

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.11.2012

Date of Reporting : 30.11.2012

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
31699	2557	34256	50.17	25681	830	26511	50.41	682.0	36.83

* 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	45.89	9.23		55.12	30.14	30.82	0.68	85.94	2.62
Haryana	63.19	0.55		63.74	38.24	38.22	-0.01	101.96	0.04
Rajasthan	79.91	4.16	8.00	92.07	71.69	68.81	-2.88	160.87	0.00
Delhi	29.16			29.16	30.76	27.28	-3.48	56.44	0.10
UP	116.74	6.32	3.60	126.65	68.57	62.62	-5.95	189.27	30.90
Uttarakhand		8.21		8.21	20.34	20.53	0.19	28.74	1.47
HP		5.38		5.38	16.05	17.19	1.14	22.57	0.00
J & K		7.36	0.00	7.36	27.64	25.43	-2.20	32.80	1.70
Chandigarh				0.00	3.46	3.39	-0.07	3.39	0.00
Total	334.88	41.22	11.60	387.69	306.88	294.30	-12.58	681.99	36.83

* 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	4149	600	-38	-382	3088	0	46	61	-5.25	
Haryana	4851	0	-20	102	3573	0	-73	87	2.31	
Rajasthan	6846	0	-261	859	6779	0	65	1301	31.21	
Delhi	2983	7	-100	-989	1393	0	-24	-2085	-31.93	
UP	8468	1760	-243	-54	7879	830	-176	-101	-1.10	
Uttarakhand	1305	90	-119	405	1020	0	-63	436	10.26	
HP	1117	0	2	124	731	0	50	255	3.99	
J&K	1795	100	-343	541	1129	0	-244	440	9.89	
Chandigarh	185	0	-14	-18	89	0	-3	-31	-0.36	
Total	31699	2557	-1136	588	25681	830	-422	363	19.02	

* 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	1947	2083	2004	46.45	1935	46.72	-0.27
Rihand I STPS	1000	460	510	473	10.82	451	10.92	-0.10
Rihand II STPS	1000	975	1043	997	23.13	964	23.16	-0.02
Rihand III STPS	500	40	0	204	0.88	37	0.94	-0.06
Dadri I STPS	840	810	776	663	17.69	737	17.84	-0.15
Dadri II STPS	980	975	841	885	20.99	874	21.75	-0.76
Unchahar I TPS	420	402	439	366	9.16	382	9.30	-0.14
Unchahar II TPS	420	405	441	341	9.03	376	9.08	-0.05
Unchahar III TPS	210	202	217	176	4.52	189	4.58	-0.06
ISTPP (Jhajhar)	1500	973	719	340	16.00	667	15.90	0.10
Dadri GPS	830	840	366	371	8.60	358	8.71	-0.12
Anta GPS	419	282	243	171	5.26	219	5.20	0.06
Auraiya GPS	663	659	292	297	6.82	284	6.66	0.16
Sub Total (A)	10782	8969	7970	7288	179.34	7472	180.76	-1.42
B. NPC								
NAPS	440	281	313	320	6.67	278	6.74	-0.08
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	1242	1255	26.85	1119	27.10	-0.24
C. NHPC								
Chamera I HPS	540	550	180	0	2.51	105	2.48	0.04
Chamera II HPS	300	303	130	0	1.39	58	1.35	0.04
Chamera III HPS	231	231	153	0	0.82	34	0.80	0.02
Bairasuil HPS	180	182	20	0	0.76	32	0.52	0.24
Salai-HPS	690	131	228	130	2.83	118	3.16	-0.33
Tanakpur-HPS	94	34	34	24	0.85	35	0.83	0.02
Uri-HPS	480	112	234	42	2.62	109	2.55	0.06
Dhauliganga-HPS	280	288	131	0	1.42	59	1.42	0.00
Dulhasi-HPS	390	388	228	0	2.71	113	2.73	-0.02
Sewa-II HPS	120	120	70	0	0.33	14	0.32	0.01
Sub Total (C)	3305	2338	1408	196	16.23	676	16.16	0.07
D. NJPC								
Nathpa Jhakri	1500	1605	1022	0	7.62	318	7.50	0.12
Sub Total (D)	1500	1605	1022	0	7.62	318	7.50	0.12
E. THDC								
Tehri HPS	1000	1050	928	0	7.17	299	7.00	0.17
Koteshwar HPS	400	300	205	0	2.43	101	2.41	0.02
Sub Total (E)	1400	1350	1133	0	9.60	400	9.41	0.19
F. BBMB								
Bhakra HPS	1480	703	1102	404	17.15	715	16.88	0.27
Dehar HPS	990	163	495	0	4.14	173	3.92	0.22
Pong HPS	396	330	366	246	8.06	336	5.01	3.05
Sub Total (F)	2866	1197	1963	650	29.35	1223	25.81	3.54
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.58	24	0.00	0.58
KWHEP HPS(IPP)	1000	0	170	0	4.28	178	4.38	-0.10
Malana Stg-II HPS	100	0	32	0	0.25	11	0.00	0.25
Shree Cement TPS	300	0	146	143	3.49	145	3.54	-0.06
Budhil HPS(IPP)	70	0	6	10	0.20	8	0.42	-0.22
Sub Total (G)	1662	0	354	153	8.80	367	8.34	0.46
H. Total Regional Entities (A-G)	22836	16588	15092	9542	277.80	11575	275.08	2.71

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	1080	1080	26.72	1113	
	Guru Nanak Dev TPS(Bhatinda)	440	219	215	4.75	198	
	Guru Hargobind Singh TPS(L.mbt)	920	572	539	14.42	601	
	Thermal (Total)	2620	1871	1834	45.89	1912	
	Total Hydro	1148	480	277	9.23	385	
	Total Punjab	3768	2351	2111	55.12	2297	
Haryana	Panipat TPS	1367	1098	910	25.31	1055	
	DCRTPP (Yamuna nagar)	600	225	210	4.46	186	
	Faridabad GPS (NTPC)	432	142	111	3.12	130	
	RGTPP (khedar) (IPP)	1200	795	803	18.87	786	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	575	417	11.42	476	
	Thermal (Total)	4944	2835	2451	63.19	2633	
	Total Hydro	62	22	22	0.55	23	
	Total Haryana	5006	2857	2473	63.74	2656	
Rajasthan	kota TPS	1240	978	895	22.45	935	
	suratgarh TPS	1500	1116	948	24.11	1005	
	Chabra TPS	500	453	388	9.52	397	
	Dholpur GPS	330	158	137	3.35	140	
	Ramgarh GPS	111	80	80	2.09	87	
	RAPS A (NPC)	300	179	179	4.30	179	
	Barsingar (NLC)	250	104	104	2.44	102	
	Giral LTPS	250	0	22	0.14	6	
	Rajwest LTPS (IPP)	540	486	486	11.50	479	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3554	3239	79.91	3329	
	Total Hydro	550	190	126	4.16	174	
	Wind power	2191	334	342	6.96	290	
	Biomass	91	37	37	0.89	37	
	Solar	201	4	0	0.15	6	
	Renewable/Others (Total)	2483	371	379	8.00	333	
	Total Rajasthan	8189	4115	3744	92.07	3836	
	UP	Anpara TPS	1630	1256	1209	29.70	1238
		Obra TPS	1382	461	461	11.20	467
		Paricha TPS	890	360	369	8.70	363
Panki TPS		210	140	144	3.30	138	
Harduaganj TPS		665	241	243	5.20	217	
Tanda TPS (NTPC)		440	395	398	9.71	405	
Roza TPS (IPP)		1200	887	824	21.98	916	
Anpara-C (IPP)		1200	876	794	20.25	844	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	283	282	6.70	279	
Thermal (Total)		8067	4899	4724	116.74	4864	
Vishnuparyag HPS (IPP)		400	118	103	2.48	103	
Other Hydro		527	159	176	3.84	160	
Cogeneration		981	150	150	3.60	150	
Total UP		9975	5326	5153	126.65	5174	
Uttarakhand		Total Hydro	1303	420	287	8.21	342
		Total Uttarakhand	1303	420	287	8.21	342
Delhi	Raighat TPS	135	54	44	1.46	61	
	Delhi Gas Turbine	282	15	157	3.90	162	
	Pragati Gas Turbine	330	313	316	7.77	324	
	Rithala GPS	108	21	0	0.19	8	
	Bawana GPS	677	276	223	5.90	246	
	Badarpur TPS (NTPC)	705	500	390	9.95	414	
	Thermal (Total)	2237	1179	1130	29.16	1215	
	Total Delhi	2237	1179	1130	29.16	1215	
HP	Baspa HPS (IPP)	330	36	0	1.22	51	
	Malana HPS (IPP)	86	31	0	0.16	6	
	Other Hydro	589	184	137	4.01	167	
	Total HP	1005	251	137	5	224	
J & K	Baglihar HPS (IPP)	450	294	140	4.18	174	
	Other Hydro	323	120	175	3.18	133	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	414	315	7.36	307	
Total State Control Area Generation		32439	16913	15350	387.69	16050	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			231	1341	28.16	1173	
Total Regional Availability(Gross)		55275	32236	26233	693.64	28798	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	5728	846	67.92	2830
State Control Area Hydro	5368	1936	1340	41.22	1614
Total Regional Hydro	15731	7664	2186	109.13	4444

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	-450	0	450	0.00	7.79	-7.79
Gwalior-Agra (D/C)	144	180	446	0	3.99	0.00	3.99
Zerda-Kankroli	-183	-41	0	191	0.00	2.55	-2.55
Zerda-Bhinmal	-121	47	100	219	0.00	0.59	-0.59
Malanpur-Auraiya	-168	-128	0	170	0.00	2.96	-2.96
Badod-Kota/Morak	-162	-77	0	162	0.00	2.52	-2.52
Mundra-Mohindergarh(HVDC)	368	369	372	0	8.77	0.00	8.77
Sub Total WR	-372	-100			12.76	16.41	-3.65
Pusauli Bypass	250	250	250	0	6.01	0.00	6.01
MZP- GKP (D/C)	110	380	470	0	6.71	0.00	6.71
Patna-Balia(D/C)	233	523	584	0	12.05	0.00	12.05
B'Sharif-Balia (D/C)	109	186	286	0	4.02	0.00	4.02
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-252	-136	0	252	0.00	2.16	-2.16
Gaya-Fatehpur (765 Kv)	55	142	219	0	2.96	0.00	2.96
Pusauli-Sahupuri	135	128	153	0	3.22	0.00	3.22
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-32	0	48	0.00	1.00	-1.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	603	1441			34.96	3.16	31.80
Total IR Exch	231	1341			47.72	19.57	28.16

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
28.87	0.56	29.42	6.87	-15.45	-0.39	20.91	3.02	-2.95
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
38.92	6.25	45.17	31.80	-3.65	28.16	-7.12	-9.90	-17.02

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	0.49	87.76	87.27	78.05	12.24
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.54	3.07	49.69	12.48	50.13	0.38	0.13	50.50	49.88

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	412	3:05	0	1:52	48.2	48.2	0.0	0.0
Gorakhpur	400	433	21:05	417	11:44	0.0	0.0	80.8	4.4
Bareilly	400	428	21:53	401	10:42	0.0	0.0	18.8	0.0
Kanpur	400	422	3:06	398	12:49	0.0	0.0	2.8	0.0
Dadri	400	428	4:06	408	10:15	0.0	0.0	36.9	0.0
Ballabhgarh	400	434	3:06	410	10:15	0.0	0.0	45.4	11.1
Bawana	400	432	3:15	411	10:15	0.0	0.0	44.6	4.6
Bassi	400	435	4:05	403	8:48	0.0	0.0	36.8	8.7
Hissar	400	420	3:15	398	11:47	0.0	0.0	0.0	0.0
Moga	400	422	3:06	401	11:18	0.0	0.0	8.3	0.0
Abdullapur	400	428	3:06	294	15:52	0.1	0.1	38.0	0.0
Nalagarh	400	428	3:15	404	11:23	0.0	0.0	23.9	0.0
Kishenpur	400	428	3:16	391	14:31	0.0	0.0	16.5	0.0
Wagoora	400	424	3:16	377	14:31	1.2	32.0	5.4	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 29.11.2012 :

Normal

XII. Synchronisation of new generating units :

0.00

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

1: 400kV Merta - Jodhpur (RRVPN) ckt-2 first time charged at 12.05hrs of dt 29.11.2012

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.11.2012

पारी प्रभासी अभियंता / SHIFT CHARGE ENGINEER