	425
		Paricha TPS	890	413	416	9.90	413
Panki TPS		210	99	117	2.50	104	
Harduaganj TPS		665	87	29	1.20	50	
Tanda TPS (NTPC)		440	192	196	4.81	200	
Roza TPS (IPP)		1200	824	810	19.16	798	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	112	115	2.97	124	
Thermal (Total)		8067	2986	2930	71.64	2985	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	179	0	3.88	161	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	3621	3386	86.45	3167	
Uttarakhand		Total Hydro	1303	766	734	17.21	717
	Total Uttarakhand	1303	766	734	17.21	717	
Delhi	Raighat TPS	135	48	50	1.11	46	
	Delhi Gas Turbine	282	144	71	2.95	123	
	Pragati Gas Turbine	330	145	145	3.61	150	
	Rithala GPS	108	37	37	0.62	26	
	Bawana GPS	677	225	221	5.23	218	
	Badarpur TPS (NTPC)	705	520	490	10.76	448	
	Thermal (Total)	2237	1119	1014	24.28	1012	
	Total Delhi	2237	1119	1014	24.28	1012	
HP	Baspa HPS (IPP)	330	330	330	7.85	327	
	Malana HPS (IPP)	86	108	108	2.57	107	
	Other Hydro	589	626	562	14.71	613	
	Total HP	1005	1064	1000	25	1047	
J & K	Baglihar HPS (IPP)	450	436	449	10.56	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	621	659	15.29	637	
Total State Control Area Generation		32017	15750	14326	362.88	14684	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2936	2281	57.00	2375	
Total Regional Availability(Gross)		54353	37404	32960	805.67	33134	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9932	9006	215.40	8975
State Control Area Hydro	5368	3583	2821	88.08	3234
Total Regional Hydro	15731	13515	11827	303.48	12209

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	Import	Export	
Vindhychal B/B	300	-100	300	100	1.92	1.07	0.85		
Gwalior-Agra (D/C)	454	416	700	0	10.67	0.00	10.67		
Zerda-Kankroli	-78	-171	0	281	0.00	4.33	-4.33		
Zerda-Bhinmal	-94	-122	0	276	0.00	4.17	-4.17		
Malanpur-Auraiya	-64	-43	0	99	0.00	1.30	-1.30		
Badod-Kota/Morak	22	-23	23	69	0.00	0.90	-0.90		
Mundra-Mohindergarh(HVDC)	558	549	580	0	13.42	0.00	13.42		
Sub Total WR	1098	506			26.01	11.77	14.24		
Pusauli Bypass	200	300	300	0	6.45	0.00	6.45		
MZP- GKP (D/C)	712	738	876	0	16.36	0.00	16.36		
Patna-Balia(D/C)	406	305	406	0	7.12	0.00	7.12		
B'Sharif-Balia (D/C)	334	366	464	0	7.53	0.00	7.53		
Barh - Balia(D/C)	0	0	278	0	0.91	0.00	0.91		
Pusauli-Balia	-51	-62	0	119	0.00	1.25	-1.25		
Gaya-Fatehpur (765 Kv)	144	34	144	0	2.89	0.00	2.89		
Pusauli-Sahupuri	139	119	215	0	3.78	0.00	3.78		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-46	-25	0	47	0.00	1.03	-1.03		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1838	1775			45.04	2.28	42.76		
Total IR Exch	2936	2281			71.05	14.05	57.00		

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
32.54	3.71	36.25	16.77	28.81	-0.53	-12.15	2.21	-2.17
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
54.70	13.72	68.42	42.76	14.24	57.00	-11.94	0.52	-11.42

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	0.00	2.47	92.71	90.24	80.96	7.29

<----- 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				
50.63	7.05	49.53	19.21	50.11	0.33	0.12	50.41	49.75

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	417	7:38	402	19:21	0.0	0.0	0.0	0.0
Gorakhpur	400	430	7:39	409	0:08	0.0	0.0	19.5	0.0
Bareilly	400	422	5:05	398	11:51	0.0	0.0	0.4	0.0
Kanpur	400	424	7:36	402	19:34	0.0	0.0	3.9	0.0
Dadri	400	417	5:05	398	11:45	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	5:05	401	11:48	0.0	0.0	2.5	0.0
Bawana	400	419	5:05	401	11:33	0.0	0.0	0.0	0.0
Bassi	400	435	0:55	407	19:20	0.0	0.0	69.2	4.0
Hissar	400	412	0:55	397	11:48	0.0	0.0	0.0	0.0
Moga	400	413	0:59	359	12:22	0.1	0.1	0.0	0.0
Abdullapur	400	412	5:04	399	11:32	0.0	0.0	0.0	0.0
Nalagarh	400	409	0:56	396	11:44	0.0	0.0	0.0	0.0
Kishenpur	400	412	0:57	400	19:21	0.0	0.0	0.0	0.0
Wagoora	400	412	0:57	390	20:09	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	492.61	817.90	508.88	1500.16	1625.61	601.14
Pong	426.72	384.05	413.01	600.05	422.25	990.81	1765.61	302.17
Tehri	829.79	740.04	819.25	986.26	818.65	982.26	661.44	557.00
Koteshwar	612.50	598.50	599.90	0.46	NA	NA	385.00	367.00
Chamera-I	760.00	748.75	758.00	NA	NA	NA	565.00	348.51
Rihand	268.22	252.98	NA	NA	263.07	484.00	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	505.63	NA	519.73	NA	710.47	93.19

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.08.2012 :

1: Partial Rains 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 : 24.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER