

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.03.2012
Date of Reporting : 30.03.2012

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
31349	1093	32442	49.73	28448	1016	29464	50.01	708.1	25.75

* 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	43.78	11.07		54.85	47.04	50.38	3.34	105.23	3.29
Haryana	60.15	0.61		60.76	25.15	37.95	12.80	98.71	4.06
Rajasthan	85.39	0.08	5.12	90.59	47.49	62.59	15.10	153.19	2.26
Delhi	28.45			28.45	47.40	33.19	-14.22	61.63	0.00
UP	88.89	6.19	14.40	109.48	95.48	94.26	-1.23	203.74	12.92
Uttarakhand		11.14		11.14	13.41	16.70	3.28	27.83	0.93
HP		8.47		8.47	14.96	15.43	0.47	23.90	0.00
J & K		9.09	0.00	9.09	20.08	21.28	1.21	30.38	2.30
Chandigarh				0.00	3.82	3.50	-0.32	3.50	0.00
Total	306.66	46.64	19.52	372.82	314.84	335.27	20.43	708.10	25.75

* 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	4182	600	-95	-210	4293	0	-45	-117	-3.55
Haryana	4791	0	1018	-165	3587	36	435	-165	-3.95
Rajasthan	5780	3	409	-19	6614	0	960	6	0.02
Delhi	3090	0	76	-45	1796	0	-869	-11	1.13
UP	9844	190	-1347	1190	9076	980	422	243	8.85
Uttarakhand	1184	150	-18	150	1048	0	198	90	2.52
HP	898	0	-10	-997	830	0	113	146	-1.22
J&K	1394	150	174	-233	1108	0	39	-133	-3.68
Chandigarh	186	0	-16	0	96	0	-18	0	0.00
Total	31349	1093	191	-329	28448	1016	1235	59	0.11

* 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	2111	2112	48.61	2026	47.04	1.57
	Rihand I STPS	1000	915	998	997	22.01	917	21.96	0.05
	Rihand II STPS	1000	975	1047	1047	23.62	984	23.40	0.22
	Dadri I STPS	840	803	661	725	16.15	673	14.85	1.30
	Dadri II STPS	980	966	1061	900	20.88	870	20.28	0.60
	Unchahar I TPS	440	406	440	435	9.75	406	9.47	0.28
	Unchahar II TPS	440	399	439	438	9.58	399	9.31	0.27
	Unchahar III TPS	210	202	220	220	4.86	202	4.75	0.11
	ISTPP (Jhajjar)	1000	0	0	0	0.00	0	0.00	0.00
	Dadri GPS	830	810	661	635	18.23	760	16.61	1.62
	Anta GPS	419	393	289	319	7.30	304	7.14	0.16
	Auraiya GPS	663	462	307	324	7.38	308	6.98	0.40
	Sub Total (A)	9822	8290	8234	8152	188.37	7849	181.79	6.58
B. NPC	NAPS	440	270	304	309	6.52	272	6.48	0.04
	RAPS- B	440	414	455	447	9.91	413	9.94	-0.02
	RAPS- C	440	420	464	471	10.04	418	10.08	-0.04
	Sub Total (B)	1320	1104	1223	1227	26.48	1103	26.50	-0.02
C. NHPC	Chamera I HPS	540	534	540	0	1.56	65	1.60	-0.04
	Chamera II HPS	300	297	192	0	2.53	105	2.64	-0.11
	Bairasuli HPS	180	179	179	0	2.83	118	2.52	0.30
	Salal-HPS	690	272	400	222	5.88	245	6.53	-0.66
	Tanakpur-HPS	94	23	31	25	0.56	24	0.58	-0.01
	Uri-HPS	480	472	480	480	11.63	484	11.52	0.11
	Dhauliganga-HPS	280	277	283	0	0.89	37	0.98	-0.09
	Dulhasti-HPS	390	388	413	0	3.68	153	4.59	-0.92
	Sewa-II HPS	120	119	122	120	2.90	121	2.86	0.03
	Sub Total (C)	3074	2561	2640	847	32.45	1352	33.82	-1.38
D. NJPC	Nathpa Jhakri	1500	1200	1411	0	8.67	361	9.00	-0.33
	Sub Total (D)	1500	1200	1411	0	8.67	361	9.00	-0.33
E. THDC	Tehri HPS	1000	558	558	0	8.51	355	8.50	0.01
	Koteshwar HPS	300	300	304	0	3.35	140	1.40	1.95
	Sub Total (E)	1300	858	862	0	11.86	494	9.90	1.96
F. BBMB	Bhakra HPS	1480	706	1084	414	17.12	713	16.94	0.18
	Dehar HPS	990	207	495	165	5.09	212	4.97	0.13
	Pong HPS	396	210	304	180	5.27	220	5.03	0.24
	Sub Total (F)	2866	1122	1883	759	27.48	1145	26.93	0.55
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.57	24	0.53	0.03
	KWHEP HPS(IPP)	1000	0	600	0	4.19	175	5.04	-0.85
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	223	221	4.82	201	3.09	1.72
	Sub Total (G)	1592	0	823	221	9.57	399	8.66	0.91
H. Total Regional Entities (A-G)	21475	15135	17076	11206	304.88	12703	296.61	8.27	

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	23.07	961
	Guru Nanak Dev TPS(Bhatinda)	440	219	220	4.72	196
	Guru Hargobind Singh TPS(L.mbt)	920	698	699	15.99	666
	Thermal (Total)	2620	1957	1959	43.78	1824
	Total Hydro	1148	605	341	11.07	461
	Total Punjab	3768	2562	2300	54.85	2285
Haryana	Panipat TPS	1360	990	991	24.00	1000
	DCRTPP (Yamuna nagar)	600	240	0	0.00	0
	Faridabad GPS (NTPC)	432	394	408	9.59	400
	RGTPP (kheldar) (IPP)	1200	568	457	13.42	559
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	692	394	13.14	547
	Thermal (Total)	4277	2884	2250	60.15	2506
	Total Hydro	62	20	20	0.61	25
	Total Haryana	4339	2904	2270	60.76	2532
Rajasthan	kota TPS	1240	1176	1174	27.61	1151
	suratgarh TPS	1500	1130	965	25.57	1066
	Chabra TPS	500	366	223	7.21	300
	Dholpur GPS	330	150	150	3.64	152
	Ramgarh GPS	113	63	53	1.42	59
	RAPS A (NPC)	300	182	186	4.53	189
	Barsingsar (NLC)	250	104	102	2.56	107
	Giral LTPS (IPP)	250	66	57	1.50	62
	Rajwest LTPS (IPP)	540	465	470	11.35	473
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5158	3702	3380	85.39	3558
	Total Hydro	550	0	0	0.08	3
	Wind power	1294	102	502	3.95	165
	Biomass	71	49	49	1.17	49
	Solar	50	0	0	0.00	0
	Renewable/Others (Total)	1365	151	551	5.12	213
	Total Rajasthan	7073	3853	3931	90.59	3775
UP	Anpara TPS	1630	1283	1302	30.40	1267
	Obra TPS	1442	464	483	11.50	479
	Paricha TPS	640	368	388	8.80	367
	Panki TPS	210	128	131	3.00	125
	Harduaganj TPS	415	40	40	0.90	38
	Tanda TPS (NTPC)	440	295	294	6.78	282
	Roza TPS (IPP)	900	828	833	10.31	430
	Anpara-C (IPP)	1200	503	387	10.31	430
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	283	317	6.89	287
	Thermal (Total)	7057	4192	4175	88.89	3704
	Vishnuparyag HPS (IPP)	400	89	89	2.07	86
	Other Hydro	527	133	0	4.12	172
	Cogeneration	951	600	600	14.40	600
	Total UP	8935	5014	4864	109.48	4475
Uttarakhand	Total Hydro	1303	562	394	11.14	464
	Total Uttarakhand	1303	562	394	11.14	464
Delhi	Rajghat TPS	135	104	105	2.27	94
	Delhi Gas Turbine	282	77	77	1.91	79
	Pragati Gas Turbine	330	292	304	7.21	300
	Rithala GPS	108	0	0	0.70	29
	Bawana GPS	440	0	26	2.57	107
	Badarpur TPS (NTPC)	705	615	605	13.80	575
	Thermal (Total)	2000	1088	1272	28.45	1185
	Total Delhi	2000	1088	1272	28.45	1185
HP	Baspa HPS (IPP)	330	29	0	0.98	41
	Malana HPS (IPP)	101	42	0	0.38	16
	Other Hydro	571	297	218	7.11	296
	Total HP	1002	368	218	8	353
J & K	Baglihar HPS (IPP)	450	264	260	6.31	263
	Other Hydro	323	115	117	2.79	116
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	379	377	9.09	379
Total State Control Area Generation		29376	16730	15626	372.82	15448
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1932	2693	55.17	2299
Total Regional Availability(Gross)		50851	35738	29525	732.87	30450

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7396	1606	85.22	3551
State Control Area Hydro	5365	2067	1350	44.57	1857
Total Regional Hydro	15397	9463	2956	129.79	5408

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	-200	-250	0	400	0.00	4.68	-4.68
Gwalior-Agra (D/C)	747	979	1279	0	19.68	0.00	19.68
Zerda-Kankroli	-33	-5	150	165	0.00	1.12	-1.12
Zerda-Bhinmal	-15	28	227	122	0.38	0.00	0.38
Malanpur-Auraiya	-143	-44	0	148	0.00	0.81	-0.81
Badod-Kota/Morak	5	42	82	41	0.88	0.00	0.88
Sub Total WR	361	750			20.94	6.61	14.33
Pusauli Bypass	-11	139	237	92	2.57	0.15	2.42
MZP- GKP (D/C)	540	608	770	0	13.14	0.00	13.14
Patna-Balia(D/C)	349	432	449	0	7.90	0.00	7.90
B'Sharif-Balia (D/C)	332	380	476	0	7.79	0.00	7.79
Barh - balia(D/C)	242	281	403	0	7.10	0.00	7.10
Pusauli-Sahupuri	161	141	163	0	3.53	0.00	3.53
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	1571	1943			42.02	1.17	40.84
Total IR Exch	1932	2693			62.95	7.78	55.17

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
27.89	0.32	28.21	-0.14	2.53	4.42	1.48	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
34.07	1.50	35.57	40.84	14.33	55.17	6.77	12.83	19.60

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	0.50	4.60	19.10	93.50	79.00	18.30	1.90

<----- 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					
50.49	6.03	49.01	19.12	49.85	0.59	0.19	50.25	49.52

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	14:14	399	20:03	0.0	0.0	0.0	0.0
Gorakhpur	400	435	11:58	392	20:49	0.0	0.0	41.6	10.5
Bareilly	400	419	11:37	384	20:49	0.0	4.1	0.0	0.0
Kanpur	400	412	04:03	391	20:48	0.0	0.0	0.0	0.0
Dadri	400	421	04:03	401	19:10	0.0	0.0	0.8	0.0
Ballabgarh	400	423	04:03	400	19:10	0.0	0.0	4.0	0.0
Bawana	400	425	04:03	402	19:10	0.0	0.0	13.6	0.0
Bassi	400	418	16:04	401	10:11	0.0	0.0	0.0	0.0
Hissar	400	416	06:02	395	19:10	0.0	0.0	0.0	0.0
Moga	400	432	04:04	408	19:10	0.0	0.0	28.5	0.9
Abdullapur	400	427	03:54	402	20:44	0.1	0.1	22.2	0.0
Nalagarh	400	427	04:03	404	19:14	0.0	0.0	11.8	0.0
Kishenpur	400	423	04:04	396	19:47	0.0	0.0	1.3	0.0
Wagoora	400	405	03:05	376	20:19	11.8	46.3	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	477.60	407.63	486.72	636.01	190.80	561.00
Pong	426.72	384.05	403.46	304.55	410.12	504.32	90.13	358.70
Tehri	829.79	740.04	769.95	208.27	818.65	982.26	72.10	248.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	122.40	42.30
Rihand	268.22	252.98	259.90	255.36	NA	NA	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	495.56	NA	504.11	NA	99.31	135.10

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.03.2012 :

1.Normal

XII. Synchronisation of new generating units :

1. 765/400kv Bhiwani(PG) s/s first time charged at 22:49 hrs.
2. 400 kv Bahadurgarh-Bhiwani(PG) first time charged at 22:44 hrs.

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 : 29.03.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER