

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.06.2012
Date of Reporting : 14.06.2012

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
34716	3801	38517	49.66	34931	3535.75	38467	49.51	838.2	109.91

* 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	53.42	18.33		71.75	99.46	102.91	3.46	174.67	11.29
Haryana	48.62	0.69		49.31	56.61	61.82	5.21	111.13	26.64
Rajasthan	75.16	0.00	4.52	79.68	43.60	54.85	11.25	134.52	5.22
Delhi	23.26			23.26	80.94	79.42	-1.52	102.68	0.99
UP	85.71	15.13	4.80	105.64	95.84	120.67	24.84	226.31	55.99
Uttarakhand		17.35		17.35	12.85	15.07	2.22	32.42	3.93
HP		14.22		14.22	7.47	7.33	-0.15	21.54	2.90
J & K		15.00	0.00	15.00	12.34	13.92	1.59	28.92	2.95
Chandigarh				0.00	6.39	5.99	-0.40	5.99	0.00
Total	286.17	80.72	9.32	376.20	415.48	461.98	46.50	838.18	109.91

* 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	7657	455	127	1875	7223	200	54	1735	43.52
Haryana	4985	905	599	427	4537	1060	88	427	10.24
Rajasthan	5989	0	461	-171	5531	533	663	-213	-5.05
Delhi	4399	0	-49	470	4154	0	-164	370	11.54
UP	8458	2105	185	0	10440	1630	671	0	1.20
Uttarakhand	1355	160	117	10	1378	0	173	10	0.25
HP	302	26	-130	-1161	382	13	30	-1137	-27.25
J&K	1317	150	42	-545	1061	100	-56	-545	-13.32
Chandigarh	255	0	-23	40	226	0	-21	20	1.20
Total	34716	3801	1329	945	34931	3535.75	1437	668	22.32

* 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	1730	1857	1873	41.95	1748	41.52
	Rihand I STPS	1000	891	985	955	21.50	896	21.39	0.11
	Rihand II STPS	1000	970	1044	1045	23.48	978	23.28	0.20
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	796	859	850	19.15	798	19.10	0.06
	Dadri II STPS	980	963	1018	1020	23.23	968	23.12	0.11
	Unchahar I TPS	420	404	444	440	9.75	406	9.69	0.06
	Unchahar II TPS	420	404	443	441	9.77	407	9.70	0.07
	Unchahar III TPS	210	201	219	218	4.85	202	4.82	0.02
	ISTPP (Jhajjar)	1000	772	957	845	17.70	737	18.37	-0.67
	Dadri GPS	830	712	711	722	16.63	693	16.77	-0.14
	Anta GPS	419	381	374	391	9.13	380	8.90	0.22
	Auraiya GPS	663	580	570	604	13.69	571	13.54	0.15
	Sub Total (A)	10282	8804	9481	9404	210.81	8784	210.19	0.62
B. NPC	NAPS	440	254	285	295	6.05	252	6.10	-0.05
	RAPS- B	440	388	428	430	9.31	388	9.31	0.00
	RAPS- C	440	200	220	221	4.71	196	4.80	-0.09
	Sub Total (B)	1320	842	933	946	20.07	836	20.21	-0.14
C. NHPC	Chamera I HPS	540	534	540	540	7.83	326	7.73	0.11
	Chamera II HPS	300	297	299	301	7.18	299	6.99	0.20
	Chamera III HPS	231		78	70	2.33	97		2.33
	Bairasuil HPS	180	182	120	182	2.65	110	2.38	0.27
	Salal-HPS	690	598	659	612	14.45	602	14.34	0.11
	Tanakpur-HPS	94	36	55	45	1.13	47	1.01	0.12
	Uri-HPS	480	476	479	480	11.48	478	11.60	-0.12
	Dhauliganga-HPS	280	277	281	212	4.26	177	4.23	0.03
	Dulhasti-HPS	390	388	407	397	9.40	391	9.34	0.05
	Sewa-II HPS	120	80	56	85	1.31	55	1.21	0.10
	Sub Total (C)	3305	2867	2974	2924	62.01	2584	58.83	3.18
D.NJPC	Nathpa Jhakri	1500	1600	1624	1553	29.41	1225	28.13	1.28
	Sub Total (D)	1500	1600	1624	1553	29.41	1225	28.13	1.28
E. THDC	Tehri HPS	1000	500	123	121	3.06	127	3.00	0.06
	Koteshwar HPS	400	150	199	91	1.59	66	1.60	-0.01
	Sub Total (E)	1400	650	322	212	4.64	194	4.60	0.04
F. BBMB	Bhakra HPS	1480	857	1094	628	20.60	858	20.58	0.02
	Dehar HPS	990	462	660	420	11.68	487	11.08	0.60
	Pong HPS	396	242	342	180	6.05	252	5.80	0.25
	Sub Total (F)	2866	1561	2096	1228	38.33	1597	37.46	0.87
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	99	105	2.30	96	3.88	-1.59
	KWHEP HPS(IPP)	1000	0	691	763	17.00	709	18.76	-1.75
	Malana Stg-II HPS	100	0	41	49	0.99	41	0.00	0.99
	Shree Cement TPS	300	0	137	0	1.92	80	1.24	0.68
	Budhil HPS(IPP)	70	0	70	35	1.05	44		1.05
	Sub Total (G)	1662	0	1038	952	23.26	969	23.88	-0.62
H. Total Regional Entities (A-G)		22336	16323	18468	17219	388.54	16189	383.30	5.24

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	1250	1250	27.93	1164	
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.47	186	
	Guru Hargobind Singh TPS(L.mbt)	920	950	956	21.03	876	
	Thermal (Total)	2620	2410	2416	53.42	2226	
	Total Hydro	1148	785	716	18.33	764	
	Total Punjab	3768	3195	3132	71.75	2990	
Haryana	Panipat TPS	1367	1117	1122	27.26	1136	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	359	372	8.76	365	
	RGTPP (kheadar) (IPP)	1200	502	539	12.59	525	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1978	2033	48.62	2026	
	Total Hydro	62	21	24	0.69	29	
	Total Haryana	5006	1999	2057	49.31	2055	
	Rajasthan	kota TPS	1240	963	938	23.18	966
suratgarh TPS		1500	1128	1135	26.78	1116	
Chabra TPS		500	207	0	1.66	69	
Dholpur GPS		330	167	160	2.51	105	
Ramgarh GPS		111	55	55	1.37	57	
RAPS A (NPC)		300	175	175	4.14	173	
Barsingsar (NLC)		250	180	177	4.57	191	
Giral LTPS		250	44	0	0.71	30	
Rajwest LTPS (IPP)		540	430	385	10.23	426	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3349	3025	75.16	3132	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	315	174	3.20	134	
Biomass		91	45	45	1.07	45	
Solar		128	0	0	0.24	10	
Renewable/Others (Total)		2062	360	219	4.52	188	
Total Rajasthan		7767	3709	3244	79.68	3320	
UP		Anpara TPS	1630	655	610	15.50	646
		Obra TPS	1382	371	361	9.00	375
		Paricha TPS	890	460	543	11.40	475
	Panki TPS	210	158	95	3.30	138	
	Harduaganj TPS	665	34	34	1.10	46	
	Tanda TPS (NTPC)	440	287	289	7.13	297	
	Roza TPS (IPP)	1200	824	824	19.72	822	
	Anpara-C (IPP)	1200	554	569	11.91	496	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	261	311	6.66	278	
	Thermal (Total)	8067	3604	3636	85.71	3571	
	Vishnuparyag HPS (IPP)	400	431	436	10.45	435	
	Other Hydro	527	209	0	4.68	195	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4444	4272	105.64	3966	
	Uttarakhand	Total Hydro	1303	742	693	17.35	723
Total Uttarakhand		1303	742	693	17.35	723	
Delhi	Rajghat TPS	135	104	101	2.37	99	
	Delhi Gas Turbine	282	211	185	4.55	190	
	Pragati Gas Turbine	330	271	282	6.61	276	
	Rithala GPS	108	22	22	0.54	23	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	420	425	9.20	383	
	Thermal (Total)	2237	1028	1015	23.26	969	
	Total Delhi	2237	1028	1015	23.26	969	
HP	Baspa HPS (IPP)	330	229	229	5.41	226	
	Malana HPS (IPP)	86	32	39	0.85	35	
	Other Hydro	589	344	300	7.95	331	
	Total HP	1005	605	568	14	592	
J & K	Baglihar HPS (IPP)	450	435	437	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	634	15.00	625	
Total State Control Area Generation		32017	16335	15615	376.20	15240	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1772	3343	72.56	3023	
Total Regional Availability(Gross)		54353	36575	36177	837.30	34452	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7847	6834	154.68	6445
State Control Area Hydro	5368	2975	2635	70.27	2928
Total Regional Hydro	15731	10822	9469	224.95	9373

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	100	500	0	5.20	0.00	5.20
Gwalior-Agra (D/C)	0	1256	1464	0	25.88	0.00	25.88
Zerda-Kankroli	194	153	232	0	3.58	0.00	3.58
Zerda-Bhinmal	214	242	350	0	4.86	0.00	4.86
Malanpur-Auraiya	-63	18	0	85	0.00	0.20	-0.20
Badod-Kota/Morak	50	22	71	0	0.91	0.00	0.91
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	895	1791			40.43	0.20	40.23
Pusauli Bypass	-217	-52	31	259	0.04	2.75	-2.71
MZP- GKP (D/C)	224	418	636	0	9.65	0.00	9.65
Patna-Balia(D/C)	518	617	682	0	12.60	0.00	12.60
B'Sharif-Balia (D/C)	303	435	515	0	8.61	0.00	8.61
Barh - Balia(D/C)	0	0	352	0	2.14	0.00	2.14
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	-19	56	67	67	0.18	0.00	0.18
Pusauli-Sahupuri	110	107	172	0	2.87	0.00	2.87
K'nasa-Sahupuri	0	0	0	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	877	1552			36.10	3.76	32.34
Total IR Exch	1772	3343			76.53	3.97	72.56

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
25.10	0.80	25.90	-3.87	28.05	-5.46	0.44	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
17.65	27.84	45.49	32.34	40.23	72.56	14.69	12.39	27.07

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	7.20	18.30	47.10	79.10	52.90	20.90	0.60	0.00
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.10	18.05	48.79	10.28	49.48	3.49	0.27	50.01	0.00

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	411	00:00	400	09:20	0.0	0.0	0.0	0.0
Gorakhpur	400	430	22:04	403	10:48	0.0	0.0	46.6	0.0
Bareilly	400	418	19:03	388	08:54	0.0	0.1	0.0	0.0
Kanpur	400	416	12:01	397	03:13	0.0	0.0	0.0	0.0
Dadri	400	408	12:01	391	08:52	0.0	0.0	0.0	0.0
Ballabgarh	400	415	19:01	394	08:52	0.0	0.0	0.0	0.0
Bawana	400	410	06:02	393	08:53	0.0	0.0	0.0	0.0
Bassi	400	421	21:59	395	08:12	0.0	0.0	0.1	0.0
Hissar	400	405	06:59	385	13:50	0.0	10.0	0.0	0.0
Moga	400	412	21:59	387	14:15	0.0	4.8	0.0	0.0
Abdullapur	400	412	16:56	396	08:52	0.0	0.0	0.0	0.0
Nalagarh	400	410	16:56	394	14:16	0.0	0.0	0.0	0.0
Kishenpur	400	409	06:08	394	14:15	0.0	0.0	0.0	0.0
Wagoora	400	400	01:24	388	10:05	0.0	0.8	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	467.84	234.83	479.07	441.00	413.62	744.51
Pong	426.72	384.05	398.44	185.67	411.52	544.90	65.07	329.72
Tehri	829.79	740.04	740.70	4.00	818.65	982.26	163.20	112.00
Koteshwar	612.50	598.50	607.75	3.54	NA	NA	112.00	129.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	212.70	166.96
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 13.06.2012 :
1. Hot weather

XII. Synchronisation of new generating units :
0.00

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 : 13.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER