

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.12.2013
Date of Reporting : 30.12.2013

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
35329	666	35995	50.16	28941	1120	30061	50.27	753.9	47.41

* 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	31.79	10.63		42.42	38.14	41.05	2.92	83.47	1.19
Haryana	67.50	0.45		67.95	35.86	40.16	4.30	108.10	0.02
Rajasthan	103.31	4.80	6.20	114.32	82.00	79.10	-2.90	193.41	0.00
Delhi	19.23			19.23	41.58	40.29	-1.29	59.52	0.13
UP	112.99	4.55	14.40	131.93	79.56	78.85	-0.70	210.79	41.96
Uttarakhand		10.16		10.16	19.84	20.07	0.23	30.24	2.41
HP		4.45		4.45	19.15	19.79	0.64	24.24	0.00
J & K		6.55	0.00	6.55	31.53	34.32	2.79	40.87	1.70
Chandigarh				0.00	3.10	3.25	0.14	3.25	0.00
Total	334.82	41.60	20.60	397.01	350.75	356.88	6.12	753.89	47.41

* 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	4631	0	41	-293	2988	0	204	-268	-6.06	
Haryana	5037	21	114	-781	4627	0	399	-799	-22.64	
Rajasthan	8439	0	-139	937	6979	0	-265	1067	35.64	
Delhi	3081	0	-52	-538	1409	0	-88	-1439	-21.69	
UP	9446	470	-739	212	9268	1120	78	-165	-2.81	
Uttarakhand	1591	75	-11	496	1142	0	-7	388	8.55	
HP	1185	0	-152	314	772	0	48	358	8.66	
J&K	1743	100	-154	629	1667	0	107	538	10.82	
Chandigarh	177	0	-13	0	90	0	16	-30	-0.18	
Total	35329	666	-1105	976	28941	1120	491	-351	10.29	

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

III. Regional Entities :

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	2101	2084	46.81	1951	46.68	0.13
Rihand I STPS	1000	823	1002	830	19.30	804	19.34	-0.04
Rihand II STPS	1000	930	999	834	21.45	894	21.63	-0.18
Rihand III STPS	1000	460	501	474	10.70	446	11.05	-0.35
Dadri I STPS	840	815	570	471	11.81	492	12.09	-0.28
Dadri II STPS	980	985	935	727	20.88	870	21.51	-0.63
Unchahar I TPS	420	407	369	362	8.53	355	8.76	-0.23
Unchahar II TPS	420	404	315	312	8.00	333	8.19	-0.19
Unchahar III TPS	210	201	163	154	4.07	170	4.14	-0.07
ISTPP (Jhajjar)	1500	1480	710	630	16.06	669	16.32	-0.25
Dadri GPS	830	841	424	437	9.71	405	10.09	-0.38
Anta GPS	419	427	228	258	6.44	268	6.47	-0.03
Auraiya GPS	663	672	163	166	3.83	160	4.04	-0.21
Sub Total (A)	11282	10390	8480	7739	187.60	7816	190.30	-2.70
B. NPC								
NAPS	440	325	356	366	7.79	325	7.80	-0.01
RAPS- B	440	421	462	467	10.16	423	10.10	0.06
RAPS- C	440	430	474	474	10.27	428	10.32	-0.05
Sub Total (B)	1320	1176	1292	1307	28.22	1176	28.22	0.00
C. NHPC								
Chamera I HPS	540	360	360	0	1.64	68	1.65	-0.01
Chamera II HPS	300	300	298	0	0.79	33	1.01	-0.22
Chamera III HPS	231	231	148	0	0.62	26	0.66	-0.04
Bairasuil HPS	180	182	120	0	0.42	18	0.45	-0.03
Salal-HPS	690	122	220	65	3.67	153	3.00	0.67
Tanakpur-HPS	94	26	32	26	0.55	23	0.62	-0.07
Uri-HPS	480	94	155	17	2.23	93	2.41	-0.18
Uri-II HPS	120	65	90	34	1.31	54	1.56	-0.25
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	393	0	2.27	94	2.50	-0.24
Sewa-II HPS	120	119	114	0	0.37	16	0.43	-0.05
Sub Total (C)	3425	1886	1930	142	13.87	578	14.29	-0.42
D. NJPC								
Nathpa Jhakri	1500	1605	760	0	6.82	284	6.70	0.12
Sub Total (D)	1500	1605	760	0	6.82	284	6.70	0.12
E. THDC								
Tehri HPS	1000	1050	1044	0	8.64	360	8.70	-0.06
Koteshwar HPS	400	125	300	90	3.04	127	3.00	0.04
Sub Total (E)	1400	1175	1344	90	11.67	486	11.70	-0.03
F. BBMB								
Bhakra HPS	1497	708	1008	511	17.09	712	16.99	0.10
Dehar HPS	990	112	330	0	2.92	122	2.70	0.23
Pong HPS	396	276	372	120	6.64	277	6.62	0.02
Sub Total (F)	2883	1096	1710	631	26.65	1110	26.31	0.34
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.45	19	0.39	0.05
KWHEP HPS(IPP)	1000	0	0	0	3.65	152	3.72	-0.07
Malana Stg-II HPS	100	0	0	0	0.15	6	0.15	-0.01
Shree Cement TPS	300	0	247	127	4.80	200	4.97	-0.16
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	247	127	9.05	377	9.23	-0.18
H. Total Regional Entities (A-G)	23472	17328	15763	10036	283.88	11828	286.75	-2.87

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	640	640	15.29	637	
	Guru Nanak Dev TPS(Bhatinda)	440	280	250	5.77	240	
	Guru Hargobind Singh TPS(L.mbt)	920	771	788	10.73	447	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1691	1678	31.79	1325	
	Total Hydro	1148	433	433	10.63	443	
	Total Punjab	3768	2124	2111	42.42	1768	
Haryana	Panipat TPS	1367	640	786	16.28	678	
	DCRTPP (Yamuna nagar)	600	551	522	12.68	529	
	Faridabad GPS (NTPC)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP)	1200	593	495	12.93	539	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1199	1114	25.61	1067	
	Thermal (Total)	4944	2983	2917	67.50	2812	
	Total Hydro	62	19	18	0.45	19	
	Total Haryana	5006	3002	2935	67.95	2831	
	Rajasthan	kota TPS	1240	1139	1069	24.94	1039
		suratgarh TPS	1500	997	993	24.46	1019
Chabra TPS		500	459	331	8.51	354	
Dholpur GPS		330	125	125	3.10	129	
Ramgarh GPS		111	40	39	1.06	44	
RAPS A (NPC)		300	175	175	4.06	169	
Barsingsar (NLC)		250	213	215	5.04	210	
Giral LTPS		250	33	33	1.52	63	
Rajwest LTPS (IPP)		1080	715	711	15.94	664	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	608	589	14.69	612	
Thermal (Total)		6956	4504	4280	103.31	4305	
Total Hydro		550	219	144	4.80	200	
Wind power		2191	141	217	4.58	191	
Biomass		91	28	28	0.67	28	
Solar		201	0	0	0.96	40	
Renewable/Others (Total)		2483	169	245	6.20	258	
Total Rajasthan		9989	4892	4669	114.32	4763	
UP		Anpara TPS	1630	1437	1470	24.70	1029
		Obra TPS	1288	428	464	10.70	446
	Paricha TPS	1140	689	679	16.30	679	
	Panki TPS	210	63	45	1.30	54	
	Harduaganj TPS	665	423	225	9.10	379	
	Tanda TPS (NTPC)	440	399	401	9.75	406	
	Roza TPS (IPP)	1200	810	810	17.89	745	
	Anpara-C (IPP)	1200	778	778	14.99	625	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	470	8.25	344	
	Thermal (Total)	8223	5308	5342	112.99	4708	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	210	185	4.55	190	
	Cogeneration	981	600	600	14.40	600	
	Total UP	10131	6118	6127	131.93	5497	
	Uttarakhand	Total Hydro	1303	1127	369	10.16	424
		Total Uttarakhand	1303	1127	369	10.16	424
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	80	80	1.91	79	
	Pragati Gas Turbine	330	322	273	7.51	313	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	425	420	9.82	409	
	Thermal (Total)	2232	827	773	19.23	801	
	Total Delhi	2232	827	773	19.23	801	
HP	Baspa HPS (IPP)	330	30	0	1.10	46	
	Malana HPS (IPP)	86	0	0	0.22	9	
	Other Hydro	589	145	105	3.14	131	
	Total HP	1005	175	105	4.45	186	
J & K	Baglihar HPS (IPP)	450	298	120	3.97	165	
	Other Hydro	323	90	124	2.58	108	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	388	244	6.55	273	
Total State Control Area Generation		34390	18653	17333	397.01	16542	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3677	2517	86.52	3605	
Total Regional Availability(Gross)		57862	38093	29886	767.41	31976	

IV. Total Hydro Generation:

Regional Entities Hydro	10500	5744	863	63.26	2636
State Control Area Hydro	5368	2571	1498	41.60	1733
Total Regional Hydro	15868	8315	2361	104.85	4369

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	-300	500	300	4.36	1.46	2.90
Gwalior-Agra (D/C)	1343	1193	1799	0	28.74	0.00	28.74
Zerda-Kankroli	-130	-186	46	236	0.00	2.18	-2.18
Zerda-Bhinmal	-40	-93	211	161	0.33	0.00	0.33
Malanpur-Auraiya	-95	-70	0	111	0.00	2.09	-2.09
Badod-Kota/Morak	-61	-151	0	162	0.00	2.17	-2.17
Mundra-Mohindergarh(HVDC)	1499	1201	1703	0	31.47	0.00	31.47
Sub Total WR	2816	1594			64.89	7.90	57.00
Pusauli Bypass	-479	-370	0	506	0.00	8.65	-8.65
MZP- GKP (D/C)	189	263	492	0	6.94	0.00	6.94
Patna-Balia(D/C)	525	490	774	0	13.80	0.00	13.80
B'Sharif-Balia (D/C)	261	151	419	0	5.53	0.00	5.53
Pusauli-Balia	35	1	64	29	0.00	0.05	-0.05
Gaya-Fatehpur (765 Kv)	11	28	257	53	1.99	0.00	1.99
Pusauli-Sahupuri	108	153	178	0	3.53	0.00	3.53
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)	243	237	507	0	7.28	0.00	7.28
Sub Total ER	861	923			39.06	9.54	29.53
Total IR Exch	3677	2517			103.96	17.43	86.52

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
31.41	0.39	31.80	14.32	-16.75	8.45	-0.66	4.17	-4.17

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
58.74	25.55	84.29	29.53	57.00	86.52	-29.22	31.45	2.23

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	0.00	81.60	1.20	81.60	77.80	18.40

<----- 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				
50.48	16.03	49.71	7.16	50.09	0.24	0.13	50.42	49.90

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	410	01:23	404	17:51	0.0	0.0	0.0	0.0
Gorakhpur	400	429	20:49	414	08:25	0.0	0.0	57.4	0.0
Barailly	400	426	21:00	412	11:00	0.0	0.0	0.0	0.0
Kanpur	400	420	04:00	405	08:13	0.0	0.0	0.0	0.0
Dadri	400	425	04:01	407	11:16	0.0	0.0	19.1	0.0
Ballabgarh	400	432	03:38	411	11:23	0.0	0.0	54.4	1.5
Bawana	400	428	03:39	409	11:17	0.0	0.0	37.8	0.0
Bassi	400	427	04:02	391	11:23	0.0	0.0	10.1	0.0
Hissar	400	417	04:02	397	11:17	0.0	0.0	0.0	0.0
Moga	400	423	02:48	405	09:39	0.0	0.0	5.1	0.0
Abdullapur	400	425	04:00	411	11:00	0.0	0.0	0.0	0.0
Nalagarh	400	427	20:54	409	12:44	0.0	0.0	34.6	0.0
Kishenpur	400	419	13:01	391	18:09	0.0	0.0	0.0	0.0
Wagoora	400	410	13:17	367	18:08	34.8	78.1	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	787	20:27	755	08:15	0.0	0.0	0.0	0.0
Balia	765	762	05:32	732	11:18	0.0	18.9	0.0	0.0
Moga	765	789	02:48	756	09:39	0.0	0.0	0.0	0.0
Agra	765	816	20:29	776	08:16	0.0	0.0	40.8	0.0
Bhiwani	765	787	20:00	765	09:00	0.0	0.0	0.0	0.0
Unnao	765	763	04:00	741	08:18	0.0	0.5	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	502.63	1205.87	495.37	914.64	174.54	488.32
Pong	426.72	384.05	412.34	577.87	411.06	534.75	87.67	414.39
Tehri	829.79	740.04	813.15	826.27	818.65	982.26	41.77	198.00
Koteshwar	612.50	598.50	609.80	4.21	NA	NA	198.00	201.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	38.36	44.52
Rihand	268.22	252.98	260.88	353.80	261.76	404.60	NA	NA
RPS	352.80	343.81	349.28	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.28	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.77	14.40	516.69	14.40	53.83	97.69

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 29.12.2013 :

1. Shallow fog in NCR Delhi and Eastern Uttar pradesh.

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 : 29.12.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER