

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.03.2012
Date of Reporting : 29.03.2012

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
31870	1290	33160	49.77	28768	980	29748	50.05	726.5	33.58

* 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	43.24	12.00		55.24	48.58	49.07	0.48	104.31	3.07
Haryana	61.19	0.70		61.90	27.63	39.82	12.19	101.72	4.72
Rajasthan	80.04	0.00	9.88	89.92	46.66	64.69	18.03	154.61	3.31
Delhi	32.17			32.17	49.83	35.75	-14.07	67.93	0.04
UP	95.20	6.27	14.40	115.87	94.53	95.57	1.04	211.44	18.96
Uttarakhand		11.50		11.50	13.52	16.79	3.27	28.28	1.19
HP		8.31		8.31	17.53	15.48	-2.06	23.79	0.00
J & K		9.81	0.00	9.81	20.21	21.03	0.82	30.84	2.30
Chandigarh				0.00	3.92	3.59	-0.33	3.59	0.00
Total	311.84	48.59	24.28	384.72	322.41	341.78	19.37	726.50	33.58

* 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	4135	600	-293	-210	4251	0	-165	-117	-3.55
Haryana	4608	134	869	-161	3796	0	-1	-161	-3.86
Rajasthan	6075	26	737	-122	6784	0	1354	6	-1.02
Delhi	3175	0	-287	-45	1813	0	-997	-11	1.13
UP	10232	230	-583	1190	8968	980	751	243	8.85
Uttarakhand	1186	150	-51	150	1082	0	173	90	2.52
HP	920	0	14	-997	796	0	-22	146	-1.22
J&K	1351	150	98	-247	1179	0	80	-147	-4.04
Chandigarh	188	0	-24	0	99	0	-9	0	0.00
Total	31870	1290	480	-443	28768	980	1164	49	-1.18

* 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	2104	2109	46.90	1954	47.04	-0.14
	Rihand I STPS	1000	915	999	995	22.11	921	21.96	0.15
	Rihand II STPS	1000	975	1043	1047	23.64	985	23.40	0.24
	Dadri I STPS	840	803	863	830	19.04	793	18.25	0.80
	Dadri II STPS	980	972	1018	1000	22.99	958	23.05	-0.06
	Unchahar I TPS	440	406	437	437	9.76	407	9.71	0.06
	Unchahar II TPS	440	404	439	439	9.72	405	9.63	0.09
	Unchahar III TPS	210	202	218	220	4.86	202	4.83	0.03
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	809	735	780	16.71	696	16.34	0.37
	Anta GPS	419	393	367	338	8.26	344	8.06	0.20
	Auraiya GPS	663	470	305	318	7.29	304	7.03	0.25
	Sub Total (A)	9822	8308	8528	8513	191.26	7969	189.30	1.96
B. NPC	NAPS	440	270	304	312	6.49	270	6.48	0.01
	RAPS- B	440	417	456	448	9.92	413	10.01	-0.09
	RAPS- C	440	420	466	470	10.08	420	10.08	0.00
	Sub Total (B)	1320	1107	1226	1230	26.49	1104	26.57	-0.08
C. NHPC	Chamera I HPS	540	534	450	0	3.07	128	3.67	-0.60
	Chamera II HPS	300	297	167	0	2.60	108	2.96	-0.35
	Bairasuil HPS	180	179	179	120	2.89	120	2.94	-0.06
	Salal-HPS	690	304	387	293	7.03	293	7.29	-0.26
	Tanakpur-HPS	94	24	29	19	0.58	24	0.59	-0.01
	Uri-HPS	480	473	479	480	11.61	484	11.52	0.09
	Dhauliganga-HPS	280	239	280	0	1.52	63	1.54	-0.02
	Dulhasti-HPS	390	388	378	0	4.35	181	4.51	-0.16
	Sewa-II HPS	120	119	121	100	2.77	116	2.75	0.02
	Sub Total (C)	3074	2556	2470	1012	36.42	1517	37.78	-1.36
D. NJPC	Nathpa Jhakri	1500	1200	1450	0	9.89	412	9.93	-0.04
	Sub Total (D)	1500	1200	1450	0	9.89	412	9.93	-0.04
E. THDC	Tehri HPS	1000	558	558	0	8.02	334	8.00	0.02
	Koteshwar HPS	300	300	260	0	3.35	140	1.80	1.55
	Sub Total (E)	1300	858	818	0	11.37	474	9.80	1.57
F. BBMB	Bhakra HPS	1480	711	1084	413	17.28	720	17.07	0.21
	Dehar HPS	990	221	495	290	5.33	222	5.32	0.01
	Pong HPS	396	235	304	120	5.80	242	5.65	0.15
	Sub Total (F)	2866	1168	1883	823	28.41	1184	28.03	0.38
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.57	24	0.70	-0.13
	KWHEP HPS(IPP)	1000	0	675	0	5.48	228	5.77	-0.29
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	230	188	5.17	216	2.99	2.19
	Sub Total (G)	1592	0	905	188	11.22	467	9.45	1.76
H. Total Regional Entities (A-G)	21475	15198	17280	11766	315.06	13127	310.87	4.19	

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	1040	1040	23.15	965	
	Guru Nanak Dev TPS(Bhatinda)	440	219	220	4.66	194	
	Guru Hargobind Singh TPS(L.mbt)	920	706	704	15.43	643	
	Thermal (Total)	2620	1965	1964	43.24	1802	
	Total Hydro	1148	617	348	12.00	500	
	Total Punjab	3768	2582	2312	55.24	2302	
Haryana	Panipat TPS	1360	997	1021	24.12	1005	
	DCRTPP (Yamuna nagar)	600	240	270	5.05	210	
	Faridabad GPS (NTPC)	432	393	410	9.69	404	
	RGTPP (kheldar) (IPP)	1200	518	497	12.67	528	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	297	600	9.67	403	
	Thermal (Total)	4277	2445	2798	61.19	2550	
	Total Hydro	62	22	34	0.70	29	
	Total Haryana	4339	2467	2832	61.90	2579	
	Rajasthan	kota TPS	1240	1176	1168	27.68	1153
suratgarh TPS		1500	1091	911	22.63	943	
Chabra TPS		500	180	189	3.66	153	
Dholpur GPS		330	148	152	3.59	150	
Ramgarh GPS		113	54	55	1.38	57	
RAPS A (NPC)		300	182	186	4.49	187	
Barsingsar (NLC)		250	107	198	3.76	157	
Giral LTPS (IPP)		250	57	55	1.39	58	
Rajwest LTPS (IPP)		540	470	425	11.45	477	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5158	3465	3339	80.04	3335	
Total Hydro		550	0	0	0.00	0	
Wind power		1294	219	304	9.01	375	
Biomass		71	47	47	0.88	37	
Solar		50	0	0	0.00	0	
Renewable/Others (Total)		1365	266	351	9.88	412	
Total Rajasthan		7073	3731	3690	89.92	3747	
UP		Anpara TPS	1630	1326	1357	31.80	1325
		Obra TPS	1442	458	464	11.30	471
	Paricha TPS	640	385	305	8.30	346	
	Panki TPS	210	122	72	2.00	83	
	Harduaganj TPS	415	41	36	0.90	38	
	Tanda TPS (NTPC)	440	392	404	9.43	393	
	Roza TPS (IPP)	900	740	556	14.83	618	
	Anpara-C (IPP)	1200	495	360	9.97	416	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	296	299	6.67	278	
	Thermal (Total)	7057	4255	3853	95.20	3967	
	Vishnuparyag HPS (IPP)	400	83	85	2.00	84	
	Other Hydro	527	219	0	4.27	178	
	Cogeneration	951	600	600	14.40	600	
	Total UP	8935	5157	4538	115.87	4745	
	Uttarakhand	Total Hydro	1303	577	453	11.50	479
Total Uttarakhand		1303	577	453	11.50	479	
Delhi	Rajghat TPS	135	105	106	2.49	104	
	Delhi Gas Turbine	282	77	76	1.90	79	
	Pragati Gas Turbine	330	294	305	7.20	300	
	Rithala GPS	108	27	26	5.75	240	
	Bawana GPS	440	174	13	1.18	49	
	Badarpur TPS (NTPC)	705	595	590	13.66	569	
	Thermal (Total)	2000	1272	1103	32.17	1341	
	Total Delhi	2000	1272	1103	32.17	1341	
HP	Baspa HPS (IPP)	330	31	31	1.01	42	
	Malana HPS (IPP)	101	37	10	0.35	15	
	Other Hydro	571	264	269	6.95	289	
	Total HP	1002	332	310	8	346	
J & K	Baglihar HPS (IPP)	450	294	290	7.02	293	
	Other Hydro	323	115	117	2.79	116	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	409	407	9.81	409	
Total State Control Area Generation		29376	16527	15645	384.72	15947	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1465	2626	50.46	2102	
Total Regional Availability(Gross)		50851	35272	30037	750.23	31176	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7296	1835	92.13	3839
State Control Area Hydro	5365	2176	1552	46.59	1941
Total Regional Hydro	15397	9472	3387	138.72	5780

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	-200	100	250	0.59	3.22	-2.63
Gwalior-Agra (D/C)	589	980	1107	0	19.50	0.00	19.50
Zerda-Kankroli	-18	37	82	143	0.00	0.25	-0.25
Zerda-Bhinmal	-13	79	195	212	0.66	0.56	0.10
Malanpur-Auraiya	-110	-37	0	139	0.00	0.78	-0.78
Badod-Kota/Morak	30	54	100	0	1.13	0.00	1.13
Sub Total WR	378	913			21.88	4.80	17.08
Pusauli Bypass	-34	0	165	34	1.37	0.14	1.23
MZP- GKP (D/C)	398	602	744	0	11.13	0.00	11.13
Patna-Balia(D/C)	146	367	441	0	5.11	0.00	5.11
B'Sharif-Balia (D/C)	233	247	443	0	5.99	0.00	5.99
Barh - balia(D/C)	212	367	429	0	7.06	0.00	7.06
Pusauli-Sahupuri	174	168	185	0	3.90	0.00	3.90
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-38	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1087	1713			34.55	1.17	33.38
Total IR Exch	1465	2626			56.43	5.97	50.46

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
26.31	0.32	26.63	-3.34	1.50	3.55	-2.66	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
28.42	0.77	29.19	33.38	17.08	50.46	4.96	16.30	21.27

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	2.10	20.60	96.20	77.70	16.00	1.70

<----- 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					
50.31	16.02	49.20	19.10	49.83	0.55	0.17	50.25	49.60

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	406	04:04	399	18:58	0.0	0.0	0.0	0.0
Gorakhpur	400	433	07:47	14	16:33	0.2	0.2	43.5	6.0
Bareilly	400	416	09:11	394	19:17	0.0	0.0	0.0	0.0
Kanpur	400	412	07:47	392	18:56	0.0	0.0	0.0	0.0
Dadri	400	420	04:02	397	12:13	0.0	0.0	0.0	0.0
Ballabgarh	400	421	03:57	398	12:10	0.0	0.0	2.2	0.0
Bawana	400	424	04:02	400	12:13	0.0	0.0	10.8	0.0
Bassi	400	417	18:01	396	12:13	0.0	0.0	0.0	0.0
Hissar	400	413	05:28	395	12:11	0.0	0.0	0.0	0.0
Moga	400	429	04:02	408	15:49	0.0	0.0	24.8	0.0
Abdullapur	400	425	23:27	403	13:30	0.5	0.5	16.4	0.0
Nalagarh	400	424	03:57	405	19:08	0.0	0.0	12.1	0.0
Kishenpur	400	425	04:21	397	19:28	0.0	0.0	5.1	0.0
Wagoora	400	409	04:20	379	20:03	0.7	35.1	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	477.99	414.26	486.91	636.01	254.91	566.34
Pong	426.72	384.05	403.62	304.55	410.18	504.32	98.60	433.52
Tehri	829.79	740.04	770.55	213.50	818.65	982.26	56.30	232.00
Koteshwar	612.50	598.50	608.40	3.76	NA	NA	232.00	222.00
Chamera-I	760.00	748.75	NA	NA	754.75	NA	141.27	83.22
Rihand	268.22	252.98	NA	NA	NA	NA	NA	NA
RPS	352.80	343.81	347.36	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	495.76	NA	504.08	NA	172.17	179.59

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 28.03.2012 :

1.Normal

XII. Synchronisation of new generating units :

1. ROZA # 4 first time synchronised at 06:45 hrs of 28.03.2012.

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 : 28.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER