

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.11.2011
Date of Reporting : 11.11.2011

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
28594	2673	31267	49.90	24383	1568	25951	49.93	643.4	55.71

* 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	49.74	11.41		61.15	27.01	22.17	-4.84	83.32	1.80
Haryana	63.24	0.89		64.13	27.36	26.78	-0.58	90.91	2.32
Rajasthan	82.36	5.31	3.33	91.00	44.68	51.97	7.30	142.97	18.74
Delhi	27.45			27.45	38.94	34.62	-4.32	62.07	0.00
UP	77.43	7.74	1.20	86.36	89.51	92.71	3.21	179.08	31.35
Uttarakhand		10.37		10.37	16.53	16.71	0.17	27.08	0.00
HP		6.96		6.96	14.96	14.90	-0.06	21.86	0.00
J & K		6.56	0.00	6.56	22.03	26.30	4.27	32.85	1.50
Chandigarh				0.00	3.56	3.27	-0.29	3.27	0.00
Total	300.22	49.23	4.53	353.98	284.57	289.43	4.86	643.41	55.71

* Shortage furnished by the respective constituent.

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 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	3757	150	-213	-490	2950	0	-561	-590	-11.45
Haryana	4020	720	21	-87	3042	0	-558	-104	-2.49
Rajasthan	6520	503	769	95	5970	533	489	220	6.74
Delhi	3043	0	-6	-270	1567	0	-455	-477	-7.99
UP	6936	1300	-1136	391	7872	1035	833	391	9.39
Uttarakhand	1393	0	-17	316	931	0	36	316	7.58
HP	1185	0	-8	-305	717	0	-6	-47	-3.53
J&K	1557	0	-3	54	1243	0	193	133	2.36
Chandigarh	183	0	-29	0	91	0	-7	-30	-0.24
Total	28594	2673	-622	-296	24383	1568	-36	-187	0.36

* 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	1910	2071	2052	45.01	1875	45.84	-0.83
	Rihand I STPS	1000	770	998	821	18.66	778	18.48	0.18
	Rihand II STPS	1000	970	1030	1034	23.55	981	23.28	0.27
	Dadri I STPS	840	769	825	802	18.58	774	18.46	0.12
	Dadri II STPS	980	922	985	743	21.57	899	21.27	0.29
	Unchahar I TPS	440	340	437	362	8.23	343	8.16	0.07
	Unchahar II TPS	440	342	437	361	8.27	345	8.21	0.06
	Unchahar III TPS	210	174	221	187	4.21	176	4.18	0.04
	ISTPP (Jhajihar)	500	451	464	406	9.84	410	9.89	-0.05
	Dadri GPS	830	613	545	560	13.04	543	13.05	-0.01
	Anta GPS	419	398	307	317	7.82	326	7.24	0.58
	Auraiya GPS	663	631	465	483	10.87	453	10.93	-0.06
	Sub Total (A)	9322	8290	8785	8128	189.65	7902	188.98	0.67
B. NPC	NAPS	440	199	227	235	4.72	197	4.78	-0.06
	RAPS- B	440	410	451	453	9.80	409	9.84	-0.04
	RAPS- C	440	420	475	475	10.35	431	10.08	0.27
	Sub Total (B)	1320	1029	1153	1163	24.87	1036	24.70	0.17
C. NHPC	Chamera I HPS	540	534	180	0	2.82	118	2.76	0.06
	Chamera II HPS	300	297	214	0	1.77	74	1.77	0.00
	Bairasuil HPS	180	179	120	0	0.64	27	0.71	-0.07
	Salal-HPS	690	149	230	207	3.46	144	3.54	-0.08
	Tanakpur-HPS	94	47	48	50	1.17	49	1.15	0.02
	Uri-HPS	480	152	221	102	4.04	168	3.76	0.28
	Dhauliganga-HPS	280	277	277	0	1.80	75	1.71	0.09
	Dulhasti-HPS	390	388	258	0	4.74	198	3.99	0.75
	Sewa-II HPS	120	119	39	0	0.36	15	0.35	0.01
	Sub Total (C)	3074	2141	1587	359	20.80	867	19.73	1.07
D. NJPC	Nathpa Jhakri	1500	1600	1595	180	11.07	461	10.74	0.34
	Sub Total (D)	1500	1600	1595	180	11.07	461	10.74	0.34
E. THDC	Tehri HPS	1000	1040	1039	0	4.03	168	4.00	0.03
	Koteshwar HPS	100	53	0	88	1.31	55	1.25	0.06
	Sub Total (E)	1100	1093	1039	88	5.34	222	5.25	0.09
F. BBMB	Bhakra HPS	1480	611	995	418	15.09	629	14.67	0.42
	Dehar HPS	990	218	495	155	5.46	228	5.24	0.22
	Pong HPS	396	231	306	186	5.80	242	5.55	0.25
	Sub Total (F)	2866	1061	1796	759	26.35	1098	25.45	0.90
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.55	23	0.56	-0.01
	KWHEP HPS(IPP)	1000	0	220	175	6.33	264	6.36	-0.03
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	76	111	2.77	115	2.69	0.08
	Sub Total (G)	1442	0	296	286	9.64	402	9.61	0.03
H. Total Regional Entities (A-G)		20625	15214	16251	10963	287.71	11988	284.46	3.26

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	1050.00	1050.00	23.68	987
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.64	193
	Guru Hargobind Singh TPS(L.mbt)	920	961.00	964.00	21.43	893
	Thermal (Total)	2620	2226.00	2229.00	49.74	2073
	Total Hydro	1148	318.00	268.00	11.41	475
	Total Punjab	3768	2544	2497	61.15	2548
Haryana	Panipat TPS	1360	955.00	969.00	23.85	994
	DCRTPP (Yamuna nagar)	600	270.00	273.00	6.70	279
	Faridabad GPS (NTPC)	432	404.00	379.00	9.52	397
	RGTPP (khedar) (IPP)	1200	835.00	966.00	23.17	965
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2464.00	2587.00	63.24	2635
	Total Hydro	62	31.00	38.00	0.89	37
	Total Haryana	3679	2495	2625	64.13	2672
Rajasthan	kota TPS	1240	1178.00	1177.00	27.66	1153
	suratgarh TPS	1500	1150.00	1142.00	27.13	1130
	Chabra TPS	500	379.00	385.00	9.50	396
	Dholpur GPS	330	280.00	285.00	6.92	288
	Ramgarh GPS	113	65.00	65.00	1.53	64
	RAPS A (NPC)	300	173.00	178.00	4.37	182
	Barsingsar (NLC)	250	98.00	81.00	2.17	90
	Giral LTPS (IPP)	250	58.00	96.00	1.46	61
	Rajwest LTPS (IPP)	135	70.00	365.00	1.62	67
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	3451.00	3774.00	82.36	3432
	Total Hydro	550	176.00	176.00	5.31	221
	Wind power	1294	173.00	0.00	2.35	98
	Biomass	71	45.00	45.00	0.98	41
	Renewable/Others (Total)	1365	218	45	3.33	139
	Total Rajasthan	6668	3845	3995	91.00	3792
	UP	Anpara TPS	1630	1518	1096	28.00
Obra TPS		1442	394	391	9.00	375
Paricha TPS		640	389	414	8.70	363
Panki TPS		210	120	145	3.00	125
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	402	403	10.92	455
Roza TPS (IPP)		600	567	536	13.40	558
Anpara-C (IPP)		600	0	234	2.78	116
Thermal (Total)		5937	3437	3261	77.43	3226
Vishnuparyag HPS (IPP)		400	159	149	3.62	151
Other Hydro		527	112	0	4.12	172
Cogeneration		951	50	50	1.20	50
Total UP		7815	3758	3460	86.36	3448
Uttarakhand		Total Hydro	1303	529	273	10.37
	Total Uttarakhand	1303	529	273	10.37	432
Delhi	Rajghat TPS	135	45	44	0.96	40
	Delhi Gas Turbine	282	153	155	3.76	157
	Pragati Gas Turbine	330	299	309	7.44	310
	Rithala GPS	108	22	29	0.59	24
	Bawana GPS	440	0	0	4.69	195
	Badarpur TPS (NTPC)	705	475	430	10.02	417
	Thermal (Total)	2000	994	967	27.45	1144
	Total Delhi	2000	994	967	27.45	1144
HP	Baspa HPS (IPP)	330	28	47	1.80	75
	Malana HPS (IPP)	101	1	0	0.39	16
	Other Hydro	571	219	176	4.76	199
	Total HP	1002	248	223	7	290
J & K	Baglihar HPS (IPP)	450	294	146	4.83	201
	Other Hydro	323	54	100	1.73	72
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	348	246	6.56	273
Total State Control Area Generation		27191	14761	14286	353.98	14599
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-143	337	16.77	699
Total Regional Availability(Gross)		47816	30869	25586	658.47	27285

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6313	1672	73.20	3050
State Control Area Hydro	5365	1762	1224	45.62	1901
Total Regional Hydro	15347	8075	2896	118.82	4951

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-400	-200	0	400	0.00	7.58	-7.58
Gwalior-Agra (D/C)	0	-214	800	245	2.94	0.00	2.94
Zerda-Kankroli	-201	-302	0	305	0.00	5.12	-5.12
Zerda-Bhinmal	-69	-165	125	242	0.00	1.60	-1.60
Malanpur-Auraiya	-193	-266	0	274	0.00	4.43	-4.43
Badod-Kota/Morak	-128	-192	0	147	0.00	3.56	-3.56
Sub Total WR	-991	-1339			2.94	22.28	-19.34
Pusauli Bypass	15	286	330	50	5.51	0.07	5.43
MZP- GKP (D/C)	314	586	690	0	11.80	0.00	11.80
Patna-Balia(D/C)	275	432	531	0	9.77	0.00	9.77
B'Sharif-Balia (D/C)	187	319	389	0	7.26	0.00	7.26
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	93	95	139	0	2.25	0.00	2.25
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-42	0	48	0.00	0.40	-0.40
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	848	1676			36.59	0.47	36.11
Total IR Exch	-143	337			39.53	22.75	16.77

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
19.51	1.01	20.52	3.77	-2.09	-0.72	-1.68	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
23.57	-8.48	15.09	36.11	-19.34	16.77	12.55	-10.86	1.68

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	0.00	0.50	13.30	57.60	86.60	42.30	2.60

<----- 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				
50.21	18.01	49.16	12.29	49.67	1.34	0.16	50.12	0.00

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	414	05:35	405	15:50	0.0	0.0	0.0	0.0
Gorakhpur	400	428	20:53	414	00:25	0.0	0.0	67.3	0.0
Bareilly	400	422	20:54	402	10:33	0.0	0.0	1.7	0.0
Kanpur	400	420	03:03	403	10:33	0.0	0.0	0.0	0.0
Dadri	400	420	03:03	400	10:31	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:03	401	10:29	0.0	0.0	5.6	0.0
Bawana	400	422	03:03	402	09:33	0.0	0.0	4.0	0.0
Bassi	400	427	03:03	396	18:54	0.0	0.0	6.1	0.0
Hissar	400	415	02:58	396	10:33	0.0	0.0	0.0	0.0
Moga	400	423	03:03	404	09:32	0.0	0.0	4.0	0.0
Abdullapur	400	424	02:58	402	11:12	0.0	0.0	7.2	0.0
Nalagarh	400	428	22:37	408	11:12	0.0	0.0	37.7	0.0
Kishenpur	400	415	04:22	394	10:33	0.0	0.0	0.0	0.0
Wagoora	400	401	03:03	367	19:10	45.7	76.1	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	509.29	1515.08	511.06	1605.30	251.28	363.39
Pong	426.72	384.05	419.68	875.55	422.14	990.81	57.23	353.76
Tehri	829.79	740.04	817.20	942.25	NA	NA	85.51	105.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.65	NA	754.30	NA	76.38	86.03
Rihand	268.22	252.98	264.99	613.40	257.83	193.70	NA	NA
RPS	352.80	343.81	350.65	NA	NA	NA	NA	122.92
Jawahar Sagar	298.70	295.78	297.91	NA	NA	NA	NA	235.31
RSD	527.91	487.91	520.65	NA	520.91	NA	65.92	123.69

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

1: CT Ratio changed of 400kV Singrauli - Allahabad ckt -2 from 1000/1 to 2000/1 at Singrauli end.

XI. Weather Conditions For 10.11.2011 :

Normal weather

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 : 10.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER