

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.11.2011
Date of Reporting : 14.11.2011

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
28149	2018	30167	49.96	23320	1798	25118	49.76	626.5	49.40

* 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	48.56	11.06		59.63	23.78	21.59	-2.18	81.22	2.29
Haryana	55.10	0.86		55.96	26.65	28.17	1.52	84.13	2.61
Rajasthan	77.83	5.24	1.82	84.90	44.94	57.85	12.91	142.75	20.47
Delhi	28.02			28.02	41.65	28.98	-12.67	57.00	0.01
UP	93.97	7.61	1.20	102.78	84.75	76.79	-7.96	179.57	22.52
Uttarakhand		10.35		10.35	16.94	16.01	-0.93	26.36	0.00
HP		6.85		6.85	15.30	14.22	-1.07	21.07	0.00
J & K		7.32	0.00	7.32	21.04	24.24	3.20	31.57	1.50
Chandigarh				0.00	3.47	2.89	-0.58	2.89	0.00
Total	303.48	49.30	3.02	355.80	278.51	270.75	-7.76	626.55	49.40

* 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	3605	150	-547	-564	3013	0	-910	-737	-12.71
Haryana	3897	502	-241	-94	2766	0	-480	-94	-2.36
Rajasthan	6583	351	1658	95	5509	1013	1014	220	6.74
Delhi	2762	0	-940	-270	1559	0	-778	-477	-7.99
UP	7301	1015	-1084	391	7490	785	-816	391	9.39
Uttarakhand	1341	0	166	316	961	0	140	316	7.58
HP	1050	0	43	-305	678	0	83	-47	-3.51
J&K	1453	0	294	73	1257	0	602	103	2.00
Chandigarh	157	0	-84	0	87	0	-32	-30	-0.24
Total	28149	2018	-735	-357	23320	1798	-1177	-355	-1.12

* 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	1624	1840	1679	38.98	1624	38.99	-0.01
	Rihand I STPS	1000	770	837	821	18.55	773	18.48	0.07
	Rihand II STPS	1000	975	1033	1046	23.58	982	23.40	0.18
	Dadri I STPS	840	769	840	650	17.95	748	17.69	0.27
	Dadri II STPS	980	922	978	980	22.23	926	22.09	0.13
	Unchahar I TPS	440	370	435	402	8.94	372	8.88	0.06
	Unchahar II TPS	440	372	432	398	8.98	374	8.92	0.05
	Unchahar III TPS	210	185	218	208	4.50	187	4.45	0.05
	ISTPP (Jhajihar)	500	455	483	472	10.75	448	10.79	-0.04
	Dadri GPS	830	613	567	528	12.42	518	12.70	-0.28
	Anta GPS	419	400	355	365	8.33	347	8.18	0.15
	Auraiya GPS	663	619	458	465	10.77	449	10.77	0.00
	Sub Total (A)	9322	8076	8476	8014	185.98	7749	185.34	0.64
B. NPC	NAPS	440	199	229	235	4.77	199	4.78	-0.02
	RAPS- B	440	404	452	454	9.83	409	9.70	0.13
	RAPS- C	440	420	467	475	10.16	424	10.08	0.08
	Sub Total (B)	1320	1023	1148	1164	24.76	1031	24.56	0.20
C. NHPC	Chamera I HPS	540	534	540	0	2.62	109	2.83	-0.21
	Chamera II HPS	300	297	180	0	1.86	78	1.91	-0.05
	Bairasuil HPS	180	179	70	0	0.58	24	0.69	-0.11
	Salal-HPS	690	182	206	210	4.43	184	4.32	0.11
	Tanakpur-HPS	94	47	54	52	1.16	48	1.18	-0.02
	Uri-HPS	480	182	155	161	4.40	183	4.75	-0.35
	Dhauliganga-HPS	280	277	240	0	1.63	68	1.71	-0.08
	Dulhasti-HPS	390	388	404	0	4.50	188	4.74	-0.24
	Sewa-II HPS	120	119	117	0	0.36	15	0.36	0.00
	Sub Total (C)	3074	2204	1966	423	21.54	897	22.50	-0.96
D. NJPC	Nathpa Jhakri	1500	1600	1601	0	11.53	480	11.07	0.46
	Sub Total (D)	1500	1600	1601	0	11.53	480	11.07	0.46
E. THDC	Tehri HPS	1000	693	1038	0	3.11	129	3.25	-0.14
	Koteshwar HPS	100	53	87	85	1.27	53	1.25	0.02
	Sub Total (E)	1100	746	1125	85	4.38	182	4.50	-0.12
F. BBMB	Bhakra HPS	1480	609	995	417	14.95	623	14.61	0.34
	Dehar HPS	990	202	495	140	4.89	204	4.84	0.05
	Pong HPS	396	233	300	240	5.86	244	5.59	0.27
	Sub Total (F)	2866	1043	1790	797	25.70	1071	25.04	0.66
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.56	-0.04
	KWHEP HPS(IPP)	1000	0	402	174	6.61	275	6.59	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	115	122	2.93	122	2.50	0.43
	Sub Total (G)	1442	0	517	296	10.04	419	9.65	0.40
H. Total Regional Entities (A-G)		20625	14692	16623	10779	283.92	11830	282.65	1.27

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	875.00	1045.00	22.67	944	
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.59	191	
	Guru Hargobind Singh TPS(L.mbt)	920	928.00	970.00	21.31	888	
	Thermal (Total)	2620	2018.00	2230.00	48.56	2023	
	Total Hydro	1148	255.00	314.00	11.06	461	
	Total Punjab	3768	2273	2544	59.63	2484	
Haryana	Panipat TPS	1360	981.00	584.00	20.66	861	
	DCRTPP (Yamuna nagar)	600	272.00	273.00	6.62	276	
	Faridabad GPS (NTPC)	432	411.00	417.00	9.85	411	
	RGTPP (khedar) (IPP)	1200	715.00	632.00	17.96	748	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2379.00	1906.00	55.10	2296	
	Total Hydro	62	39.00	39.00	0.86	36	
	Total Haryana	3679	2418	1945	55.96	2332	
Rajasthan	kota TPS	1240	979.00	983.00	23.36	973	
	suratgarh TPS	1500	1152.00	1053.00	26.38	1099	
	Chabra TPS	500	0.00	305.00	5.50	229	
	Dholpur GPS	330	277.00	277.00	6.65	277	
	Ramgarh GPS	113	65.00	65.00	1.64	68	
	RAPS A (NPC)	300	174.00	174.00	4.37	182	
	Barsingsar (NLC)	250	42.00	52.00	1.09	45	
	Giral LTPS (IPP)	250	101.00	0.00	1.40	58	
	Rajwst LTPS (IPP)	135	334.00	224.00	7.45	310	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	4753	3124.00	3133.00	77.83	3243	
	Total Hydro	550	266.00	135.00	5.24	219	
	Wind power	1294	0.00	39.00	0.99	41	
	Biomass	71	39.00	39.00	0.83	35	
	Renewable/Others (Total)	1365	39	78	1.82	76	
		Total Rajasthan	6668	3429	3346	84.90	3537
	UP	Anpara TPS	1630	1512	1443	32.10	1338
Obra TPS		1442	189	533	8.50	354	
Paricha TPS		640	361	389	8.60	358	
Panki TPS		210	165	185	3.80	158	
Harduaganj TPS		375	188	210	3.70	154	
Tanda TPS (NTPC)		440	400	392	9.74	406	
Roza TPS (IPP)		600	563	567	13.57	565	
Anpara-C (IPP)		600	621	500	12.92	538	
Thermal (Total)		5937	4035	4274	93.97	3915	
Vishnuparyag HPS (IPP)		400	149	149	3.51	146	
Other Hydro		527	195	0	4.11	171	
Cogeneration		951	50	50	1.20	50	
		Total UP	7815	4429	4473	102.78	4137
Uttarakhand	Total Hydro	1303	577	357	10.35	431	
	Total Uttarakhand	1303	577	357	10.35	431	
Delhi	Rajghat TPS	135	98	102	2.34	98	
	Delhi Gas Turbine	282	195	156	3.93	164	
	Pragati Gas Turbine	330	303	310	7.49	312	
	Rithala GPS	108	21	29	0.47	19	
	Bawana GPS	440	160	43	4.11	171	
	Badarpur TPS (NTPC)	705	385	395	9.68	403	
	Thermal (Total)	2000	1162	1102	28.02	1167	
	Total Delhi	2000	1162	1102	28.02	1167	
HP	Baspa HPS (IPP)	330	32	32	1.72	72	
	Malana HPS (IPP)	101	20	0	0.37	15	
	Other Hydro	571	234	126	4.75	198	
		Total HP	1002	286	158	7	285
J & K	Baglihar HPS (IPP)	450	233	233	5.59	233	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	287	333	7.32	305
Total State Control Area Generation		27191	14861	14258	355.80	14679	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-319	-416	-4.03	-168	
Total Regional Availability(Gross)		47816	31165	24621	635.69	26341	

IV. Total Hydro Generation:

Regional Entities Hydro	9983	6999	1601	73.19	3049
State Control Area Hydro	5365	1905	1336	45.80	1908
Total Regional Hydro	15347	8904	2937	118.99	4958

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	-500	0	500	0.00	10.05	-10.05
Gwalior-Agra (D/C)	-182	-295	278	358	0.00	2.92	-2.92
Zerda-Kankroli	-193	-308	0	369	0.00	6.73	-6.73
Zerda-Bhinmal	-59	-162	15	271	0.00	3.83	-3.83
Malanpur-Auraiya	-264	-281	0	300	0.00	5.71	-5.71
Badod-Kota/Morak	50	-255	80	291	0.00	2.34	-2.34
Sub Total WR	-1048	-1801			0.00	31.57	-31.57
Pusauli Bypass	250	150	250	0	5.15	0.00	5.15
MZP- GKP (D/C)	200	580	686	0	6.26	0.00	6.26
Patna-Balia(D/C)	247	361	596	0	9.15	0.00	9.15
B'Sharif-Balia (D/C)	-45	246	323	45	4.52	0.00	4.52
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	113	90	167	0	2.87	0.00	2.87
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	729	1385			27.94	0.40	27.54
Total IR Exch	-319	-416			27.94	31.97	-4.03

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
21.71	1.07	22.78	3.53	-3.33	-3.01	-3.76	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
23.30	-12.59	10.71	27.54	-31.57	-4.03	4.24	-18.98	-14.74

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	0.10	6.10	40.40	94.90	59.60	5.20	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				
50.19	19.00	49.20	5.27	49.74	0.93	0.16	49.97	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	409	04:43	405	00:12	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	509.22	1515.08	510.98	1590.18	250.01	382.28
Pong	426.72	384.05	419.57	875.55	422.04	990.81	51.23	332.26
Tehri	829.79	740.04	817.20	942.25	NA	NA	83.11	81.00
Koteshwar	612.50	598.50	601.80	1.15	NA	NA	91.00	132.00
Chamera-I	760.00	748.75	754.60	NA	NA	NA	70.22	56.12
Rihand	268.22	252.98	264.93	609.00	257.80	192.40	NA	NA
RPS	352.80	343.81	353.49	NA	NA	NA	NA	89.33
Jawahar Sagar	298.70	295.78	297.76	NA	NA	NA	NA	88.43
RSD	527.91	487.91	520.17	NA	520.54	NA	100.47	182.87

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 13.11.2011 :
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 : 13.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER