

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.11.2012

Date of Reporting : 29.11.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
31925	3057	34982	50.08	25582	780	26362	50.06	680.6	51.41

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	46.48	8.81		55.28	30.03	30.05	0.01	85.33	4.76
Haryana	59.47	0.61		60.09	38.40	38.10	-0.30	98.19	4.10
Rajasthan	84.33	5.49	5.18	94.99	64.94	65.12	0.18	160.11	0.07
Delhi	28.54			28.54	28.25	24.61	-3.64	53.14	0.00
UP	112.26	6.82	3.60	122.68	73.35	69.32	-4.03	192.00	39.09
Uttarakhand		8.21		8.21	19.67	20.70	1.03	28.91	1.47
HP		5.52		5.52	16.19	17.40	1.22	22.92	0.22
J & K		7.43	0.00	7.43	27.48	29.41	1.93	36.84	1.70
Chandigarh				0.00	3.45	3.20	-0.25	3.20	0.00
Total	331.08	42.88	8.78	382.74	301.75	297.90	-3.85	680.64	51.41

* 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	UI [OD:(+ve), UD: (-ve)]
Punjab	4427	660	-104	-349	3030	0	55	96		-4.50
Haryana	4801	544	56	81	3500	0	-83	175		2.41
Rajasthan	6823	0	-14	366	6540	0	-30	762		21.42
Delhi	2789	0	-244	-1190	1319	0	-136	-2208		-35.91
UP	8545	1660	-80	142	7902	780	-365	681		-1.01
Uttarakhand	1504	90	83	405	1008	0	-28	436		10.02
HP	1119	3	31	71	719	0	54	282		4.41
J&K	1744	100	-376	541	1476	0	149	440		9.89
Chandigarh	174	0	-21	-6	88	0	1	-31		-0.30
Total	31925	3057	-669	63	25582	780	-383	633		6.42

* 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 [OG:(+ve), UG: (-ve)]	
								Net MU	UI
A. NTPC									
Singrauli STPS	2000	1947	2092	2099	46.68	1945	46.72		-0.04
Rihand I STPS	1000	460	515	464	11.00	459	10.84		0.17
Rihand II STPS	1000	822	1040	471	19.79	825	19.49		0.30
Rihand III STPS	500	198	232	225	4.86	202	4.70		0.16
Dadri I STPS	840	796	862	797	18.21	759	18.19		0.01
Dadri II STPS	980	975	981	1030	22.28	928	22.93		-0.65
Unchahar I TPS	420	402	430	379	9.27	386	9.25		0.02
Unchahar II TPS	420	403	424	357	9.02	376	8.96		0.05
Unchahar III TPS	210	202	206	185	4.59	191	4.59		0.01
ISTPP (Jhajhar)	1500	960	719	609	17.24	718	16.03		1.20
Dadri GPS	830	841	382	382	9.27	386	10.05		-0.78
Anta GPS	419	282	198	276	6.11	254	5.85		0.25
Auraiya GPS	663	659	329	316	7.46	311	8.14		-0.69
Sub Total (A)	10782	8947	8410	7590	185.77	7741	185.75		0.02
B. NPC									
NAPS	440	281	317	318	6.73	280	6.74		-0.02
RAPS- B	440	418	459	462	10.07	420	10.03		0.04
RAPS- C	440	430	470	473	10.11	421	10.32		-0.21
Sub Total (B)	1320	1129	1246	1253	26.91	1121	27.10		-0.19
C. NHPC									
Chamera I HPS	540	550	180	0	2.11	88	2.07		0.04
Chamera II HPS	300	303	99	0	1.50	62	1.36		0.13
Chamera III HPS	231	231	124	0	0.89	37	0.85		0.04
Bairasuil HPS	180	182	60	0	0.57	24	0.52		0.05
Salai-HPS	690	137	228	130	2.83	118	2.77		0.06
Tanakpur-HPS	94	32	40	38	0.88	37	0.79		0.09
Uri-HPS	480	113	238	41	2.69	112	2.42		0.28
Dhauliganga-HPS	280	288	139	0	1.01	42	1.03		-0.02
Dulhasi-HPS	390	388	269	0	3.20	133	2.73		0.47
Sewa-II HPS	120	120	79	0	0.34	14	0.27		0.08
Sub Total (C)	3305	2343	1456	209	16.02	667	14.80		1.21
D. NJPC									
Nathpa Jhakri	1500	1605	1013	0	7.72	322	7.50		0.22
Sub Total (D)	1500	1605	1013	0	7.72	322	7.50		0.22
E. THDC									
Tehri HPS	1000	1050	923	0	8.31	346	8.00		0.31
Koteswar HPS	400	291	302	0	2.10	87	2.04		0.06
Sub Total (E)	1400	1341	1225	0	10.41	434	10.04		0.37
F. BBMB									
Bhakra HPS	1480	695	1102	415	16.82	701	16.68		0.14
Dehar HPS	990	169	495	0	4.29	179	4.06		0.23
Pong HPS	396	316	366	246	7.87	328	5.01		2.86
Sub Total (F)	2866	1180	1963	661	28.98	1208	25.74		3.24
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.58	24	0.00		0.58
KWHEP HPS(IPP)	1000	0	150	0	4.18	174	4.25		-0.07
Malana Stg-II HPS	100	0	32	0	0.25	11	0.11		0.15
Shree Cement TPS	300	0	146	148	3.53	147	3.54		-0.01
Budhil HPS(IPP)	70	0	10	10	0.21	9	0.42		-0.21
Sub Total (G)	1662	0	338	158	8.76	365	8.32		0.44
H. Total Regional Entities (A-G)	22836	16546	15651	9871	284.57	11857	279.25		5.32

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	1253	1080	26.29	1095	
	Guru Nanak Dev TPS(Bhatinda)	440	225	215	4.79	200	
	Guru Hargobind Singh TPS(L.mbt)	920	738	622	15.39	641	
	Thermal (Total)	2620	2216	1917	46.48	1937	
	Total Hydro	1148	444	279	8.81	367	
	Total Punjab	3768	2660	2196	55.28	2303	
Haryana	Panipat TPS	1367	927	1075	23.29	971	
	DCRTPP (Yamuna nagar)	600	180	0	2.54	106	
	Faridabad GPS (NTPC)	432	142	112	3.25	136	
	RGTPP (kheldar) (IPP)	1200	816	806	18.81	784	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	618	426	11.58	482	
	Thermal (Total)	4944	2683	2419	59.47	2478	
	Total Hydro	62	27	22	0.61	26	
	Total Haryana	5006	2710	2441	60.09	2504	
Rajasthan	kota TPS	1240	973	981	23.59	983	
	suratgarh TPS	1500	1122	1137	26.50	1104	
	Chabra TPS	500	448	445	10.35	431	
	Dholpur GPS	330	137	144	3.47	145	
	Ramgarh GPS	111	79	80	2.09	87	
	RAPS A (NPC)	300	179	179	4.33	180	
	Barsingar (NLC)	250	103	104	2.44	102	
	Giral LTPS	250	0	54	0.06	3	
	Rajwest LTPS (IPP)	540	486	486	11.51	479	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3527	3610	84.33	3514	
	Total Hydro	550	231	218	5.49	229	
	Wind power	2191	188	57	4.19	174	
	Biomass	91	35	35	0.85	35	
	Solar	201	3	0	0.14	6	
	Renewable/Others (Total)	2483	223	92	5.18	216	
	Total Rajasthan	8189	3981	3920	94.99	3958	
	UP	Anpara TPS	1630	1188	790	22.80	950
		Obra TPS	1382	440	469	11.10	463
Paricha TPS		890	376	322	8.50	354	
Panki TPS		210	131	126	2.40	100	
Harduaganj TPS		665	247	252	6.00	250	
Tanda TPS (NTPC)		440	399	399	9.72	405	
Roza TPS (IPP)		1200	1058	900	24.25	1010	
Anpara-C (IPP)		1200	858	867	21.66	903	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	242	234	5.82	243	
Thermal (Total)		8067	4939	4359	112.26	4677	
Vishnuparyag HPS (IPP)		400	107	104	2.54	106	
Other Hydro		527	145	163	4.29	179	
Cogeneration		981	150	150	3.60	150	
Total UP		9975	5341	4776	122.68	5006	
Uttarakhand		Total Hydro	1303	420	287	8.21	342
	Total Uttarakhand	1303	420	287	8.21	342	
Delhi	Raighat TPS	135	100	101	2.42	101	
	Delhi Gas Turbine	282	100	76	2.54	106	
	Pragati Gas Turbine	330	314	322	7.68	320	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	276	227	6.01	250	
	Badarpur TPS (NTPC)	705	465	405	9.88	412	
	Thermal (Total)	2237	1255	1131	28.54	1189	
	Total Delhi	2237	1255	1131	28.54	1189	
HP	Baspa HPS (IPP)	330	28	0	1.30	54	
	Malana HPS (IPP)	86	40	0	0.30	12	
	Other Hydro	589	171	132	3.92	163	
	Total HP	1005	239	132	6	230	
J & K	Baglihar HPS (IPP)	450	294	146	4.25	177	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	414	321	7.43	310	
Total State Control Area Generation		32439	17020	15204	382.74	15842	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			566	1628	27.91	1163	
Total Regional Availability(Gross)		55275	33237	26703	695.21	28862	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5839	870	68.14	2839
State Control Area Hydro	5368	1920	1422	42.88	1681
Total Regional Hydro	15731	7759	2292	111.02	4520

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	Import	Export	
Vindhychal B/B	-450	-350	0	450	0.00	9.03	-9.03		
Gwalior-Agra (D/C)	120	330	418	0	4.03	0.00	4.03		
Zerda-Kankroli	-152	-26	0	176	0.00	2.36	-2.36		
Zerda-Bhinmal	-91	88	126	178	0.00	0.25	-0.25		
Malanpur-Auraiya	-173	-113	0	173	0.00	3.23	-3.23		
Badod-Kota/Morak	-167	-68	0	177	0.00	2.90	-2.90		
Mundra-Mohindergarh(HVDC)	368	369	372	0	8.92	0.00	8.92		
Sub Total WR	-545	230			12.95	17.77	-4.82		
Pusauli Bypass	250	250	250	0	6.06	0.00	6.06		
MZP- GKP (D/C)	208	334	392	0	6.78	0.00	6.78		
Patna-Balia(D/C)	450	509	570	0	12.64	0.00	12.64		
B'Sharif-Balia (D/C)	117	198	260	0	4.36	0.00	4.36		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	-119	-65	0	119	0.00	1.90	-1.90		
Gaya-Fatehpur (765 Kv)	105	85	210	0	2.78	0.00	2.78		
Pusauli-Sahupuri	136	119	152	0	3.17	0.00	3.17		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	-36	-32	0	47	0.00	1.16	-1.16		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sub Total ER	1111	1398			35.79	3.06	32.73		
Total IR Exch	566	1628			48.74	20.83	27.91		

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
30.53	0.58	31.11	3.16	-14.46	-0.44	11.26	3.18	-3.11
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
37.01	-0.59	36.43	32.73	-4.82	27.91	-4.28	-4.23	-8.51

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	7.99	96.15	88.16	57.95	3.85

<----- 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				
50.54	21.54	49.65	8.52	50.03	0.25	0.13	50.45	49.70

VII. Voltage profile

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	415	3:25	0	13:14	12.0	12.0	0.0	0.0
Gorakhpur	400	431	6:56	417	11:22	0.0	0.0	91.6	4.8
Bareilly	400	421	3:21	403	11:19	0.0	0.0	0.3	0.0
Kanpur	400	421	3:11	399	11:12	0.0	0.0	0.9	0.0
Dadri	400	427	3:18	408	11:12	0.0	0.0	35.0	0.0
Ballabgarh	400	433	3:23	410	11:12	0.0	0.0	52.1	5.4
Bawana	400	431	3:23	411	11:12	0.0	0.0	48.8	0.4
Bassi	400	433	3:24	403	11:12	0.0	0.0	33.8	3.9
Hissar	400	418	3:25	399	10:06	0.0	0.0	0.0	0.0
Moga	400	420	3:22	399	10:06	0.0	0.0	0.0	0.0
Abdullapur	400	427	3:04	409	10:06	0.0	0.0	37.9	0.0
Nalagarh	400	429	3:24	406	10:07	0.0	0.0	36.2	0.0
Kishenpur	400	421	23:54	394	10:06	0.0	0.0	0.1	0.0
Wagoora	400	413	14:24	370	10:29	34.8	49.8	0.0	0.0

VIII. 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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	501.32	1153.36	507.97	1455.60	197.91	445.85
Pong	426.72	384.05	416.46	730.66	418.09	807.91	81.10	445.65
Tehri	829.79	740.04	822.20	1044.51	818.65	982.26	64.34	155.00
Koteshwar	612.50	598.50	606.45	3.32	NA	NA	155.00	131.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	58.40	59.28
Rihand	268.22	252.98	262.83	500.10	264.57	617.70	NA	NA
RPS	352.80	343.81	348.91	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.39	NA	NA	NA	NA	NA
RSD	527.91	487.91	520.62	NA	518.41	NA	66.63	84.33

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 28.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 28.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER