

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.11.2013
Date of Reporting : 20.11.2013

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
33421	1760	35181	50.11	26370	750	27120	50.14	722.4	22.73

* 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	43.00	10.03		53.03	34.77	36.51	1.75	89.54	0.00
Haryana	65.54	0.60		66.14	36.31	37.46	1.15	103.59	0.00
Rajasthan	102.16	5.93	2.56	110.65	70.53	65.84	-4.69	176.49	0.00
Delhi	14.80			14.80	44.43	43.30	-1.13	58.09	0.01
UP	121.75	3.44	1.20	126.39	75.53	73.23	-2.30	199.61	19.46
Uttarakhand		8.45		8.45	19.46	21.64	2.18	30.09	1.56
HP		6.43		6.43	17.11	17.69	0.58	24.12	0.00
J & K		6.67	0.00	6.67	28.38	30.95	2.57	37.61	1.70
Chandigarh				0.00	3.19	3.28	0.09	3.28	0.00
Total	347.24	41.54	3.76	392.54	329.70	329.89	0.19	722.43	22.73

* 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	4312	0	27	-404	3079	0	125	-441	-6.68	
Haryana	5134	0	104	-988	3537	0	88	-1016	-24.11	
Rajasthan	7642	0	-362	637	6725	0	-130	941	31.96	
Delhi	3094	0	-159	-683	1379	0	-192	-1181	-20.62	
UP	8495	1580	-498	-237	8147	750	-60	-256	-7.19	
Uttarakhand	1500	80	-72	393	1064	0	54	399	8.16	
HP	1197	0	20	-31	778	0	63	251	4.60	
J&K	1866	100	38	368	1573	0	77	385	7.15	
Chandigarh	181	0	6	0	88	0	-4	-5	-0.01	
Total	33421	1760	-896	-943	26370	750	21	-924	-6.74	

* 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	1945	2085	2089	46.40	1934	46.68	-0.28
	Rihand I STPS	1000	817	862	645	17.90	746	19.06	-1.16
	Rihand II STPS	1000	830	1042	637	18.03	751	19.14	-1.11
	Rihand III STPS	1000	413	516	372	9.64	402	9.91	-0.27
	Dadri I STPS	840	814	639	473	13.33	556	13.46	-0.13
	Dadri II STPS	980	985	911	752	21.55	898	21.35	0.20
	Unchahar I TPS	420	405	439	339	9.29	387	9.24	0.05
	Unchahar II TPS	420	378	404	250	8.49	354	8.41	0.08
	Unchahar III TPS	210	201	199	153	4.40	183	4.41	-0.01
	ISTPP (Jhajjar)	1500	1480	640	635	14.08	587	14.21	-0.13
	Dadri GPS	830	818	556	499	12.82	534	12.96	-0.14
	Anta GPS	419	416	252	256	6.29	262	6.40	-0.10
	Auraiya GPS	663	492	156	159	3.63	151	3.71	-0.08
	Sub Total (A)	11282	9993	8701	7259	185.87	7745	188.93	-3.06
B. NPC	NAPS	440	317	354	358	7.64	318	7.61	0.03
	RAPS- B	440	419	462	465	10.08	420	10.06	0.02
	RAPS- C	440	430	474	477	10.22	426	10.32	-0.11
	Sub Total (B)	1320	1166	1290	1300	27.93	1164	27.98	-0.05
C. NHPC	Chamera I HPS	540	540	360	0	2.18	91	2.00	0.18
	Chamera II HPS	300	300	160	0	1.62	67	1.37	0.25
	Chamera III HPS	231	231	150	0	0.92	38	0.85	0.07
	Bairasuil HPS	180	182	20	0	0.62	26	0.62	0.00
	Salal-HPS	690	139	245	150	3.28	137	3.33	-0.05
	Tanakpur-HPS	94	40	41	40	0.95	40	0.95	0.00
	Uri-HPS	480	124	206	26	3.04	127	2.91	0.14
	Uri-II HPS	120	61	63	50	1.69	70	1.47	0.21
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	382	0	3.32	139	3.33	0.00
	Sewa-II HPS	120	119	81	0	0.37	15	0.39	-0.02
	Sub Total (C)	3425	2123	1708	266	17.98	749	17.21	0.77
D. NJPC	Nathpa Jhakri	1500	1605	1605	0	9.71	405	9.42	0.30
	Sub Total (D)	1500	1605	1605	0	9.71	405	9.42	0.30
E. THDC	Tehri HPS	1000	1060	753	0	6.35	265	6.20	0.15
	Koteshwar HPS	400	92	100	91	2.25	94	2.20	0.05
	Sub Total (E)	1400	1152	853	91	8.60	358	8.40	0.20
F. BBMB	Bhakra HPS	1497	604	1076	372	14.86	619	14.50	0.36
	Dehar HPS	990	169	336	0	3.99	166	4.06	-0.07
	Pong HPS	396	232	306	180	5.67	236	5.56	0.11
	Sub Total (F)	2883	1005	1718	552	24.52	1022	24.12	0.40
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	72	0	0.65	27	0.62	0.03
	KWHEP HPS(IPP)	1000	0	360	0	5.16	215	5.29	-0.13
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	0	0	2.81	117	0.69	2.12
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	432	0	8.62	359	6.60	2.02
H. Total Regional Entities (A-G)		23472	17043	16307	9468	283.24	11802	282.67	0.58

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	945	775	19.56	815
	Guru Nanak Dev TPS(Bhatinda)	440	170	170	3.86	161
	Guru Hargobind Singh TPS(L.mbt)	920	954	785	19.57	816
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2069	1730	43.00	1792
	Total Hydro	1148	310	431	10.03	418
	Total Punjab	3768	2379	2161	53.03	2209
Haryana	Panipat TPS	1367	465	438	10.33	430
	DCRTPP (Yamuna nagar)	600	560	503	12.28	512
	Faridabad GPS (NTPC)	432	354	283	8.29	345
	RGTPP (khedar) (IPP)	1200	547	426	11.34	472
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1052	702	23.30	971
	Thermal (Total)	4944	2978	2352	65.54	2731
	Total Hydro	62	25	22	0.60	25
	Total Haryana	5006	3003	2374	66.14	2756
	Rajasthan	kota TPS	1240	1155	1153	27.37
suratgarh TPS		1500	1124	1137	25.78	1074
Chabra TPS		500	448	450	10.56	440
Dholpur GPS		330	102	102	2.54	106
Ramgarh GPS		111	162	151	3.82	159
RAPS A (NPC)		300	175	175	4.00	167
Barsingsar (NLC)		250	111	111	2.33	97
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	491	491	11.53	480
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	604	624	14.25	594
Thermal (Total)		6956	4372	4394	102.16	4257
Total Hydro		550	319	214	5.93	247
Wind power		2191	23	98	1.12	47
Biomass		91	25	25	0.61	25
Solar		201	0	0	0.83	35
Renewable/Others (Total)		2483	48	123	2.56	107
Total Rajasthan		9989	4739	4731	110.65	4611
UP		Anpara TPS	1630	1406	1384	30.10
	Obra TPS	1288	338	342	7.50	313
	Paricha TPS	1140	660	619	14.60	608
	Panki TPS	210	70	90	1.50	63
	Harduaganj TPS	665	493	284	8.90	371
	Tanda TPS (NTPC)	440	403	402	9.79	408
	Roza TPS (IPP)	1200	819	1080	23.73	989
	Anpara-C (IPP)	1200	613	806	18.37	765
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	255	363	7.25	302
	Thermal (Total)	8223	5057	5370	121.75	5073
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	143	128	3.44	143
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5250	5548	126.39	5266
	Uttarakhand	Total Hydro	1303	492	202	8.45
Total Uttarakhand		1303	492	202	8.45	352
Delhi	Raighat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	83	82	1.93	81
	Pragati Gas Turbine	330	313	266	6.90	288
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	269	215	5.96	248
	Thermal (Total)	2232	665	563	14.80	617
	Total Delhi	2232	665	563	14.80	617
HP	Baspa HPS (IPP)	330	61	31	1.57	65
	Malana HPS (IPP)	86	20	0	0.26	11
	Other Hydro	589	231	188	4.60	192
	Total HP	1005	312	219	6.43	268
J & K	Baglihar HPS (IPP)	450	294	126	4.19	175
	Other Hydro	323	86	119	2.48	103
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	380	245	6.67	278
Total State Control Area Generation		34390	17220	16043	392.54	16356
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2180	2216	74.34	3098
Total Regional Availability(Gross)		57862	35707	27727	750.13	31255

IV. Total Hydro Generation:

Regional Entities Hydro	10500	6316	909	66.63	2776
State Control Area Hydro	5368	1981	1461	41.54	1731
Total Regional Hydro	15868	8297	2370	108.17	4507

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	9.10	-9.10
Gwalior-Agra (D/C)	532	445	1166	0	14.21	0.00	14.21
Zerda-Kankroli	-277	-339	0	342	0.00	5.95	-5.95
Zerda-Bhinmal	-189	-219	57	286	0.00	3.15	-3.15
Malanpur-Auraiya	-127	-116	0	147	0.00	3.00	-3.00
Badod-Kota/Morak	-155	-146	0	243	0.00	3.45	-3.45
Mundra-Mohindergarh(HVDC)	1498	1502	1504	0	35.52	0.00	35.52
Sub Total WR	982	627			49.73	24.65	25.08
Pusauli Bypass	300	200	300	0	7.24	0.00	7.24
MZP- GKP (D/C)	200	436	390	0	11.30	0.00	11.30
Patna-Balia(D/C)	304	479	713	0	11.54	0.00	11.54
B'Sharif-Balia (D/C)	223	237	619	0	8.45	0.00	8.45
Pusauli-Balia	-56	-27	96	79	0.00	0.32	-0.32
Gaya-Fatehpur (765 Kv)	128	169	349	0	5.39	0.00	5.39
Pusauli-Sahupuri	134	127	145	0	6.62	0.00	6.62
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	1198	1589			50.54	1.28	49.26
Total IR Exch	2180	2216			100.27	25.93	74.34

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
38.11	0.97	39.08	4.33	-29.26	9.72	4.93	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
56.07	8.45	64.52	49.26	25.08	74.34	-6.81	16.63	9.82

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	97.10	5.30	95.00	45.80	2.90

<----- 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				
50.34	21.48	49.56	6.51	49.88	0.16	0.13	50.24	0.00

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	413	03:12	402	15:08	0.1	0.1	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Barilly	400	422	03:06	399	07:21	0.0	0.0	1.5	0.0
Kanpur	400	426	03:10	402	11:07	0.0	0.0	14.6	0.0
Dadri	400	416	17:02	403	11:06	0.0	0.0	0.0	0.0
Ballabgarh	400	429	04:42	409	11:10	0.0	0.0	4.7	0.0
Bawana	400	428	03:06	405	11:21	0.0	0.0	34.7	0.0
Bassi	400	416	04:42	388	09:33	0.0	2.1	0.0	0.0
Hissar	400	418	04:03	394	11:21	0.0	0.0	0.0	0.0
Moga	400	423	03:06	402	06:42	0.0	0.0	9.6	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	427	03:10	403	11:07	0.0	0.0	24.8	0.0
Kishenpur	400	420	00:00	394	18:27	0.0	0.0	0.0	0.0
Wagoora	400	414	13:03	374	18:36	7.8	23.3	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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Balia	765	762	03:10	723	11:36	4.7	53.9	0.0	0.0
Moga	765	793	03:10	752	09:16	0.0	0.0	0.0	0.0
Agra	765	818	03:08	767	06:51	0.0	0.0	20.7	0.0
Bhiwani	765	802	03:08	760	11:15	0.0	0.0	1.9	0.0
Unnao	765	767	03:13	733	07:22	0.0	28.8	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	509.42	1515.08	502.38	1192.70	241.46	417.79
Pong	426.72	384.05	418.46	821.32	417.48	77.73	781.19	312.79
Tehri	829.79	740.04	822.25	1050.00	818.65	982.26	79.47	137.00
Koteshwar	612.50	598.50	610.50	4.50	NA	NA	137.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.37	63.65
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 19.11.2013 :

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 : 19.11.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER