

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.04.2012
Date of Reporting : 27.04.2012

I. Regional Availability/Demand:

Evening Peak (20:00 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
29603	2418	32021	50.02	28966	1389	30355	49.83	678.7	45.82

* 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	46.82	8.45		55.26	45.22	40.88	-4.34	96.14	2.01
Haryana	56.73	0.70		57.44	36.90	31.15	-5.76	88.58	1.72
Rajasthan	74.21	0.00	5.32	79.53	30.53	48.92	18.39	128.45	0.52
Delhi	34.42			34.42	48.89	38.47	-10.42	72.89	0.11
UP	83.76	7.81	7.20	98.77	84.15	114.78	30.64	213.55	34.95
Uttarakhand		10.97		10.97	11.03	16.63	5.61	27.61	2.82
HP		11.21		11.21	10.65	9.01	-1.64	20.22	1.80
J & K		13.82	0.00	13.82	13.58	13.25	-0.34	27.06	1.90
Chandigarh				0.00	4.56	4.19	-0.38	4.19	0.00
Total	295.94	52.96	12.52	361.42	285.50	317.27	31.77	678.69	45.82

* 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 (20:00 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	4330	450	-141	7	3845	0	-493	7	0.16
Haryana	4573	0	68	54	4016	104	-4	54	1.31
Rajasthan	5608	0	740	-315	5297	0	509	-315	-7.56
Delhi	3188	52	-387	411	2623	0	-590	211	7.63
UP	8370	1488	393	465	10331	1285	2861	265	7.36
Uttarakhand	1064	300	-40	47	1175	0	471	47	1.14
HP	893	28	-252	-790	727	0	-67	-92	-8.54
J&K	1384	100	22	-446	813	0	-191	-406	-10.20
Chandigarh	193	0	-59	27	139	0	7	0	0.61
Total	29603	2418	344	-540	28966	1389	2503	-229	-8.09

* 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	1253	1354	1360	30.24	1260	30.06	0.18
	Rihand I STPS	1000	420	463	470	10.15	423	9.87	0.28
	Rihand II STPS	1000	975	1044	1047	23.56	982	23.04	0.52
	Dadri I STPS	840	803	852	875	17.92	746	17.88	0.03
	Dadri II STPS	980	470	477	508	11.13	464	11.28	-0.15
	Unchahar I TPS	420	386	393	417	9.23	384	9.18	0.04
	Unchahar II TPS	420	199	209	219	4.77	199	4.68	0.09
	Unchahar III TPS	210	199	199	220	4.74	198	4.69	0.05
	ISTPP (Jhajjar)	1000	960	782	794	17.74	739	16.79	0.96
	Dadri GPS	830	809	684	698	15.08	628	15.06	0.02
	Anta GPS	419	251	184	193	4.62	193	4.37	0.25
	Auraiya GPS	663	612	259	316	6.95	289	6.69	0.26
	Sub Total (A)	9782	7337	6900	7117	156.11	6505	153.58	2.53
	B. NPC	NAPS	440	268	309	310	6.43	268	6.43
RAPS- B		440	383	419	417	9.00	375	9.19	-0.19
RAPS- C		440	420	465	466	10.00	417	10.08	-0.08
Sub Total (B)		1320	1071	1193	1193	25.43	1060	25.70	-0.27
C. NHPC	Chamera I HPS	540	534	540	180	9.00	375	8.73	0.27
	Chamera II HPS	300	297	300	99	4.69	195	4.49	0.19
	Bairasuil HPS	180	182	182	170	3.90	162	3.91	-0.01
	Salal-HPS	690	464	551	428	11.74	489	10.97	0.77
	Tanakpur-HPS	94	22	33	25	0.68	29	0.87	-0.19
	Uri-HPS	480	475	480	479	11.57	482	11.57	0.01
	Dhauliganga-HPS	280	277	278	0	1.40	58	1.42	-0.02
	Dulhasti-HPS	390	388	379	400	7.04	293	6.35	0.68
	Sewa-II HPS	120	80	85	80	1.94	81	1.94	0.01
	Sub Total (C)	3074	2718	2828	1861	51.96	2165	50.26	1.71
D. NJPC	Nathpa Jhakri	1500	1600	1605	0	12.70	529	12.50	0.20
	Sub Total (D)	1500	1600	1605	0	12.70	529	12.50	0.20
E. THDC	Tehri HPS	1000	470	473	0	6.29	262	6.19	0.10
	Koteshwar HPS	400	300	305	0	3.09	129	3.00	0.09
	Sub Total (E)	1400	770	778	0	9.38	391	9.19	0.19
F. BBMB	Bhakra HPS	1480	453	746	384	1.18	49	10.87	-9.69
	Dehar HPS	990	392	495	280	10.79	450	9.41	1.38
	Pong HPS	396	3	60	0	0.09	4	0.07	0.02
	Sub Total (F)	2866	848	1301	664	12.06	503	20.35	-8.29
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	45	0	1.08	45	1.23	-0.15
	KWHEP HPS(IPP)	1000	0	600	225	7.34	306	7.38	-0.04
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	118	113	2.68	112	3.39	-0.71
	Sub Total (G)	1592	0	763	338	11.09	462	12.00	-0.91
H. Total Regional Entities (A-G)	21535	14344	15368	11173	278.74	11614	283.57	-4.84	

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	1035	1035	23.07	961
	Guru Nanak Dev TPS(Bhatinda)	440	200	216	4.61	192
	Guru Hargobind Singh TPS(L.mbt)	920	890	736	19.14	797
	Thermal (Total)	2620	2125	1987	46.82	1951
	Total Hydro	1148	355	419	8.45	352
	Total Punjab	3768	2480	2406	55.26	2303
Haryana	Panipat TPS	1367	1077	1077	25.42	1059
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	395	371	7.80	325
	RGTPP (khedar) (IPP)	1200	1020	958	23.52	980
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	2492	2406	56.73	2364
	Total Hydro	62	25	32	0.70	29
	Total Haryana	5006	2517	2438	57.44	2393
Rajasthan	kota TPS	1240	1110	1159	27.42	1143
	suratgarh TPS	1500	1041	1117	26.57	1107
	Chabra TPS	500	363	316	8.35	348
	Dholpur GPS	330	98	100	2.36	98
	Ramgarh GPS	111	3	3	0.06	2
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	44	43	0.86	36
	Rajwest LTPS (IPP)	540	345	345	8.60	358
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3004	3083	74.21	3092
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	5	489	4.24	176
	Biomass	91	45	45	1.08	45
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	50	534	5.32	222
	Total Rajasthan	7767	3054	3617	79.53	3314
	UP	Anpara TPS	1630	857	832	15.50
Obra TPS		1382	407	506	10.10	421
Paricha TPS		640	424	423	9.20	383
Panki TPS		210	135	60	2.50	104
Harduaganj TPS		415	0	46	1.10	46
Tanda TPS (NTPC)		440	192	192	4.76	198
Roza TPS (IPP)		1200	1126	1134	26.95	1123
Anpara-C (IPP)		1200	302	297	7.23	301
Bajaj Energy Pvt.Ltd(IPP) TPS		450	303	284	6.43	268
Thermal (Total)		7567	3746	3774	83.76	3490
Vishnuparyag HPS (IPP)		400	124	119	2.76	115
Other Hydro		527	165	51	5.04	210
Cogeneration		981	300	300	7.20	300
Total UP		9475	4335	4244	98.77	4000
Uttarakhand		Total Hydro	1303	508	361	10.97
	Total Uttarakhand	1303	508	361	10.97	457
Delhi	Rajghat TPS	135	101	107	2.84	118
	Delhi Gas Turbine	282	198	155	4.20	175
	Pragati Gas Turbine	330	302	295	7.00	292
	Rithala GPS	108	31	30	0.81	34
	Bawana GPS	677	228	60	5.82	243
	Badarpur TPS (NTPC)	705	575	670	13.76	573
	Thermal (Total)	2237	1435	1498	34.42	1434
	Total Delhi	2237	1435	1498	34.42	1434
HP	Baspa HPS (IPP)	330	77	0	1.32	55
	Malana HPS (IPP)	86	69	0	0.61	25
	Other Hydro	589	379	385	9.28	387
	Total HP	1005	525	385	11	467
J & K	Baglihar HPS (IPP)	450	436	436	10.51	438
	Other Hydro	323	140	132	3.31	138
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	576	568	13.82	576
Total State Control Area Generation		31517	15430	15517	361.42	14944
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			439	3161	37.12	1547
Total Regional Availability(Gross)		53052	31237	29851	677.27	28105

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7157	2750	94.52	3938
State Control Area Hydro	5368	2154	1816	50.19	2091
Total Regional Hydro	15500	9311	4566	144.72	6030

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-100	0	0	100	0.00	1.39	-1.39
Gwalior-Agra (D/C)	299	940	1061	0	15.30	0.00	15.30
Zerda-Kankroli	-51	61	106	181	0.00	0.79	-0.79
Zerda-Bhinmal	-7	89	220	143	0.80	0.00	0.80
Malanpur-Auraiya	-90	-10	0	125	0.00	0.59	-0.59
Badod-Kota/Morak	35	24	35	80	0.05	0.00	0.05
Sub Total WR	86	1104			16.15	2.76	13.39
Pusauli Bypass	-302	82	94	338	0.47	2.56	-2.09
MZP- GKP (D/C)	128	746	746	0	10.23	0.00	10.23
Patna-Balia(D/C)	252	366	398	0	5.85	0.00	5.85
B'Sharif-Balia (D/C)	90	471	487	0	5.61	0.00	5.61
Barh - Balia(D/C)	0	366	380	0	2.72	0.00	2.72
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	179	0	194	0	2.26	0.00	2.26
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-42	-34	0	49	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	353	2057			27.24	3.51	23.73
Total IR Exch	439	3161			43.39	6.27	37.12

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
23.83	0.72	24.55	-11.00	3.66	-0.08	-0.81	1.68	-1.68

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
15.15	-0.21	14.94	23.73	13.39	37.12	8.58	13.60	22.17

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	1.42	15.59	93.55	79.42	31.86	5.03

<----- 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	Hz				
50.46	18.05	49.32	5.25	49.91	0.44	0.19	50.32	49.61

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	418	07:19	409	17:57	0.0	0.0	0.0	0.0
Gorakhpur	400	431	07:20	408	00:10	0.0	0.0	67.1	0.4
Bareilly	400	427	08:04	400	00:09	0.0	0.0	10.9	0.0
Kanpur	400	424	08:03	406	00:10	0.0	0.0	4.6	0.0
Dadri	400	423	15:47	411	10:46	0.0	0.0	6.0	0.0
Ballabgarh	400	426	08:03	412	00:08	0.0	0.0	18.8	0.0
Bawana	400	426	08:03	411	00:08	0.0	0.0	19.8	0.0
Bassi	400	428	08:55	409	05:45	0.0	0.0	33.1	0.0
Hissar	400	417	08:03	403	18:12	0.0	0.0	0.0	0.0
Moga	400	424	08:03	409	19:36	0.0	0.0	18.1	0.0
Abdullapur	400	430	08:05	247	12:57	0.0	0.0	51.3	0.0
Nalagarh	400	425	08:03	409	19:30	0.0	0.0	16.1	0.0
Kishenpur	400	420	02:43	402	20:49	0.0	0.0	0.0	0.0
Wagoora	400	410	03:32	382	20:27	0.0	15.1	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	474.68	345.61	483.34	544.27	337.30	362.54
Pong	426.72	384.05	403.37	296.79	410.92	524.54	58.42	5.75
Tehri	829.79	740.04	756.75	98.32	818.65	982.26	81.30	200.00
Koteshwar	612.50	598.50	610.20	4.89	NA	NA	215.00	191.00
Chamera-I	760.00	748.75	754.30	NA	NA	NA	235.47	242.40
Rihand	268.22	252.98	258.32	226.70	245.78	67.80	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	497.01	NA	508.44	NA	258.59	231.38

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.04.2012 :

1.Rains & Strom in J&K , HP , Some part of Punjab,Haryana & NCR region.

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 : 26.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER