

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.11.2013
Date of Reporting : 16.11.2013

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
32480	1776	34256	50.14	26702	750	27452	50.14	704.0	50.92

* 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	39.49	11.72		51.21	30.69	32.67	1.98	83.87	4.45
Haryana	54.44	0.66		55.10	39.61	44.38	4.77	99.48	1.08
Rajasthan	95.24	5.51	9.77	110.51	66.83	65.54	-1.28	176.06	0.27
Delhi	15.31			15.31	41.13	42.50	1.37	57.81	0.01
UP	117.47	2.47	1.20	121.14	74.51	71.03	-3.48	192.16	41.11
Uttarakhand		10.46		10.46	17.25	18.54	1.29	29.00	2.50
HP		6.76		6.76	16.15	16.96	0.81	23.72	0.00
J & K		7.28	0.00	7.28	27.68	31.29	3.61	38.57	1.50
Chandigarh				0.00	3.00	3.31	0.31	3.31	0.00
Total	321.94	44.86	10.97	377.76	316.83	326.20	9.37	703.97	50.92

* 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	4194	0	26	-436	2986	0	203	-542	-9.89	
Haryana	4904	221	305	-966	3669	0	234	-993	-25.27	
Rajasthan	7741	0	-52	239	6629	0	-169	684	25.87	
Delhi	3048	0	-47	-685	1438	0	6	-986	-18.81	
UP	7940	1380	-664	-203	8624	750	-57	406	-3.29	
Uttarakhand	1555	75	7	366	1072	0	201	229	6.63	
HP	1171	0	22	-83	744	0	48	261	3.12	
J&K	1745	100	-21	374	1450	0	99	309	7.21	
Chandigarh	182	0	3	0	91	0	9	-5	-0.04	
Total	32480	1776	-422	-1392	26702	750	573	-638	-14.48	

* 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	1860	2005	1996	44.66	1861	44.64	0.02
	Rihand I STPS	1000	729	959	760	17.54	731	17.42	0.12
	Rihand II STPS	1000	742	1041	757	17.86	744	17.77	0.09
	Rihand III STPS	1000	411	504	431	9.90	413	9.87	0.03
	Dadri I STPS	840	812	651	490	12.22	509	13.64	-1.42
	Dadri II STPS	980	980	1010	870	22.44	935	22.78	-0.34
	Unchahar I TPS	420	405	420	439	9.39	391	9.62	-0.23
	Unchahar II TPS	420	404	428	440	9.52	397	9.64	-0.12
	Unchahar III TPS	210	201	216	126	4.78	199	4.79	-0.01
	ISTPP (Jhajjar)	1500	1480	991	641	18.61	776	19.10	-0.49
	Dadri GPS	830	817	572	492	13.07	545	13.22	-0.14
	Anta GPS	419	414	256	257	6.35	264	6.38	-0.03
	Auraiya GPS	663	494	156	328	4.43	184	4.56	-0.13
	Sub Total (A)	11282	9749	9209	8027	190.77	7949	193.42	-2.65
B. NPC	NAPS	440	318	353	358	7.69	320	7.63	0.06
	RAPS- B	440	419	466	463	10.12	422	10.06	0.06
	RAPS- C	440	430	476	478	10.25	427	10.32	-0.07
	Sub Total (B)	1320	1167	1295	1299	28.06	1169	28.01	0.05
C. NHPC	Chamera I HPS	540	540	540	0	2.51	105	2.45	0.06
	Chamera II HPS	300	300	286	0	1.43	59	1.45	-0.03
	Chamera III HPS	231	231	105	0	0.85	35	0.83	0.02
	Bairasuil HPS	180	182	182	0	0.61	25	0.66	-0.04
	Salal-HPS	690	141	230	227	3.19	133	3.38	-0.18
	Tanakpur-HPS	94	42	45	44	1.01	42	1.01	0.00
	Uri-HPS	480	124	225	45	3.23	135	3.33	-0.10
	Uri-II HPS	120	70	122	61	1.87	78	1.72	0.15
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	179	0	3.23	135	3.34	-0.11
	Sewa-II HPS	120	119	120	0	0.37	15	0.35	0.01
	Sub Total (C)	3425	2135	2034	377	18.29	762	18.51	-0.22
D. NJPC	Nathpa Jhakri	1500	1605	1422	0	10.02	417	9.77	0.24
	Sub Total (D)	1500	1605	1422	0	10.02	417	9.77	0.24
E. THDC	Tehri HPS	1000	1060	928	0	6.46	269	6.20	0.26
	Koteshwar HPS	400	92	97	90	2.35	98	2.20	0.15
	Sub Total (E)	1400	1152	1025	90	8.81	367	8.40	0.41
F. BBMB	Bhakra HPS	1497	575	1078	372	14.43	601	13.80	0.63
	Dehar HPS	990	108	0	0	2.63	110	2.59	0.04
	Pong HPS	396	197	312	126	4.85	202	4.72	0.13
	Sub Total (F)	2883	879	1390	498	21.91	913	21.10	0.81
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	48	0	0.73	30	0.70	0.03
	KWHEP HPS(IPP)	1000	0	485	0	5.34	223	5.40	-0.06
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	27	0	0.30	13	1.17	-0.87
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	560	0	6.38	266	7.27	-0.90
H. Total Regional Entities (A-G)	23472	16687	16935	10291	284.23	11843	286.49	-2.26	

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	935	21.70	904
	Guru Nanak Dev TPS(Bhatinda)	440	220	120	3.61	150
	Guru Hargobind Singh TPS(L.mbt)	920	799	504	14.18	591
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2069	1559	39.49	1645
	Total Hydro	1148	286	425	11.72	488
Total Punjab	3768	2355	1984	51.21	2134	
Haryana	Panipat TPS	1367	651	415	13.98	583
	DCRTPP (Yamuna nagar)	600	552	557	13.13	547
	Faridabad GPS (NTPC)	432	186	167	4.38	182
	RGTPP (khedar) (IPP)	1200	0	0	0.92	38
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	855	828	22.03	918
	Thermal (Total)	4944	2244	1967	54.44	2268
	Total Hydro	62	28	28	0.66	28
	Total Haryana	5006	2272	1995	55.10	2296
	Rajasthan	kota TPS	1240	1148	1106	27.28
suratgarh TPS		1500	1133	1048	26.16	1090
Chabra TPS		500	457	400	10.56	440
Dholpur GPS		330	128	128	3.18	133
Ramgarh GPS		111	151	165	3.87	161
RAPS A (NPC)		300	175	175	4.10	171
Barsingsar (NLC)		250	220	224	5.27	219
Giral LTPS		250	0	0	0.29	12
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	614	582	14.54	606
Thermal (Total)		6956	4026	3828	95.24	3968
Total Hydro		550	292	170	5.51	230
Wind power		2191	170	295	8.28	345
Biomass		91	25	25	0.61	25
Solar		201	0	0	0.88	37
Renewable/Others (Total)		2483	195	320	9.77	407
Total Rajasthan		9989	4513	4318	110.51	4605
UP		Anpara TPS	1630	798	779	18.90
	Obra TPS	1288	456	360	9.80	408
	Paricha TPS	1140	615	733	14.20	592
	Panki TPS	210	75	73	1.80	75
	Harduaganj TPS	665	457	457	11.00	458
	Tanda TPS (NTPC)	440	342	404	9.65	402
	Roza TPS (IPP)	1200	900	1071	25.33	1056
	Anpara-C (IPP)	1200	667	770	18.27	761
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	282	402	8.52	355
	Thermal (Total)	8223	4592	5049	117.47	4894
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	83	115	2.47	103
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	4725	5214	121.14	5047
	Uttarakhand	Total Hydro	1303	564	268	10.46
Total Uttarakhand		1303	564	268	10.46	436
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	84	81	1.93	80
	Pragati Gas Turbine	330	318	266	7.28	303
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	300	260	6.10	254
	Thermal (Total)	2232	702	607	15.31	638
	Total Delhi	2232	702	607	15.31	638
HP	Baspa HPS (IPP)	330	28	0	1.52	63
	Malana HPS (IPP)	86	9	0	0.29	12
	Other Hydro	589	210	127	4.95	206
	Total HP	1005	247	127	6.76	282
J & K	Baglihar HPS (IPP)	450	294	146	4.80	200
	Other Hydro	323	86	119	2.48	103
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	380	265	7.28	303
Total State Control Area Generation		34390	15758	14778	377.76	15740
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2197	2332	56.82	2368
Total Regional Availability(Gross)		57862	34890	27401	718.82	29951

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6404	965	65.10	2713
State Control Area Hydro	5368	1880	1398	44.86	1869
Total Regional Hydro	15868	8284	2363	109.96	4582

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	-500	-500	0	500	0.00	12.10	-12.10
Gwalior-Agra (D/C)	439	706	942	0	12.21	0.00	12.21
Zerda-Kankroli	-162	-265	0	317	0.00	4.79	-4.79
Zerda-Bhinmal	-44	-135	79	228	0.00	1.52	-1.52
Malanpur-Auraiya	-130	-142	0	181	0.00	3.44	-3.44
Badod-Kota/Morak	-85	-154	0	185	0.00	3.12	-3.12
Mundra-Mohindergarh(HVDC)	999	902	1003	0	23.11	0.00	23.11
Sub Total WR	517	412			35.32	24.97	10.35
Pusauli Bypass	300	200	300	0	6.15	0.00	6.15
MZP- GKP (D/C)	479	548	790	0	13.18	0.00	13.18
Patna-Balia(D/C)	366	556	694	0	12.10	0.00	12.10
B'Sharif-Balia (D/C)	231	326	453	0	7.27	0.00	7.27
Pusauli-Balia	40	43	93	0	0.37	0.00	0.37
Gaya-Fatehpur (765 Kv)	188	188	496	0	6.10	0.00	6.10
Pusauli-Sahupuri	111	91	116	0	2.27	0.00	2.27
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-32	0	38	0.00	0.96	-0.96
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	1680	1920			47.44	0.96	46.48
Total IR Exch	2197	2332			82.76	25.93	56.82

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
36.45	1.16	37.62	1.88	-28.51	11.09	-3.32	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
53.53	-6.17	47.36	46.48	10.35	56.82	-7.06	16.52	9.46

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	2.10	89.70	6.40	87.60	51.50	10.30

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.44	21.54	49.51	9.13	50.01	0.23	0.15	50.48	49.79

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	23:58	407	18:21	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Barilly	400	425	21:49	407	07:35	0.0	0.0	9.1	0.0
Kanpur	400	424	21:53	400	10:12	0.0	0.0	8.6	0.0
Dadri	400	424	03:06	405	10:10	0.0	0.0	19.4	0.0
Ballabgarh	400	433	03:06	409	10:12	0.0	0.0	50.6	4.8
Bawana	400	427	03:06	409	12:44	0.0	0.0	59.6	0.0
Bassi	400	424	20:13	387	07:17	0.0	0.9	4.3	0.0
Hissar	400	418	03:09	397	09:10	0.0	0.0	0.0	0.0
Moga	400	424	03:06	402	09:09	0.0	0.0	8.6	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	426	03:06	404	11:40	0.0	0.0	24.1	0.0
Kishenpur	400	421	03:04	396	19:10	0.0	0.0	0.5	0.0
Wagoora	400	407	03:04	377	19:10	2.5	21.8	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	770	00:00	728	07:09	0.0	25.8	0.0	0.0
Balia	765	770	21:54	732	11:22	0.0	6.6	0.0	0.0
Moga	765	794	03:07	753	09:10	0.0	0.0	0.0	0.0
Agra	765	815	21:53	763	09:12	0.0	0.0	21.1	0.0
Bhiwani	765	778	08:12	762	10:13	0.0	0.0	0.0	0.0
Unnao	765	773	21:53	741	09:10	0.0	0.2	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	509.75	1530.03	502.79	1219.07	224.27	406.12
Pong	426.72	384.05	418.70	834.82	417.98	794.52	94.72	329.75
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	261.82	407.50	262.98	478.20	NA	NA
RPS	352.80	343.81	352.88	NA	NA	NA	243.01	12.15
Jawahar Sagar	298.70	295.78	298.61	NA	NA	NA	253.41	163.81
RSD	527.91	487.91	516.48	144.00	520.95	144.00	86.28	222.34

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 15.11.2013 :

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 : 15.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER