

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.09.2011
Date of Reporting : 18.09.2011

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
31703	1976	33679	49.89	27638	1005	28643	50.45	687.9	17.46

* 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	23.32	23.76		47.08	72.11	65.53	-6.58	112.61	1.80
Haryana	46.74	0.99		47.73	47.60	45.80	-1.80	93.53	0.51
Rajasthan	57.59	2.13	2.89	62.61	37.34	45.50	8.15	108.11	0.00
Delhi	22.29			22.29	61.60	61.64	0.04	83.93	0.04
UP	58.81	17.70	0.60	77.11	127.53	134.10	6.57	211.21	14.82
Uttarakhand		23.90		23.90	7.27	4.22	-3.06	28.11	0.00
HP		23.22		23.22	1.84	-1.28	-3.12	21.95	0.30
J & K		13.57	0.00	13.57	16.30	10.46	-5.83	24.03	0.00
Chandigarh				0.00	5.50	4.48	-1.02	4.48	0.00
Total	208.76	105.26	3.49	317.51	377.11	370.44	-6.66	687.95	17.46

* 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	5383	600	-337	985	4148	0	-748	1048	23.94
Haryana	4795	61	456	462	3577	0	-62	462	10.23
Rajasthan	5099	0	658	-345	4848	0	784	-408	-9.41
Delhi	3939	0	190	149	3035	0	-163	99	3.23
UP	8432	1315	243	1575	9265	1005	335	1575	37.80
Uttarakhand	1405	0	84	-200	1148	0	-165	-200	-4.80
HP	1108	0	129	-1411	798	0	-291	-1351	-32.06
J&K	1320	0	-74	-375	675	0	-505	-275	-8.10
Chandigarh	222	0	-35	30	144	0	-56	30	0.72
Total	31703	1976	1314	870	27638	1005	-871	980	21.54

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Region	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule		UI Net MU
								Net MU	Net MU	
A. NTPC	Singrauli STPS	2000	1554	1627	1558	34.45	1435	34.54	-0.10	
	Rihand I STPS	1000	923	1016	850	19.16	798	19.55	-0.39	
	Rihand II STPS	1000	377	497	395	7.66	319	7.70	-0.04	
	Dadri I STPS	840	800	639	615	13.90	579	14.33	-0.44	
	Dadri II STPS	980	970	903	721	18.27	761	19.66	-1.39	
	Unchahar I TPS	440	387	419	302	7.22	301	7.45	-0.23	
	Unchahar II TPS	440	388	420	296	7.10	296	7.28	-0.18	
	Unchahar III TPS	210	195	218	153	3.59	149	3.70	-0.11	
	ISTPP (Jhajjar)	500	470	0	0	0.00	0	0.00	0.00	
	Dadri GPS	830	805	565	475	11.70	488	12.06	-0.36	
	Anta GPS	419	389	253	248	5.85	244	5.95	-0.10	
	Auraiya GPS	663	615	453	387	9.08	378	9.21	-0.13	
	Sub Total (A)	9322	7872	7010	6000	137.96	5748	141.44	-3.47	
	B. NPC	NAPS	440	189	225	229	4.55	190	4.54	0.01
RAPS- B		440	191	218	216	4.66	194	4.58	0.08	
RAPS- C		440	420	471	478	10.21	426	10.08	0.13	
Sub Total (B)		1320	800	914	923	19.42	809	19.20	0.22	
C. NHPC	Chamera I HPS	540	534	540	540	12.76	532	12.82	-0.06	
	Chamera II HPS	300	297	301	299	7.08	295	7.19	-0.11	
	Bairasuil HPS	180	104	179	0	1.93	80	2.48	-0.55	
	Salal-HPS	690	251	627	0	6.06	253	6.05	0.01	
	Tanakpur-HPS	94	96	94	77	2.16	90	2.24	-0.08	
	Uri-HPS	480	480	480	474	11.29	470	11.88	-0.59	
	Dhauliganga-HPS	280	277	281	268	6.62	276	6.62	-0.01	
	Dulhasti-HPS	390	387	413	77	8.75	365	9.21	-0.46	
	Sewa-II HPS	120	119	125	115	2.94	123	2.96	-0.02	
	Sub Total (C)	3074	2545	3040	1850	59.59	2483	61.46	-1.86	
D. NJPC	Nathpa Jhakri	1500	1600	1586	1591	37.90	1579	38.39	-0.49	
	Sub Total (D)	1500	1600	1586	1591	37.90	1579	38.39	-0.49	
E. THDC	Tehri HPS	1000	870	817	720	19.38	807	19.37	0.01	
	Koteshwar HPS	100	88	87	81	2.02	84	2.11	-0.09	
Sub Total (E)	1100	958	904	801	21.40	892	21.48	-0.08		
F. BBMB	Bhakra HPS	1480	1227	1256	1256	30.20	1258	29.45	0.75	
	Dehar HPS	990	591	825	600	14.60	608	14.20	0.40	
	Pong HPS	396	239	306	186	5.97	249	5.74	0.23	
	Sub Total (F)	2866	2058	2387	2042	50.77	2115	49.38	1.39	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	88	89	2.25	94	2.04	0.20	
	KWHEP HPS(IPP)	1000	0	700	700	16.86	702	16.80	0.06	
	Malana Stg-II HPS	100	0	90	89	1.79	75	0.00	1.79	
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00	
Sub Total (G)	1442	0	878	878	20.90	871	18.84	2.06		
H. Total Regional Entities (A-G)	20625	15832	16719	14085	347.94	14498	350.19	-2.24		

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	615.00	530.00	12.20	508
	Guru Nanak Dev TPS(Bhatinda)	440	100.00	100.00	1.99	83
	Guru Hargobind Singh TPS(L.mbt)	920	477.00	393.00	9.13	380
	Thermal (Total)	2620	1192.00	1023.00	23.32	972
	Total Hydro	1148	1000.00	999.00	23.76	990
	Total Punjab	3768	2192	2022	47.08	1962
Haryana	Panipat TPS	1360	864.00	781.00	19.87	828
	DCRTPP (Yamuna nagar)	600	506.00	194.00	9.19	383
	Faridabad GPS (NTPC)	432	189.00	183.00	4.66	194
	RGTPP (khedar) (IPP)	1200	451.00	509.00	13.03	543
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2010.00	1667.00	46.74	1948
	Total Hydro	62	37.00	37.00	0.99	41
	Total Haryana	3679	2047	1704	47.73	1989
Rajasthan	kota TPS	1240	869.00	782.00	19.44	810
	suratgarh TPS	1500	1070.00	769.00	22.18	924
	Chabra TPS	500	214.00	194.00	5.05	210
	Dholpur GPS	330	128.00	255.00	3.95	164
	Ramgarh GPS	113	62.00	62.00	1.60	67
	RAPS A (NPC)	300	190.00	190.00	4.30	179
	Barsingsar (NLC)	250	46.00	76.00	1.07	45
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2579.00	2328.00	57.59	2400
	Total Hydro	550	112.00	78.00	2.13	89
	Wind power	1294	179.00	103.00	2.49	104
	Biomass	71	17.00	17.00	0.41	17
	Renewable/Others (Total)	1365	196	120	2.89	120
	Total Rajasthan	6668	2887	2526	62.61	2609
	UP	Anpara TPS	1630	978	1065	21.20
Obra TPS		1442	480	636	11.70	488
Paricha TPS		640	396	403	8.60	358
Panki TPS		210	55	60	1.20	50
Harduaganj TPS		375	48	50	1.00	42
Tanda TPS (NTPC)		440	270	231	6.34	264
Roza TPS (IPP)		600	216	405	8.77	365
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2443	2850	58.81	2451
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	359	72	7.24	302
Cogeneration		951	25	25	0.60	25
Total UP		7815	3263	3383	77.11	2777
Uttarakhand		Total Hydro	1303	989	1014	23.90
	Total Uttarakhand	1303	989	1014	23.90	996
Delhi	Rajghat TPS	135	57	92	1.19	50
	Delhi Gas Turbine	282	110	114	2.72	113
	Pragati Gas Turbine	330	293	279	7.28	303
	Rithala GPS	108	26	29	0.65	27
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	555	520	10.44	435
	Thermal (Total)	2000	1041	1034	22.29	929
	Total Delhi	2000	1041	1034	22.29	929
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	55	82	1.67	70
	Other Hydro	571	538	602	13.63	568
	Total HP	1002	923	1014	23	968
J & K	Baglihar HPS (IPP)	450	442	441	10.19	424
	Other Hydro	323	119	166	3.38	141
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	561	607	13.57	565
Total State Control Area Generation		27191	13903	13304	317.51	12794
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2092	1252	34.73	1447
Total Regional Availability(Gross)		47816	32714	28641	700.18	28739

IV. Total Hydro Generation:

Regional Entities Hydro	9983	8795	7162	190.56	7940
State Control Area Hydro	5365	3981	3821	94.80	3950
Total Regional Hydro	15347	12776	10983	285.36	11890

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	-500	200	500	0.09	6.48	-6.39
Gwalior-Agra (D/C)	456	359	750	0	11.93	0.00	11.93
Zerda-Kankroli	106	73	144	118	0.46	0.00	0.46
Zerda-Bhinmal	129	100	199	99	1.40	0.00	1.40
Malanpur-Auraiya	-61	-33	0	23	0.00	0.67	-0.67
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	630	-1			13.88	7.14	6.74
Pusauli Bypass	-89	-102	98	299	0.10	2.63	-2.52
MZP- GKP (D/C)	876	804	1198	0	19.16	0.00	19.16
Patna-Balia(D/C)	250	223	268	0	4.06	0.00	4.06
B'Sharif-Balia (D/C)	326	248	346	0	5.25	0.00	5.25
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	134	112	146	0	3.05	0.00	3.05
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.99	-0.99
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1462	1253			31.61	3.62	27.99
Total IR Exch	2092	1252			45.50	10.76	34.73

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
17.57	2.78	20.35	-0.18	22.80	-3.56	0.63	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
16.61	22.57	39.18	27.99	6.74	34.73	11.39	-15.83	-4.44

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	0.30	2.20	75.00	73.10	64.10	24.70

<----- 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				
50.44	18.03	49.31	18.41	50.06	0.33	0.17	50.46	49.85

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	422	16:02	412	05:45	0.0	0.0	5.4	0.0
Gorakhpur	400	437	07:28	404	19:12	0.0	0.0	86.4	18.7
Bareilly	400	427	08:00	399	19:12	0.0	0.0	12.0	0.0
Kanpur	400	424	09:00	398	19:11	0.0	0.0	11.1	0.0
Dadri	400	416	07:07	399	19:15	0.0	0.0	0.0	0.0
Ballabgarh	400	423	03:18	398	19:11	0.0	0.0	21.0	0.0
Bawana	400	419	03:16	399	18:58	0.0	0.0	0.0	0.0
Bassi	400	430	04:05	398	19:11	0.0	0.0	66.6	0.0
Hissar	400	421	03:17	400	19:10	0.0	0.0	0.1	0.0
Moga	400	428	04:07	407	19:14	0.0	0.0	37.5	0.0
Abdullapur	400	409	17:18	397	18:58	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	422	01:41	403	19:09	0.0	0.0	8.4	0.0
Wagoora	400	403	13:05	384	19:15	0.0	19.8	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	512.39	1667.20	512.08	1650.87	1057.72	911.49
Pong	426.72	384.05	423.73	1066.19	424.80	1130.65	958.33	334.39
Tehri	829.79	740.04	818.45	962.25	NA	NA	451.08	491.00
Koteshwar	612.50	598.50	608.50	3.98	NA	NA	491.00	125.00
Chamera-I	760.00	748.75	755.55	12.81	756.20	NA	290.17	325.36
Rihand	268.22	252.98	265.60	656.80	257.28	169.80	NA	NA
RPS	352.80	343.81	349.14	NA	349.41	NA	23.76	NA
Jawahar Sagar	298.70	295.78	298.00	NA	297.27	NA	44.46	NA
RSD	527.91	487.91	524.84	NA	523.96	NA	207.24	337.25

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.09.2011 :

Normal weather

XII. Synchronisation of new generating units :

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

1: 400kV Karcham Wangtoo - Abdullapur transmission line ckt- II first time test charged at 1710 hrs of dated 17.09.2011 upto 78kms line length from Abdullapur end.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 17.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER