

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.03.2012
Date of Reporting : 13.03.2012

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
29654	1584	31238	49.88	25691	650	26341	50.05	680.2	36.60

* 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	44.53	12.15		56.68	44.08	39.82	-4.27	96.49	1.80
Haryana	51.37	0.55		51.92	25.53	47.58	22.05	99.50	2.49
Rajasthan	81.09	4.73	6.26	92.08	44.12	61.31	17.19	153.38	1.57
Delhi	24.97			24.97	42.25	31.36	-10.90	56.33	0.00
UP	81.65	5.58	14.40	101.64	87.28	88.16	0.88	189.80	28.16
Uttarakhand		9.70		9.70	14.52	17.16	2.64	26.85	0.68
HP		5.43		5.43	17.22	16.53	-0.69	21.96	0.00
J & K		8.08	0.00	8.08	22.24	24.48	2.24	32.56	1.90
Chandigarh				0.00	3.70	3.29	-0.41	3.29	0.00
Total	283.62	46.21	20.66	350.49	300.95	329.67	28.72	680.16	36.60

* 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	4462	150	-340	-240	3450	0	-234	-148	-4.10
Haryana	4774	24	1271	-174	3386	0	386	-174	-4.17
Rajasthan	5952	0	-88	6	6745	0	1365	6	0.15
Delhi	2373	0	-667	-199	1325	0	-562	-424	-6.27
UP	8058	1310	-90	265	7799	650	19	265	6.36
Uttarakhand	1405	0	162	150	929	0	102	150	3.60
HP	969	0	-336	-324	669	0	61	146	-0.09
J&K	1487	100	46	-13	1306	0	192	-13	-0.32
Chandigarh	175	0	-28	0	82	0	-19	0	0.00
Total	29654	1584	-70	-529	25691	650	1310	-191	-4.84

* 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	1960	2107	2013	47.56	1982	47.04	0.52
	Rihand I STPS	1000	890	863	967	21.47	895	21.35	0.13
	Rihand II STPS	1000	975	1036	1037	23.55	981	23.38	0.17
	Dadri I STPS	840	779	997	640	16.42	684	16.43	-0.01
	Dadri II STPS	980	956	999	784	20.60	858	21.63	-1.03
	Unchahar I TPS	440	378	410	340	8.95	373	8.89	0.06
	Unchahar II TPS	440	378	418	356	8.94	373	8.72	0.22
	Unchahar III TPS	210	189	213	198	4.45	186	4.36	0.09
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	839	688	630	15.37	640	15.48	-0.11
	Anta GPS	419	413	397	250	7.11	296	7.03	0.07
	Auraiya GPS	663	482	273	320	7.22	301	7.22	0.00
	Sub Total (A)	9822	8239	8401	7535	181.64	7568	181.53	0.11
B. NPC	NAPS	440	281	308	317	6.64	277	6.74	-0.10
	RAPS- B	440	424	461	468	10.09	420	10.18	-0.09
	RAPS- C	440	420	469	478	10.21	425	10.08	0.13
	Sub Total (B)	1320	1125	1238	1263	26.94	1123	27.00	-0.06
C. NHPC	Chamera I HPS	540	534	540	0	5.86	244	4.01	1.86
	Chamera II HPS	300	297	193	0	1.64	68	1.61	0.03
	Bairasuil HPS	180	179	179	0	2.01	84	2.02	-0.01
	Salal-HPS	690	239	334	200	5.35	223	5.57	-0.22
	Tanakpur-HPS	94	25	20	16	0.50	21	0.55	-0.05
	Uri-HPS	480	411	441	374	9.41	392	9.77	-0.36
	Dhauliganga-HPS	280	210	210	0	0.86	36	0.87	-0.01
	Dulhasti-HPS	390	388	399	0	2.38	99	2.57	-0.19
	Sewa-II HPS	120	119	122	40	2.32	97	2.15	0.17
	Sub Total (C)	3074	2402	2438	630	30.34	1264	29.12	1.22
D. NJPC	Nathpa Jhakri	1500	1200	1604	0	6.87	286	7.00	-0.13
	Sub Total (D)	1500	1200	1604	0	6.87	286	7.00	-0.13
E. THDC	Tehri HPS	1000	600	604	0	7.49	312	7.50	-0.01
	Koteshwar HPS	300	300	296	0	2.66	111	2.60	0.06
	Sub Total (E)	1300	900	900	0	10.15	423	10.10	0.05
F. BBMB	Bhakra HPS	1480	783	900	410	18.62	776	18.80	-0.18
	Dehar HPS	990	171	495	0	4.11	171	4.10	0.01
	Pong HPS	396	147	366	0	3.63	151	3.53	0.10
	Sub Total (F)	2866	1101	1761	410	26.36	1098	26.43	-0.07
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	3.84	160	4.18	-0.34
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	115	115	2.89	121	2.53	0.36
	Sub Total (G)	1592	0	515	115	7.11	296	7.08	0.03
H. Total Regional Entities (A-G)	21475	14967	16857	9953	289.41	12059	288.26	1.15	

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	950	830	18.96	790
	Guru Nanak Dev TPS(Bhatinda)	440	216	121	4.37	182
	Guru Hargobind Singh TPS(L.mbt)	920	887	964	21.20	883
	Thermal (Total)	2620	2053	1915	44.53	1855
	Total Hydro	1148	441	404	12.15	506
	Total Punjab	3768	2494	2319	56.68	2362
Haryana	Panipat TPS	1360	862	871	21.14	881
	DCRTPP (Yamuna nagar)	600	276	281	6.58	274
	Faridabad GPS (NTPC)	432	410	446	10.02	418
	RGTPP (kheldar) (IPP)	1200	559	553	13.63	568
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2107	2151	51.37	2140
	Total Hydro	62	13	21	0.55	23
	Total Haryana	4339	2120	2172	51.92	2163
Rajasthan	kota TPS	1240	1168	1169	27.77	1157
	suratgarh TPS	1500	919	916	21.09	879
	Chabra TPS	500	221	221	5.06	211
	Dholpur GPS	330	299	300	6.61	275
	Ramgarh GPS	113	30	58	1.15	48
	RAPS A (NPC)	300	178	185	4.52	188
	Barsingsar (NLC)	250	187	202	4.92	205
	Giral LTPS (IPP)	250	67	47	1.39	58
	Rajwest LTPS (IPP)	540	345	342	8.60	358
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3414	3440	81.09	3379
	Total Hydro	550	169	140	4.73	197
	Wind power	1294	357	124	5.42	226
	Biomass	71	35	35	0.84	35
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	392	159	6.26	261
	Total Rajasthan	7073	3975	3739	92.08	3837
UP	Anpara TPS	1630	1238	1202	28.80	1200
	Obra TPS	1442	446	535	12.10	504
	Paricha TPS	640	204	236	5.30	221
	Panki TPS	210	131	117	2.90	121
	Harduaganj TPS	415	36	40	0.60	25
	Tanda TPS (NTPC)	440	403	404	9.78	408
	Roza TPS (IPP)	900	459	284	7.94	331
	Anpara-C (IPP)	1200	468	432	10.78	449
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	168	156	3.45	144
	Thermal (Total)	7057	3553	3406	81.65	3402
	Vishnuparyag HPS (IPP)	400	69	69	1.62	68
	Other Hydro	527	128	0	3.96	165
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	4350	4075	101.64	4167
Uttarakhand	Total Hydro	1303	543	304	9.70	404
	Total Uttarakhand	1303	543	304	9.70	404
Delhi	Rajghat TPS	135	60	59	1.35	56
	Delhi Gas Turbine	282	70	77	1.93	80
	Pragati Gas Turbine	330	303	264	7.03	293
	Rithala GPS	108	30	30	0.64	27
	Bawana GPS	440	171	0	1.54	64
	Badarpur TPS (NTPC)	705	570	505	12.49	520
	Thermal (Total)	2000	1204	935	24.97	1040
	Total Delhi	2000	1204	935	24.97	1040
HP	Baspa HPS (IPP)	330	0	0	0.95	40
	Malana HPS (IPP)	101	0	0	0.28	12
	Other Hydro	571	188	132	4.19	175
	Total HP	1002	188	132	5	226
J & K	Baglihar HPS (IPP)	450	238	234	5.67	236
	Other Hydro	323	95	105	2.41	101
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	333	339	8.08	337
Total State Control Area Generation		29376	15207	14015	350.49	14536
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			906	2747	58.19	2425
Total Regional Availability(Gross)		50851	32970	26715	698.09	29019

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7103	1040	77.93	3247
State Control Area Hydro	5365	1815	1340	44.59	1858
Total Regional Hydro	15397	8918	2380	122.52	5105

(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	300	100	1.17	1.23	-0.06
Gwalior-Agra (D/C)	275	1143	1304	0	22.46	0.00	22.46
Zerda-Kankroli	-78	98	239	141	1.40	0.00	1.40
Zerda-Bhinmal	-42	209	335	139	3.48	0.00	3.48
Malanpur-Auraiya	-78	-16	0	152	0.00	0.43	-0.43
Badod-Kota/Morak	37	78	142	34	1.02	0.00	1.02
Sub Total WR	214	1412			29.53	1.66	27.87
Pusauli Bypass	-183	62	296	309	2.42	1.05	1.37
MZP- GKP (D/C)	150	389	610	0	8.30	0.00	8.30
Patna-Balia(D/C)	293	464	663	0	9.27	0.00	9.27
B'Sharif-Balia (D/C)	343	326	659	0	9.99	0.00	9.99
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	119	126	159	0	2.53	0.00	2.53
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-32	0	48	0.00	1.14	-1.14
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	692	1335			32.51	2.19	30.32
Total IR Exch	906	2747			62.04	3.85	58.19

(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
29.16	0.13	29.29	-0.61	-1.77	2.95	0.05	1.58	-1.58

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
33.20	-5.71	27.50	30.32	27.87	58.19	-2.88	33.58	30.70

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	0.60	11.40	97.30	86.50	19.00	2.10

<----- 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					
50.36	18.18	49.36	6.46	49.87	0.39	0.15	50.23	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	410	21:42	398	06:12	0.0	0.0	0.0	0.0
Gorakhpur	400	435	13:21	399	06:10	0.0	0.0	55.8	7.2
Bareilly	400	425	18:17	402	06:07	0.0	0.0	5.0	0.0
Kanpur	400	419	18:17	398	06:10	0.0	0.0	0.0	0.0
Dadri	400	422	02:55	400	10:15	0.0	0.0	3.9	0.0
Ballabgarh	400	425	21:42	401	10:12	0.0	0.0	17.0	0.0
Bawana	400	425	02:54	402	10:13	0.0	0.0	17.2	0.0
Bassi	400	426	18:18	395	10:15	0.0	0.0	11.3	0.0
Hissar	400	417	21:40	394	10:15	0.0	0.0	0.0	0.0
Moga	400	425	21:41	402	09:35	0.0	0.0	25.7	0.0
Abdullapur	400	427	21:43	407	09:20	0.0	0.0	36.9	0.0
Nalagarh	400	427	02:53	408	10:14	0.0	0.0	39.7	0.0
Kishenpur	400	422	23:53	404	09:37	0.0	0.0	1.8	0.0
Wagoora	400	408	13:02	386	19:51	0.0	8.4	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	483.58	552.50	490.93	768.46	156.28	594.48
Pong	426.72	384.05	406.18	379.44	411.43	544.90	52.90	239.93
Tehri	829.79	740.04	778.15	297.05	818.65	982.26	51.57	207.00
Koteshwar	612.50	598.50	608.25	3.78	NA	NA	207.00	178.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	260.63	340.20	255.70	104.00	NA	NA
RPS	352.80	343.81	348.08	NA	345.37	NA	NA	192.50
Jawahar Sagar	298.70	295.78	297.79	NA	297.79	NA	NA	232.20
RSD	527.91	487.91	497.12	NA	504.35	NA	92.31	98.88

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.03.2012 :

1. Normal Weather.

XII. Synchronisation of new generating units :

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

1. 400kv Barailly(PG) - Rosa and 400kv Lucknow(PG) - Rosa first time charged at 12:27 hrs & 13:19 hrs. respectively after LILO of 400kv Barailly(PG) - Lucknow

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 12.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER