

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.12.2013
Date of Reporting : 14.12.2013

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
36340	1655	37995	50.16	28604	0	28604	50.24	775.7	44.54

* 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	41.88	10.48		52.36	46.94	49.37	2.43	101.73	0.00
Haryana	68.24	0.40		68.64	37.84	38.38	0.54	107.02	0.02
Rajasthan	101.97	4.29	3.22	109.48	85.79	81.22	-4.57	190.70	0.00
Delhi	15.46			15.46	45.41	44.35	-1.06	59.81	0.00
UP	123.58	3.46	7.70	134.75	83.63	83.62	-0.01	218.37	40.24
Uttarakhand		10.85		10.85	19.29	19.96	0.67	30.81	2.58
HP		5.07		5.07	18.74	19.32	0.58	24.39	0.00
J & K		6.14	0.00	6.14	29.97	33.28	3.31	39.42	1.70
Chandigarh				0.00	3.21	3.43	0.22	3.43	0.00
Total	351.13	40.69	10.92	402.74	370.82	372.93	2.11	775.67	44.54

* 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	5075	0	109	-304	3214	0	81	-309	-2.39	
Haryana	5535	0	-226	-711	3787	0	226	-746	-26.26	
Rajasthan	8213	0	-322	902	7077	0	-114	929	38.42	
Delhi	3152	0	41	-591	1369	0	-130	-1262	-20.62	
UP	9640	1480	-138	161	9611	0	293	856	3.72	
Uttarakhand	1622	75	6	422	1061	0	-21	370	8.81	
HP	1187	0	19	143	767	0	23	320	6.42	
J&K	1734	100	-31	648	1629	0	134	510	10.06	
Chandigarh	182	0	-6	0	89	0	1	-20	-0.15	
Total	36340	1655	-548	669	28604	0	494	647	18.02	

* 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	1945	2089	2087	47.00	1958	46.68	0.31
	Rihand I STPS	1000	838	995	842	19.58	816	19.82	-0.24
	Rihand II STPS	1000	926	1049	808	21.83	910	21.75	0.08
	Rihand III STPS	1000	460	517	466	11.02	459	11.03	-0.01
	Dadri I STPS	840	815	645	459	13.42	559	13.60	-0.18
	Dadri II STPS	980	985	1025	695	21.55	898	21.96	-0.41
	Unchahar I TPS	420	405	434	356	9.19	383	9.31	-0.12
	Unchahar II TPS	420	390	435	304	8.57	357	8.63	-0.07
	Unchahar III TPS	210	201	210	159	4.45	186	4.50	-0.05
	ISTPP (Jhajjar)	1500	1480	629	631	14.73	614	14.67	0.06
	Dadri GPS	830	833	362	269	8.05	335	8.22	-0.17
	Anta GPS	419	425	258	198	5.80	242	6.00	-0.20
	Auraiya GPS	663	664	159	164	3.87	161	3.82	0.05
	Sub Total (A)	11282	10365	8807	7438	189.05	7877	190.02	-0.97
B. NPC	NAPS	440	321	357	364	7.74	323	7.70	0.04
	RAPS- B	440	419	460	464	10.06	419	10.06	0.00
	RAPS- C	440	430	472	476	10.22	426	10.32	-0.10
	Sub Total (B)	1320	1170	1289	1304	28.02	1168	28.08	-0.06
C. NHPC	Chamera I HPS	540	540	540	0	1.66	69	1.60	0.06
	Chamera II HPS	300	300	151	0	1.16	48	1.20	-0.04
	Chamera III HPS	231	231	68	0	0.73	30	0.72	0.01
	Bairasuil HPS	180	182	10	0	0.48	20	0.44	0.04
	Salal-HPS	690	120	220	147	2.63	110	2.88	-0.25
	Tanakpur-HPS	94	31	32	32	0.76	32	0.75	0.01
	Uri-HPS	480	90	205	43	2.34	97	2.22	0.11
	Uri-II HPS	120	61	121	40	1.48	62	1.46	0.02
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	296	397	0	3.11	130	3.01	0.10
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3425	1850	1744	262	14.36	598	14.29	0.07
	D. NJPC	Nathpa Jhakri	1500	1080	1089	0	8.50	354	8.58
Sub Total (D)		1500	1080	1089	0	8.50	354	8.58	-0.08
E. THDC	Tehri HPS	1000	1060	1004	0	6.46	269	6.40	0.06
	Koteshwar HPS	400	92	102	91	2.23	93	2.20	0.03
	Sub Total (E)	1400	1152	1106	91	8.68	362	8.60	0.08
F. BBMB	Bhakra HPS	1497	783	1014	509	18.96	790	18.80	0.16
	Dehar HPS	990	136	165	0	3.16	132	3.26	-0.09
	Pong HPS	396	311	372	186	7.61	317	7.46	0.15
	Sub Total (F)	2883	1230	1551	695	29.73	1239	29.52	0.21
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.46	19	0.40	0.06
	KWHEP HPS(IPP)	1000	0	360	0	4.57	190	4.67	-0.10
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	280	149	5.52	230	5.56	-0.05
	Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	1662	0	640	149	10.55	440	10.64	-0.09
H. Total Regional Entities (A-G)	23472	16847	16226	9939	288.89	12037	289.72	-0.83	

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	1010	800	19.21	801
	Guru Nanak Dev TPS(Bhatinda)	440	220	160	3.76	157
	Guru Hargobind Singh TPS(L.mbt)	920	952	714	18.91	788
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2182	1674	41.88	1745
	Total Hydro	1148	485	465	10.48	437
	Total Punjab	3768	2667	2139	52.36	2182
Haryana	Panipat TPS	1367	833	784	18.88	787
	DCRTPP (Yamuna nagar)	600	550	541	12.31	513
	Faridabad GPS (NTPC)	432	0	0	0.00	0
	RGTPP (kheadar) (IPP)	1200	600	511	12.42	517
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1199	744	24.64	1026
	Thermal (Total)	4944	3182	2580	68.24	2844
	Total Hydro	62	18	18	0.40	16
	Total Haryana	5006	3200	2598	68.64	2860
	Rajasthan	kota TPS	1240	1153	1099	29.11
suratgarh TPS		1500	872	1009	23.53	980
Chabra TPS		500	551	476	12.61	526
Dholpur GPS		330	146	47	1.89	79
Ramgarh GPS		111	168	162	2.37	99
RAPS A (NPC)		300	175	175	3.93	164
Barsingsar (NLC)		250	218	212	4.75	198
Giral LTPS		250	0	25	0.14	6
Rajwest LTPS (IPP)		1080	468	320	10.36	432
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	570	460	13.27	553
Thermal (Total)		6956	4321	3985	101.97	4249
Total Hydro		550	239	128	4.29	179
Wind power		2191	125	17	1.98	83
Biomass		91	21	21	0.50	21
Solar		201	7	0	0.74	31
Renewable/Others (Total)		2483	146	38	3.22	134
Total Rajasthan		9989	4706	4151	109.48	4562
UP		Anpara TPS	1630	1270	977	28.70
	Obra TPS	1288	311	312	7.50	313
	Paricha TPS	1140	527	537	12.40	517
	Panki TPS	210	68	63	1.60	67
	Harduaganj TPS	665	441	442	10.70	446
	Tanda TPS (NTPC)	440	393	399	9.69	404
	Roza TPS (IPP)	1200	819	979	19.27	803
	Anpara-C (IPP)	1200	1075	1071	24.87	1036
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	404	406	8.85	369
	Thermal (Total)	8223	5308	5186	123.58	5149
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	139	153	3.46	144
	Cogeneration	981	320	320	7.70	321
	Total UP	10131	5767	5659	134.75	5614
	Uttarakhand	Total Hydro	1303	646	331	10.85
Total Uttarakhand		1303	646	331	10.85	452
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	82	81	1.93	80
	Pragati Gas Turbine	330	315	270	7.31	305
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	300	260	6.22	259
	Thermal (Total)	2232	697	611	15.46	644
	Total Delhi	2232	697	611	15.46	644
HP	Baspa HPS (IPP)	330	52	0	1.17	49
	Malana HPS (IPP)	86	0	0	0.26	11
	Other Hydro	589	201	115	3.65	152
	Total HP	1005	253	115	5.07	211
J & K	Baglihar HPS (IPP)	450	294	116	3.70	154
	Other Hydro	323	90	116	2.44	102
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	384	232	6.14	256
Total State Control Area Generation		34390	18320	15836	402.74	16781
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3399	4362	102.14	4256
Total Regional Availability(Gross)		57862	37945	30137	793.77	33074

IV. Total Hydro Generation:

Regional Entities Hydro	10500	5850	1048	66.30	2763
State Control Area Hydro	5368	2164	1442	40.69	1695
Total Regional Hydro	15868	8014	2490	106.99	4458

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	-100	0	-500	0.00	4.66	-4.66
Gwalior-Agra (D/C)	1015	1308	1513	0	28.95	0.00	28.95
Zerda-Kankroli	-28	-76	115	174	0.00	0.26	-0.26
Zerda-Bhinmal	85	37	291	104	2.31	0.00	2.31
Malanpur-Auraiya	-105	-79	0	135	0.00	2.29	-2.29
Badod-Kota/Morak	-98	-89	0	173	0.00	2.47	-2.47
Mundra-Mohindergarh(HVDC)	1700	1701	1704	0	40.85	0.00	40.85
Sub Total WR	2169	2702			72.10	9.67	62.43
Pusauli Bypass	175	199	278	15	2.99	0.14	2.85
MZP- GKP (D/C)	208	378	618	0	8.43	0.00	8.43
Patna-Balia(D/C)	474	610	840	0	14.37	0.00	14.37
B'Sharif-Balia (D/C)	172	233	504	0	6.81	0.00	6.81
Pusauli-Balia	2	35	101	53	0.91	0.00	0.91
Gaya-Fatehpur (765 Kv)	109	124	347	32	4.35	0.00	4.35
Pusauli-Sahupuri	122	111	137	0	2.84	0.00	2.84
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-30	0	37	0.00	0.84	-0.84
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	1230	1660			40.69	0.98	39.71
Total IR Exch	3399	4362			112.79	10.65	102.14

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
31.94	0.53	32.48	17.11	-14.04	1.88	6.53	4.11	-4.11

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
55.58	43.91	99.48	39.71	62.43	102.14	-15.86	18.52	2.66

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	1.20	91.90	6.30	90.70	53.30	8.10

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.40	3.07	49.63	9.16	50.00	0.19	0.14	50.39	49.76

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	03:03	402	10:34	0.0	0.0	0.0	0.0
Gorakhpur	400	429	22:02	409	16:51	0.0	0.0	21.8	0.0
Bareilly	400	425	03:07	385	16:59	0.0	0.0	18.6	0.0
Kanpur	400	424	03:03	398	10:25	0.0	0.0	14.2	0.0
Dadri	400	422	23:58	401	10:24	0.0	0.0	1.9	0.0
Ballabgarh	400	433	03:05	402	10:26	0.0	0.0	37.9	4.2
Bawana	400	428	03:07	403	10:26	0.0	0.0	35.5	0.0
Bassi	400	421	04:03	382	10:23	0.0	13.2	0.2	0.0
Hissar	400	416	04:02	390	10:16	0.0	0.0	0.0	0.0
Moga	400	424	04:03	394	10:23	0.0	0.0	5.8	0.0
Abdullapur	400	422	20:38	397	12:20	0.0	0.0	6.6	0.0
Nalagarh	400	426	20:56	399	12:09	0.0	0.0	14.5	0.0
Kishenpur	400	419	04:03	395	07:12	0.0	0.0	0.0	0.0
Wagoora	400	403	13:02	369	18:48	27.6	69.4	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	760	04:04	727	10:27	0.1	36.8	0.0	0.0
Moga	765	793	04:03	738	10:25	0.0	2.6	0.0	0.0
Agra	765	814	20:56	763	10:24	0.0	0.0	18.2	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	767	21:45	729	10:23	0.0	26.4	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	505.51	1325.82	497.79	1006.54	192.55	561.98
Pong	426.72	384.05	414.88	668.52	413.31	611.20	60.03	461.76
Tehri	829.79	740.04	817.80	860.00	818.65	982.26	44.35	144.00
Koteshwar	612.50	598.50	610.10	4.60	NA	NA	145.00	148.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	44.08	46.72
Rihand	268.22	252.98	261.34	379.90	262.40	442.70	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.50	144.00	519.02	144.00	67.34	125.30

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.12.2013 :

1.Normal weather.

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 : 13.12.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER