

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.02.2012
Date of Reporting : 25.02.2012

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
31706	2167	33873	49.94	26524	670	27194	49.87	714.3	46.05

* 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)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	54.29	12.00		66.29	34.62	32.28	-2.34	98.57	1.87
Haryana	50.37	0.41		50.77	24.64	44.84	20.20	95.61	9.02
Rajasthan	83.93	4.73	10.62	99.28	46.36	63.80	17.44	163.08	3.48
Delhi	25.79			25.79	40.35	32.42	-7.93	58.21	0.01
UP	94.52	7.81	14.40	116.73	89.24	91.77	2.53	208.50	27.99
Uttarakhand		10.08		10.08	18.33	19.25	0.92	29.33	1.38
HP		4.74		4.74	19.55	18.93	-0.62	23.66	0.00
J & K		7.62	0.00	7.62	26.87	26.26	-0.61	33.87	2.30
Chandigarh				0.00	3.61	3.45	-0.16	3.45	0.00
Total	308.89	47.38	25.02	381.29	303.56	332.98	29.42	714.27	46.05

* 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	
Punjab	4654	150	-61	-437	3487	0	-259	-407	-6.81
Haryana	4716	394	1109	-117	3602	0	508	-117	-2.81
Rajasthan	6407	28	592	12	6926	0	1283	62	4.27
Delhi	3090	0	-215	-22	1364	0	30	-294	-2.62
UP	8704	1295	-157	265	8026	670	-137	265	6.36
Uttarakhand	1403	150	14	350	1001	0	56	350	8.40
HP	1011	0	-304	123	758	0	13	323	7.15
J&K	1539	150	-91	218	1273	0	-50	225	4.96
Chandigarh	183	0	-25	0	87	0	1	-41	-0.33
Total	31706	2167	862	393	26524	670	1444	366	18.57

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	2091	2081	47.14	1964	46.25	0.88
	Rihand I STPS	1000	920	1002	968	22.22	926	21.73	0.49
	Rihand II STPS	1000	975	1041	1035	23.60	983	22.96	0.64
	Dadri I STPS	840	800	640	632	15.64	652	15.58	0.06
	Dadri II STPS	980	960	1010	805	21.66	902	21.85	-0.20
	Unchahar I TPS	440	403	441	415	9.60	400	9.50	0.10
	Unchahar II TPS	440	404	441	442	9.73	405	9.39	0.34
	Unchahar III TPS	210	202	220	219	4.85	202	4.70	0.15
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	695	510	475	11.83	493	11.92	-0.09
	Anta GPS	419	423	308	310	7.81	326	7.68	0.13
	Auraiya GPS	663	643	401	414	10.07	420	10.09	-0.02
	Sub Total (A)	9822	8375	8105	7796	184.15	7673	181.66	2.49
B. NPC	NAPS	440	138	158	159	3.22	134	3.31	-0.09
	RAPS- B	440	420	465	467	10.17	424	10.08	0.09
	RAPS- C	440	420	468	473	10.20	425	10.08	0.12
	Sub Total (B)	1320	978	1091	1099	23.60	983	23.47	0.12
C. NHPC	Chamera I HPS	540	534	540	0	3.60	150	3.60	0.00
	Chamera II HPS	300	198	191	0	1.96	82	1.84	0.12
	Bairasuil HPS	180	179	179	60	1.92	80	2.00	-0.08
	Salal-HPS	690	244	311	132	5.94	248	5.29	0.65
	Tanakpur-HPS	94	25	28	19	0.50	21	0.51	-0.01
	Uri-HPS	480	407	344	357	9.44	393	9.65	-0.21
	Dhauliganga-HPS	280	277	215	0	0.84	35	0.82	0.02
	Dulhasti-HPS	390	0	0	0	0.00	0	0.00	0.00
	Sewa-II HPS	120	113	122	117	2.61	109	2.65	-0.04
	Sub Total (C)	3074	1977	1930	685	26.81	1117	26.37	0.44
D. NJPC	Nathpa Jhakri	1500	1133	1581	0	6.70	279	6.57	0.13
	Sub Total (D)	1500	1133	1581	0	6.70	279	6.57	0.13
E. THDC	Tehri HPS	1000	875	871	0	7.83	326	8.00	-0.17
	Koteshwar HPS	200	175	296	0	3.00	125	2.90	0.10
	Sub Total (E)	1200	1050	1167	0	10.83	451	10.90	-0.07
F. BBMB	Bhakra HPS	1480	739	971	392	18.02	751	17.73	0.29
	Dehar HPS	990	145	495	0	4.07	170	3.48	0.59
	Pong HPS	396	178	306	66	4.46	186	4.28	0.18
	Sub Total (F)	2866	1062	1772	458	26.55	1106	25.48	1.07
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.38	16	0.37	0.01
	KWHEP HPS(IPP)	1000	0	400	0	3.22	134	3.58	-0.37
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	141	143	3.49	146	3.46	0.04
	Sub Total (G)	1442	0	541	143	7.09	295	7.41	-0.32
H. Total Regional Entities (A-G)	21225	14575	16187	10181	285.72	11905	281.87	3.85	

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	1255	1255	28.00	1167
	Guru Nanak Dev TPS(Bhatinda)	440	219	220	4.76	198
	Guru Hargobind Singh TPS(L.mbt)	920	964	969	21.52	897
	Thermal (Total)	2620	2438	2444	54.29	2262
	Total Hydro	1148	363	280	12.00	500
	Total Punjab	3768	2801	2724	66.29	2762
Haryana	Panipat TPS	1360	851	843	20.73	864
	DCRTPP (Yamuna nagar)	600	278	280	6.58	274
	Faridabad GPS (NTPC)	432	414	425	10.03	418
	RGTPP (kheldar) (IPP)	1200	450	520	13.02	543
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	1993	2068	50.37	2099
	Total Hydro	62	17	20	0.41	17
	Total Haryana	4339	2010	2088	50.77	2116
Rajasthan	kota TPS	1240	1171	1155	27.72	1155
	suratgarh TPS	1500	1149	1148	27.02	1126
	Chabra TPS	500	221	207	5.15	215
	Dholpur GPS	330	194	225	5.20	217
	Ramgarh GPS	113	43	45	1.09	46
	RAPS A (NPC)	300	182	186	4.53	189
	Barsingsar (NLC)	250	98	102	2.55	106
	Giral LTPS (IPP)	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	440	426	10.66	444
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3498	3494	83.93	3497
	Total Hydro	550	171	149	4.73	197
	Wind power	1294	101	248	4.88	203
	Biomass	71	56	56	1.02	43
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	157	304	10.62	443
	Total Rajasthan	7073	3826	3947	99.28	4137
UP	Anpara TPS	1630	1510	1508	31.90	1329
	Obra TPS	1442	652	623	14.00	583
	Paricha TPS	640	216	223	4.80	200
	Panki TPS	210	170	203	3.90	163
	Harduaganj TPS	415	280	231	5.10	213
	Tanda TPS (NTPC)	440	400	295	10.50	438
	Roza TPS (IPP)	900	550	456	12.81	534
	Anpara-C (IPP)	1200	377	359	9.12	380
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	88	105	2.39	100
	Thermal (Total)	7057	4243	4003	94.52	3938
	Vishnuparyag HPS (IPP)	400	74	69	1.64	69
	Other Hydro	527	275	62	6.17	257
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	5192	4734	116.73	4795
Uttarakhand	Total Hydro	1303	520	308	10.08	420
	Total Uttarakhand	1303	520	308	10.08	420
Delhi	Rajghat TPS	135	104	96	2.51	105
	Delhi Gas Turbine	282	84	82	1.99	83
	Pragati Gas Turbine	330	308	263	7.37	307
	Rithala GPS	108	30	31	0.72	30
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	580	586	13.19	550
	Thermal (Total)	2000	1106	1058	25.79	1075
	Total Delhi	2000	1106	1058	25.79	1075
HP	Baspa HPS (IPP)	330	0	0	0.94	39
	Malana HPS (IPP)	101	0	0	0.26	11
	Other Hydro	571	155	113	3.53	147
	Total HP	1002	155	113	5	197
J & K	Baglihar HPS (IPP)	450	238	234	5.65	235
	Other Hydro	323	84	90	1.97	82
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	322	324	7.62	317
Total State Control Area Generation		29376	15932	15296	381.29	15819
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1472	1908	63.40	2642
Total Regional Availability(Gross)		50601	33591	27385	730.42	30366

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6991	1286	77.97	3249
State Control Area Hydro	5365	1823	1256	45.74	1906
Total Regional Hydro	15447	8814	2542	123.71	5155

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	100	-100	100	100	0.85	0.71	0.14
Gwalior-Agra (D/C)	260	692	1128	0	18.29	0.00	18.29
Zerda-Kankroli	-174	-40	59	174	0.00	1.15	-1.15
Zerda-Bhinmal	-91	62	244	127	1.24	0.00	1.24
Malanpur-Auraiya	-170	-116	0	170	0.00	1.78	-1.78
Badod-Kota/Morak	30	8	50	36	0.13	0.00	0.13
Sub Total WR	-45	506			20.50	3.64	16.86
Pusauli Bypass	78	-223	343	78	4.12	0.07	4.04
MZP- GKP (D/C)	438	746	848	0	15.29	0.00	15.29
Patna-Balia(D/C)	245	492	560	0	10.15	0.00	10.15
B'Sharif-Balia (D/C)	326	338	660	0	9.93	0.00	9.93
Barh - balia(D/C)	272	0	419	0	5.06	0.00	5.06
Pusauli-Sahupuri	188	81	188	0	3.02	0.00	3.02
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1517	1402			47.56	1.02	46.54
Total IR Exch	1472	1908			68.07	4.66	63.40

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
21.96	0.21	22.17	10.42	10.30	-6.67	-4.61	2.84	-2.84

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
28.76	0.51	29.26	46.54	16.86	63.40	17.79	16.35	34.14

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	2.00	19.20	97.20	80.00	12.30	0.80

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.33	17.02	49.31	18.43	49.83	0.50	0.15	50.14	49.73

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	402	20:14	380	07:36	0.0	71.3	0.0	0.0
Gorakhpur	400	434	21:56	413	18:26	0.0	0.0	69.0	10.9
Bareilly	400	420	21:54	400	07:41	0.0	0.0	0.0	0.0
Kanpur	400	414	20:56	398	06:23	0.0	0.0	0.0	0.0
Dadri	400	418	20:57	401	12:12	0.0	0.0	0.0	0.0
Ballabgarh	400	421	20:56	402	12:14	0.0	0.0	0.5	0.0
Bawana	400	422	20:57	401	12:14	0.0	0.0	0.7	0.0
Bassi	400	423	21:22	397	12:15	0.0	0.0	2.1	0.0
Hissar	400	417	20:56	393	11:02	0.0	0.0	0.0	0.0
Moga	400	426	03:49	405	12:15	0.0	0.0	19.4	0.0
Abdullapur	400	425	20:53	401	11:04	0.0	0.0	2.6	0.0
Nalagarh	400	429	20:54	402	11:45	0.0	0.0	20.3	0.0
Kishenpur	400	420	03:43	399	11:45	0.0	0.0	0.0	0.0
Wagoora	400	400	03:43	380	19:35	0.0	68.9	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	489.63	719.44	494.05	903.28	173.92	569.17
Pong	426.72	384.05	408.87	454.47	412.41	577.87	84.89	318.62
Tehri	829.79	740.04	787.50	411.99	818.65	982.26	69.85	208.00
Koteshwar	612.50	598.50	607.40	3.32	NA	NA	216.00	206.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	88.85	109.96
Rihand	268.22	252.98	261.95	415.40	256.15	122.50	NA	NA
RPS	352.80	343.81	348.65	NA	NA	NA	NA	264.22
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	243.16
RSD	527.91	487.91	499.24	NA	504.74	NA	140.45	190.35

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.02.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

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

1: 3 x 80MVAR New Bus Reactor first time charged with 765kV Bus at 21.05 hrs of 24.02.2012 at Balia (PG) s/s.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 24.02.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER