

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.05.2012
Date of Reporting : 08.05.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 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
31252	2777	34030	50.12	31552	2544	34096	49.80	751.6	59.31

* 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	48.68	8.17		56.85	59.20	53.89	-5.31	110.74	1.80
Haryana	40.56	0.66		41.22	42.01	53.85	11.83	95.07	11.48
Rajasthan	68.02	0.00	11.20	79.22	44.40	56.62	12.23	135.84	2.09
Delhi	30.39			30.39	64.10	54.98	-9.12	85.37	0.09
UP	94.68	8.33	7.20	110.21	85.95	127.75	41.81	237.96	39.48
Uttarakhand		13.12		13.12	11.40	16.64	5.25	29.76	2.48
HP		11.93		11.93	12.06	10.68	-1.38	22.61	0.00
J & K		13.83	0.00	13.83	15.84	15.64	-0.20	29.47	1.90
Chandigarh				0.00	4.57	4.75	0.18	4.75	0.00
Total	282.33	56.03	18.40	356.76	339.53	394.81	55.28	751.57	59.31

* 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	4951	450	-191	426	4547	0	-380	427	10.24
Haryana	3709	607	-203	169	4199	314	1205	169	4.05
Rajasthan	5689	0	-222	-438	5597	0	306	-438	-10.50
Delhi	3880	0	-393	438	3021	0	-641	438	10.50
UP	9163	1550	1166	-3	11052	2230	2855	0	-0.06
Uttarakhand	1302	70	108	36	1208	0	292	35	0.86
HP	953	0	-142	-537	724	0	-43	-320	-9.79
J&K	1378	100	-45	-358	1054	0	-109	-358	-8.83
Chandigarh	227	0	-10	0	150	0	5	0	0.24
Total	31252	2777	68	-267	31552	2544	3491	-46	-3.28

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

A. NTPC	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
		Singrauli STPS	2000	1427	1367	1570	33.71	1404	34.24
	Rihand I STPS	1000	915	995	998	22.06	919	21.96	0.09
	Rihand II STPS	1000	974	1042	1042	23.42	976	23.37	0.05
	Dadri I STPS	840	593	623	563	14.14	589	13.86	0.28
	Dadri II STPS	980	960	969	1022	23.15	965	23.04	0.11
	Unchahar I TPS	420	399	422	440	9.51	396	9.40	0.11
	Unchahar II TPS	420	404	436	438	9.73	405	9.41	0.32
	Unchahar III TPS	210	200	217	218	4.81	200	4.72	0.09
	ISTPP (Jhajjar)	1000	508	403	408	9.33	389	9.14	0.19
	Dadri GPS	830	790	550	529	13.24	552	13.31	-0.07
	Anta GPS	419	389	201	206	5.53	231	5.52	0.02
	Auraiya GPS	663	614	255	277	6.93	289	6.96	-0.03
	Sub Total (A)	9782	8171	7480	7711	175.55	7315	174.92	0.63
B. NPC	NAPS	440	266	296	301	6.26	261	6.38	-0.12
	RAPS- B	440	370	410	415	8.89	370	8.88	0.01
	RAPS- C	440	420	467	468	9.95	414	10.08	-0.14
	Sub Total (B)	1320	1056	1173	1184	25.09	1046	25.34	-0.25
C. NHPC	Chamera I HPS	540	534	540	0	6.60	275	6.36	0.23
	Chamera II HPS	300	297	299	99	4.64	193	4.23	0.41
	Bairasuil HPS	180	182	170	140	3.42	142	3.14	0.27
	Salal-HPS	690	362	348	355	8.83	368	8.69	0.15
	Tanakpur-HPS	94	24	17	17	0.56	23	0.55	0.01
	Uri-HPS	480	476	479	479	11.60	483	11.59	0.01
	Dhauliganga-HPS	280	277	267	0	1.56	65	1.49	0.08
	Dulhasti-HPS	390	388	397	420	9.05	377	8.51	0.55
	Sewa-II HPS	120	80	70	85	1.91	79	1.89	0.02
	Sub Total (C)	3074	2619	2587	1595	48.16	2007	46.43	1.73
D. NJPC	Nathpa Jhakri	1500	1600	1597	0	14.64	610	13.92	0.72
	Sub Total (D)	1500	1600	1597	0	14.64	610	13.92	0.72
E. THDC	Tehri HPS	1000	440	440	0	5.62	234	5.50	0.12
	Koteshwar HPS	400	300	302	0	2.58	108	2.50	0.08
	Sub Total (E)	1400	740	742	0	8.20	342	8.00	0.20
F. BBMB	Bhakra HPS	1480	685	1175	540	16.74	698	16.44	0.30
	Dehar HPS	990	294	660	165	7.95	331	7.05	0.90
	Pong HPS	396	84	240	0	2.12	88	2.01	0.11
	Sub Total (F)	2866	1062	2075	705	26.81	1117	25.50	1.31
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	155	0	1.49	62	1.33	0.16
	KWHEP HPS(IPP)	1000	0	500	301	8.15	340	9.04	-0.88
	Malana Stg-II HPS	100	0	0	15	0.56	23	0.00	0.56
	Shree Cement TPS	300	0	129	128	3.13	131	3.05	0.09
	Sub Total (G)	1592	0	784	444	13.34	556	13.41	-0.08
H. Total Regional Entities (A-G)		21535	15248	16438	11639	311.79	12991	307.53	4.26

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	1050	1050	23.22	968	
	Guru Nanak Dev TPS(Bhatinda)	440	218	219	4.62	192	
	Guru Hargobind Singh TPS(L.mbt)	920	808	964	20.85	869	
	Thermal (Total)	2620	2076	2233	48.68	2028	
	Total Hydro	1148	372	324	8.17	340	
	Total Punjab	3768	2448	2557	56.85	2369	
Haryana	Panipat TPS	1367	1058	1060	25.57	1065	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	233	385	7.85	327	
	RGTPP (khedar) (IPP)	1200	501	0	7.14	298	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1792	1445	40.56	1690	
	Total Hydro	62	23	25	0.66	28	
	Total Haryana	5006	1815	1470	41.22	1718	
Rajasthan	kota TPS	1240	1095	1138	27.29	1137	
	suratgarh TPS	1500	1027	1126	26.67	1111	
	Chabra TPS	500	215	209	4.58	191	
	Dholpur GPS	330	98	98	2.34	97	
	Ramgarh GPS	111	25	26	0.71	30	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	134	108	2.26	94	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	215	230	4.18	174	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2809	2935	68.02	2834	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	473	537	10.13	422	
	Biomass	91	45	45	1.07	45	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	518	582	11.20	467	
	Total Rajasthan	7767	3327	3517	79.22	3301	
	UP	Anpara TPS	1630	1038	1134	25.80	1075
		Obra TPS	1382	483	495	11.80	492
Paricha TPS		640	311	275	6.70	279	
Panki TPS		210	122	131	3.00	125	
Harduaganj TPS		415	36	225	3.80	158	
Tanda TPS (NTPC)		440	184	275	6.15	256	
Roza TPS (IPP)		1200	793	815	19.07	795	
Anpara-C (IPP)		1200	454	204	11.55	481	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	284	299	6.81	284	
Thermal (Total)		7567	3705	3853	94.68	3945	
Vishnuparyag HPS (IPP)		400	168	138	3.50	146	
Other Hydro		527	231	49	4.83	201	
Cogeneration		981	300	300	7.20	300	
Total UP		9475	4404	4340	110.21	4446	
Uttarakhand		Total Hydro	1303	612	502	13.12	547
	Total Uttarakhand	1303	612	502	13.12	547	
Delhi	Rajghat TPS	135	99	99	2.34	98	
	Delhi Gas Turbine	282	188	192	4.43	185	
	Pragati Gas Turbine	330	273	291	6.91	288	
	Rithala GPS	108	0	27	0.49	20	
	Bawana GPS	677	282	0	1.49	62	
	Badarpur TPS (NTPC)	705	635	665	14.74	614	
	Thermal (Total)	2237	1477	1274	30.39	1266	
	Total Delhi	2237	1477	1274	30.39	1266	
HP	Baspa HPS (IPP)	330	29	0	1.70	71	
	Malana HPS (IPP)	86	60	0	0.57	24	
	Other Hydro	589	402	367	9.66	403	
	Total HP	1005	491	367	12	497	
J & K	Baglihar HPS (IPP)	450	438	438	10.52	438	
	Other Hydro	323	140	133	3.31	138	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	578	571	13.83	576	
Total State Control Area Generation		31517	15152	14598	356.76	14719	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2530	5064	93.36	3890	
Total Regional Availability(Gross)		53052	34120	31301	761.92	31601	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7656	2616	108.01	4501
State Control Area Hydro	5368	2307	1838	52.54	2189
Total Regional Hydro	15500	9963	4454	160.55	6690

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	500	500	500	0	11.89	0.00	11.89
Gwalior-Agra (D/C)	505	1129	1206	0	20.47	0.00	20.47
Zerda-Kankroli	-38	72	160	85	0.45	0.00	0.45
Zerda-Bhinmal	27	132	289	115	2.30	0.00	2.30
Malanpur-Auraiya	-82	-9	0	137	0.00	0.03	-0.03
Badod-Kota/Morak	75	58	115	0	1.46	0.00	1.46
Sub Total WR	987	1882			36.57	0.03	36.55
Pusauli Bypass	-190	162	166	213	1.07	1.00	0.07
MZP- GKP (D/C)	454	962	970	0	16.76	0.00	16.76
Patna-Balia(D/C)	352	720	741	0	12.49	0.00	12.49
B'Sharif-Balia (D/C)	303	725	747	0	12.79	0.00	12.79
Barh - Balia(D/C)	441	443	621	0	11.43	0.00	11.43
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	175	142	197	0	3.66	0.00	3.66
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-40	-32	0	47	0.00	0.48	-0.48
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1543	3182			58.30	1.48	56.82
Total IR Exch	2530	5064			94.87	1.50	93.36

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
31.76	0.89	32.64	-4.73	4.07	7.12	4.29	2.84	-2.84

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
37.87	5.55	43.43	56.82	36.55	93.36	18.95	30.99	49.94

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	1.00	7.70	34.60	91.40	64.50	10.90	0.90

<----- 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	Hz				
50.35	18.47	49.04	23.01	49.76	0.92	0.19	50.23	49.36

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	400	06:50	392	22:00	0.0	0.0	0.0	0.0
Gorakhpur	400	426	19:52	393	04:58	0.0	0.0	8.4	0.0
Bareilly	400	419	18:47	392	01:33	0.0	0.0	0.0	0.0
Kanpur	400	409	18:46	392	22:01	0.0	0.0	0.0	0.0
Dadri	400	412	06:32	396	09:44	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:45	396	15:30	0.0	0.0	0.0	0.0
Bawana	400	416	18:46	397	15:33	0.0	0.0	0.0	0.0
Bassi	400	424	18:46	400	14:18	0.0	0.0	0.8	0.0
Hissar	400	414	18:47	395	09:44	0.0	0.0	0.0	0.0
Moga	400	419	18:47	403	23:01	0.0	0.0	0.0	0.0
Abdullapur	400	422	18:23	228	05:40	0.1	0.1	1.0	0.0
Nalagarh	400	423	18:23	402	09:45	0.0	0.0	3.5	0.0
Kishenpur	400	414	18:02	400	20:33	0.0	0.0	0.0	0.0
Wagoora	400	405	02:46	384	22:07	0.0	9.6	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	472.32	308.66	481.85	503.43	326.01	570.31
Pong	426.72	384.05	403.17	296.79	411.17	534.70	57.74	142.41
Tehri	829.79	740.04	750.80	56.20	818.65	982.26	75.96	186.00
Koteshwar	612.50	598.50	610.45	4.69	NA	NA	186.00	171.00
Chamera-I	760.00	748.75	753.66	NA	NA	NA	191.36	178.16
Rihand	268.22	252.98	257.65	185.70	254.48	66.10	NA	NA
RPS	352.80	343.81	348.73	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.18	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.68	NA	509.94	NA	148.18	64.14

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 07.05.2012 :

1. Normal weather in NR.

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 : 07.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER