

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.12.2012

Date of Reporting : 26.12.2012

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
33923	4279	38203	49.99	26555	688	27243	50.20	687.7	83.93

* 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	47.20	11.67		58.88	31.13	31.52	0.39	90.40	4.16
Haryana	45.80	0.53		46.33	40.35	42.64	2.29	88.97	17.37
Rajasthan	80.09	5.36	4.30	89.75	72.04	75.34	3.30	165.08	5.33
Delhi	30.55			30.55	29.37	28.05	-1.33	58.60	2.24
UP	112.18	4.73	16.80	133.72	64.67	65.03	0.35	198.74	48.13
Uttarakhand		8.62		8.62	17.25	18.94	1.69	27.56	4.41
HP		4.67		4.67	18.02	18.53	0.51	23.21	0.60
J & K		0.00	0.00	0.00	26.75	31.46	4.71	31.46	1.70
Chandigarh				0.00	3.37	3.67	0.30	3.67	0.00
Total	315.83	35.59	21.10	372.52	302.95	315.17	12.22	687.69	83.93

* 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	5003	600	-44	-464	2969	0	-16	-22	-7.71	
Haryana	4135	1164	10	268	3321	38	158	-94	-2.97	
Rajasthan	7961	207	455	1052	6966	0	18	969	32.68	
Delhi	3229	0	-110	-1062	1398	0	-12	-2450	-36.28	
UP	9138	2031	-387	-148	8442	630	105	-126	-7.51	
Uttarakhand	1395	160	13	389	1046	0	79	353	7.45	
HP	1149	17	-32	236	760	20	73	335	6.98	
J&K	1716	100	-198	374	1559	0	133	493	9.19	
Chandigarh	198	0	-4	0	94	0	8	-31	-0.26	
Total	33923	4279	-298	645	26555	688	546	-573	1.55	

* 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)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1950	2088	2063	46.17	1924	46.80	-0.63
Rihand I STPS	1000	813	996	465	19.30	804	19.52	-0.22
Rihand II STPS	1000	803	1037	832	19.12	797	19.28	-0.16
Rihand III STPS	500	-10	0	0	0.00	0	-0.24	0.24
Dadri I STPS	840	810	873	645	18.28	762	19.15	-0.87
Dadri II STPS	980	696	971	688	16.69	695	16.67	0.02
Unchahar I TPS	420	407	435	373	9.48	395	9.51	-0.04
Unchahar II TPS	420	405	438	339	9.21	384	9.26	-0.05
Unchahar III TPS	210	202	221	172	4.65	194	4.69	-0.04
ISTPP (Jhajhar)	1500	607	0	290	10.97	457	12.08	-1.11
Dadri GPS	830	845	430	355	9.24	385	9.93	-0.69
Anta GPS	419	434	277	215	5.92	247	5.88	0.04
Auraiya GPS	663	671	328	310	7.28	303	7.34	-0.06
Sub Total (A)	10782	8634	8094	6747	176.30	7346	179.86	-3.56
B. NPC								
NAPS	440	290	328	330	7.00	291	6.96	0.04
RAPS- B	440	208	235	235	4.98	207	4.99	-0.01
RAPS- C	440	220	0	0	0.00	0	5.28	-5.28
Sub Total (B)	1320	718	563	565	11.97	499	17.23	-5.26
C. NHPC								
Chamera I HPS	540	365	360	0	2.32	97	2.24	0.08
Chamera II HPS	300	303	60	0	0.93	39	1.04	-0.11
Chamera III HPS	231	231	73	0	0.72	30	0.64	0.08
Bairasuil HPS	180	182	60	0	0.55	23	0.52	0.03
Salai-HPS	690	113	200	218	2.73	114	2.74	-0.01
Tanakpur-HPS	94	29	32	14	0.68	28	0.70	-0.02
Uri-HPS	480	94	202	30	2.80	117	2.71	0.09
Dhauliganga-HPS	280	210	71	0	0.70	29	0.65	0.05
Dulhasi-HPS	390	388	161	0	2.68	112	2.59	0.09
Sewa-II HPS	120	80	50	0	0.29	12	0.27	0.03
Sub Total (C)	3305	1994	1269	262	14.40	600	14.09	0.31
D.NJPC								
Nathpa Jhakri	1500	1605	1228	0	7.81	325	7.00	0.81
Sub Total (D)	1500	1605	1228	0	7.81	325	7.00	0.81
E. THDC								
Tehri HPS	1000	1050	901	0	10.40	433	10.00	0.40
Koteshwar HPS	400	300	302	86	3.64	152	3.60	0.04
Sub Total (E)	1400	1350	1203	86	14.04	585	13.60	0.43
F. BBMB								
Bhakra HPS	1480	655	1104	412	16.04	668	15.71	0.33
Dehar HPS	990	127	495	0	3.16	132	3.05	0.12
Pong HPS	396	241	300	60	5.94	248	5.01	0.93
Sub Total (F)	2866	1022	1899	472	25.14	1048	23.76	1.38
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.48	20	0.52	-0.04
KWHEP HPS(IPP)	1000	0	0	0	0.01	0	0.00	0.01
Malana Stg-II HPS	100	0	22	0	0.18	7	0.15	0.02
Shree Cement TPS	300	0	276	236	6.12	255	5.60	0.51
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.17	-0.17
Sub Total (G)	1662	0	298	236	6.78	282	6.45	0.32
H. Total Regional Entities (A-G)	22836	15323	14554	8368	256.43	10685	262.00	-5.57

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	1057	870	22.54	939	
	Guru Nanak Dev TPS(Bhatinda)	440	340	295	6.52	272	
	Guru Hargobind Singh TPS(L.mbt)	920	952	722	18.15	756	
	Thermal (Total)	2620	2349	1887	47.20	1967	
	Total Hydro	1148	629	317	11.67	486	
	Total Punjab	3768	2978	2204	58.88	2453	
Haryana	Panipat TPS	1367	607	637	15.30	638	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	434	278	9.52	397	
	RGTPP (khedar) (IPP)	1200	552	447	11.90	496	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	392	379	9.09	379	
	Thermal (Total)	4944	196	1741	45.80	1909	
	Total Hydro	62	23	22	0.53	22	
	Total Haryana	5006	219	1763	46.33	1931	
Rajasthan	kota TPS	1240	973	970	23.12	963	
	suratgarh TPS	1500	1069	1084	26.40	1100	
	Chabra TPS	500	409	390	9.39	391	
	Dholpur GPS	330	88	138	0.00	0	
	Ramgarh GPS	111	81	45	1.95	81	
	RAPS A (NPC)	300	181	181	4.38	183	
	Barsingsar (NLC)	250	110	214	3.64	152	
	Giral LTPS	250	40	88	0.91	38	
	Rajwest LTPS (IPP)	540	468	388	10.29	429	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3419	3498	80.09	3337	
	Total Hydro	550	339	143	5.36	223	
	Wind power	2191	80	393	3.51	146	
	Biomass	91	27	27	0.65	27	
	Solar	201	3	0	0.14	6	
		Renewable/Others (Total)	2483	107	420	4.30	179
		Total Rajasthan	8189	3865	4061	89.75	3740
UP	Anpara TPS	1630	1581	1573	34.00	1417	
	Obra TPS	1382	545	500	11.30	471	
	Paricha TPS	890	672	204	1.20	50	
	Panki TPS	210	65	75	1.50	63	
	Harduaganj TPS	665	204	275	5.10	213	
	Tanda TPS (NTPC)	440	399	399	9.71	405	
	Roza TPS (IPP)	1200	1130	945	24.47	1019	
	Anpara-C (IPP)	1200	630	631	15.21	634	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	403	9.70	404	
	Thermal (Total)	8067	5631	5005	112.18	4674	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	149	209	4.73	197	
	Cogeneration	981	700	700	16.80	700	
		Total UP	9975	6480	5914	133.72	5572
Uttarakhand	Total Hydro	1303	453	298	8.62	359	
	Total Uttarakhand	1303	453	298	8.62	359	
Delhi	Raighat TPS	135	107	102	2.77	116	
	Delhi Gas Turbine	282	189	115	3.67	153	
	Pragati Gas Turbine	330	322	325	7.92	330	
	Rithala GPS	108	21	20	0.51	21	
	Bawana GPS	677	213	213	5.39	225	
	Badarpur TPS (NTPC)	705	485	410	10.29	429	
	Thermal (Total)	2237	1337	1185	30.55	1273	
	Total Delhi	2237	1337	1185	30.55	1273	
HP	Baspa HPS (IPP)	330	29	0	1.06	44	
	Malana HPS (IPP)	86	40	0	0.20	8	
	Other Hydro	589	150	85	3.41	142	
	Total HP	1005	219	85	5	195	
J & K	Baglihar HPS (IPP)	450	150	0	0.00	0	
	Other Hydro	323	0	0	0.00	0	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	150	0	0.00	0	
Total State Control Area Generation		32439	15701	15510	372.52	15522	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2773	2323	69.49	2896	
Total Regional Availability(Gross)		55275	33028	26201	698.44	29102	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5621	820	62.05	2585
State Control Area Hydro	5368	1962	1074	35.59	1483
Total Regional Hydro	15731	7583	1894	97.63	4068

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	-100	300	200	4.45	1.11	3.35
Gwalior-Agra (D/C)	117	364	620	0	8.12	0.00	8.12
Zerda-Kankroli	70	45	180	115	0.82	0.00	0.82
Zerda-Bhinmal	113	104	270	56	2.72	0.00	2.72
Malanpur-Auraiya	-190	-119	0	190	0.00	3.13	-3.13
Badod-Kota/Morak	9	-7	5	76	0.00	0.26	-0.26
Mundra-Mohindergarh(HVDC)	628	613	631	0	15.58	0.00	15.58
Sub Total WR	1047	900			31.69	4.50	27.19
Pusauli Bypass	-100	-100	0	100	0.00	2.43	-2.43
MZP- GKP (D/C)	442	290	560	0	11.39	0.00	11.39
Patna-Balia(D/C)	801	685	897	0	18.71	0.00	18.71
B'Sharif-Balia (D/C)	400	270	474	0	8.26	0.00	8.26
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	78	54	125	0	0.86	0.00	0.86
Gaya-Fatehpur (765 Kv)	0	140	273	0	3.07	0.00	3.07
Pusauli-Sahupuri	142	116	157	0	3.48	0.00	3.48
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	1.04	-1.04
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1726	1423			45.77	3.47	42.30
Total IR Exch	2773	2323			77.46	7.97	69.49

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
43.24	0.28	43.52	2.48	-20.00	-0.07	15.90	-3.56	3.57
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
42.37	19.84	62.21	42.30	27.19	69.49	-0.07	7.35	7.28

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	2.60	17.70	91.10	76.00	33.60	6.30
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.36	23.57	49.25	10.11	49.89	0.53	0.20	50.33	49.56

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	411	4:04	393	12:09	0.0	0.0	0.0	0.0
Gorakhpur	400	425	4:57	409	12:12	0.0	0.0	23.7	0.0
Bareilly	400	420	22:55	400	15:20	0.0	0.0	0.0	0.0
Kanpur	400	423	4:04	394	12:12	0.0	0.0	1.9	0.0
Dadri	400	422	4:04	407	6:42	0.0	0.0	3.6	0.0
Ballabgarh	400	421	23:57	403	17:51	0.0	0.0	0.1	0.0
Bawana	400	427	4:02	405	12:11	0.0	0.0	15.4	0.0
Bassi	400	436	4:07	393	17:52	0.0	0.0	21.8	6.4
Hissar	400	417	4:01	395	17:52	0.0	0.0	0.0	0.0
Moga	400	406	0:00	403	0:15	0.0	0.0	0.0	0.0
Abdullapur	400	421	20:28	408	0:17	0.0	0.0	1.4	0.0
Nalagarh	400	420	5:32	401	0:17	0.0	0.0	0.0	0.0
Kishenpur	400	414	4:01	385	12:10	0.0	2.3	0.0	0.0
Wagoora	400	400	16:01	357	18:11	58.0	83.5	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	496.13	948.89	503.24	1232.31	148.07	435.60
Pong	426.72	384.05	411.63	544.90	414.38	656.23	68.78	375.08
Tehri	829.79	740.04	813.80	882.26	818.65	982.26	51.74	236.00
Koteswar	612.50	598.50	610.40	4.69	NA	NA	236.00	241.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	53.39	63.06
Rihand	268.22	252.98	261.95	500.10	263.68	617.70	NA	NA
RPS	352.80	343.81	348.58	NA	350.15	NA	242.68	NA
Jawahar Sagar	298.70	295.78	298.22	NA	297.85	NA	243.84	NA
RSD	527.91	487.91	517.55	NA	511.62	NA	69.09	186.13

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.12.2012 :

1. Dense Fog in northern region.

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 : 25.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER