

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.03.2012
Date of Reporting : 17.03.2012

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
29606	1782	31388	50.04	26300	651	26951	50.05	691.7	34.13

* 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	48.41	12.21		60.62	44.71	38.00	-6.70	98.63	1.80
Haryana	45.58	0.55		46.13	25.73	54.89	29.16	101.02	5.87
Rajasthan	90.32	4.23	11.23	105.77	46.96	55.41	8.45	161.18	0.72
Delhi	33.02			33.02	38.61	24.11	-14.51	57.13	0.04
UP	88.65	4.99	14.40	108.04	85.98	81.31	-4.67	189.34	22.50
Uttarakhand		9.08		9.08	14.54	18.81	4.27	27.89	0.90
HP		5.31		5.31	16.41	17.22	0.81	22.54	0.00
J & K		5.98	0.00	5.98	20.74	24.58	3.84	30.55	2.30
Chandigarh				0.00	3.72	3.40	-0.32	3.40	0.00
Total	305.98	42.34	25.63	373.95	297.40	317.72	20.32	691.67	34.13

* 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	4418	150	9	-224	3717	0	-638	-148	-3.86
Haryana	4383	482	984	-168	3890	0	1250	-168	-4.04
Rajasthan	6071	0	-299	6	6946	0	1165	6	0.15
Delhi	2954	0	-369	-129	1388	1	-818	-356	-4.74
UP	7709	1000	-518	265	7343	650	-148	243	6.14
Uttarakhand	1439	0	305	150	977	0	152	150	3.60
HP	954	0	-210	-297	691	0	112	146	0.38
J&K	1492	150	102	-18	1262	0	301	-18	-0.44
Chandigarh	186	0	-26	0	86	0	-17	0	0.00
Total	29606	1782	-22	-416	26300	651	1360	-145	-2.81

* 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)	Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1960	2110	2080	47.43	1976	46.64	0.79
	Rihand I STPS	1000	890	960	952	21.40	891	21.12	0.28
	Rihand II STPS	1000	975	1043	1033	23.41	976	23.06	0.35
	Dadri I STPS	840	803	860	621	16.80	700	16.60	0.20
	Dadri II STPS	980	480	500	505	11.46	478	11.39	0.07
	Unchahar I TPS	440	406	441	400	9.68	403	9.23	0.45
	Unchahar II TPS	440	404	441	380	9.54	397	9.04	0.50
	Unchahar III TPS	210	202	221	202	4.83	201	4.55	0.28
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	837	757	522	16.83	701	16.45	0.38
	Anta GPS	419	413	349	258	8.48	354	8.42	0.06
	Auraiya GPS	663	482	307	459	8.42	351	8.09	0.34
	Sub Total (A)	9822	7852	7989	7412	178.28	7428	174.57	3.71
B. NPC	NAPS	440	279	301	316	6.66	278	6.70	-0.04
	RAPS- B	440	423	459	465	10.05	419	10.15	-0.10
	RAPS- C	440	420	468	470	10.14	423	10.08	0.06
	Sub Total (B)	1320	1122	1228	1251	26.85	1119	26.93	-0.08
C. NHPC	Chamera I HPS	540	534	540	0	4.37	182	4.36	0.01
	Chamera II HPS	300	297	152	0	1.70	71	1.70	0.00
	Bairasuil HPS	180	179	179	0	2.18	91	2.02	0.16
	Salal-HPS	690	178	326	64	4.42	184	4.04	0.38
	Tanakpur-HPS	94	23	19	20	0.53	22	0.55	-0.02
	Uri-HPS	480	330	390	306	7.85	327	7.82	0.02
	Dhauliganga-HPS	280	210	204	0	0.97	40	0.94	0.02
	Dulhasti-HPS	390	388	411	0	2.51	105	2.38	0.13
	Sewa-II HPS	120	119	121	80	2.53	106	2.61	-0.08
	Sub Total (C)	3074	2258	2342	470	27.05	1127	26.44	0.61
D. NJPC	Nathpa Jhakri	1500	1200	1319	0	6.57	274	6.60	-0.03
	Sub Total (D)	1500	1200	1319	0	6.57	274	6.60	-0.03
E. THDC	Tehri HPS	1000	585	593	0	7.00	292	7.00	0.00
	Koteshwar HPS	300	300	298	0	2.68	112	2.60	0.08
	Sub Total (E)	1300	885	891	0	9.68	403	9.60	0.08
F. BBMB	Bhakra HPS	1480	736	969	390	17.88	745	17.67	0.21
	Dehar HPS	990	174	330	0	4.37	182	4.17	0.21
	Pong HPS	396	210	306	126	5.35	223	5.03	0.32
	Sub Total (F)	2866	1119	1605	516	27.60	1150	26.87	0.73
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.40	17	0.39	0.01
	KWHEP HPS(IPP)	1000	0	400	0	3.46	144	3.99	-0.52
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	128	124	3.13	130	2.53	0.59
	Sub Total (G)	1592	0	528	124	6.99	291	6.91	0.08
H. Total Regional Entities (A-G)	21475	14436	15902	9773	283.02	11793	277.91	5.11	

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	900	1040	22.75	948
	Guru Nanak Dev TPS(Bhatinda)	440	200	219	4.64	193
	Guru Hargobind Singh TPS(L.mbt)	920	941	964	21.03	876
	Thermal (Total)	2620	2041	2223	48.41	2017
	Total Hydro	1148	332	571	12.21	509
	Total Punjab	3768	2373	2794	60.62	2526
Haryana	Panipat TPS	1360	1039	874	22.78	949
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	413	329	9.51	396
	RGTPP (khedar) (IPP)	1200	549	557	13.29	554
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2001	1760	45.58	1899
	Total Hydro	62	22	18	0.55	23
	Total Haryana	4339	2023	1778	46.13	1922
Rajasthan	kota TPS	1240	1087	1164	27.85	1161
	suratgarh TPS	1500	991	1138	27.11	1130
	Chabra TPS	500	192	220	4.83	201
	Dholpur GPS	330	285	273	6.77	282
	Ramgarh GPS	113	53	38	1.01	42
	RAPS A (NPC)	300	182	184	4.39	183
	Barsingsar (NLC)	250	213	219	5.08	212
	Giral LTPS (IPP)	250	123	85	2.79	116
	Rajwest LTPS (IPP)	540	430	450	10.49	437
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3556	3771	90.32	3763
	Total Hydro	550	156	143	4.23	176
	Wind power	1294	572	180	10.57	440
	Biomass	71	28	28	0.66	28
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	600	208	11.23	468
	Total Rajasthan	7073	4312	4122	105.77	4407
	UP	Anpara TPS	1630	1463	1464	31.50
Obra TPS		1442	532	596	12.50	521
Paricha TPS		640	261	258	5.70	238
Panki TPS		210	110	175	3.30	138
Harduaganj TPS		415	36	38	0.70	29
Tanda TPS (NTPC)		440	401	331	9.62	401
Roza TPS (IPP)		900	464	451	11.24	468
Anpara-C (IPP)		1200	450	450	11.49	479
Bajaj Energy Pvt.Ltd(IPP) TPS		180	135	98	2.60	108
Thermal (Total)		7057	3852	3861	88.65	3694
Vishnuparyag HPS (IPP)		400	78	64	1.66	69
Other Hydro		527	118	0	3.33	139
Cogeneration		951	600	600	14.40	600
Total UP		8935	4648	4525	108.04	4432
Uttarakhand	Total Hydro	1303	460	292	9.08	378
	Total Uttarakhand	1303	460	292	9.08	378
Delhi	Rajghat TPS	135	59	57	2.00	83
	Delhi Gas Turbine	282	158	156	3.82	159
	Pragati Gas Turbine	330	296	268	7.03	293
	Rithala GPS	108	30	30	0.63	26
	Bawana GPS	440	253	64	6.36	265
	Badarpur TPS (NTPC)	705	595	555	13.19	550
	Thermal (Total)	2000	1391	1337	33.02	1376
	Total Delhi	2000	1391	1337	33.02	1376
HP	Baspa HPS (IPP)	330	0	0	0.94	39
	Malana HPS (IPP)	101	2	0	0.26	11
	Other Hydro	571	159	100	4.11	171
	Total HP	1002	161	100	5	221
J & K	Baglihar HPS (IPP)	450	238	148	3.56	148
	Other Hydro	323	95	105	2.41	101
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	333	253	5.98	249
Total State Control Area Generation		29376	15701	15201	373.95	15512
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			854	3028	59.17	2466
Total Regional Availability(Gross)		50851	32457	28002	716.15	29770

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6557	986	74.77	3115
State Control Area Hydro	5365	1582	1377	40.69	1695
Total Regional Hydro	15397	8139	2363	115.46	4811

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	0.05	0.78	-0.72
Gwalior-Agra (D/C)	256	822	1106	0	18.70	0.00	18.70
Zerda-Kankroli	-116	-31	66	151	0.00	1.32	-1.32
Zerda-Bhinmal	-147	61	169	223	0.00	0.36	-0.36
Malanpur-Auraiya	-83	-80	0	183	0.00	1.32	-1.32
Badod-Kota/Morak	-22	6	12	32	0.00	0.19	-0.19
Sub Total WR	-12	678			18.75	3.97	14.78
Pusauli Bypass	-108	261	291	214	3.64	0.65	2.99
MZP- GKP (D/C)	219	525	537	0	9.49	0.00	9.49
Patna-Balia(D/C)	328	398	472	0	9.66	0.00	9.66
B'Sharif-Balia (D/C)	344	666	815	0	13.13	0.00	13.13
Barh - balia(D/C)	0	422	484	0	7.86	0.00	7.86
Pusauli-Sahupuri	113	110	141	0	2.40	0.00	2.40
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	866	2350			46.18	1.79	44.39
Total IR Exch	854	3028			64.93	5.76	59.17

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
28.80	0.22	29.02	-1.45	0.92	6.28	1.26	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
35.42	-1.49	33.94	44.39	14.78	59.17	8.96	16.27	25.23

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	1.50	10.30	97.30	88.50	18.40	1.20

<----- 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					
50.42	13.04	49.26	20.03	49.87	0.39	0.16	50.30	49.56

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	407	03:04	398	08:05	0.0	0.0	0.0	0.0
Gorakhpur	400	431	18:02	406	06:41	0.0	0.0	30.9	1.3
Bareilly	400	423	18:02	398	06:41	0.0	0.0	4.5	0.0
Kanpur	400	416	18:16	397	06:40	0.0	0.0	0.0	0.0
Dadri	400	418	21:11	395	12:00	0.0	0.0	0.0	0.0
Ballabgarh	400	424	21:11	397	12:00	0.0	0.0	9.3	0.0
Bawana	400	423	21:13	398	12:00	0.0	0.0	9.3	0.0
Bassi	400	424	21:12	396	06:45	0.0	0.0	2.9	0.0
Hissar	400	418	21:11	390	12:04	0.0	0.0	0.0	0.0
Moga	400	423	03:04	402	12:01	0.0	0.0	14.9	0.0
Abdullapur	400	427	21:12	238	13:47	0.1	0.1	18.0	0.0
Nalagarh	400	427	03:02	408	11:20	0.0	0.0	48.0	0.0
Kishenpur	400	421	03:35	401	07:15	0.0	0.0	0.9	0.0
Wagoora	400	402	03:59	378	07:15	2.8	53.3	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	482.45	519.70	490.13	738.95	143.00	591.87
Pong	426.72	384.05	405.83	361.16	411.11	534.70	80.05	387.74
Tehri	829.79	740.04	776.60	274.00	818.65	982.26	51.26	196.00
Koteshwar	612.50	598.50	60.81	3.76	NA	NA	198.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	118.62	134.45
Rihand	268.22	252.98	260.60	338.50	255.67	102.80	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	497.12	NA	504.35	NA	102.73	200.82

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.03.2012 :

1. Normal weather in NR.

XII. Synchronisation of new generating units :

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 : 16.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER