

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.03.2012
Date of Reporting : 26.03.2012

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
29496	830	30326	49.92	27798	690	28488	49.95	693.3	24.34

* 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	47.03	13.58		60.61	44.93	44.45	-0.48	105.06	1.80
Haryana	65.01	0.71		65.72	28.68	30.92	2.25	96.64	1.22
Rajasthan	85.24	1.26	7.15	93.65	48.00	62.07	14.07	155.72	0.35
Delhi	24.00			24.00	46.66	30.24	-16.42	54.24	0.02
UP	85.37	6.46	14.40	106.23	95.61	92.70	-2.92	198.93	18.57
Uttarakhand		10.46		10.46	14.80	17.36	2.56	27.82	0.08
HP		9.15		9.15	17.06	12.52	-4.54	21.68	0.00
J & K		10.73	0.00	10.73	19.97	19.45	-0.52	30.18	2.30
Chandigarh				0.00	3.58	3.08	-0.50	3.08	0.00
Total	306.64	52.36	21.55	380.55	319.29	312.80	-6.50	693.35	24.34

* 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	3921	600	-268	-225	4433	0	-105	-149	-3.87
Haryana	3472	0	81	-153	3465	40	365	-153	-3.67
Rajasthan	5520	0	-137	6	6828	0	1205	6	0.12
Delhi	2732	0	190	55	1564	0	-1173	-156	-0.07
UP	10077	80	-477	965	8518	650	301	243	7.74
Uttarakhand	1289	0	137	150	1014	0	168	150	3.60
HP	841	0	-211	-997	767	0	-59	146	-1.22
J&K	1485	150	188	-277	1119	0	3	-177	-4.76
Chandigarh	159	0	-11	0	90	0	-16	0	0.00
Total	29496	830	-508	-476	27798	690	689	-90	-2.14

* 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	1938	2104	2113	47.07	1961	46.52	0.56
	Rihand I STPS	1000	920	985	999	22.14	923	22.08	0.06
	Rihand II STPS	1000	975	1035	1043	23.54	981	23.40	0.14
	Dadri I STPS	840	803	645	715	14.91	621	14.18	0.73
	Dadri II STPS	980	973	1030	1035	21.07	878	21.20	-0.13
	Unchahar I TPS	440	406	440	441	9.51	396	9.30	0.21
	Unchahar II TPS	440	404	438	427	9.26	386	8.94	0.32
	Unchahar III TPS	210	202	221	220	4.72	197	4.63	0.09
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	825	782	630	15.02	626	14.58	0.44
	Anta GPS	419	387	370	273	7.18	299	6.94	0.24
	Auraiya GPS	663	481	290	323	7.10	296	6.83	0.27
	Sub Total (A)	9822	8313	8340	8219	181.51	7563	178.59	2.92
B. NPC	NAPS	440	270	306	309	6.56	273	6.48	0.08
	RAPS- B	440	424	454	463	10.01	417	10.18	-0.17
	RAPS- C	440	420	469	472	10.13	422	10.08	0.05
	Sub Total (B)	1320	1114	1229	1244	26.69	1112	26.74	-0.04
C. NHPC	Chamera I HPS	540	534	540	0	7.46	311	7.75	-0.29
	Chamera II HPS	300	297	234	0	3.26	136	2.97	0.28
	Bairasuil HPS	180	179	179	30	3.52	146	3.48	0.04
	Salal-HPS	690	315	413	223	7.91	330	7.69	0.21
	Tanakpur-HPS	94	24	30	21	0.59	25	0.60	0.00
	Uri-HPS	480	476	480	480	11.58	483	11.34	0.25
	Dhauliganga-HPS	280	210	191	0	1.23	51	1.23	0.00
	Dulhasti-HPS	390	388	372	0	4.12	172	3.95	0.17
	Sewa-II HPS	120	119	112	101	2.75	115	2.74	0.02
	Sub Total (C)	3074	2541	2551	855	42.42	1767	41.75	0.67
D. NJPC	Nathpa Jhakri	1500	1200	1557	0	9.20	383	8.90	0.31
	Sub Total (D)	1500	1200	1557	0	9.20	383	8.90	0.31
E. THDC	Tehri HPS	1000	606	559	0	6.50	271	6.50	0.00
	Koteshwar HPS	300	300	202	0	2.48	103	2.40	0.08
	Sub Total (E)	1300	906	761	0	8.98	374	8.90	0.08
F. BBMB	Bhakra HPS	1480	719	985	414	17.52	730	17.26	0.26
	Dehar HPS	990	268	495	145	7.03	293	6.43	0.61
	Pong HPS	396	212	306	126	5.25	219	5.09	0.16
	Sub Total (F)	2866	1199	1786	685	29.80	1242	28.77	1.03
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	33	0	0.91	38	0.70	0.21
	KWHEP HPS(IPP)	1000	0	678	0	4.93	205	4.80	0.13
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	107	129	2.77	116	2.53	0.24
	Sub Total (G)	1592	0	818	129	8.61	359	8.04	0.57
H. Total Regional Entities (A-G)	21475	15274	17042	11132	307.22	12801	301.69	5.53	

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	21.53	897	
	Guru Nanak Dev TPS(Bhatinda)	440	202	219	4.53	189	
	Guru Hargobind Singh TPS(L.mbt)	920	886	970	20.97	874	
	Thermal (Total)	2620	1988	2229	47.03	1960	
	Total Hydro	1148	605	481	13.58	566	
	Total Punjab	3768	2593	2710	60.61	2525	
Haryana	Panipat TPS	1360	996	1003	24.13	1006	
	DCRTPP (Yamuna nagar)	600	276	281	6.56	273	
	Faridabad GPS (NTPC)	432	394	325	9.00	375	
	RGTPP (kheldar) (IPP)	1200	532	531	12.93	539	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	622	300	12.39	516	
	Thermal (Total)	4277	2820	2440	65.01	2709	
	Total Hydro	62	18	26	0.71	30	
	Total Haryana	4339	2838	2466	65.72	2738	
	Rajasthan	kota TPS	1240	1044	1166	27.43	1143
suratgarh TPS		1500	965	1142	26.12	1088	
Chabra TPS		500	189	212	4.79	200	
Dholpur GPS		330	152	152	3.63	151	
Ramgarh GPS		113	63	62	1.41	59	
RAPS A (NPC)		300	185	184	4.51	188	
Barsingsar (NLC)		250	192	192	5.38	224	
Giral LTPS (IPP)		250	148	150	3.36	140	
Rajwest LTPS (IPP)		540	345	345	8.62	359	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3283	3605	85.24	3552	
Total Hydro		550	0	76	1.26	53	
Wind power		1294	438	234	6.05	252	
Biomass		71	46	46	1.10	46	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	484	280	7.15	298	
Total Rajasthan		7073	3767	3961	93.65	3902	
UP		Anpara TPS	1630	1521	1521	33.20	1383
		Obra TPS	1442	345	517	8.90	371
		Paricha TPS	640	160	429	6.10	254
	Panki TPS	210	170	140	3.40	142	
	Harduaganj TPS	415	48	48	1.00	42	
	Tanda TPS (NTPC)	440	397	402	9.70	404	
	Roza TPS (IPP)	900	509	441	10.00	417	
	Anpara-C (IPP)	1200	497	335	8.92	372	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	208	173	4.16	173	
	Thermal (Total)	7057	3855	4006	85.37	3557	
	Vishnuparyag HPS (IPP)	400	94	94	2.14	89	
	Other Hydro	527	178	43	4.32	180	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	4727	4743	106.23	4337	
	Uttarakhand	Total Hydro	1303	484	316	10.46	436
Total Uttarakhand		1303	484	316	10.46	436	
Delhi	Rajghat TPS	135	0	49	0.79	33	
	Delhi Gas Turbine	282	77	77	1.91	80	
	Pragati Gas Turbine	330	294	307	7.30	304	
	Rithala GPS	108	26	25	0.60	25	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	590	610	13.39	558	
	Thermal (Total)	2000	987	1068	24.00	1000	
	Total Delhi	2000	987	1068	24.00	1000	
HP	Baspa HPS (IPP)	330	115	34	1.06	44	
	Malana HPS (IPP)	101	43	12	0.58	24	
	Other Hydro	571	360	273	7.51	313	
	Total HP	1002	518	319	9	381	
J & K	Baglihar HPS (IPP)	450	350	348	8.35	348	
	Other Hydro	323	95	105	2.38	99	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	445	453	10.73	447	
Total State Control Area Generation		29376	16359	16036	380.55	15767	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			304	2492	28.03	1168	
Total Regional Availability(Gross)		50851	33705	29660	715.79	29736	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7366	1540	96.24	4010
State Control Area Hydro	5365	2248	1714	50.22	2092
Total Regional Hydro	15397	9614	3254	146.46	6102

(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	-500	-300	0	500	0.00	6.84	-6.84
Gwalior-Agra (D/C)	260	842	845	0	13.00	0.00	13.00
Zerda-Kankroli	-148	70	70	264	0.00	2.59	-2.59
Zerda-Bhinmal	-130	151	168	236	0.00	1.13	-1.13
Malanpur-Auraiya	-105	-41	0	119	0.00	1.71	-1.71
Badod-Kota/Morak	-12	-20	22	69	0.00	0.28	-0.28
Sub Total WR	-635	702			13.00	12.54	0.45
Pusauli Bypass	-203	-3	105	203	0.20	1.97	-1.77
MZP- GKP (D/C)	368	580	692	0	8.48	0.00	8.48
Patna-Balia(D/C)	297	430	501	0	7.83	0.00	7.83
B'Sharif-Balia (D/C)	136	388	464	0	5.03	0.00	5.03
Barh - balia(D/C)	207	291	333	0	5.81	0.00	5.81
Pusauli-Sahupuri	164	136	164	0	3.15	0.00	3.15
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	939	1790			30.49	2.92	27.57
Total IR Exch	304	2492			43.49	15.46	28.03

(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
28.04	0.35	28.39	-2.26	2.39	6.35	0.12	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
34.06	-1.20	32.86	27.57	0.45	28.03	-6.48	1.65	-4.83

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	1.30	11.00	94.00	84.30	31.10	4.70

<----- 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					
50.44	18.02	49.34	19.06	49.91	0.37	0.17	50.39	49.69

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	04:43	399	19:06	0.0	0.0	0.0	0.0
Gorakhpur	400	434	14:01	397	18:37	0.0	0.0	65.6	6.0
Bareilly	400	482	15:52	408	01:18	0.0	0.0	19.1	0.1
Kanpur	400	417	04:11	395	19:07	0.0	0.0	0.0	0.0
Dadri	400	423	04:02	404	19:06	0.0	0.0	5.4	0.0
Ballabgarh	400	425	04:01	405	19:05	0.0	0.0	18.1	0.0
Bawana	400	428	04:18	404	19:07	0.0	0.0	27.8	0.0
Bassi	400	424	18:01	397	23:37	0.0	0.0	1.7	0.0
Hissar	400	416	04:02	397	19:06	0.0	0.0	0.0	0.0
Moga	400	427	04:17	409	19:05	0.0	0.0	16.2	0.0
Abdullapur	400	427	04:02	246	09:41	0.3	0.3	36.3	0.0
Nalagarh	400	427	04:01	406	19:08	0.0	0.0	24.3	0.0
Kishenpur	400	424	04:01	401	19:06	0.0	0.0	8.4	0.0
Wagoora	400	408	03:46	380	19:39	0.0	24.7	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	479.61	454.47	488.10	671.08	239.90	568.97
Pong	426.72	384.05	404.42	328.16	410.44	514.41	116.81	432.79
Tehri	829.79	740.04	772.30	229.70	818.65	982.26	72.01	187.00
Koteshwar	612.50	598.50	608.75	4.21	NA	NA	188.00	164.00
Chamera-I	760.00	748.75	754.56	NA	754.75	NA	178.50	201.37
Rihand	268.22	252.98	260.09	309.60	255.42	93.00	NA	NA
RPS	352.80	343.81	347.29	NA	NA	NA	NA	91.66
Jawahar Sagar	298.70	295.78	297.88	NA	NA	NA	NA	30.16
RSD	527.91	487.91	496.12	NA	504.12	NA	213.85	231.66

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.03.2012 :

1.Normal

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 : 25.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER