

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.09.2011
Date of Reporting : 25.09.2011

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
31213	3942	35155	49.51	31127	1810	32937	49.82	725.1	79.41

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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	54.21	16.42		70.63	79.38	76.77	-2.61	147.40	13.07
Haryana	67.12	1.03		68.15	41.95	44.20	2.25	112.35	6.55
Rajasthan	55.24	1.35	7.72	64.32	29.59	43.99	14.40	108.31	19.76
Delhi	26.17			26.17	62.03	55.57	-6.46	81.74	0.02
UP	47.35	17.36	1.20	65.92	110.53	128.17	17.64	194.08	36.52
Uttarakhand		20.07		20.07	4.71	7.66	2.95	27.74	1.43
HP		18.29		18.29	2.14	3.55	1.41	21.84	0.47
J & K		14.24	0.00	14.24	14.30	12.70	-1.60	26.94	1.60
Chandigarh				0.00	4.98	4.73	-0.25	4.73	0.00
Total	250.10	88.77	8.92	347.80	349.60	377.33	27.72	725.12	79.41

* Shortage furnished by the respective constituent.

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	6311	762	-222	883	6210	0	-86	941	21.45
Haryana	4722	570	-15	312	4697	0	78	262	6.95
Rajasthan	4282	820	499	-355	4999	130	665	-408	-9.46
Delhi	3786	0	-285	353	2982	0	-388	303	8.12
UP	8387	1545	1008	1294	9295	1680	1500	985	27.16
Uttarakhand	1108	230	-67	-200	1084	0	119	-200	-4.80
HP	990	15	113	-1569	844	0	125	-1190	-31.81
J&K	1389	0	53	-375	861	0	-321	-275	-8.10
Chandigarh	238	0	-7	30	155	0	-15	30	0.72
Total	31213	3942	1077	373	31127	1810	1677	448	10.23

* 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	1015	740	1574	23.87	995	24.36	-0.49
	Rihand I STPS	1000	815	807	1030	19.69	820	19.55	0.13
	Rihand II STPS	1000	449	510	513	10.90	454	10.77	0.13
	Dadri I STPS	840	800	867	815	19.09	796	18.19	0.90
	Dadri II STPS	980	971	1041	939	23.01	959	22.38	0.63
	Unchahar I TPS	440	352	330	419	8.51	355	8.44	0.07
	Unchahar II TPS	440	176	176	210	4.25	177	4.23	0.02
	Unchahar III TPS	210	176	168	211	4.27	178	4.23	0.04
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	772	767	781	17.94	748	18.08	-0.14
	Anta GPS	419	387	386	393	9.26	386	8.75	0.51
	Auraiya GPS	663	619	617	464	12.58	524	13.38	-0.80
	Sub Total (A)	9322	7001	6409	7349	153.37	6391	152.37	1.00
	B. NPC	NAPS	440	190	224	230	4.53	189	4.56
RAPS- B		440	185	217	218	4.65	194	4.44	0.21
RAPS- C		440	420	474	473	10.12	422	10.08	0.04
Sub Total (B)		1320	795	915	921	19.30	804	19.08	0.22
C. NHPC		Chamera I HPS	540	534	540	540	12.16	507	11.56
	Chamera II HPS	300	297	293	200	5.24	218	4.93	0.31
	Bairasuil HPS	180	120	120	80	2.13	89	2.01	0.12
	Salal-HPS	690	443	562	502	10.90	454	10.55	0.35
	Tanakpur-HPS	94	94	94	95	2.28	95	2.23	0.05
	Uri-HPS	480	475	480	480	11.61	484	11.35	0.26
	Dhauliganga-HPS	280	232	215	208	5.41	225	5.33	0.08
	Dulhasti-HPS	390	387	415	416	9.47	395	9.00	0.47
	Sewa-II HPS	120	119	127	124	2.98	124	2.91	0.07
	Sub Total (C)	3074	2700	2846	2645	62.18	2591	59.87	2.31
	D.NJPC	Nathpa Jhakri	1500	1600	1597	765	26.32	1097	26.08
Sub Total (D)		1500	1600	1597	765	26.32	1097	26.08	0.24
E. THDC	Tehri HPS	1000	1050	1052	0	7.88	328	7.44	0.44
	Koteshwar HPS	100	86	87	87	2.12	88	2.06	0.06
	Sub Total (E)	1100	1136	1139	87	9.99	416	9.50	0.50
F. BBMB	Bhakra HPS	1480	1054	580	990	26.28	1095	25.30	0.98
	Dehar HPS	990	573	825	580	14.61	609	13.75	0.86
	Pong HPS	396	239	306	186	6.02	251	5.74	0.28
	Sub Total (F)	2866	1866	1711	1756	46.91	1955	44.79	2.12
	G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	55	56	1.35	56	1.31
KWHEP HPS(IPP)		1000	0	730	590	15.11	630	15.51	-0.40
Malana Stg-II HPS		100	0	75	44	1.21	50	0.00	1.21
Shree Cement TPS		150	0	0	0	0.00	0	0.00	0.00
Sub Total (G)		1442	0	860	690	17.67	736	16.81	0.86
H. Total Regional Entities (A-G)	20625	15099	15477	14213	335.74	13989	328.50	7.24	

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	1235.00	1230.00	27.32	1139
	Guru Nanak Dev TPS(Bhatinda)	440	287.00	282.00	5.86	244
	Guru Hargobind Singh TPS(L.mbt)	920	944.00	945.00	21.03	876
	Thermal (Total)	2620	2466.00	2457.00	54.21	2259
	Total Hydro	1148	714.00	369.00	16.42	684
	Total Punjab	3768	3180	2826	70.63	2943
Haryana	Panipat TPS	1360	1082.00	1100.00	26.27	1095
	DCRTPP (Yamuna nagar)	600	479.00	533.00	10.97	457
	Faridabad GPS (NTPC)	432	398.00	344.00	9.22	384
	RGTPP (khedar) (IPP)	1200	821.00	867.00	20.67	861
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2780.00	2844.00	67.12	2797
	Total Hydro	62	38.00	39.00	1.03	43
	Total Haryana	3679	2818	2883	68.15	2840
Rajasthan	kota TPS	1240	773.00	776.00	18.11	755
	suratgarh TPS	1500	926.00	1132.00	22.43	935
	Chabra TPS	500	0.00	225.00	4.14	172
	Dholpur GPS	330	127.00	130.00	3.16	132
	Ramgarh GPS	113	62.00	62.00	1.64	68
	RAPS A (NPC)	300	178.00	180.00	4.30	179
	Barsingsar (NLC)	250	0.00	0.00	0.00	0
	Giral LTPS (IPP)	250	75.00	58.00	1.47	61
	Rajwst LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2141.00	2563.00	55.24	2302
	Total Hydro	550	121.00	0.00	1.35	56
	Wind power	1294	273.00	473.00	7.13	297
	Biomass	71	26.00	26.00	0.59	25
	Renewable/Others (Total)	1365	299	499	7.72	322
	Total Rajasthan	6668	2561	3062	64.32	2680
UP	Anpara TPS	1630	686	931	18.50	771
	Obra TPS	1442	108	238	3.60	150
	Paricha TPS	640	405	393	8.50	354
	Panki TPS	210	0	70	0.90	38
	Harduaganj TPS	375	44	46	0.90	38
	Tanda TPS (NTPC)	440	274	242	6.19	258
	Roza TPS (IPP)	600	495	281	8.76	365
	Anpara-C (IPP)	600	0	0	0.00	0
	Thermal (Total)	5937	2012	2201	47.35	1973
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	348	0	6.91	288
	Cogeneration	951	50	50	1.20	50
	Total UP	7815	2846	2687	65.92	2311
	Uttarakhand	Total Hydro	1303	874	763	20.07
Total Uttarakhand		1303	874	763	20.07	836
Delhi	Rajghat TPS	135	102	84	2.56	107
	Delhi Gas Turbine	282	158	111	3.35	140
	Pragati Gas Turbine	330	292	299	7.34	306
	Rithala GPS	108	26	29	0.64	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	767	585	12.28	512
	Thermal (Total)	2000	1345	1108	26.17	1091
	Total Delhi	2000	1345	1108	26.17	1091
HP	Baspa HPS (IPP)	330	228	129	5.01	209
	Malana HPS (IPP)	101	51	44	1.15	48
	Other Hydro	571	519	470	12.14	506
	Total HP	1002	798	643	18	762
J & K	Baglihar HPS (IPP)	450	442	442	10.64	443
	Other Hydro	323	112	138	3.60	150
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	554	580	14.24	593
Total State Control Area Generation		27191	14976	14552	347.80	14056
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2286	3221	57.68	2403
Total Regional Availability(Gross)		47816	32739	31986	741.22	30448

IV. Total Hydro Generation:

Regional Entities Hydro	9983	8153	5943	163.07	6795
State Control Area Hydro	5365	3447	2394	78.32	3263
Total Regional Hydro	15347	11600	8337	241.39	10058

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	0	100	100	100	0.93	0.59	0.34
Gwalior-Agra (D/C)	427	1045	1052	0	18.43	0.00	18.43
Zerda-Kankroli	109	189	225	143	1.54	0.00	1.54
Zerda-Bhinmal	130	189	251	84	2.30	0.00	2.30
Malanpur-Auraiya	-24	11	0	91	0.00	0.79	-0.79
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	642	1534			23.19	1.38	21.81
Pusauli Bypass	126	63	216	49	2.24	0.07	2.17
MZP- GKP (D/C)	680	866	1054	0	18.43	0.00	18.43
Patna-Balia(D/C)	243	146	346	0	5.18	0.00	5.18
B'Sharif-Balia (D/C)	384	375	505	0	7.77	0.00	7.77
Barh - balia(D/C)	0	150	155	0	0.98	0.00	0.98
Pusauli-Sahupuri	88	119	144	0	1.93	0.00	1.93
K'nasa-Sahupuri	158	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.60	-0.60
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1644	1687			36.53	0.67	35.87
Total IR Exch	2286	3221			59.73	2.05	57.68

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
17.56	3.56	21.12	-1.25	12.65	-0.65	1.57	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
19.22	13.50	32.72	35.87	21.81	57.68	16.65	8.31	24.96

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
0.00	2.30	8.80	33.00	65.10	67.00	34.90	1.30

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.16	17.59	48.83	17.46	49.57	2.43	0.24	50.03	49.18

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	428	18:01	413	00:15	0.0	0.0	50.9	0.0
Gorakhpur	400	440	07:51	419	09:38	0.0	0.0	98.3	19.9
Bareilly	400	427	08:00	398	11:16	0.0	0.0	2.1	0.0
Kanpur	400	425	09:00	408	00:15	0.0	0.0	4.3	0.0
Dadri	400	414	07:49	401	11:10	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:49	403	14:17	0.0	0.0	0.5	0.0
Bawana	400	418	07:53	402	11:14	0.0	0.0	0.0	0.0
Bassi	400	428	07:55	401	16:36	0.0	0.0	23.5	0.0
Hissar	400	412	07:51	400	11:12	0.0	0.0	0.0	0.0
Moga	400	418	23:58	405	09:38	0.0	0.0	0.0	0.0
Abdullapur	400	412	07:51	398	19:18	0.0	0.0	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	416	03:55	399	18:44	0.0	0.0	0.0	0.0
Wagoora	400	406	23:58	382	18:59	0.0	19.3	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	512.07	1650.87	512.29	1667.20	704.72	776.28
Pong	426.72	384.05	423.72	1066.19	424.63	1114.45	190.80	333.80
Tehri	829.79	740.04	817.50	942.25	NA	NA	281.07	177.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	177.00	140.00
Chamera-I	760.00	748.75	754.84	NA	NA	NA	218.67	329.50
Rihand	268.22	252.98	265.91	679.00	258.17	209.50	NA	NA
RPS	352.80	343.81	349.81	NA	349.13	NA	148.21	NA
Jawahar Sagar	298.70	295.78	297.82	NA	NA	NA	297.18	105.34
RSD	527.91	487.91	524.95	NA	524.05	NA	343.95	375.31

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.09.2011 :
Normal weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 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 : 24.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER