

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.08.2012

Date of Reporting : 28.08.2012

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
34178	2092	36269	50.06	30515	850	31365	50.38	768.4	21.31

* 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 * (MU)
Punjab	45.56	9.05		54.61	103.29	105.21	1.92	159.81	1.80
Haryana	39.51	0.71		40.21	61.44	59.60	-1.84	99.81	0.59
Rajasthan	54.98	2.35	7.47	64.80	49.11	52.26	3.15	117.06	0.00
Delhi	18.95			18.95	68.20	64.85	-3.35	83.80	0.02
UP	80.91	14.33	0.48	95.72	127.42	126.29	-1.13	222.01	16.75
Uttarakhand		16.40		16.40	13.18	13.80	0.62	30.19	0.45
HP		24.28		24.28	0.41	-0.73	-1.14	23.55	0.00
J & K		15.22	0.00	15.22	18.73	12.54	-6.18	27.77	1.70
Chandigarh				0.00	5.73	4.44	-1.29	4.44	0.00
Total	239.90	82.34	7.95	330.19	447.51	438.26	-9.25	768.45	21.31

* 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	7354	450	200	1840	6563	0	110	2358	49.59	
Haryana	4649	238	89	891	4104	0	4	873	21.02	
Rajasthan	5522	0	-97	425	4472	0	-27	-133	2.45	
Delhi	3730	0	-307	196	2898	0	-162	197	4.11	
UP	8667	1224	-622	1079	9604	850	-14	1716	35.12	
Uttarakhand	1472	80	219	-27	1117	0	-137	-41	-1.13	
HP	1062	0	-64	-997	791	0	-61	-1098	-24.25	
J&K	1508	100	-58	-197	817	0	-492	-192	-4.98	
Chandigarh	214	0	-25	23	148	0	-58	-14	0.82	
Total	34178	2092	-666	3234	30515	850	-837	3666	82.74	

* 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	1595	1633	1440	35.97	1499	36.59	-0.63
Rihand I STPS	1000	357	484	299	7.75	323	7.93	-0.18
Rihand II STPS	1000	908	968	662	19.36	807	19.81	-0.45
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	479	459	451	10.00	417	10.39	-0.39
Dadri II STPS	980	718	868	679	15.75	656	15.91	-0.16
Unchahar I TPS	420	196	211	171	4.22	176	4.34	-0.12
Unchahar II TPS	420	400	432	339	8.48	353	8.40	0.07
Unchahar III TPS	210	200	219	159	4.23	176	4.23	0.01
ISTPP (Jhajjhar)	1000	470	498	345	9.26	386	9.44	-0.18
Dadri GPS	830	523	364	322	7.65	319	7.76	-0.11
Anta GPS	419	277	239	158	4.37	182	4.38	-0.01
Auraiya GPS	663	618	456	309	8.74	364	8.62	0.13
Sub Total (A)	10282	6740	6831	5334	135.78	5657	137.79	-2.02
B. NPC								
NAPS	440	261	295	304	6.26	261	6.26	-0.01
RAPS- B	440	381	426	430	9.15	381	9.14	0.01
RAPS- C	440	410	455	457	9.72	405	9.84	-0.12
Sub Total (B)	1320	1052	1176	1191	25.13	1047	25.25	-0.12
C. NHPC								
Chamera I HPS	540	534	540	540	12.82	534	12.82	0.00
Chamera II HPS	300	300	302	302	7.19	300	7.21	-0.01
Chamera III HPS	231	154	155	152	3.70	154	3.72	-0.02
Bairasuil HPS	180	165	120	172	3.76	156	3.89	-0.13
Salai-HPS	690	652	655	655	15.57	649	15.68	-0.11
Tanakpur-HPS	94	91	95	95	2.27	95	2.24	0.03
Uri-HPS	480	376	354	358	8.85	369	8.80	0.05
Dhauliganga-HPS	280	277	280	280	6.70	279	6.72	-0.03
Duihasti-HPS	390	387	410	381	9.18	383	9.20	-0.01
Sewa-II HPS	120	80	85	0	1.78	74	1.60	0.18
Sub Total (C)	3305	3014	2996	2935	71.82	2992	71.87	-0.05
D.NJPC								
Natpna Jhakri	1500	1605	1517	1516	36.12	1505	36.00	0.12
Sub Total (D)	1500	1605	1517	1516	36.12	1505	36.00	0.12
E. THDC								
Tehri HPS	1000	1050	1064	1050	24.90	1038	25.00	-0.10
Koteswar HPS	400	385	385	377	9.12	380	9.24	-0.12
Sub Total (E)	1400	1435	1449	1427	34.03	1418	34.24	-0.21
F. BBMB								
Bhakra HPS	1480	711	1259	665	17.80	742	17.07	0.73
Dehar HPS	990	624	660	600	15.35	640	14.98	0.37
Pong HPS	396	197	366	120	4.86	203	5.01	-0.15
Sub Total (F)	2866	1532	2285	1385	38.01	1584	37.06	0.95
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	229	183	4.52	188	4.46	0.06
KWHEP HPS(IPP)	1000	0	900	900	21.49	895	23.72	-2.23
Malana Stg-II HPS	100	0	108	109	2.45	102	2.29	0.16
Shree Cement TPS	300	0	144	132	3.43	143	3.47	-0.05
Budhil HPS(IPP)	70	0	70	35	0.97	40		0.97
Sub Total (G)	1662	0	1451	1359	32.86	1369	33.94	-1.08
H. Total Regional Entities (A-G)	22336	15378	17705	15147	373.74	15572	376.15	-2.41

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	1200	1020	24.92	1038	
	Guru Nanak Dev TPS(Bhatinda)	440	90	85	2.00	83	
	Guru Hargobind Singh TPS(L.mbt)	920	942	732	18.64	777	
	Thermal (Total)	2620	2232	1837	45.56	1898	
	Total Hydro	1148	326	343	9.05	377	
	Total Punjab	3768	2558	2180	54.61	2275	
Haryana	Panipat TPS	1367	400	564	11.45	477	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	85	93	2.16	90	
	RGTPP (kheadar) (IPP)	1200	866	402	14.23	593	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	471	401	11.66	486	
	Thermal (Total)	4944	1822	1460	39.51	1646	
	Total Hydro	62	28	30	0.71	29	
	Total Haryana	5006	1850	1490	40.21	1676	
Rajasthan	kota TPS	1240	681	621	15.57	649	
	suratgarh TPS	1500	612	776	16.01	667	
	Chabra TPS	500	445	367	9.15	381	
	Dholpur GPS	330	177	140	3.61	151	
	Ramgarh GPS	111	82	69	1.70	71	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	69	69	0.83	34	
	Rajwest LTPS (IPP)	540	351	351	8.11	338	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2417	2393	54.98	2291	
	Total Hydro	550	125	49	2.35	98	
	Wind power	1843	505	431	4.47	186	
	Biomass	91	19	19	0.46	19	
	Solar	128	0	0	0.19	8	
	Renewable/Others (Total)	2062	524	450	7.47	311	
	Total Rajasthan	7767	3066	2892	64.80	2700	
	UP	Anpara TPS	1630	1106	849	21.20	883
		Obra TPS	1382	323	483	8.10	338
		Paricha TPS	890	481	478	10.20	425
Panki TPS		210	45	35	0.90	38	
Harduaganj TPS		665	219	186	4.50	188	
Tanda TPS (NTPC)		440	196	192	4.36	182	
Roza TPS (IPP)		1200	818	648	16.14	672	
Anpara-C (IPP)		1200	456	399	9.94	414	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	210	236	5.57	232	
Thermal (Total)		8067	3854	3506	80.91	3371	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	165	0	3.88	162	
Cogeneration		981	20	20	0.48	20	
Total UP		9975	4475	3962	95.72	3553	
Uttarakhand		Total Hydro	1303	671	740	16.40	683
	Total Uttarakhand	1303	671	740	16.40	683	
Delhi	Raighat TPS	135	46	46	1.25	52	
	Delhi Gas Turbine	282	149	72	2.87	119	
	Pragati Gas Turbine	330	143	147	3.58	149	
	Rithala GPS	108	20	0	0.34	14	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	535	480	10.91	455	
	Thermal (Total)	2237	893	745	18.95	790	
	Total Delhi	2237	893	745	18.95	790	
HP	Baspa HPS (IPP)	330	329	299	7.58	316	
	Malana HPS (IPP)	86	105	102	2.46	103	
	Other Hydro	589	614	573	14.23	593	
	Total HP	1005	1048	974	24	1012	
J & K	Baglihar HPS (IPP)	450	436	449	10.49	437	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	621	659	15.22	634	
Total State Control Area Generation		32017	15182	13642	330.19	13322	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2948	3093	79.83	3326	
Total Regional Availability(Gross)		54353	35835	31882	783.76	32221	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9484	8455	208.44	8685
State Control Area Hydro	5368	2984	2795	82.34	2995
Total Regional Hydro	15731	12468	11250	290.77	11680

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	350	500	0	7.12	0.00	7.12	0.00	7.12
Gwalior-Agra (D/C)	549	525	741	0	14.11	0.00	14.11	0.00	14.11
Zerda-Kankroli	0	-70	0	94	0.00	0.49	0.00	0.49	-0.49
Zerda-Bhinmal	-53	-34	197	331	0.28	0.00	0.28	0.00	0.28
Malanpur-Auraiya	-96	-32	0	111	0.00	1.28	0.00	1.28	-1.28
Badod-Kota/Morak	47	24	65	31	1.34	0.00	1.34	0.00	1.34
Mundra-Mohindergarh(HVDC)	572	563	575	0	13.48	0.00	13.48	0.00	13.48
Sub Total WR	1319	1326			36.33	1.77	36.33	1.77	34.56
Pusauli Bypass	300	300	300	0	7.27	0.00	7.27	0.00	7.27
MZP- GKP (D/C)	490	670	874	0	17.26	0.00	17.26	0.00	17.26
Patna-Balia(D/C)	533	480	578	0	11.20	0.00	11.20	0.00	11.20
B'Sharif-Balia (D/C)	154	263	288	0	4.57	0.00	4.57	0.00	4.57
Barh - Balia(D/C)	0	0	263	0	2.05	0.00	2.05	0.00	2.05
Pusauli-Balia	-60	-78	12	110	0.00	1.25	0.00	1.25	-1.25
Gaya-Fatehpur (765 Kv)	104	5	181	55	1.76	0.00	1.76	0.00	1.76
Pusauli-Sahupuri	154	152	155	0	3.44	0.00	3.44	0.00	3.44
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-46	-25	0	47	0.00	1.03	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1629	1767			47.55	2.28	47.55	2.28	45.27
Total IR Exch	2948	3093			83.88	4.05	83.88	4.05	79.83

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
32.60	3.71	36.32	10.09	42.72	-0.45	-1.74	2.25	-2.20
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
48.21	38.56	86.77	45.27	34.56	79.83	-2.94	-4.00	-6.94

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	0.50	76.40	75.90	71.00	23.60

<----- 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				
50.53	3.31	49.60	9.29	50.09	0.32	0.16	50.53	49.86

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	413	18:03	408	19:37	0.0	0.0	0.0	0.0
Gorakhpur	400	426	18:38	407	15:57	0.0	0.0	21.6	0.0
Bareilly	400	423	4:15	401	9:25	0.0	0.0	2.2	0.0
Kanpur	400	425	4:18	406	9:27	0.0	0.0	10.5	0.0
Dadri	400	418	3:31	403	19:37	0.0	0.0	0.0	0.0
Ballabhgarh	400	423	3:25	405	9:34	0.0	0.0	6.2	0.0
Bawana	400	420	3:23	403	19:37	0.0	0.0	0.0	0.0
Bassi	400	435	3:11	408	19:38	0.0	0.0	76.7	9.9
Hissar	400	414	3:12	399	9:32	0.0	0.0	0.0	0.0
Moga	400	417	13:03	397	9:28	0.0	0.0	0.0	0.0
Abdullapur	400	416	3:18	405	9:25	0.0	0.0	0.0	0.0
Nalagarh	400	412	3:13	400	9:22	0.0	0.0	0.0	0.0
Kishenpur	400	414	3:28	399	19:35	0.0	0.0	0.0	0.0
Wagoora	400	414	3:28	389	19:40	0.0	1.0	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	495.83	937.45	509.79	1545.02	1522.17	508.97
Pong	426.72	384.05	416.65	743.22	421.80	975.89	1435.72	297.44
Tehri	829.79	740.04	819.75	1002.27	818.65	982.26	696.78	552.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	479.67	347.59
Rihand	268.22	252.98	261.76	404.60	263.62	520.00	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	509.88	NA	521.24	NA	384.09	94.61

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.08.2012 :

1: 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 : 27.08.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER