

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.11.2011
Date of Reporting : 19.11.2011

I. Regional Availability/Demand:

Evening Peak (19:00 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
28374	3175	31549	49.92	24509	1096	25605	49.88	639.6	58.63

* 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	48.07	10.00		58.06	23.78	23.88	0.10	81.95	6.65
Haryana	53.25	0.78		54.04	26.59	31.30	4.71	85.34	9.77
Rajasthan	77.73	5.35	8.92	91.99	47.52	54.98	7.47	146.98	8.98
Delhi	23.36			23.36	41.94	35.38	-6.56	58.74	0.09
UP	84.36	7.90	4.10	96.37	87.82	83.69	-4.13	180.05	31.06
Uttarakhand		9.46		9.46	17.49	18.46	0.97	27.93	0.46
HP		6.80		6.80	14.66	15.09	0.43	21.89	0.13
J & K		6.41	0.00	6.41	21.03	26.89	5.86	33.30	1.50
Chandigarh				0.00	3.63	3.44	-0.19	3.44	0.00
Total	286.77	46.70	13.02	346.49	284.46	293.12	8.67	639.61	58.63

* 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	3838	250	-111	-564	2896	0	-57	-737	-12.71
Haryana	3865	892	157	-88	2878	0	-68	-104	-2.49
Rajasthan	6105	694	257	301	6652	61	1022	426	11.68
Delhi	3066	39	-6	-257	1506	0	-833	-495	-8.04
UP	7188	1300	-1162	391	7576	1035	120	391	9.39
Uttarakhand	1445	0	72	316	978	0	19	316	7.58
HP	1047	0	-155	-336	681	0	122	4	-2.95
J&K	1634	0	155	79	1251	0	237	158	2.96
Chandigarh	186	0	-25	0	91	0	-5	-30	-0.24
Total	28374	3175	-818	-157	24509	1096	557	-71	5.19

* 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	1915	2052	2053	46.63	1943	45.96	0.67
	Rihand I STPS	1000	804	898	861	19.49	812	19.29	0.20
	Rihand II STPS	1000	977	1042	1039	23.64	985	23.45	0.19
	Dadri I STPS	840	585	633	555	13.76	574	13.65	0.11
	Dadri II STPS	980	922	990	1000	22.27	928	22.13	0.14
	Unchahar I TPS	440	400	442	439	9.69	404	9.60	0.09
	Unchahar II TPS	440	402	439	439	9.73	405	9.65	0.08
	Unchahar III TPS	210	201	219	222	4.85	202	4.82	0.03
	ISTPP (Jhajhar)	1000	475	504	508	11.30	471	11.28	0.02
	Dadri GPS	830	618	590	557	13.58	566	13.62	-0.04
	Anta GPS	419	407	341	330	8.90	371	8.48	0.42
	Auraiya GPS	663	618	582	445	11.94	498	11.95	-0.01
	Sub Total (A)	9822	8323	8732	8448	195.77	8157	193.87	1.90
B. NPC	NAPS	440	200	241	241	4.87	203	4.80	0.07
	RAPS- B	440	190	217	222	4.78	199	4.56	0.22
	RAPS- C	440	420	472	474	10.25	427	10.08	0.17
	Sub Total (B)	1320	810	930	937	19.90	829	19.44	0.46
C. NHPC	Chamera I HPS	540	534	360	0	3.11	130	3.00	0.11
	Chamera II HPS	300	297	171	0	1.61	67	1.63	-0.02
	Bairasuil HPS	180	179	60	0	0.65	27	0.65	0.00
	Salal-HPS	690	153	150	215	3.54	148	3.67	-0.13
	Tanakpur-HPS	94	40	50	40	1.06	44	1.05	0.01
	Uri-HPS	480	153	239	120	3.93	164	3.88	0.05
	Dhauliganga-HPS	280	277	276	0	1.65	69	1.66	0.00
	Dulhasti-HPS	390	388	376	0	3.97	165	3.75	0.22
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	2020	1682	375	19.51	813	19.28	0.23
D. NJPC	Nathpa Jhakri	1500	1600	1585	0	8.99	374	8.85	0.14
	Sub Total (D)	1500	1600	1585	0	8.99	374	8.85	0.14
E. THDC	Tehri HPS	1000	693	1012	0	4.08	170	4.00	0.08
	Koteshwar HPS	200	53	87	87	1.27	53	1.25	0.02
	Sub Total (E)	1200	746	1099	87	5.35	223	5.25	0.10
F. BBMB	Bhakra HPS	1480	632	994	416	15.39	641	15.16	0.23
	Dehar HPS	990	189	495	0	4.52	188	4.53	0.00
	Pong HPS	396	234	306	180	5.84	243	5.62	0.22
	Sub Total (F)	2866	1054	1795	596	25.75	1073	25.30	0.45
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.45	19	0.44	0.01
	KWHEP HPS(IPP)	1000	0	390	125	5.39	225	5.31	0.08
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	135	137	3.21	134	2.76	0.45
	Sub Total (G)	1442	0	525	262	9.06	377	8.51	0.54
H. Total Regional Entities (A-G)		21225	14555	16348	10705	284.33	11847	280.51	3.82

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	1045.00	1045.00	23.38	974	
	Guru Nanak Dev TPS(Bhatinda)	440	210.00	210.00	4.60	192	
	Guru Hargobind Singh TPS(L.mbt)	920	904.00	920.00	20.09	837	
	Thermal (Total)	2620	2159.00	2175.00	48.07	2003	
	Total Hydro	1148	365.00	244.00	10.00	417	
	Total Punjab	3768	2524	2419	58.06	2419	
Haryana	Panipat TPS	1360	1038.00	882.00	23.72	988	
	DCRTPP (Yamuna nagar)	600	272.00	271.00	6.70	279	
	Faridabad GPS (NTPC)	432	407.00	325.00	9.33	389	
	RGTPP (khedar) (IPP)	1200	526.00	520.00	13.51	563	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2243.00	1998.00	53.25	2219	
	Total Hydro	62	19.00	36.00	0.78	33	
	Total Haryana	3679	2262	2034	54.04	2252	
Rajasthan	kota TPS	1240	1169.00	1169.00	27.62	1151	
	suratgarh TPS	1500	1153.00	1137.00	26.09	1087	
	Chabra TPS	500	400.00	190.00	6.43	268	
	Dholpur GPS	330	284.00	279.00	6.76	282	
	Ramgarh GPS	113	65.00	65.00	1.66	69	
	RAPS A (NPC)	300	0.00	0.00	0.00	0	
	Barsingsar (NLC)	250	42.00	42.00	0.94	39	
	Giral LTPS (IPP)	250	84.00	47.00	1.07	44	
	Rajwst LTPS (IPP)	540	300.00	300.00	7.17	299	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3497.00	3229.00	77.73	3239	
	Total Hydro	550	165.00	182.00	5.35	223	
	Wind power	1294	100.00	432.00	7.90	329	
	Biomass	71	42.00	42.00	1.02	42	
	Solar	50	0.00	0.00	0.00	0	
	Renewable/Others (Total)	1365	142	474	8.92	372	
		Total Rajasthan	7073	3804	3885	91.99	3833
UP	Anpara TPS	1630	1541	1509	32.80	1367	
	Obra TPS	1442	646	665	13.40	558	
	Paricha TPS	640	398	410	8.70	363	
	Panki TPS	210	179	183	3.90	163	
	Harduaganj TPS	415	30	30	0.60	25	
	Tanda TPS (NTPC)	440	396	400	9.74	406	
	Roza TPS (IPP)	600	567	563	13.90	579	
	Anpara-C (IPP)	1200	0	0	0.00	0	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	37	61	1.32	55	
	Thermal (Total)	6757	3794	3821	84.36	3515	
	Vishnuparyag HPS (IPP)	400	139	149	3.27	136	
	Other Hydro	527	255	47	4.63	193	
	Cogeneration	951	170	170	4.10	171	
		Total UP	8635	4358	4187	96.37	3879
	Uttarakhand	Total Hydro	1303	463	274	9.46	394
Total Uttarakhand		1303	463	274	9.46	394	
Delhi	Rajghat TPS	135	42	43	1.20	50	
	Delhi Gas Turbine	282	194	180	4.64	194	
	Pragati Gas Turbine	330	244	305	6.28	262	
	Rithala GPS	108	22	29	0.56	23	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	410	10.69	445	
	Thermal (Total)	2000	992	967	23.36	973	
	Total Delhi	2000	992	967	23.36	973	
HP	Baspa HPS (IPP)	330	0	0	1.61	67	
	Malana HPS (IPP)	101	0	0	0.33	14	
	Other Hydro	571	248	115	4.85	202	
	Total HP	1002	248	115	7	283	
J & K	Baglihar HPS (IPP)	450	293	146	4.68	195	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	347	246	6.41	267	
Total State Control Area Generation		28416	14998	14127	346.49	14301	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-188	844	24.91	1038	
Total Regional Availability(Gross)		49641	31158	25676	655.73	27186	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6686	1320	68.65	2861
State Control Area Hydro	5365	1862	1144	43.43	1810
Total Regional Hydro	15447	8548	2464	112.08	4670

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	6.10	-6.10
Gwalior-Agra (D/C)	-60	-34	516	60	5.57	0.00	5.57
Zerda-Kankroli	-157	-160	0	282	0.00	3.85	-3.85
Zerda-Bhinmal	-32	-74	70	200	0.00	1.95	-1.95
Malanpur-Auraiya	-256	-248	0	256	0.00	4.59	-4.59
Badod-Kota/Morak	-82	-80	0	112	0.00	1.72	-1.72
Sub Total WR	-987	-796			5.57	18.21	-12.64
Pusauli Bypass	-122	229	397	122	4.65	0.25	4.40
MZP- GKP (D/C)	282	537	792	0	12.40	0.00	12.40
Patna-Balia(D/C)	403	494	817	0	12.37	0.00	12.37
B'Sharif-Balia (D/C)	138	329	404	0	7.11	0.00	7.11
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	133	91	148	0	2.15	0.00	2.15
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-40	0	48	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	799	1640			38.68	1.13	37.55
Total IR Exch	-188	844			44.25	19.34	24.91

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
23.19	1.00	24.18	6.82	-1.66	-0.63	-4.22	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
30.38	-11.50	18.88	37.55	-12.64	24.91	7.18	-1.14	6.03

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	0.30	1.40	18.40	50.30	81.60	49.70	3.10	0.00

<----- 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				
50.17	18.01	48.92	17.50	49.68	1.44	0.20	50.04	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	408	23:59	399	14:24	0.0	0.0	0.0	0.0
Gorakhpur	400	431	01:23	404	11:15	0.0	0.0	69.0	0.4
Bareilly	400	423	04:02	397	10:24	0.0	0.0	3.8	0.0
Kanpur	400	416	04:06	400	10:23	0.0	0.0	0.0	0.0
Dadri	400	420	04:04	400	10:23	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:05	401	10:22	0.0	0.0	3.8	0.0
Bawana	400	424	03:10	402	10:24	0.0	0.0	8.0	0.0
Bassi	400	423	04:06	401	00:40	0.0	0.0	2.5	0.0
Hissar	400	417	03:07	397	10:22	0.0	0.0	0.0	0.0
Moga	400	423	03:09	401	10:22	0.0	0.0	5.5	0.0
Abdullapur	400	427	03:06	405	10:22	0.0	0.0	14.4	0.0
Nalagarh	400	421	07:57	402	11:26	0.0	0.0	2.9	0.0
Kishenpur	400	416	03:07	390	07:47	0.0	0.0	0.0	0.0
Wagoora	400	399	17:02	367	22:31	40.9	97.8	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	508.83	1485.27	510.58	1575.10	230.73	368.49
Pong	426.72	384.05	418.96	848.35	421.54	961.02	58.73	419.12
Tehri	829.79	740.04	817.26	942.25	NA	NA	75.28	74.00
Koteshwar	612.50	598.50	599.90	0.45	NA	NA	75.00	79.00
Chamera-I	760.00	748.75	755.31	NA	755.14	1.60	75.16	74.28
Rihand	268.22	252.98	NA	NA	277.77	191.10	NA	NA
RPS	352.80	343.81	350.66	NA	349.00	NA	NA	252.19
Jawahar Sagar	298.70	295.78	297.88	NA	297.88	NA	NA	222.85
RSD	527.91	487.91	519.77	NA	520.43	NA	99.11	158.21

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.11.2011 :

1. Fog reported at Meerut , Abdulapur, Mandola, Bareilly & Muradnagar.

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 :

1. All lines from Unnao S/S (UPPCL) tripped at 01.15 Hrs/19.11.2011 Tripping details awaited.

XV. Complete generation loss in a generating station :

Report for : 18.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER