

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.12.2012

Date of Reporting : 22.12.2012

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
33047	3681	36728	50.04	27253	323	27576	50.36	723.3	55.40

* 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	50.38	10.63		61.01	33.20	33.40	0.21	94.41	4.28
Haryana	47.41	0.59		47.99	45.87	48.54	2.67	96.54	1.48
Rajasthan	88.27	5.67	2.06	96.01	71.00	73.59	2.60	169.60	2.30
Delhi	25.00			25.00	37.28	34.52	-2.76	59.51	0.36
UP	120.73	4.59	14.40	139.71	70.14	67.61	-2.53	207.33	42.21
Uttarakhand		9.27		9.27	19.90	20.99	1.09	30.26	2.10
HP		4.86		4.86	17.80	18.99	1.20	23.85	0.97
J & K		6.74	0.00	6.74	28.75	31.48	2.73	38.22	1.70
Chandigarh				0.00	3.51	3.61	0.10	3.61	0.00
Total	331.78	42.34	16.46	390.59	327.44	332.74	5.30	723.32	55.40

* 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	4760	600	9	-409	3393	0	150	91	-6.00	
Haryana	4484	1010	11	128	3664	23	263	-39	-0.72	
Rajasthan	7208	269	133	822	6916	0	250	1080	30.67	
Delhi	3137	0	-118	-1013	1324	0	-16	-2311	-33.70	
UP	8754	1610	-594	-121	8332	300	-206	-105	-6.90	
Uttarakhand	1562	80	71	435	1041	0	82	375	9.61	
HP	1190	12	-34	202	949	0	212	337	6.32	
J&K	1763	100	-75	393	1544	0	71	496	9.33	
Chandigarh	189	0	-9	0	90	0	1	-30	-0.30	
Total	33047	3681	-606	437	27253	323	807	-106	8.31	

* 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	2086	2027	46.77	1949	46.72	0.05
Rihand I STPS	1000	920	989	980	22.09	920	22.08	0.01
Rihand II STPS	1000	975	1044	1011	23.41	975	23.40	0.01
Rihand III STPS	500	298	318	245	7.19	300	7.16	0.03
Dadri I STPS	840	810	860	680	18.23	759	18.58	-0.35
Dadri II STPS	980	929	1005	811	21.12	880	22.01	-0.89
Unchahar I TPS	420	407	438	387	9.48	395	9.56	-0.08
Unchahar II TPS	420	399	435	371	9.18	383	9.20	-0.02
Unchahar III TPS	210	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajjar)	1500	899	786	640	17.05	711	17.49	-0.44
Dadri GPS	830	844	345	346	8.87	370	9.27	-0.40
Anta GPS	419	429	195	178	5.21	217	5.15	0.06
Auraiya GPS	663	667	263	255	6.76	282	6.58	0.19
Sub Total (A)	10782	9524	8764	7931	195.36	8140	197.19	-1.83
B. NPC								
NAPS	440	138	164	164	3.34	139	3.31	0.03
RAPS- B	440	208	232	234	5.03	209	4.99	0.04
RAPS- C	440	440	476	478	10.23	426	10.56	-0.33
Sub Total (B)	1320	786	872	876	18.60	775	18.86	-0.26
C. NHPC								
Chamera I HPS	540	550	180	0	1.76	73	1.85	-0.08
Chamera II HPS	300	303	11	0	1.31	55	1.27	0.04
Chamera III HPS	231	231	55	0	0.72	30	0.75	-0.04
Bairasuil HPS	180	182	60	0	0.57	24	0.55	0.02
Salai-HPS	690	120	220	34	2.65	110	2.89	-0.25
Tanakpur-HPS	94	32	32	26	0.73	30	0.76	-0.03
Uri-HPS	480	124	230	52	2.65	111	3.00	-0.35
Dhauliganga-HPS	280	210	140	0	1.02	42	1.00	0.02
Dulhasi-HPS	390	388	270	0	2.91	121	2.86	0.05
Sewa-II HPS	120	80	40	0	0.40	17	0.37	0.03
Sub Total (C)	3305	2220	1238	112	14.71	613	15.30	-0.58
D. NJPC								
Nathpa Jhakri	1500	1605	1492	0	6.17	257	6.20	-0.03
Sub Total (D)	1500	1605	1492	0	6.17	257	6.20	-0.03
E. THDC								
Tehri HPS	1000	1050	1054	0	10.68	445	10.50	0.18
Koteshwar HPS	400	200	1054	86	3.44	143	3.40	0.04
Sub Total (E)	1400	1250	2108	86	14.12	588	13.90	0.22
F. BBMB								
Bhakra HPS	1480	595	1110	422	15.08	628	14.28	0.80
Dehar HPS	990	139	495	0	3.23	135	3.34	-0.11
Pong HPS	396	239	306	126	5.96	248	5.01	0.95
Sub Total (F)	2866	973	1911	548	24.27	1011	22.63	1.64
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.51	21	0.52	-0.01
KWHEP HPS(IPP)	1000	0	0	0	0.00	0	0.00	0.00
Malana Stg-II HPS	100	0	25	0	0.21	9	0.17	0.04
Shree Cement TPS	300	0	231	120	3.96	165	3.88	0.08
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.00	0.00
Sub Total (G)	1662	0	256	120	4.68	195	4.57	0.12
H. Total Regional Entities (A-G)	22836	16358	16641	9673	277.91	11580	278.64	-0.73

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	1054	830	22.75	948
	Guru Nanak Dev TPS(Bhatinda)	440	337	295	7.02	293
	Guru Hargobind Singh TPS(L.mbt)	920	963	777	20.61	859
	Thermal (Total)	2620	2354	1902	50.38	2099
	Total Hydro	1148	421	404	10.63	443
	Total Punjab	3768	2775	2306	61.01	2542
Haryana	Panipat TPS	1367	585	579	14.17	590
	DCRTPP (Yamuna nagar)	600	282	281	6.65	277
	Faridabad GPS (NTPC)	432	425	291	9.29	387
	RGTPP (kheadar) (IPP)	1200	0	469	6.52	272
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	614	375	10.78	449
	Thermal (Total)	4944	196	1995	47.41	1975
	Total Hydro	62	19	25	0.59	24
	Total Haryana	5006	215	2020	47.99	2000
Rajasthan	kota TPS	1240	1172	975	25.92	1080
	suratgarh TPS	1500	1240	1230	30.47	1270
	Chabra TPS	500	408	418	9.56	398
	Dholpur GPS	330	39	144	3.34	139
	Ramgarh GPS	111	38	38	1.08	45
	RAPS A (NPC)	300	195	197	4.37	182
	Barsingar (NLC)	250	94	211	5.04	210
	Giral LTPS	250	24	0	0.17	7
	Rajwest LTPS (IPP)	540	360	360	8.32	347
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3570	3573	88.27	3678
	Total Hydro	550	284	132	5.67	236
	Wind power	2191	94	43	1.51	63
	Biomass	91	15	15	0.37	15
	Solar	201	4	0	0.18	8
	Renewable/Others (Total)	2483	109	58	2.06	86
	Total Rajasthan	8189	3963	3763	96.01	4000
	UP	Anpara TPS	1630	1254	1228	29.30
Obra TPS		1382	422	453	11.00	458
Paricha TPS		890	632	555	13.90	579
Panki TPS		210	54	50	1.40	58
Harduaganj TPS		665	189	186	4.40	183
Tanda TPS (NTPC)		440	391	300	8.29	346
Roza TPS (IPP)		1200	900	853	21.45	894
Anpara-C (IPP)		1200	910	887	21.69	904
Bajaj Energy Pvt.Ltd(IPP) TPS		450	405	405	9.29	387
Thermal (Total)		8067	5157	4917	120.73	5030
Vishnuparyag HPS (IPP)		400	0	0	0.00	0
Other Hydro		527	161	222	4.59	191
Cogeneration		981	600	600	14.40	600
Total UP		9975	5918	5739	139.71	5821
Uttarakhand		Total Hydro	1303	525	287	9.27
	Total Uttarakhand	1303	525	287	9.27	386
Delhi	Raighat TPS	135	52	49	1.16	48
	Delhi Gas Turbine	282	161	158	3.90	162
	Pragati Gas Turbine	330	200	331	6.61	275
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	220	214	5.32	222
	Badarpur TPS (NTPC)	705	480	270	8.01	334
	Thermal (Total)	2237	1113	1022	25.00	1042
	Total Delhi	2237	1113	1022	25.00	1042
HP	Baspa HPS (IPP)	330	96	0	1.13	47
	Malana HPS (IPP)	86	43	0	0.24	10
	Other Hydro	589	220	117	3.50	146
	Total HP	1005	359	117	5	203
J & K	Baglihar HPS (IPP)	450	148	148	3.56	148
	Other Hydro	323	120	175	3.18	133
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	268	323	6.74	281
Total State Control Area Generation		32439	15136	15577	390.59	16275
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1934	2461	63.37	2640
Total Regional Availability(Gross)		55275	33711	27711	731.87	30495

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6774	746	59.99	2500
State Control Area Hydro	5368	2037	1510	42.34	1764
Total Regional Hydro	15731	8811	2256	102.34	4264

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	-100	-500	0	500	0.00	5.55	-5.55		
Gwalior-Agra (D/C)	83	480	585	0	9.72	0.00	9.72		
Zerda-Kankroli	-109	44	97	143	0.00	0.45	-0.45		
Zerda-Bhinmal	1	149	222	83	2.09	0.00	2.09		
Malanpur-Auraiya	-202	-94	0	202	0.00	2.90	-2.90		
Badod-Kota/Morak	-54	54	87	111	0.38	0.00	0.38		
Mundra-Mohindergarh(HVDC)	608	622	623	0	14.73	0.00	14.73		
Sub Total WR	227	755			26.92	8.90	18.02		
Pusauli Bypass	-100	-81	46	186	0.31	1.25	-0.95		
MZP- GKP (D/C)	507	576	720	0	14.49	0.00	14.49		
Patna-Balia(D/C)	718	703	812	0	18.33	0.00	18.33		
B'Sharif-Balia (D/C)	249	209	305	0	5.92	0.00	5.92		
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00		
Pusauli-Balia	12	-7	42	32	0.02	0.00	0.02		
Gaya-Fatehpur (765 Kv)	228	214	323	10	5.59	0.00	5.59		
Pusauli-Sahupuri	130	124	147	0	2.99	0.00	2.99		
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	1707	1706			47.64	2.29	45.35		
Total IR Exch	1934	2461			74.56	11.19	63.37		

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
43.54	0.35	43.89	7.45	-17.32	0.00	15.55	0.41	-0.35
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
51.76	13.71	65.46	45.35	18.02	63.37	-6.41	4.31	-2.09

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	0.63	14.28	92.88	79.23	51.54	6.49
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.44	3.06	49.38	10.20	50.01	0.40	0.17	50.40	49.63

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	404	00:01	0	17:19	7.8	7.8	0.0	0.0
Gorakhpur	400	428	02:12	407	12:08	0.0	0.0	50.4	0.0
Bareilly	400	420	01:35	399	09:38	0.0	0.0	0.0	0.0
Kanpur	400	417	03:24	393	09:40	0.0	0.0	0.0	0.0
Dadri	400	418	03:06	399	12:06	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	03:27	401	12:04	0.0	0.0	15.0	0.0
Bawana	400	423	03:03	403	12:04	0.0	0.0	17.3	0.0
Bassi	400	430	04:01	397	09:40	0.0	0.0	12.4	0.0
Hissar	400	414	20:37	390	15:03	0.0	0.0	0.0	0.0
Moga	400	413	20:37	392	12:04	0.0	0.0	0.0	0.0
Abdullapur	400	427	20:37	404	12:04	0.0	0.0	9.6	0.0
Nalagarh	400	418	03:01	400	12:06	0.0	0.0	0.0	0.0
Kishenpur	400	412	16:42	386	12:07	0.0	0.8	0.0	0.0
Wagoora	400	401	16:47	370	15:05	38.3	85.3	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	497.24	983.40	504.38	1285.56	200.99	337.93
Pong	426.72	384.05	412.59	588.94	415.06	680.86	76.48	403.20
Tehri	829.79	740.04	816.70	935.00	818.65	982.26	49.24	170.00
Koteshwar	612.50	598.50	610.20	4.69	NA	NA	170.00	183.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	50.72	49.04
Rihand	268.22	252.98	262.22	500.10	263.90	617.70	NA	NA
RPS	352.80	343.81	348.68	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.34	NA	NA	NA	NA	NA
RSD	527.91	487.91	518.44	NA	514.04	NA	87.87	179.08

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 21.12.2012 :

1. Fog in some part of UP.

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 : 21.12.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER