

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.11.2012

Date of Reporting : 26.11.2012

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
30583	2554	33136	0.00	26451	600	27051	0.00	674.5	33.18

* 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 *
Punjab	45.79	7.90		53.69	31.61	31.87	0.27	85.56	1.80
Haryana	59.81	0.58		60.39	33.02	34.04	1.03	94.43	3.27
Rajasthan	87.90	4.89	5.51	98.30	62.01	60.61	-1.40	158.91	0.00
Delhi	30.58			30.58	23.53	21.69	-1.84	52.28	0.05
UP	109.56	6.84	3.60	119.99	79.66	74.42	-5.24	194.41	23.91
Uttarakhand		8.00		8.00	18.38	18.87	0.49	26.86	2.09
HP		5.28		5.28	16.02	16.82	0.80	22.11	0.35
J & K		7.47	0.00	7.47	30.12	29.45	-0.66	36.92	1.70
Chandigarh				0.00	3.25	3.03	-0.23	3.03	0.00
Total	333.63	40.96	9.11	383.70	297.60	290.80	-6.79	674.50	33.18

* 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	3995	600	-104	-464	3086	0	64	71	-4.75
Haryana	4619	694	176	98	3365	0	-43	94	2.41
Rajasthan	6663	0	-31	345	6639	0	62	640	21.76
Delhi	2684	0	-259	-1326	1354	0	-40	-2404	-42.99
UP	8285	1080	-436	725	8652	600	-141	639	7.62
Uttarakhand	1379	80	-18	384	1040	0	39	361	8.89
HP	1057	0	-28	86	738	0	63	306	4.04
J&K	1745	100	-405	621	1486	0	7	577	12.60
Chandigarh	155	0	-32	-20	91	0	7	-31	-0.47
Total	30583	2554	-1136	448	26451	600	20	253	9.10

* 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)]
								UI Net MU
A. NTPC								
Singrauli STPS	2000	1945	2075	2090	46.54	1939	46.68	-0.14
Rihand I STPS	1000	460	505	505	10.98	458	11.04	-0.06
Rihand II STPS	1000	975	1021	1037	23.19	966	23.40	-0.21
Rihand III STPS	500	128	232	0	3.13	130	2.15	0.98
Dadri I STPS	840	810	826	855	18.83	785	19.37	-0.54
Dadri II STPS	980	975	970	973	21.97	916	23.00	-1.03
Unchahar I TPS	420	402	378	416	8.98	374	9.48	-0.51
Unchahar II TPS	420	405	425	407	9.06	377	9.42	-0.36
Unchahar III TPS	210	202	203	194	4.50	188	4.75	-0.25
ISTPP (Jhajjar)	1500	470	352	312	7.84	327	8.09	-0.25
Dadri GPS	830	837	388	391	8.84	368	8.96	-0.12
Anta GPS	419	282	266	222	5.93	247	5.91	0.02
Auraiya GPS	663	657	315	302	6.96	290	6.88	0.09
Sub Total (A)	10782	8547	7956	7704	176.75	7365	179.13	-2.38
B. NPC								
NAPS	440	281	318	325	6.78	282	6.74	0.04
RAPS- B	440	418	462	463	10.09	421	10.03	0.06
RAPS- C	440	430	472	477	10.13	422	10.32	-0.19
Sub Total (B)	1320	1129	1252	1265	27.00	1125	27.10	-0.10
C. NHPC								
Chamera I HPS	540	550	360	0	2.03	85	2.02	0.01
Chamera II HPS	300	303	123	0	1.45	60	1.48	-0.03
Chamera III HPS	231	231	100	0	0.86	36	0.90	-0.04
Bairasuil HPS	180	182	110	0	0.60	25	0.60	0.00
Salai-HPS	690	146	219	120	3.10	129	3.51	-0.41
Tanakpur-HPS	94	40	32	38	0.96	40	0.95	0.01
Uri-HPS	480	114	233	39	2.64	110	2.73	-0.09
Dhauliganga-HPS	280	288	199	0	1.38	57	1.38	0.00
Dulhasi-HPS	390	388	287	0	3.03	126	2.98	0.05
Sewa-II HPS	120	120	79	0	0.27	11	0.26	0.01
Sub Total (C)	3305	2361	1742	197	16.30	679	16.79	-0.49
D. NJPC								
Nathpa Jhakri	1500	1605	1012	0	8.07	336	8.53	-0.46
Sub Total (D)	1500	1605	1012	0	8.07	336	8.53	-0.46
E. THDC								
Tehri HPS	1000	1050	913	0	6.96	290	7.00	-0.04
Koteswar HPS	400	290	286	0	2.01	84	2.00	0.01
Sub Total (E)	1400	1340	1199	0	8.97	374	9.00	-0.03
F. BBMB								
Bhakra HPS	1480	678	1102	415	16.41	684	16.27	0.14
Dehar HPS	990	147	495	0	3.42	143	3.54	-0.12
Pong HPS	396	315	366	180	7.63	318	5.01	2.62
Sub Total (F)	2866	1140	1963	595	27.46	1144	24.81	2.65
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.58	24	0.65	-0.07
KWHEP HPS(IPP)	1000	0	150	0	4.39	183	4.07	0.32
Malana Stg-II HPS	100	0	36	19	0.26	11	0.24	0.02
Shree Cement TPS	300	0	148	143	3.45	144	4.04	-0.59
Budhil HPS(IPP)	70	0	6	6	0.14	6	0.42	-0.28
Sub Total (G)	1662	0	340	168	8.81	367	9.42	-0.61
H. Total Regional Entities (A-G)	22836	16123	15464	9929	273.36	11390	274.78	-1.42

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	1100	1080	26.30	1096	
	Guru Nanak Dev TPS(Bhatinda)	440	215	225	4.86	203	
	Guru Hargobind Singh TPS(L.mbt)	920	549	581	14.62	609	
	Thermal (Total)	2620	1864	1886	45.79	1908	
	Total Hydro	1148	266	268	7.90	329	
	Total Punjab	3768	2130	2154	53.69	2237	
Haryana	Panipat TPS	1367	902	1053	23.02	959	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	142	99	2.83	118	
	RGTPP (kheadar) (IPP)	1200	941	846	22.62	943	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	615	426	11.33	472	
	Thermal (Total)	4944	2600	2424	59.81	2492	
	Total Hydro	62	21	23	0.58	24	
	Total Haryana	5006	2621	2447	60.39	2516	
Rajasthan	kota TPS	1240	1071	1051	26.03	1085	
	suratgarh TPS	1500	1083	1131	27.61	1150	
	Chabra TPS	500	377	386	9.37	390	
	Dholpur GPS	330	146	151	3.53	147	
	Ramgarh GPS	111	81	80	2.19	91	
	RAPS A (NPC)	300	179	179	4.34	181	
	Barsingar (NLC)	250	105	104	2.43	101	
	Giral LTPS	250	42	56	0.85	35	
	Rajwest LTPS (IPP)	540	486	486	11.56	482	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3570	3624	87.90	3662	
	Total Hydro	550	191	117	4.89	204	
	Wind power	2191	99	362	4.61	192	
	Biomass	91	32	32	0.76	32	
	Solar	201	4	0	0.14	6	
	Renewable/Others (Total)	2483	131	394	5.51	230	
	Total Rajasthan	8189	3892	4135	98.30	4096	
	UP	Anpara TPS	1630	1036	1050	23.00	958
		Obra TPS	1382	520	505	11.20	467
		Paricha TPS	890	400	405	8.70	363
Panki TPS		210	160	150	3.40	142	
Harduaganj TPS		665	264	287	5.80	242	
Tanda TPS (NTPC)		440	394	400	9.55	398	
Roza TPS (IPP)		1200	1045	1062	24.11	1004	
Anpara-C (IPP)		1200	790	824	19.04	793	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	202	203	4.77	199	
Thermal (Total)		8067	4811	4886	109.56	4565	
Vishnuparyag HPS (IPP)		400	118	109	2.60	108	
Other Hydro		527	65	141	4.24	177	
Cogeneration		981	150	150	3.60	150	
Total UP		9975	5144	5286	119.99	4891	
Uttarakhand		Total Hydro	1303	403	331	8.00	333
	Total Uttarakhand	1303	403	331	8.00	333	
Delhi	Raighat TPS	135	103	104	2.43	101	
	Delhi Gas Turbine	282	159	72	7.60	317	
	Pragati Gas Turbine	330	313	321	2.54	106	
	Rithala GPS	108	0	0	0.00	0	
	Bawana GPS	677	290	225	6.10	254	
	Badarpur TPS (NTPC)	705	510	480	11.92	497	
	Thermal (Total)	2237	1375	1202	30.58	1274	
	Total Delhi	2237	1375	1202	30.58	1274	
HP	Baspa HPS (IPP)	330	30	0	1.22	51	
	Malana HPS (IPP)	86	41	0	0.22	9	
	Other Hydro	589	165	137	3.84	160	
	Total HP	1005	236	137	5	220	
J & K	Baglihar HPS (IPP)	450	296	146	4.29	179	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	416	321	7.47	311	
Total State Control Area Generation		32439	16217	16013	383.70	15879	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			798	1270	24.96	1040	
Total Regional Availability(Gross)		55275	32479	27212	682.01	28309	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6102	811	66.02	2751
State Control Area Hydro	5368	1598	1338	40.96	1598
Total Regional Hydro	15731	7700	2149	106.98	4349

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	-250	-200	50	350	0.17	4.47	-4.31
Gwalior-Agra (D/C)	146	100	314	273	0.00	0.68	-0.68
Zerda-Kankroli	-170	-111	0	245	0.00	4.09	-4.09
Zerda-Bhinmal	-73	-39	14	195	0.00	1.93	-1.93
Malanpur-Auraiya	-157	-180	0	236	0.00	4.20	-4.20
Badod-Kota/Morak	-157	-142	0	223	0.00	3.71	-3.71
Mundra-Mohindergarh(HVDC)	370	367	371	0	8.92	0.00	8.92
Sub Total WR	-291	-205			9.09	19.08	-9.99
Pusauli Bypass	200	200	200	0	4.28	0.00	4.28
MZP- GKP (D/C)	284	380	448	0	8.40	0.00	8.40
Patna-Balia(D/C)	393	536	625	0	11.80	0.00	11.80
B'Sharif-Balia (D/C)	141	254	373	0	5.56	0.00	5.56
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-116	-121	0	199	0.00	1.09	-1.09
Gaya-Fatehpur (765 Kv)	81	131	277	0	3.75	0.00	3.75
Pusauli-Sahupuri	146	129	147	0	3.19	0.00	3.19
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-34	0	46	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1089	1475			36.99	2.04	34.95
Total IR Exch	798	1270			46.08	21.12	24.96

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
27.04	0.50	27.53	5.00	-14.39	-0.31	11.22	3.18	-3.18
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
35.40	2.19	37.60	34.95	-9.99	24.96	-0.46	-12.18	-12.64

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	1.15	83.88	82.74	81.95	16.12

<----- 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				
50.59	14.04	49.63	12.17	50.15	0.46	0.13	0.00	0.00

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	17:29	0	17:58	6.7	6.7	0.0	0.0
Gorakhpur	400	430	18:32	411	11:45	0.0	0.0	70.2	0.0
Bareilly	400	421	4:04	400	11:18	0.0	0.0	0.1	0.0
Kanpur	400	421	4:03	401	10:15	0.0	0.0	0.1	0.0
Dadri	400	424	3:08	406	10:23	0.0	0.0	18.6	0.0
Ballabhgarh	400	432	4:02	410	10:27	0.0	0.0	49.1	0.5
Bawana	400	429	4:02	410	10:15	0.0	0.0	39.6	0.0
Bassi	400	439	4:02	409	8:44	0.0	0.0	59.5	13.1
Hissar	400	417	4:02	398	10:27	0.0	0.0	0.0	0.0
Moga	400	420	4:02	398	10:25	0.0	0.0	0.0	0.0
Abdullapur	400	427	4:02	402	10:15	0.0	0.0	29.0	0.0
Nalagarh	400	427	0:01	410	10:26	0.0	0.0	31.0	0.0
Kishenpur	400	416	3:24	393	7:29	0.0	0.0	0.0	0.0
Wagoora	400	401	3:05	368	7:29	42.4	68.2	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 25.11.2012 :

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 : 25.11.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER