

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 14.06.2012
Date of Reporting : 15.06.2012

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
34068	4848	38916	49.59	36703	2681	39384	49.77	850.7	108.93

* 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	51.07	18.39		69.45	98.22	106.22	8.00	175.67	18.46
Haryana	48.99	0.65		49.64	59.73	64.98	5.25	114.62	22.85
Rajasthan	76.21	0.08	9.64	85.93	44.96	48.49	3.53	134.42	6.89
Delhi	23.98			23.98	81.85	80.21	-1.65	104.19	1.04
UP	89.82	14.65	4.80	109.28	105.72	124.09	18.37	233.36	50.26
Uttarakhand		17.20		17.20	12.60	14.18	1.58	31.38	3.71
HP		13.97		13.97	6.16	8.02	1.87	22.00	2.78
J & K		15.00	0.00	15.00	12.87	14.17	1.30	29.17	2.95
Chandigarh				0.00	6.65	5.94	-0.71	5.94	0.00
Total	290.07	79.94	14.44	384.45	428.74	466.28	37.54	850.73	108.93

* 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	STOA/PX transaction
Punjab	7248	1316	99	1724	7703	200	359	1724		41.38
Haryana	4787	1043	199	427	4867	1044	343	427		10.24
Rajasthan	5804	191	508	-138	5890	60	158	37		-2.72
Delhi	4329	9	-49	453	4275	0	-117	353		11.13
UP	8169	1965	-198	0	10417	1170	289	0		1.20
Uttarakhand	1308	160	100	10	1408	80	215	10		0.25
HP	815	14	-190	-959	910	27	24	-935		-22.41
J&K	1356	150	109	-545	1009	100	-152	-545		-13.32
Chandigarh	252	0	-38	40	224	0	-33	20		1.20
Total	34068	4848	540	1012	36703	2681	1086	1092		26.96

* 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	1880	1864	41.98	1749	41.52	0.46
	Rihand I STPS	1000	885	962	979	21.35	890	21.23	0.12
	Rihand II STPS	1000	970	1037	1036	23.48	978	23.28	0.20
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	795	878	871	19.28	803	19.07	0.21
	Dadri II STPS	980	963	1011	1030	23.29	971	23.12	0.18
	Unchahar I TPS	420	403	437	441	9.72	405	9.67	0.05
	Unchahar II TPS	420	404	439	439	9.74	406	9.70	0.04
	Unchahar III TPS	210	201	220	220	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	941	996	987	22.59	941	22.49	0.10
	Dadri GPS	830	726	726	708	16.67	694	16.82	-0.15
	Anta GPS	419	383	387	379	8.95	373	8.79	0.16
	Auraiya GPS	663	574	581	594	13.51	563	13.14	0.37
	Sub Total (A)	10282	8973	9554	9548	215.39	8975	213.65	1.74
B. NPC	NAPS	440	254	285	295	6.05	252	6.10	-0.05
	RAPS- B	440	388	429	431	9.34	389	9.31	0.02
	RAPS- C	440	200	220	228	4.82	201	4.80	0.02
	Sub Total (B)	1320	842	934	954	20.20	842	20.21	-0.01
C. NHPC	Chamera I HPS	540	534	540	540	9.79	408	9.75	0.04
	Chamera II HPS	300	300	301	302	7.19	300	7.20	-0.01
	Chamera III HPS	231		148	70	3.64	152		3.64
	Bairasuil HPS	180	182	122	120	2.75	114	2.49	0.25
	Salal-HPS	690	653	660	662	15.82	659	15.67	0.15
	Tanakpur-HPS	94	40	56	37	1.26	52	1.13	0.13
	Uri-HPS	480	476	479	479	11.60	483	11.62	-0.02
	Dhauliganga-HPS	280	277	284	279	4.32	180	4.30	0.02
	Dulhasti-HPS	390	386	416	413	9.56	398	9.69	-0.13
	Sewa-II HPS	120	80	85	81	1.24	52	1.20	0.04
	Sub Total (C)	3305	2928	3091	2983	67.17	2799	63.06	4.11
D.NJPC	Nathpa Jhakri	1500	1600	1524	1507	26.28	1095	26.46	-0.18
	Sub Total (D)	1500	1600	1524	1507	26.28	1095	26.46	-0.18
E. THDC	Tehri HPS	1000	500	0	120	3.05	127	3.00	0.05
	Koteshwar HPS	400	200	92	86	1.52	63	1.50	0.02
	Sub Total (E)	1400	700	92	206	4.57	191	4.50	0.07
F. BBMB	Bhakra HPS	1480	857	1112	737	20.72	863	20.56	0.16
	Dehar HPS	990	472	660	420	11.60	483	11.34	0.26
	Pong HPS	396	249	336	288	6.07	253	5.97	0.10
	Sub Total (F)	2866	1578	2108	1445	38.39	1600	37.87	0.52
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	151	93	2.52	105	3.88	-1.37
	KWHEP HPS(IPP)	1000	0	600	505	14.58	607	17.36	-2.79
	Malana Stg-II HPS	100	0	54	44	1.10	46	0.00	1.10
	Shree Cement TPS	300	0	154	141	3.50	146	2.79	0.71
	Budhil HPS(IPP)	70		68	70	1.28	53		1.28
	Sub Total (G)	1662	0	1027	853	22.97	957	24.03	-1.07
H. Total Regional Entities (A-G)		22336	16621	18330	17496	394.97	16457	389.79	5.19

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	1250	25.43	1060	
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.46	186	
	Guru Hargobind Singh TPS(L.mbt)	920	959	956	21.18	882	
	Thermal (Total)	2620	2214	2416	51.07	2128	
	Total Hydro	1148	769	784	18.39	766	
	Total Punjab	3768	2983	3200	69.45	2894	
Haryana	Panipat TPS	1367	1113	1135	27.35	1139	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	359	367	8.74	364	
	RGTPP (khedar) (IPP)	1200	579	497	12.90	538	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2051	1999	48.99	2041	
	Total Hydro	62	19	21	0.65	27	
	Total Haryana	5006	2070	2020	49.64	2068	
	Rajasthan	kota TPS	1240	968	941	22.62	942
suratgarh TPS		1500	1130	1105	26.77	1115	
Chabra TPS		500	221	216	5.03	209	
Dholpur GPS		330	95	95	2.56	107	
Ramgarh GPS		111	54	54	1.36	57	
RAPS A (NPC)		300	172	175	4.13	172	
Barsingsar (NLC)		250	194	180	4.59	191	
Giral LTPS		250	55	44	1.26	52	
Rajwest LTPS (IPP)		540	379	430	7.90	329	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3268	3240	76.21	3176	
Total Hydro		550	0	0	0.08	3	
Wind power		1843	90	491	8.23	343	
Biomass		91	44	44	1.04	44	
Solar		128	0	0	0.29	12	
Renewable/Others (Total)		2062	134	535	9.64	402	
Total Rajasthan		7767	3402	3775	85.93	3580	
UP		Anpara TPS	1630	714	708	14.90	621
		Obra TPS	1382	257	392	7.40	308
		Paricha TPS	890	651	603	12.80	533
	Panki TPS	210	165	170	3.60	150	
	Harduaganj TPS	665	189	170	4.30	179	
	Tanda TPS (NTPC)	440	291	287	7.15	298	
	Roza TPS (IPP)	1200	824	824	19.61	817	
	Anpara-C (IPP)	1200	618	576	13.97	582	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	270	233	6.10	254	
	Thermal (Total)	8067	3979	3963	89.82	3743	
	Vishnuparyag HPS (IPP)	400	437	436	10.20	425	
	Other Hydro	527	202	0	4.46	186	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4818	4599	109.28	4128	
	Uttarakhand	Total Hydro	1303	737	665	17.20	717
Total Uttarakhand		1303	737	665	17.20	717	
Delhi	Rajghat TPS	135	104	101	2.39	99	
	Delhi Gas Turbine	282	211	218	5.12	213	
	Pragati Gas Turbine	330	270	278	6.63	276	
	Rithala GPS	108	21	22	0.54	22	
	Bawana GPS	677	25	0	0.14	6	
	Badarpur TPS (NTPC)	705	430	425	9.18	383	
	Thermal (Total)	2237	1061	1044	23.98	999	
	Total Delhi	2237	1061	1044	23.98	999	
HP	Baspa HPS (IPP)	330	323	196	5.19	216	
	Malana HPS (IPP)	86	66	37	0.85	36	
	Other Hydro	589	313	317	7.93	331	
	Total HP	1005	702	550	14	582	
J & K	Baglihar HPS (IPP)	450	436	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	614	634	15.00	625	
Total State Control Area Generation		32017	16387	16487	384.45	15594	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1885	3490	81.61	3401	
Total Regional Availability(Gross)		54353	36602	37473	861.04	35452	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7620	6783	154.60	6442
State Control Area Hydro	5368	3043	2654	69.74	2906
Total Regional Hydro	15731	10663	9437	224.35	9348

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	300	300	500	0	8.09	0.00	8.09
Gwalior-Agra (D/C)	610	1136	1566	0	26.89	0.00	26.89
Zerda-Kankroli	99	193	284	0	3.88	0.00	3.88
Zerda-Bhinmal	146	201	363	4	4.69	0.00	4.69
Malanpur-Auraiya	10	8	49	66	0.10	0.00	0.10
Badod-Kota/Morak	0	44	44	0	0.30	0.00	0.30
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1165	1882			43.94	0.00	43.94
Pusauli Bypass	-210	-100	15	265	0.03	2.76	-2.73
MZP- GKP (D/C)	170	486	616	0	10.72	0.00	10.72
Patna-Balia(D/C)	329	618	708	0	12.87	0.00	12.87
B'Sharif-Balia (D/C)	202	423	515	0	8.75	0.00	8.75
Barh - Balia(D/C)	0	0	309	0	2.53	0.00	2.53
Pusauli-Balia	0	0	96	0	0.22	0.00	0.22
Gaya-Fatehpur (765 Kv)	84	94	168	0	2.09	0.00	2.09
Pusauli-Sahupuri	187	116	211	0	4.26	0.00	4.26
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	720	1608			41.46	3.79	37.67
Total IR Exch	1885	3490			85.41	3.79	81.61

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
24.74	0.71	25.45	-3.39	32.89	-5.09	3.20	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
18.05	34.52	52.57	37.67	43.94	81.61	19.62	9.42	29.05

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	0.80	3.70	28.40	72.20	71.50	27.70	1.40	0.10

<----- 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)		
50.20	18.33	48.92	10.50	49.58	2.13	0.20	50.03	49.09

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	407	18:30	398	04:51	0.0	0.0	0.0	0.0
Gorakhpur	400	430	18:47	402	10:14	0.0	0.0	26.2	0.0
Bareilly	400	418	18:32	391	04:51	0.0	0.0	0.0	0.0
Kanpur	400	418	19:20	396	04:50	0.0	0.0	0.0	0.0
Dadri	400	412	18:32	393	08:23	0.0	0.0	0.0	0.0
Ballabgarh	400	419	18:36	397	08:24	0.0	0.0	0.0	0.0
Bawana	400	413	19:19	394	08:24	0.0	0.0	0.0	0.0
Bassi	400	430	12:03	390	04:51	0.0	0.0	3.2	0.0
Hissar	400	409	18:35	385	08:25	0.0	5.8	0.0	0.0
Moga	400	410	21:50	388	10:48	0.0	0.5	0.0	0.0
Abdullapur	400	424	18:34	395	08:24	0.0	0.0	0.8	0.0
Nalagarh	400	411	06:03	394	08:25	0.0	0.0	0.0	0.0
Kishenpur	400	408	18:33	396	09:42	0.0	0.0	0.0	0.0
Wagoora	400	401	02:33	389	22:02	0.0	0.1	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
Koteswar	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 14.06.2012 :
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 : 14.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER