

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.06.2012
Date of Reporting : 16.06.2012

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
35544	4269	39813	49.85	36759	3351	40110	49.86	875.7	91.77

* 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	48.71	18.52		67.23	100.83	112.46	11.63	179.68	21.39
Haryana	48.52	0.64		49.16	57.46	74.77	17.31	123.93	20.45
Rajasthan	75.16	0.74	17.84	93.75	50.07	47.13	-2.95	140.87	1.50
Delhi	29.81			29.81	84.02	77.92	-6.10	107.73	0.28
UP	89.16	15.17	4.80	109.13	103.01	120.59	17.58	229.72	43.39
Uttarakhand		19.02		19.02	13.19	14.25	1.06	33.27	1.52
HP		16.77		16.77	7.89	7.15	-0.74	23.92	0.29
J & K		15.02	0.00	15.02	13.06	15.46	2.40	30.48	2.95
Chandigarh				0.00	6.71	6.13	-0.58	6.13	0.00
Total	291.36	85.88	22.64	399.89	436.23	475.84	39.61	875.73	91.77

* 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	7722	1097	410	1816	7261	1059	215	1790	43.16
Haryana	5009	1230	476	270	4869	960	520	277	6.51
Rajasthan	5547	0	-319	-203	6390	42	221	-203	-4.89
Delhi	4532	0	-76	453	3932	0	-475	353	11.13
UP	8964	1550	456	0	10659	1190	1117	0	1.20
Uttarakhand	1442	230	-31	10	1430	0	141	10	0.25
HP	767	12	-298	-1286	931	0	163	-1045	-26.25
J&K	1302	150	47	-545	1058	100	-52	-545	-13.32
Chandigarh	259	0	-39	40	229	0	-3	20	1.20
Total	35544	4269	626	555	36759	3351	1847	658	19.00

* 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	1730	1870	1864	42.13	1755	41.52	0.61
	Rihand I STPS	1000	891	981	968	21.47	895	21.38	0.09
	Rihand II STPS	1000	970	1046	1041	23.46	977	23.28	0.18
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	793	876	868	18.97	790	19.04	-0.07
	Dadri II STPS	980	963	1021	1017	23.00	958	23.12	-0.11
	Unchahar I TPS	420	403	441	443	9.69	404	9.67	0.01
	Unchahar II TPS	420	404	438	441	9.73	405	9.70	0.03
	Unchahar III TPS	210	201	217	219	4.83	201	4.82	0.00
	ISTPP (Jhajhar)	1000	940	1004	955	22.19	925	22.47	-0.28
	Dadri GPS	830	735	688	747	16.43	685	16.44	-0.02
	Anta GPS	419	382	361	375	8.23	343	8.01	0.22
	Auraiya GPS	663	574	577	591	13.22	551	12.66	0.55
	Sub Total (A)	10282	8986	9520	9529	213.32	8888	212.11	1.21
B. NPC	NAPS	440	251	291	297	6.16	257	6.02	0.13
	RAPS- B	440	388	425	435	9.30	388	9.31	-0.01
	RAPS- C	440	200	220	234	4.98	207	4.80	0.18
	Sub Total (B)	1320	839	936	966	20.44	852	20.14	0.30
C. NHPC	Chamera I HPS	540	534	540	540	10.74	447	10.77	-0.03
	Chamera II HPS	300	300	301	301	7.17	299	7.19	-0.02
	Chamera III HPS	231		140	70	3.60	150		3.60
	Bairasuil HPS	180	182	120	120	2.74	114	2.60	0.14
	Salal-HPS	690	661	661	658	15.70	654	15.68	0.01
	Tanakpur-HPS	94	49	72	46	1.34	56	1.33	0.01
	Uri-HPS	480	476	479	479	11.57	482	11.62	-0.05
	Dhauliganga-HPS	280	277	281	281	5.24	218	5.33	-0.09
	Dulhasti-HPS	390	386	415	402	9.20	383	9.44	-0.24
	Sewa-II HPS	120	73	86	81	1.23	51	1.18	0.05
	Sub Total (C)	3305	2938	3095	2978	68.51	2855	65.14	3.37
D.NJPC	Nathpa Jhakri	1500	1600	1627	756	26.75	1115	26.69	0.07
	Sub Total (D)	1500	1600	1627	756	26.75	1115	26.69	0.07
E. THDC	Tehri HPS	1000	500	120	120	3.04	127	3.00	0.04
	Koteshwar HPS	400	191	105	86	1.15	48	1.30	-0.15
	Sub Total (E)	1400	691	225	206	4.19	175	4.30	-0.11
F. BBMB	Bhakra HPS	1480	865	1102	755	21.29	887	20.76	0.53
	Dehar HPS	990	498	825	280	12.98	541	11.94	1.04
	Pong HPS	396	237	336	177	5.90	246	5.70	0.20
	Sub Total (F)	2866	1600	2263	1212	40.17	1674	38.40	1.77
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	185	131	3.06	127	3.88	-0.83
	KWHEP HPS(IPP)	1000	0	900	600	15.91	663	17.74	-1.83
	Malana Stg-II HPS	100	0	75	61	1.43	60	0.00	1.43
	Shree Cement TPS	300	0	150	148	3.42	143	3.16	0.26
	Budhil HPS(IPP)	70		69	70	1.34	56		1.34
	Sub Total (G)	1662	0	1379	1010	25.16	1048	24.78	0.37
H. Total Regional Entities (A-G)		22336	16654	19045	16657	398.54	16606	391.56	6.98

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	23.37	974	
	Guru Nanak Dev TPS(Bhatinda)	440	207	210	4.42	184	
	Guru Hargobind Singh TPS(L.mbt)	920	943	957	20.92	871	
	Thermal (Total)	2620	2195	2212	48.71	2029	
	Total Hydro	1148	769	769	18.52	772	
	Total Punjab	3768	2964	2981	67.23	2801	
Haryana	Panipat TPS	1367	1114	1137	26.54	1106	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	356	371	8.72	363	
	RGTPP (khedar) (IPP)	1200	536	542	13.26	552	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2006	2050	48.52	2022	
	Total Hydro	62	19	18	0.64	27	
		Total Haryana	5006	2025	2068	49.16	2048
	Rajasthan	kota TPS	1240	964	974	22.83	951
suratgarh TPS		1500	1124	1138	26.64	1110	
Chabra TPS		500	220	221	4.99	208	
Dholpur GPS		330	147	95	2.36	98	
Ramgarh GPS		111	55	54	1.36	57	
RAPS A (NPC)		300	181	173	3.93	164	
Barsingsar (NLC)		250	182	194	4.64	194	
Giral LTPS		250	60	55	1.23	51	
Rajwest LTPS (IPP)		540	351	379	7.18	299	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3284	3283	75.16	3132	
Total Hydro		550	0	76	0.74	31	
Wind power		1843	499	816	15.88	662	
Biomass		91	37	37	0.89	37	
Solar		128	0	0	0.33	14	
Renewable/Others (Total)		2062	536	853	17.84	743	
		Total Rajasthan	7767	3820	4212	93.75	3906
UP		Anpara TPS	1630	1121	1018	22.50	938
		Obra TPS	1382	329	353	6.60	275
		Paricha TPS	890	642	540	12.80	533
	Panki TPS	210	125	70	1.80	75	
	Harduaganj TPS	665	36	38	0.80	33	
	Tanda TPS (NTPC)	440	185	289	5.27	220	
	Roza TPS (IPP)	1200	821	824	19.68	820	
	Anpara-C (IPP)	1200	596	652	14.41	600	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	229	229	5.31	221	
	Thermal (Total)	8067	4084	4013	89.16	3715	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	233	0	4.71	196	
	Cogeneration	981	200	200	4.80	200	
		Total UP	9975	4953	4649	109.13	4111
Uttarakhand	Total Hydro	1303	869	752	19.02	793	
	Total Uttarakhand	1303	869	752	19.02	793	
Delhi	Rajghat TPS	135	102	103	2.70	113	
	Delhi Gas Turbine	282	212	219	5.19	216	
	Pragati Gas Turbine	330	270	280	6.80	283	
	Rithala GPS	108	22	22	0.57	24	
	Bawana GPS	677	243	22	5.79	241	
	Badarpur TPS (NTPC)	705	420	405	8.76	365	
	Thermal (Total)	2237	1269	1051	29.81	1242	
		Total Delhi	2237	1269	1051	29.81	1242
HP	Baspa HPS (IPP)	330	332	282	6.65	277	
	Malana HPS (IPP)	86	51	26	1.21	51	
	Other Hydro	589	366	379	8.91	371	
		Total HP	1005	749	687	17	699
J & K	Baglihar HPS (IPP)	450	436	437	10.47	436	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	614	634	15.02	626
Total State Control Area Generation		32017	17263	17034	399.89	16226	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1204	4299	84.95	3540	
Total Regional Availability(Gross)		54353	37512	37990	883.38	36372	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8370	5944	160.02	6667
State Control Area Hydro	5368	3253	2936	75.42	3143
Total Regional Hydro	15731	11623	8880	235.44	9810

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	400	500	0	11.40	0.00	11.40
Gwalior-Agra (D/C)	248	1395	1682	0	28.75	0.00	28.75
Zerda-Kankroli	21	271	350	0	4.41	0.00	4.41
Zerda-Bhinmal	35	264	384	33	4.49	0.00	4.49
Malanpur-Auraiya	-59	35	38	109	0.19	0.00	0.19
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	745	2365			49.24	0.00	49.24
Pusauli Bypass	-307	-24	1	375	0.01	3.38	-3.37
MZP- GKP (D/C)	300	554	664	0	11.63	0.00	11.63
Patna-Balia(D/C)	255	369	410	0	7.68	0.00	7.68
B'Sharif-Balia (D/C)	118	430	491	0	7.75	0.00	7.75
Barh - Balia(D/C)	0	365	503	0	7.48	0.00	7.48
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	-12	149	186	19	1.84	0.00	1.84
Pusauli-Sahupuri	147	120	182	0	3.74	0.00	3.74
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.02	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	459	1934			40.11	4.40	35.71
Total IR Exch	1204	4299			89.35	4.40	84.95

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	Butan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
25.33	0.71	26.04	-8.77	27.36	0.36	13.86	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
18.71	39.65	58.36	35.71	49.24	84.95	17.00	9.59	26.59

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	14.00	45.60	85.00	53.40	9.50	1.00

<----- 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)		
50.38	6.04	49.03	23.34	49.72	1.22	0.21	50.27	49.37

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	402	06:02	396	11:19	0.0	0.0	0.0	0.0
Gorakhpur	400	425	06:09	400	11:20	0.0	0.0	6.9	0.0
Bareilly	400	417	18:49	389	08:11	0.0	0.2	0.0	0.0
Kanpur	400	413	18:48	391	01:46	0.0	0.0	0.0	0.0
Dadri	400	411	19:01	390	08:08	0.0	0.0	0.0	0.0
Ballabgarh	400	418	18:49	390	16:13	0.0	0.0	0.0	0.0
Bawana	400	414	18:49	391	16:13	0.0	0.0	0.0	0.0
Bassi	400	426	18:49	385	08:10	0.0	6.4	2.9	0.0
Hissar	400	409	18:50	378	08:10	0.3	24.7	0.0	0.0
Moga	400	413	19:00	383	10:12	0.0	11.8	0.0	0.0
Abdullapur	400	421	18:04	392	11:12	0.0	0.0	0.3	0.0
Nalagarh	400	419	19:00	394	10:00	0.0	0.0	0.0	0.0
Kishenpur	400	410	18:57	393	09:31	0.0	0.0	0.0	0.0
Wagoora	400	404	18:55	387	09:23	0.0	4.9	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	467.04	221.60	479.16	441.00	513.70	788.77
Pong	426.72	384.05	397.92	179.94	411.51	544.90	75.55	441.97
Tehri	829.79	740.04	740.90	4.65	818.65	982.26	175.65	110.00
Koteshwar	612.50	598.50	607.75	3.54	NA	NA	112.00	129.00
Chamera-I	760.00	748.75	751.97	NA	NA	NA	212.70	240.53
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 15.06.2012 :
1. Hot dry 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 : 15.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER