

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.09.2011
Date of Reporting : 28.09.2011

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
31615	5083	36698	49.82	30435	3379	33814	49.61	724.9	106.90

* 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	55.06	20.53		75.58	69.56	72.70	3.13	148.28	28.74
Haryana	48.62	1.01		49.62	41.80	53.36	11.56	102.98	22.78
Rajasthan	63.40	1.12	13.26	77.78	24.05	31.69	7.64	109.47	6.16
Delhi	27.51			27.51	62.89	57.27	-5.62	84.79	0.09
UP	52.29	17.26	1.20	70.75	102.10	129.17	27.06	199.92	44.03
Uttarakhand		18.93		18.93	3.53	7.15	3.62	26.07	2.90
HP		16.67		16.67	2.42	4.34	1.92	21.01	0.61
J & K		14.17	0.00	14.17	12.18	13.34	1.17	27.52	1.60
Chandigarh				0.00	5.03	4.89	-0.14	4.89	0.00
Total	246.87	89.68	14.46	351.02	323.56	373.90	50.34	724.91	106.90

* 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	6456	968	-67	876	6086	1303	-37	929	21.16
Haryana	4210	1685	254	262	4615	446	576	262	5.43
Rajasthan	4900	477	294	-355	5279	0	929	-408	-9.45
Delhi	3997	0	-118	314	3041	0	-406	264	7.19
UP	8526	1695	837	1294	8348	1630	1719	864	25.24
Uttarakhand	985	220	-147	-200	1160	0	297	-200	-4.80
HP	987	38	74	-1597	786	0	153	-877	-26.46
J&K	1346	0	58	-375	955	0	-65	-275	-8.10
Chandigarh	208	0	-50	30	165	0	-9	30	0.72
Total	31615	5083	1135	249	30435	3379	3157	589	10.92

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

III. Regional Entities :

A. NTPC	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
	Singrauli STPS	2000	815	1014	772	19.99	833	19.57	0.42
	Rihand I STPS	1000	569	656	561	13.69	571	13.66	0.04
	Rihand II STPS	1000	462	503	503	11.25	469	11.08	0.17
	Dadri I STPS	840	800	871	864	19.32	805	19.20	0.12
	Dadri II STPS	980	975	1033	1034	23.41	975	23.40	0.01
	Unchahar I TPS	440	315	361	331	7.63	318	7.56	0.06
	Unchahar II TPS	440	158	177	166	3.81	159	3.78	0.03
	Unchahar III TPS	210	157	177	169	3.80	158	3.78	0.02
	ISTPP (Jhajjar)	500	365	353	344	7.59	316	7.95	-0.36
	Dadri GPS	830	764	780	784	18.08	753	18.32	-0.24
	Anta GPS	419	386	390	396	9.33	389	9.23	0.10
	Auraiya GPS	663	604	605	632	14.51	605	14.49	0.02
	Sub Total (A)	9322	6370	6920	6556	152.40	6350	152.02	0.37
B. NPC	NAPS	440	122	123	121	2.26	94	2.92	-0.66
	RAPS- B	440	372	432	432	9.40	392	8.92	0.48
	RAPS- C	440	420	476	473	10.18	424	10.08	0.10
	Sub Total (B)	1320	913	1031	1026	21.83	910	21.92	-0.09
C. NHPC	Chamera I HPS	540	534	540	0	6.54	272	5.75	0.79
	Chamera II HPS	300	272	233	92	4.91	204	4.61	0.29
	Bairasuil HPS	180	120	120	0	1.81	75	1.70	0.11
	Salal-HPS	690	380	454	368	9.40	392	9.22	0.18
	Tanakpur-HPS	94	94	94	95	2.28	95	2.24	0.04
	Uri-HPS	480	470	480	480	11.53	480	11.49	0.04
	Dhauliganga-HPS	280	242	282	79	4.43	185	4.38	0.04
	Dulhasti-HPS	390	388	388	406	9.46	394	9.46	0.00
	Sewa-II HPS	120	119	109	0	1.39	58	1.30	0.09
	Sub Total (C)	3074	2618	2700	1520	51.74	2156	50.15	1.58
D. NJPC	Nathpa Jhakri	1500	1600	1267	510	23.77	991	23.47	0.31
	Sub Total (D)	1500	1600	1267	510	23.77	991	23.47	0.31
E. THDC	Tehri HPS	1000	1050	925	0	5.79	241	5.70	0.09
	Koteshwar HPS	100	85	87	92	2.13	89	1.91	0.22
	Sub Total (E)	1100	1135	1012	92	7.93	330	7.61	0.31
F. BBMB	Bhakra HPS	1480	903	1102	835	22.35	931	21.67	0.68
	Dehar HPS	990	510	825	560	12.45	519	12.25	0.20
	Pong HPS	396	239	306	186	6.01	250	5.74	0.27
	Sub Total (F)	2866	1653	2233	1581	40.81	1700	39.66	1.14
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	50	51	1.21	51	1.12	0.10
	KWHEP HPS(IPP)	1000	0	550	525	13.26	552	12.00	1.26
	Malana Stg-II HPS	100	0	45	44	1.02	42	0.00	1.02
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1442	0	645	620	15.49	645	13.12	2.37
H. Total Regional Entities (A-G)		20625	14289	15808	11905	313.96	13082	307.96	6.00

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	1245.00	1205.00	27.35	1140
	Guru Nanak Dev TPS(Bhatinda)	440	285.00	285.00	6.68	278
	Guru Hargobind Singh TPS(L.mbt)	920	954.00	947.00	21.02	876
	Thermal (Total)	2620	2484.00	2437.00	55.06	2294
	Total Hydro	1148	773.00	880.00	20.53	855
	Total Punjab	3768	3257	3317	75.58	3149
Haryana	Panipat TPS	1360	1151.00	1162.00	27.85	1160
	DCRTPP (Yamuna nagar)	600	275.00	280.00	6.55	273
	Faridabad GPS (NTPC)	432	396.00	401.00	9.55	398
	RGTPP (khedar) (IPP)	1200	0.00	447.00	4.67	194
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	1822.00	2290.00	48.62	2026
	Total Hydro	62	39.00	38.00	1.01	42
	Total Haryana	3679	1861	2328	49.62	2068
Rajasthan	kota TPS	1240	872.00	863.00	20.66	861
	suratgarh TPS	1500	1149.00	1176.00	27.27	1136
	Chabra TPS	500	228.00	225.00	5.21	217
	Dholpur GPS	330	66.00	92.00	2.02	84
	Ramgarh GPS	113	62.00	62.00	1.56	65
	RAPS A (NPC)	300	177.00	179.00	4.29	179
	Barsingsar (NLC)	250	0.00	0.00	0.00	0
	Giral LTPS (IPP)	250	129.00	115.00	2.39	100
	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	2683.00	2712.00	63.40	2641
	Total Hydro	550	122.00	0.00	1.12	47
	Wind power	1294	334.00	612.00	12.89	537
	Biomass	71	15.00	15.00	0.37	15
	Renewable/Others (Total)	1365	349	627	13.26	553
	Total Rajasthan	6668	3154	3339	77.78	3241
	UP	Anpara TPS	1630	865	675	18.10
Obra TPS		1442	284	153	5.50	229
Paricha TPS		640	278	341	6.80	283
Panki TPS		210	71	68	1.50	63
Harduaganj TPS		375	0	0	0.20	8
Tanda TPS (NTPC)		440	268	250	6.65	277
Roza TPS (IPP)		600	284	284	6.77	282
Anpara-C (IPP)		600	0	0	6.77	282
Thermal (Total)		5937	2050	1771	52.29	2179
Vishnuparyag HPS (IPP)		400	436	436	10.44	435
Other Hydro		527	299	0	6.82	284
Cogeneration		951	50	50	1.20	50
Total UP		7815	2835	2257	70.75	2513
Uttarakhand		Total Hydro	1303	828	792	18.93
	Total Uttarakhand	1303	828	792	18.93	789
Delhi	Rajghat TPS	135	94	90	2.20	92
	Delhi Gas Turbine	282	157	111	3.30	137
	Pragati Gas Turbine	330	296	301	7.18	299
	Rithala GPS	108	26	29	0.63	26
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	650	660	14.21	592
	Thermal (Total)	2000	1223	1191	27.51	1146
	Total Delhi	2000	1223	1191	27.51	1146
HP	Baspa HPS (IPP)	330	258	114	4.57	191
	Malana HPS (IPP)	101	50	37	0.98	41
	Other Hydro	571	500	452	11.11	463
	Total HP	1002	808	603	17	695
J & K	Baglihar HPS (IPP)	450	441	441	10.61	442
	Other Hydro	323	114	138	3.56	148
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	555	579	14.17	591
Total State Control Area Generation		27191	14521	14406	351.02	14191
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2148	4345	77.98	3249
Total Regional Availability(Gross)		47816	32477	30656	742.96	30522

IV. Total Hydro Generation:

Regional Entities Hydro	9983	7857	4323	139.73	5822
State Control Area Hydro	5365	3424	2892	79.25	3302
Total Regional Hydro	15347	11281	7215	218.98	9124

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	200	200	200	0	4.03	0.00	4.03
Gwalior-Agra (D/C)	696	1164	1164	0	22.09	0.00	22.09
Zerda-Kankroli	11	330	350	13	3.45	0.00	3.45
Zerda-Bhinmal	2	315	355	44	3.03	0.00	3.03
Malanpur-Auraiya	-87	30	30	98	0.00	0.40	-0.40
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Sub Total WR	822	2039			32.59	0.40	32.19
Pusauli Bypass	72	378	456	0	6.75	0.00	6.75
MZP- GKP (D/C)	660	1056	1164	0	22.09	0.00	22.09
Patna-Balia(D/C)	140	336	356	0	6.51	0.00	6.51
B'Sharif-Balia (D/C)	199	442	470	0	8.30	0.00	8.30
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	132	126	144	0	2.81	0.00	2.81
K'nasa-Sahupuri	158	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1326	2306			46.46	0.67	45.79
Total IR Exch	2148	4345			79.05	1.07	77.98

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
12.13	3.63	15.76	-2.30	14.67	-2.25	1.87	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
11.21	15.77	26.98	45.79	32.19	77.98	34.58	16.42	51.00

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	0.30	4.30	35.50	77.80	64.10	21.80	2.80

<----- 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				
50.37	7.03	48.84	19.47	49.56	2.37	0.21	49.96	49.35

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	421	07:02	414	01:34	0.0	0.0	1.0	0.0
Gorakhpur	400	435	07:16	410	17:55	0.0	0.0	62.9	7.5
Bareilly	400	424	08:00	395	13:38	0.0	0.0	1.7	0.0
Kanpur	400	423	09:00	404	14:15	0.0	0.0	0.5	0.0
Dadri	400	415	07:02	396	14:14	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:02	397	14:14	0.0	0.0	0.2	0.0
Bawana	400	420	07:02	397	14:14	0.0	0.0	0.0	0.0
Bassi	400	430	07:02	404	08:49	0.0	0.0	6.6	0.0
Hissar	400	416	07:03	390	14:14	0.0	0.0	0.0	0.0
Moga	400	424	07:03	398	14:14	0.0	0.0	1.0	0.0
Abdullapur	400	415	17:57	395	14:13	0.0	0.0	0.0	0.0
Nalagarh	400	420	16:50	398	14:10	0.0	0.0	0.0	0.0
Kishenpur	400	420	17:58	402	10:19	0.0	0.0	0.0	0.0
Wagoora	400	409	17:58	386	19:14	0.0	15.9	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	511.95	1650.87	512.20	1650.87	612.27	700.44
Pong	426.72	384.05	423.62	1066.19	424.57	1114.45	200.57	335.36
Tehri	829.79	740.04	818.20	962.25	NA	NA	251.88	115.00
Koteshwar	612.50	598.50	607.90	3.54	NA	NA	115.00	141.00
Chamera-I	760.00	748.75	754.84	NA	NA	NA	218.67	329.50
Rihand	268.22	252.98	NA	NA	265.18	209.50	NA	NA
RPS	352.80	343.81	349.85	NA	349.13	NA	148.21	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	31.86
RSD	527.91	487.91	524.49	NA	524.07	NA	263.29	465.95

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.09.2011 :
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 : 27.09.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER