

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.11.2013
Date of Reporting : 13.11.2013

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
33448	1755	35203	50.15	26125	980	27105	50.18	709.8	37.23

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load 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	23.69	10.63		34.32	46.64	48.95	2.31	83.27	0.00
Haryana	54.31	0.67		54.98	41.88	43.06	1.18	98.04	0.00
Rajasthan	91.93	5.30	4.75	101.99	76.70	72.91	-3.79	174.90	0.00
Delhi	14.58			14.58	43.49	43.04	-0.45	57.62	0.00
UP	125.32	2.99	1.20	129.51	74.16	74.12	-0.04	203.63	34.26
Uttarakhand		11.34		11.34	18.64	19.97	1.33	31.31	1.30
HP		7.50		7.50	14.14	15.05	0.91	22.55	0.07
J & K		7.89	0.00	7.89	28.19	27.31	-0.88	35.19	1.60
Chandigarh				0.00	3.04	3.24	0.20	3.24	0.00
Total	309.83	46.33	5.95	362.11	346.88	347.64	0.77	709.75	37.23

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

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	STOA/PX transaction	
Punjab	4237	0	152	-402	2862	0	224	-50	-2.63	
Haryana	5181	0	-107	-994	3479	0	-57	-1023	-26.28	
Rajasthan	7504	0	-414	662	6880	0	-310	990	29.62	
Delhi	3120	0	52	-673	1468	0	-43	-1214	-20.07	
UP	8791	1580	-285	-203	8400	980	242	-222	-6.39	
Uttarakhand	1578	75	70	352	1037	0	56	336	8.42	
HP	1149	0	19	-296	690	0	92	61	0.50	
J&K	1708	100	-177	276	1222	0	-93	309	7.11	
Chandigarh	181	0	8	0	86	0	-2	0	-0.04	
Total	33448	1755	-682	-1278	26125	980	110	-812	-9.76	

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

III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS	2000	1882	1862	2080	45.03	1876	45.16	-0.13
	Rihand I STPS	1000	521	526	503	10.65	444	12.49	-1.84
	Rihand II STPS	1000	706	1032	709	17.00	708	16.94	0.06
	Rihand III STPS	1000	389	486	409	9.35	390	9.35	0.01
	Dadri I STPS	840	812	635	472	12.98	541	13.08	-0.10
	Dadri II STPS	980	980	965	715	20.96	873	21.35	-0.39
	Unchahar I TPS	420	405	437	370	9.25	385	9.30	-0.05
	Unchahar II TPS	420	362	431	158	8.40	350	8.25	0.14
	Unchahar III TPS	210	201	217	165	4.50	188	4.52	-0.01
	ISTPP (Jhajjar)	1500	1480	641	638	14.74	614	14.72	0.02
	Dadri GPS	830	817	600	505	13.24	552	13.50	-0.27
	Anta GPS	419	414	273	253	6.40	267	6.52	-0.12
	Auraiya GPS	663	490	322	305	7.43	310	7.65	-0.22
	Sub Total (A)	11282	9460	8427	7282	179.93	7497	182.82	-2.89
	B. NPC	NAPS	440	317	351	361	7.59	316	7.61
RAPS- B		440	415	461	458	10.00	417	9.96	0.04
RAPS- C		440	430	477	478	10.24	427	10.32	-0.08
Sub Total (B)		1320	1162	1289	1297	27.84	1160	27.89	-0.05
C. NHPC	Chamera I HPS	540	540	540	0	2.48	103	2.40	0.08
	Chamera II HPS	300	300	303	0	1.74	73	1.74	0.00
	Chamera III HPS	231	154	149	0	1.08	45	1.03	0.05
	Bairasuil HPS	180	182	70	0	0.66	27	0.73	-0.08
	Salal-HPS	690	173	35	115	4.18	174	4.22	-0.04
	Tanakpur-HPS	94	44	55	42	1.05	44	1.06	-0.01
	Uri-HPS	480	134	226	118	3.39	141	3.27	0.12
	Uri-II HPS	120	76	101	37	1.88	78	1.83	0.04
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	256	0	3.64	152	3.64	0.00
	Sewa-II HPS	120	119	118	0	0.35	15	0.33	0.02
	Sub Total (C)	3425	2110	1853	312	20.45	852	20.26	0.18
	D. NJPC	Nathpa Jhakri	1500	1605	1614	0	11.02	459	11.01
Sub Total (D)		1500	1605	1614	0	11.02	459	11.01	0.01
E. THDC	Tehri HPS	1000	1060	1060	0	5.67	236	5.50	0.17
	Koteshwar HPS	400	92	100	91	2.22	93	2.20	0.02
	Sub Total (E)	1400	1152	1160	91	7.89	329	7.70	0.19
F. BBMB	Bhakra HPS	1497	567	995	372	14.09	587	13.60	0.49
	Dehar HPS	990	172	495	0	4.50	188	4.13	0.37
	Pong HPS	396	245	312	192	5.92	247	5.87	0.05
	Sub Total (F)	2883	983	1802	564	24.51	1021	23.60	0.91
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	71	0	0.60	25	0.51	0.10
	KWHEP HPS(IPP)	1000	0	230	0	5.46	228	5.52	-0.06
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	120	83	2.76	115	2.78	-0.02
	Budhil HPS(IPP)	70	0	10	7	0.11	5	0.00	0.11
	Sub Total (G)	1662	0	431	90	8.94	372	8.80	0.13
H. Total Regional Entities (A-G)	23472	16471	16576	9636	280.57	11690	282.08	-1.52	

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	614	300	10.38	432	
	Guru Nanak Dev TPS(Bhatinda)	440	120	102	2.34	97	
	Guru Hargobind Singh TPS(L.mbt)	920	508	501	10.98	457	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1242	903	23.69	987	
	Total Hydro	1148	424	463	10.63	443	
	Total Punjab	3768	1666	1366	34.32	1430	
Haryana	Panipat TPS	1367	221	210	5.15	215	
	DCRTPP (Yamuna nagar)	600	513	501	12.07	503	
	Faridabad GPS (NTPC)	432	167	158	4.16	173	
	RGTPP (khedar) (IPP)	1200	552	430	11.56	482	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1049	703	21.38	891	
	Thermal (Total)	4944	2502	2002	54.31	2263	
	Total Hydro	62	28	27	0.67	28	
		Total Haryana	5006	2530	2029	54.98	2291
	Rajasthan	kota TPS	1240	1160	1159	27.16	1132
suratgarh TPS		1500	1111	1122	25.41	1059	
Chabra TPS		500	434	433	9.98	416	
Dholpur GPS		330	52	151	2.70	113	
Ramgarh GPS		111	161	131	3.62	151	
RAPS A (NPC)		300	180	180	4.09	170	
Barsingsar (NLC)		250	219	212	4.86	203	
Giral LTPS		250	26	25	1.09	46	
Rajwest LTPS (IPP)		1080	0	0	0.00	0	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	572	469	13.02	543	
Thermal (Total)		6956	3915	3882	91.93	3831	
Total Hydro		550	280	139	5.30	221	
Wind power		2191	86	204	3.40	142	
Biomass		91	25	25	0.61	25	
Solar		201	0	0	0.75	31	
Renewable/Others (Total)		2483	111	229	4.75	198	
		Total Rajasthan	9989	4306	4250	101.99	4250
UP		Anpara TPS	1630	1355	894	23.20	967
	Obra TPS	1288	529	395	10.10	421	
	Paricha TPS	1140	659	641	14.00	583	
	Panki TPS	210	65	75	1.60	67	
	Harduaganj TPS	665	506	482	10.90	454	
	Tanda TPS (NTPC)	440	399	401	9.79	408	
	Roza TPS (IPP)	1200	761	1071	24.18	1007	
	Anpara-C (IPP)	1200	796	1049	24.07	1003	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	257	322	7.48	312	
	Thermal (Total)	8223	5327	5330	125.32	5222	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	145	124	2.99	125	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5522	5504	129.51	5396
Uttarakhand	Total Hydro	1303	558	288	11.34	473	
	Total Uttarakhand	1303	558	288	11.34	473	
Delhi	Raighat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	84	84	1.96	82	
	Pragati Gas Turbine	330	310	261	6.70	279	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	280	245	5.93	247	
	Thermal (Total)	2232	674	590	14.58	607	
	Total Delhi	2232	674	590	14.58	607	
HP	Baspa HPS (IPP)	330	56	28	1.93	80	
	Malana HPS (IPP)	86	10	0	0.33	14	
	Other Hydro	589	221	196	5.24	218	
		Total HP	1005	287	224	7.50	313
J & K	Baglihar HPS (IPP)	450	294	144	5.40	225	
	Other Hydro	323	90	115	2.49	104	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	384	259	7.89	329
Total State Control Area Generation		34390	15927	14510	362.11	15088	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2760	3237	81.75	3406	
Total Regional Availability(Gross)		57862	35263	27383	724.43	30185	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6730	967	69.93	2914
State Control Area Hydro	5368	2106	1524	46.33	1930
Total Regional Hydro	15868	8836	2491	116.26	4844

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	-300	-500	0	500	0.00	9.20	-9.20
Gwalior-Agra (D/C)	535	954	1127	0	17.81	0.00	17.81
Zerda-Kankroli	-131	-249	0	325	0.00	3.64	-3.64
Zerda-Bhinmal	21	-96	229	150	0.00	0.25	-0.25
Malanpur-Auraiya	-157	-122	0	189	0.00	3.57	-3.57
Badod-Kota/Morak	-3	-114	0	165	0.00	1.52	-1.52
Mundra-Mohindergarh(HVDC)	1502	1502	1504	0	36.26	0.00	36.26
Sub Total WR	1467	1375			54.06	18.18	35.89
Pusauli Bypass	200	100	200	0	3.17	0.00	3.17
MZP- GKP (D/C)	108	630	903	0	13.25	0.00	13.25
Patna-Balia(D/C)	463	481	729	0	12.63	0.00	12.63
B'Sharif-Balia (D/C)	358	327	537	0	9.01	0.00	9.01
Pusauli-Balia	41	67	135	28	1.69	0.00	1.69
Gaya-Fatehpur (765 Kv)	30	186	370	40	4.52	0.00	4.52
Pusauli-Sahupuri	131	103	131	0	2.54	0.00	2.54
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-32	0	38	0.00	0.94	-0.94
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1293	1862			46.81	0.94	45.87
Total IR Exch	2760	3237			100.87	19.12	81.75

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
36.50	1.32	37.82	1.40	-28.50	9.40	2.10	2.95	-2.95

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
51.57	30.53	82.10	45.87	35.89	81.75	-5.71	5.36	-0.35

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.40	94.70	6.50	94.30	49.80	5.30

<----- 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				
50.38	21.58	49.68	6.47	49.99	0.16	0.13	50.37	49.82

VII. Voltage profile 400 kV

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	21:44	409	18:01	0.0	0.0	0.0	0.0
Gorakhpur	400	425	22:00	411	14:00	0.0	0.0	0.0	0.0
Barilly	400	423	21:57	407	14:46	0.0	0.0	5.8	0.0
Kanpur	400	422	04:04	404	10:17	0.0	0.0	4.0	0.0
Dadri	400	426	03:03	407	10:17	0.0	0.0	31.8	0.0
Ballabgarh	400	433	21:58	414	18:14	0.0	0.0	33.4	5.0
Bawana	400	428	03:03	409	10:17	0.0	0.0	38.6	0.0
Bassi	400	425	20:44	391	07:12	0.0	0.0	9.0	0.0
Hissar	400	420	04:03	398	10:17	0.0	0.0	0.0	0.0
Moga	400	426	03:03	402	18:18	0.0	0.0	21.5	0.0
Abdullapur	400	424	03:00	404	10:24	0.0	0.0	0.0	0.0
Nalagarh	400	430	03:03	409	10:38	0.0	0.0	37.0	0.0
Kishenpur	400	428	03:35	398	18:10	0.0	0.0	18.1	0.0
Wagoora	400	413	03:01	376	18:14	7.0	19.2	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	775	20:45	741	10:17	0.0	0.2	0.0	0.0
Balia	765	763	20:55	735	10:17	0.0	32.6	0.0	0.0
Moga	765	797	03:03	755	18:18	0.0	0.0	0.0	0.0
Agra	765	812	20:50	765	07:22	0.0	0.0	12.9	0.0
Bhiwani	765	773	11:47	765	10:18	0.0	0.0	0.0	0.0
Unnao	765	764	00:00	737	10:17	0.0	14.6	0.0	0.0

IX. 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	510.02	1545.02	503.22	1232.31	247.21	423.53
Pong	426.72	384.05	418.90	848.35	377.24	821.34	110.86	377.24
Tehri	829.79	740.04	822.95	1065.64	818.65	982.26	71.76	142.00
Koteshwar	612.50	598.50	611.60	5.50	NA	NA	142.00	146.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	64.37	72.29
Rihand	268.22	252.98	261.85	410.00	263.07	484.00	NA	NA
RPS	352.80	343.81	351.55	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.61	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.68	144.00	520.83	144.00	90.81	156.54

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 12.11.2013 :

1. Normal weather in NR.

XIII. Synchronisation of new generating units :
0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.
Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Mar, 2014 .

Report for : 12.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER