

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.04.2012
Date of Reporting : 26.04.2012

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
30938	3059	33997	49.88	28123	671	28794	49.98	695.1	48.88

* 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	44.18	6.80		50.98	45.61	48.19	2.58	99.17	4.82
Haryana	57.68	0.62		58.30	36.20	32.82	-3.38	91.11	3.07
Rajasthan	75.05	0.09	6.06	81.20	30.00	50.34	20.34	131.54	0.51
Delhi	33.27			33.27	50.50	42.84	-7.66	76.11	0.07
UP	100.52	7.90	7.20	115.62	82.20	98.77	16.57	214.39	34.25
Uttarakhand		11.06		11.06	11.09	17.05	5.96	28.11	2.57
HP		11.02		11.02	10.51	9.81	-0.70	20.83	1.69
J & K		13.82	0.00	13.82	13.69	15.65	1.96	29.47	1.90
Chandigarh				0.00	4.47	4.32	-0.15	4.32	0.00
Total	310.69	51.32	13.26	375.26	284.27	319.79	35.52	695.05	48.88

* 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	4348	450	-72	7	3928	0	-99	7	0.16
Haryana	4636	534	218	54	3666	21	-353	54	1.31
Rajasthan	5717	0	468	-366	5327	0	805	-366	-8.78
Delhi	3516	0	-336	352	2507	0	-309	113	6.06
UP	9065	1668	168	465	9574	650	1586	265	7.36
Uttarakhand	1074	300	-70	98	1077	0	347	98	2.36
HP	923	7	-112	-741	783	0	-7	-92	-8.39
J&K	1444	100	61	-406	1130	0	123	-406	-9.75
Chandigarh	215	0	-31	27	131	0	4	0	0.61
Total	30938	3059	294	-509	28123	671	2097	-326	-9.06

* 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	1242	1358	1367	31.25	1302	29.81	1.44
	Rihand I STPS	1000	415	467	465	9.97	415	9.73	0.23
	Rihand II STPS	1000	975	1043	1049	23.52	980	22.92	0.59
	Dadri I STPS	840	803	867	670	17.23	718	17.28	-0.05
	Dadri II STPS	980	470	503	495	11.22	468	11.28	-0.06
	Unchahar I TPS	420	390	431	440	9.36	390	9.28	0.08
	Unchahar II TPS	420	201	221	217	4.79	199	4.73	0.06
	Unchahar III TPS	210	199	218	216	4.77	199	4.68	0.09
	ISTPP (Jhajjar)	1000	960	887	731	18.70	779	17.06	1.63
	Dadri GPS	830	803	630	622	14.82	617	15.00	-0.18
	Anta GPS	419	251	182	182	4.50	187	4.44	0.06
	Auraiya GPS	663	616	291	277	6.79	283	6.86	-0.08
	Sub Total (A)	9782	7325	7098	6731	156.90	6537	153.08	3.82
	B. NPC	NAPS	440	270	303	310	6.45	269	6.48
RAPS- B		440	383	417	427	9.15	381	9.19	-0.05
RAPS- C		440	420	467	471	10.14	423	10.08	0.06
Sub Total (B)		1320	1073	1187	1208	25.74	1072	25.75	-0.01
C. NHPC	Chamera I HPS	540	534	534	534	11.40	475	9.50	1.90
	Chamera II HPS	300	297	200	100	4.47	186	4.28	0.19
	Bairasuil HPS	180	182	179	182	4.21	175	4.02	0.19
	Salal-HPS	690	400	488	396	9.86	411	9.60	0.26
	Tanakpur-HPS	94	28	37	25	0.66	27	0.67	-0.02
	Uri-HPS	480	476	480	478	11.58	483	11.55	0.03
	Dhauliganga-HPS	280	277	278	0	1.58	66	1.54	0.04
	Dulhasti-HPS	390	388	410	193	6.81	284	6.42	0.40
	Sewa-II HPS	120	80	84	70	1.93	81	1.90	0.04
	Sub Total (C)	3074	2661	2690	1978	52.50	2187	49.47	3.03
D. NJPC	Nathpa Jhakri	1500	1600	1618	0	13.55	565	12.96	0.59
	Sub Total (D)	1500	1600	1618	0	13.55	565	12.96	0.59
E. THDC	Tehri HPS	1000	470	480	0	6.58	274	6.50	0.08
	Koteshwar HPS	400	300	303	0	3.14	131	3.00	0.14
	Sub Total (E)	1400	770	783	0	9.72	405	9.50	0.22
F. BBMB	Bhakra HPS	1480	378	578	320	9.36	390	9.06	0.30
	Dehar HPS	990	339	495	280	8.78	366	8.14	0.65
	Pong HPS	396	3	60	0	0.09	4	0.07	0.02
	Sub Total (F)	2866	720	1133	600	18.23	760	17.23	0.96
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	0	1.10	46	1.23	-0.13
	KWHEP HPS(IPP)	1000	0	552	225	7.20	300	7.20	0.01
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	104	140	2.76	115	3.49	-0.72
	Sub Total (G)	1592	0	756	365	11.07	461	11.92	-0.85
H. Total Regional Entities (A-G)	21535	14148	15265	10882	287.70	11988	279.95	7.75	

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	23.21	967
	Guru Nanak Dev TPS(Bhatinda)	440	216	218	4.64	193
	Guru Hargobind Singh TPS(L.mbt)	920	734	747	16.33	680
	Thermal (Total)	2620	1990	2005	44.18	1841
	Total Hydro	1148	355	164	6.80	283
	Total Punjab	3768	2345	2169	50.98	2124
Haryana	Panipat TPS	1367	1063	1074	25.31	1054
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	380	283	7.66	319
	RGTPP (kheldar) (IPP)	1200	1034	1092	24.71	1030
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	2477	2449	57.68	2403
	Total Hydro	62	19	30	0.62	26
	Total Haryana	5006	2496	2479	58.30	2429
	Rajasthan	kota TPS	1240	1160	1159	27.57
suratgarh TPS		1500	1116	1118	26.71	1113
Chabra TPS		500	368	375	8.70	363
Dholpur GPS		330	100	98	2.32	97
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	43	42	0.82	34
Rajwest LTPS (IPP)		540	340	460	8.87	370
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	3130	3255	75.05	3127
Total Hydro		550	0	0	0.09	4
Wind power		1843	320	175	4.98	208
Biomass		91	51	51	0.98	41
Solar		128	0	0	0.00	0
Renewable/Others (Total)		2062	371	226	6.06	252
Total Rajasthan		7767	3501	3481	81.20	3383
UP		Anpara TPS	1630	1030	1382	25.80
	Obra TPS	1382	525	389	9.40	392
	Paricha TPS	640	426	430	9.10	379
	Panki TPS	210	140	150	2.90	121
	Harduaganj TPS	415	293	290	6.20	258
	Tanda TPS (NTPC)	440	183	187	4.68	195
	Roza TPS (IPP)	1200	1134	1130	26.96	1123
	Anpara-C (IPP)	1200	360	504	10.55	440
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	238	164	4.94	206
	Thermal (Total)	7567	4329	4626	100.52	4188
	Vishnuparyag HPS (IPP)	400	109	114	2.70	112
	Other Hydro	527	248	53	5.21	217
	Cogeneration	981	300	300	7.20	300
	Total UP	9475	4986	5093	115.62	4705
	Uttarakhand	Total Hydro	1303	560	376	11.06
Total Uttarakhand		1303	560	376	11.06	461
Delhi	Rajghat TPS	135	106	107	2.87	120
	Delhi Gas Turbine	282	149	154	3.88	162
	Pragati Gas Turbine	330	289	300	7.28	303
	Rithala GPS	108	30	32	0.78	33
	Bawana GPS	677	264	63	6.12	255
	Badarpur TPS (NTPC)	705	680	505	12.35	514
	Thermal (Total)	2237	1518	1265	33.27	1386
	Total Delhi	2237	1518	1265	33.27	1386
HP	Baspa HPS (IPP)	330	0	31	1.60	67
	Malana HPS (IPP)	86	67	0	0.61	26
	Other Hydro	589	353	359	8.80	367
	Total HP	1005	420	390	11	459
J & K	Baglihar HPS (IPP)	450	438	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	578	568	13.82	576
Total State Control Area Generation		31517	16404	15821	375.26	15524
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			855	2693	44.41	1851
Total Regional Availability(Gross)		53052	32524	29396	707.38	29362

IV. Total Hydro Generation:

Regional Entities Hydro	10133	6876	2803	102.30	4263
State Control Area Hydro	5368	2180	1581	48.62	2026
Total Regional Hydro	15500	9056	4384	150.92	6288

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	0	200	200	0	2.93	0.00	2.93
Gwalior-Agra (D/C)	492	712	1003	0	15.36	0.00	15.36
Zerda-Kankroli	27	-92	27	215	0.00	1.12	-1.12
Zerda-Bhinmal	10	-53	162	178	0.33	0.00	0.33
Malanpur-Auraiya	-65	-70	0	124	0.00	0.90	-0.90
Badod-Kota/Morak	23	43	49	16	0.59	0.00	0.59
Sub Total WR	487	740			19.21	2.02	17.19
Pusauli Bypass	-289	-115	0	369	0.01	4.40	-4.39
MZP- GKP (D/C)	108	700	806	0	10.28	0.00	10.28
Patna-Balia(D/C)	205	350	408	0	6.33	0.00	6.33
B'Sharif-Balia (D/C)	132	439	534	0	6.24	0.00	6.24
Barh - Balia(D/C)	206	349	408	0	6.33	0.00	6.33
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	0	204	210	0	3.29	0.00	3.29
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	368	1953			32.57	5.35	27.22
Total IR Exch	855	2693			51.78	7.37	44.41

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
26.23	0.76	26.98	-12.51	3.75	0.61	-0.73	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
16.77	0.42	17.19	27.22	17.19	44.41	10.45	16.77	27.22

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	1.63	12.39	95.86	85.10	26.08	2.51

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.36	8.02	49.34	18.41	49.90	0.38	0.17	50.25	49.57

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	414	18:33	408	06:06	0.0	0.0	0.0	0.0
Gorakhpur	400	431	08:02	407	01:50	0.0	0.0	66.1	0.1
Bareilly	400	424	08:08	403	23:37	0.0	0.0	4.2	0.0
Kanpur	400	420	08:01	404	01:52	0.0	0.0	0.0	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabgarh	400	421	08:00	408	15:35	0.0	0.0	1.3	0.0
Bawana	400	421	08:02	409	18:08	0.0	0.0	1.1	0.0
Bassi	400	423	03:58	408	14:10	0.0	0.0	5.7	0.0
Hissar	400	412	12:59	400	05:45	0.0	0.0	0.0	0.0
Moga	400	421	02:49	409	18:43	0.0	0.0	2.1	0.0
Abdullapur	400	424	12:59	246	11:34	0.4	0.4	20.4	0.0
Nalagarh	400	420	09:04	407	17:18	0.0	0.0	0.0	0.0
Kishenpur	400	419	03:04	403	19:29	0.0	0.0	0.0	0.0
Wagoora	400	407	02:53	385	20:08	0.0	14.5	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	474.53	345.61	483.87	552.50	337.08	278.03
Pong	426.72	384.05	403.28	296.79	410.80	524.54	68.81	53.01
Tehri	829.79	740.04	758.40	113.04	818.65	982.26	68.81	220.00
Koteshwar	612.50	598.50	610.20	4.89	NA	NA	215.00	191.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	258.56	228.60	254.90	72.60	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	496.21	NA	508.20	NA	160.67	41.85

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.04.2012 :

1.Rains in J&K , HP , Rest 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 : 25.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER