

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.06.2012
Date of Reporting : 11.06.2012

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
33250	3188	36438	49.69	34876	3721.95	38598	49.56	812.1	72.86

* 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	46.96	17.90		64.85	78.72	87.14	8.42	151.99	4.96
Haryana	48.87	0.68		49.55	59.73	62.39	2.66	111.94	10.42
Rajasthan	73.34	0.00	31.41	104.75	35.07	37.13	2.06	141.88	4.60
Delhi	21.58			21.58	78.51	71.10	-7.42	92.68	0.11
UP	84.91	13.96	4.80	103.67	91.54	128.42	36.88	232.09	43.38
Uttarakhand		13.78		13.78	12.32	15.14	2.81	28.92	3.98
HP		13.01		13.01	6.11	7.36	1.25	20.37	2.46
J & K		15.00	0.00	15.00	10.78	12.31	1.53	27.31	2.95
Chandigarh				0.00	6.21	4.96	-1.26	4.96	0.00
Total	275.66	74.33	36.21	386.20	379.01	425.94	46.94	812.14	72.86

* 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	STOA/PX transaction	
Punjab	6246	507	-25	330	5861	236	-179	330	9.72	
Haryana	4587	0	-61	603	4674	664	125	603	14.48	
Rajasthan	5968	129	308	-213	5954	460	-4	-213	-5.11	
Delhi	3862	0	-199	591	3970	0	-241	491	15.04	
UP	9249	2150	1224	0	11036	2150	2490	0	1.20	
Uttarakhand	1365	230	162	50	1323	80	232	50	1.21	
HP	737	22	-40	-967	825	32	12	-943	-22.15	
J&K	1020	150	-168	-570	1026	100	18	-570	-13.91	
Chandigarh	215	0	-59	40	208	0	-33	20	1.20	
Total	33250	3188	1142	-135	34876	3721.95	2419	-230	1.68	

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

III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
		(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1730	1856	1858	42.16	1757	41.51	0.66
	Rihand I STPS	1000	898	984	989	21.73	905	21.54	0.18
	Rihand II STPS	1000	808	1043	539	19.65	819	19.38	0.27
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	798	864	870	19.02	792	19.16	-0.14
	Dadri II STPS	980	963	1012	1023	22.90	954	23.05	-0.15
	Unchahar I TPS	420	396	442	433	9.50	396	9.49	0.01
	Unchahar II TPS	420	404	440	442	9.72	405	9.69	0.03
	Unchahar III TPS	210	201	225	219	4.84	202	4.82	0.02
	ISTPP (Jhajhar)	1000	911	761	975	21.42	893	19.78	1.64
	Dadri GPS	830	740	728	755	17.19	716	17.54	-0.35
	Anta GPS	419	381	380	389	9.11	379	9.06	0.05
	Auraiya GPS	663	434	434	455	10.65	444	10.33	0.32
	Sub Total (A)	10282	8663	9169	8947	207.88	8662	205.34	2.54
B. NPC	NAPS	440	256	289	296	6.14	256	6.14	0.00
	RAPS- B	440	364	430	431	9.28	387	8.74	0.54
	RAPS- C	440	210	218	224	4.83	201	5.04	-0.21
	Sub Total (B)	1320	830	937	951	20.25	844	19.92	0.33
C. NHPC	Chamera I HPS	540	467	540	540	8.02	334	7.88	0.14
	Chamera II HPS	300	200	198	202	4.82	201	4.56	0.25
	Chamera III HPS	231		0	0	0.00	0		0.00
	Bairasuil HPS	180	182	150	182	2.48	103	2.22	0.25
	Salal-HPS	690	610	570	637	14.69	612	14.58	0.11
	Tanakpur-HPS	94	37	53	41	1.04	43	0.97	0.08
	Uri-HPS	480	476	478	479	11.59	483	11.58	0.02
	Dhauliganga-HPS	280	277	278	142	3.57	149	3.49	0.08
	Dulhasti-HPS	390	388	413	400	9.34	389	9.31	0.03
	Sewa-II HPS	120	80	85	86	1.93	80	1.94	-0.02
	Sub Total (C)	3305	2716	2765	2709	57.48	2395	56.54	0.94
D.NJPC	Nathpa Jhakri	1500	1600	1605	798	21.33	889	20.86	0.47
	Sub Total (D)	1500	1600	1605	798	21.33	889	20.86	0.47
E. THDC	Tehri HPS	1000	337	120	377	3.06	127	3.00	0.06
	Koteshwar HPS	400	300	90	182	1.95	81	2.00	-0.05
	Sub Total (E)	1400	637	210	559	5.01	209	5.00	0.01
F. BBMB	Bhakra HPS	1480	799	1125	662	19.51	813	19.18	0.33
	Dehar HPS	990	396	666	330	9.62	401	9.50	0.13
	Pong HPS	396	136	236	60	3.35	140	3.27	0.08
	Sub Total (F)	2866	1331	2027	1052	32.48	1353	31.94	0.54
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	93	105	1.87	78	1.81	0.05
	KWHEP HPS(IPP)	1000	0	550	532	12.14	506	17.57	-5.44
	Malana Stg-II HPS	100	0	35	54	1.06	44	0.00	1.06
	Shree Cement TPS	300	0	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP)	70	0	0	35	0.55	23		0.55
	Sub Total (G)	1662	0	678	726	15.62	651	19.39	-3.77
H. Total Regional Entities (A-G)		22336	15776	17391	15742	360.05	15002	358.98	1.06

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	1045	1045	23.48	978	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.19	91	
	Guru Hargobind Singh TPS(L.mbt)	920	965	963	21.29	887	
	Thermal (Total)	2620	2115	2113	46.96	1957	
	Total Hydro	1148	722	811	17.90	746	
	Total Punjab	3768	2837	2924	64.85	2702	
Haryana	Panipat TPS	1367	1124	1136	27.23	1135	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	364	375	9.01	375	
	RGTPP (khedar) (IPP)	1200	525	491	12.64	526	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2013	2002	48.87	2036	
	Total Hydro	62	16	18	0.68	28	
	Total Haryana	5006	2029	2020	49.55	2065	
Rajasthan	kota TPS	1240	929	780	23.05	960	
	suratgarh TPS	1500	1138	1120	26.77	1115	
	Chabra TPS	500	0	196	1.88	79	
	Dholpur GPS	330	176	76	3.06	128	
	Ramgarh GPS	111	52	52	1.34	56	
	RAPS A (NPC)	300	170	171	4.09	170	
	Barsingsar (NLC)	250	194	168	4.49	187	
	Giral LTPS	250	66	70	1.27	53	
	Rajwest LTPS (IPP)	540	337	230	7.38	308	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3062	2863	73.34	3056	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	1106	1327	29.92	1247	
	Biomass	91	48	48	1.14	48	
	Solar	128	0	0	0.34	14	
	Renewable/Others (Total)	2062	1154	1375	31.41	1309	
	Total Rajasthan	7767	4216	4238	104.75	4365	
	UP	Anpara TPS	1630	579	1021	15.60	650
		Obra TPS	1382	369	358	8.30	346
		Paricha TPS	890	581	570	10.60	442
Panki TPS		210	80	50	1.40	58	
Harduaganj TPS		665	40	40	0.90	38	
Tanda TPS (NTPC)		440	289	286	7.14	297	
Roza TPS (IPP)		1200	824	697	18.61	775	
Anpara-C (IPP)		1200	657	648	14.16	590	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	350	350	8.21	342	
Thermal (Total)		8067	3769	4020	84.91	3538	
Vishnuparyag HPS (IPP)		400	417	367	9.19	383	
Other Hydro		527	203	0	4.78	199	
Cogeneration		981	200	200	4.80	200	
Total UP		9975	4589	4587	103.67	3937	
Uttarakhand	Total Hydro	1303	633	545	13.78	574	
	Total Uttarakhand	1303	633	545	13.78	574	
Delhi	Rajghat TPS	135	99	101	2.41	100	
	Delhi Gas Turbine	282	173	176	4.22	176	
	Pragati Gas Turbine	330	268	220	5.51	230	
	Rithala GPS	108	28	27	0.64	27	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	375	370	8.80	367	
	Thermal (Total)	2237	943	894	21.58	899	
	Total Delhi	2237	943	894	21.58	899	
HP	Baspa HPS (IPP)	330	162	243	4.09	170	
	Malana HPS (IPP)	86	41	31	0.81	34	
	Other Hydro	589	362	348	8.11	338	
	Total HP	1005	565	622	13	542	
J & K	Baglihar HPS (IPP)	450	435	477	10.45	435	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	613	674	15.00	625	
Total State Control Area Generation		32017	16425	16504	386.20	15709	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2005	3607	73.86	3078	
Total Regional Availability(Gross)		54353	35821	35853	820.10	33788	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7285	5809	131.37	5474
State Control Area Hydro	5368	2752	2670	65.14	2714
Total Regional Hydro	15731	10037	8479	196.51	8188

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	500	100	5.86	0.21	5.65
Gwalior-Agra (D/C)	983	1244	1552	0	28.55	0.00	28.55
Zerda-Kankroli	94	97	141	46	1.32	0.00	1.32
Zerda-Bhinmal	69	74	170	116	0.73	0.00	0.73
Malanpur-Auraiya	-90	76	76	90	0.83	0.00	0.83
Badod-Kota/Morak	22	22	22	0	0.53	0.00	0.53
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1078	1713			37.81	0.21	37.61
Pusauli Bypass	-62	-25	88	333	0.21	1.68	-1.47
MZP- GKP (D/C)	178	372	462	0	8.47	0.00	8.47
Patna-Balia(D/C)	411	734	854	0	14.02	0.00	14.02
B'Sharif-Balia (D/C)	247	541	566	0	9.35	0.00	9.35
Barh - Balia(D/C)	0	0	335	0	2.31	0.00	2.31
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	92	182	0	0.92	0.00	0.92
Pusauli-Sahupuri	147	149	167	0	3.67	0.00	3.67
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	927	1894			38.94	2.69	36.25
Total IR Exch	2005	3607			76.76	2.90	73.86

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
27.15	0.64	27.79	-1.31	4.89	-0.97	4.60	1.08	-1.08
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
26.59	6.38	32.97	36.25	37.61	73.86	9.66	31.23	40.89

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
0.01	1.50	8.00	27.70	61.80	71.60	37.50	5.40	0.70
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX	MIN
Freq	Time	Freq	Time				(Hz)	(Hz)
50.34	18.03	48.84	0.51	49.62	2.12	0.26	50.19	49.12

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	409	21:42	400	03:20	0.0	0.0	0.0	0.0
Gorakhpur	400	431	19:48	404	00:31	0.0	0.0	45.3	2.1
Bareilly	400	419	18:02	390	03:22	0.0	0.0	0.0	0.0
Kanpur	400	415	18:05	396	04:38	0.0	0.0	0.0	0.0
Dadri	400	413	18:02	397	08:18	0.0	0.0	0.0	0.0
Ballabgarh	400	419	18:03	400	00:47	0.0	0.0	0.0	0.0
Bawana	400	416	18:03	398	00:44	0.0	0.0	0.0	0.0
Bassi	400	420	18:01	391	04:38	0.0	0.0	0.0	0.0
Hissar	400	416	18:02	391	08:18	0.0	0.0	0.0	0.0
Moga	400	424	18:03	396	08:18	0.0	0.0	0.9	0.0
Abdullapur	400	419	18:02	284	23:40	0.1	0.1	0.0	0.0
Nalagarh	400	418	18:06	399	12:34	0.0	0.0	0.0	0.0
Kishenpur	400	418	18:01	401	10:17	0.0	0.0	0.0	0.0
Wagoora	400	411	17:20	392	20:13	0.0	0.0	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	468.32	239.26	479.19	441.00	419.15	706.65
Pong	426.72	384.05	398.64	191.43	411.58	544.90	58.39	241.60
Tehri	829.79	740.04	740.70	4.00	818.65	982.26	145.50	110.00
Koteshwar	612.50	598.50	607.90	NA	NA	NA	110.00	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	204.88	175.85
Rihand	268.22	252.98	255.67	96.70	254.08	40.90	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	501.29	NA	512.14	NA	179.08	363.76

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 10.06.2012 :
1. Hot weather

XII. Synchronisation of new generating units :
1. Chamera#3 Unit -2 and unit-3 synchronised with grid at 13.12 hrs &12.51 hrs of 10.06.2012 respectively and load rejection test was carried from 13.00 hrs to 19.00 hrs .Maximum generation was 61 MW.

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 : 10.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER