

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.06.2012
Date of Reporting : 19.06.2012

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
36832	1953	38784	49.75	39443	2215	41658	49.97	901.7	58.84

* 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	44.43	16.21		60.64	108.45	123.92	15.46	184.55	10.37
Haryana	45.64	0.93		46.57	59.13	82.35	23.22	128.92	4.39
Rajasthan	69.01	0.00	22.05	91.05	55.38	58.60	3.22	149.65	0.00
Delhi	27.76			27.76	83.80	77.01	-6.79	104.76	0.28
UP	94.16	14.86	4.80	113.82	97.53	125.31	27.78	239.13	40.30
Uttarakhand		22.24		22.24	14.54	12.62	-1.92	34.86	0.36
HP		18.45		18.45	9.21	5.03	-4.18	23.48	0.19
J & K		15.02	0.00	15.02	13.80	15.43	1.63	30.44	2.95
Chandigarh				0.00	6.93	5.87	-1.06	5.87	0.00
Total	280.99	87.70	26.85	395.54	448.76	506.13	57.36	901.66	58.84

* 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	8304	550	993	1977	7979	250	949	1977	48.65
Haryana	5692	0	1216	160	5567	0	1157	300	5.09
Rajasthan	5868	0	-137	-54	6712	0	295	-54	-1.30
Delhi	4186	36	-339	545	4454	0	-187	435	13.96
UP	8724	1200	187	0	11210	1865	1420	0	1.20
Uttarakhand	1587	0	-9	30	1317	0	-36	30	0.73
HP	867	17	-274	-1013	880	0	-250	-989	-24.11
J&K	1346	150	64	-575	1081	100	-84	-575	-14.04
Chandigarh	258	0	-38	40	242	0	-19	20	1.20
Total	36832	1953	1664	1110	39443	2215	3245	1145	31.39

* 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	1194	1339	1348	28.93	1205	28.66	0.28
	Rihand I STPS	1000	890	978	976	21.51	896	21.36	0.15
	Rihand II STPS	1000	964	1025	1043	23.09	962	23.15	-0.06
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	793	860	856	18.20	758	18.62	-0.42
	Dadri II STPS	980	963	1017	1001	22.53	939	23.09	-0.57
	Unchahar I TPS	420	399	434	439	9.57	399	9.58	-0.01
	Unchahar II TPS	420	404	436	440	9.59	400	9.70	-0.10
	Unchahar III TPS	210	201	220	222	4.79	200	4.82	-0.03
	ISTPP (Jhajjar)	1000	940	861	718	18.78	783	17.98	0.80
	Dadri GPS	830	766	628	680	14.52	605	14.64	-0.12
	Anta GPS	419	383	278	311	6.92	288	6.91	0.01
	Auraiya GPS	663	574	423	515	10.58	441	10.55	0.03
	Sub Total (A)	10282	8471	8499	8549	189.01	7875	189.06	-0.05
B. NPC	NAPS	440	253	294	292	6.18	257	6.07	0.11
	RAPS- B	440	389	435	435	9.35	390	9.34	0.01
	RAPS- C	440	200	215	229	4.81	201	4.80	0.01
	Sub Total (B)	1320	842	944	956	20.34	848	20.21	0.13
C. NHPC	Chamera I HPS	540	534	540	540	11.80	492	12.03	-0.23
	Chamera II HPS	300	300	300	300	7.17	299	7.22	-0.05
	Chamera III HPS	231		153	154	3.66	153		3.66
	Bairasuil HPS	180	182	120	120	2.89	121	3.09	-0.20
	Salal-HPS	690	661	662	664	15.84	660	15.87	-0.04
	Tanakpur-HPS	94	71	80	67	1.81	76	1.88	-0.07
	Uri-HPS	480	476	479	478	11.53	480	11.57	-0.04
	Dhauliganga-HPS	280	277	285	280	6.67	278	6.70	-0.03
	Dulhasti-HPS	390	387	410	355	8.99	375	9.21	-0.22
	Sewa-II HPS	120	80	85	81	1.19	50	1.20	-0.01
	Sub Total (C)	3305	2968	3114	3039	71.54	2981	68.77	2.77
D.NJPC	Nathpa Jhakri	1500	1600	1615	1620	38.47	1603	38.39	0.07
	Sub Total (D)	1500	1600	1615	1620	38.47	1603	38.39	0.07
E. THDC	Tehri HPS	1000	500	241	482	4.96	207	5.00	-0.04
	Koteshwar HPS	400	153	194	193	2.93	122	3.10	-0.17
	Sub Total (E)	1400	653	435	675	7.89	329	8.10	-0.21
F. BBMB	Bhakra HPS	1480	897	1087	871	21.94	914	21.54	0.40
	Dehar HPS	990	611	825	610	15.29	637	14.67	0.62
	Pong HPS	396	249	330	230	6.03	251	5.97	0.06
	Sub Total (F)	2866	1757	2242	1711	43.26	1803	42.18	1.08
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	211	201	4.20	175	3.54	0.66
	KWHEP HPS(IPP)	1000	0	1102	1050	26.79	1116	26.35	0.44
	Malana Stg-II HPS	100	0	85	77	1.65	69	0.00	1.65
	Shree Cement TPS	300	0	128	142	2.96	124	2.64	0.33
	Budhil HPS(IPP)	70		69	69	1.41	59		1.41
	Sub Total (G)	1662	0	1595	1539	37.01	1542	32.52	4.49
H. Total Regional Entities (A-G)		22336	16290	18444	18089	407.52	16980	399.23	8.29

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	1035	22.97	957
	Guru Nanak Dev TPS(Bhatinda)	440	195	86	2.29	95
	Guru Hargobind Singh TPS(L.mbt)	920	943	762	19.18	799
	Thermal (Total)	2620	2188	1883	44.43	1851
	Total Hydro	1148	783	783	16.21	675
	Total Punjab	3768	2971	2666	60.64	2527
Haryana	Panipat TPS	1367	1048	949	23.43	976
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	380	369	8.91	371
	RGTPP (khedar) (IPP)	1200	545	533	13.30	554
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1973	1851	45.64	1902
	Total Hydro	62	42	34	0.93	39
	Total Haryana	5006	2015	1885	46.57	1940
Rajasthan	kota TPS	1240	952	957	22.47	936
	suratgarh TPS	1500	1118	1130	26.39	1100
	Chabra TPS	500	206	218	4.77	199
	Dholpur GPS	330	170	172	2.70	113
	Ramgarh GPS	111	54	53	1.37	57
	RAPS A (NPC)	300	170	181	3.84	160
	Barsingsar (NLC)	250	85	122	1.97	82
	Giral LTPS	250	72	62	0.74	31
	Rajwest LTPS (IPP)	540	230	231	4.76	198
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3057	3126	69.01	2875
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	684	1008	20.81	867
	Biomass	91	36	36	0.86	36
	Solar	128	0	0	0.38	16
	Renewable/Others (Total)	2062	720	1044	22.05	919
		Total Rajasthan	7767	3777	4170	91.05
UP	Anpara TPS	1630	1012	1102	22.00	917
	Obra TPS	1382	544	522	11.80	492
	Paricha TPS	890	473	430	9.60	400
	Panki TPS	210	75	80	1.50	63
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	286	282	7.07	294
	Roza TPS (IPP)	1200	824	819	19.54	814
	Anpara-C (IPP)	1200	639	598	14.85	619
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	283	322	7.80	325
	Thermal (Total)	8067	4136	4155	94.16	3923
	Vishnuparyag HPS (IPP)	400	436	436	10.43	434
	Other Hydro	527	184	0	4.44	185
	Cogeneration	981	200	200	4.80	200
	Total UP	9975	4956	4791	113.82	4308
Uttarakhand	Total Hydro	1303	974	776	22.24	927
	Total Uttarakhand	1303	974	776	22.24	927
Delhi	Rajghat TPS	135	89	85	2.19	91
	Delhi Gas Turbine	282	145	177	4.08	170
	Pragati Gas Turbine	330	281	278	6.72	280
	Rithala GPS	108	22	22	0.52	22
	Bawana GPS	677	228	239	5.36	223
	Badarpur TPS (NTPC)	705	415	415	8.88	370
	Thermal (Total)	2237	1180	1216	27.76	1157
		Total Delhi	2237	1180	1216	27.76
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	68	74	1.66	69
	Other Hydro	589	377	371	8.87	370
	Total HP	1005	775	775	18	769
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	17262	16913	395.54	16046
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4292	5911	113.71	4738
Total Regional Availability(Gross)		54353	39998	40913	916.77	37764

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8804	8373	193.79	8075
State Control Area Hydro	5368	3372	3002	77.27	3220
Total Regional Hydro	15731	12176	11375	271.07	11294

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	11.99	0.00	11.99
Gwalior-Agra (D/C)	990	1528	1526	0	28.76	0.00	28.76
Zerda-Kankroli	270	470	500	0	5.89	0.00	5.89
Zerda-Bhinmal	283	447	505	41	5.64	0.00	5.64
Malanpur-Auraiya	-46	-83	35	85	0.00	0.59	-0.59
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	1997	2862			52.27	0.59	51.68
Pusauli Bypass	73	154	240	0	3.43	0.00	3.43
MZP- GKP (D/C)	740	982	1028	0	21.26	0.00	21.26
Patna-Balia(D/C)	764	634	772	0	13.90	0.00	13.90
B'Sharif-Balia (D/C)	482	615	725	0	12.33	0.00	12.33
Barh - Balia(D/C)	0	391	624	0	5.32	0.00	5.32
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	131	143	188	0	3.43	0.00	3.43
Pusauli-Sahupuri	147	159	160	0	3.38	0.00	3.38
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	2295	3049			63.05	1.02	62.03
Total IR Exch	4292	5911			115.32	1.61	113.71

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
24.86	1.70	26.56	-2.37	33.59	1.09	3.61	0.00	0.00
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
25.29	38.28	63.57	62.03	51.68	113.71	36.74	13.40	50.14

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	0.00	2.20	15.70	94.20	80.70	21.10	3.60

<----- 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)		
50.47	8.02	49.27	20.10	49.87	0.49	0.18	50.38	49.62

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	404	17:28	394	00:02	0.0	0.0	0.0	0.0
Gorakhpur	400	428	07:34	399	01:45	0.0	0.0	32.0	0.0
Bareilly	400	418	19:06	385	00:09	0.0	2.2	0.0	0.0
Kanpur	400	414	17:22	390	00:06	0.0	0.0	0.0	0.0
Dadri	400	411	07:36	388	00:05	0.0	0.6	0.0	0.0
Ballabgarh	400	416	07:01	392	00:05	0.0	0.0	0.0	0.0
Bawana	400	415	07:35	390	00:06	0.0	0.0	0.0	0.0
Bassi	400	424	17:28	393	00:05	0.0	0.0	5.8	0.0
Hissar	400	412	18:06	383	00:06	0.0	6.6	0.0	0.0
Moga	400	421	17:21	395	01:31	0.0	0.0	0.4	0.0
Abdullapur	400	419	07:36	284	15:45	0.0	0.0	0.0	0.0
Nalagarh	400	407	18:00	393	23:00	0.0	0.0	0.0	0.0
Kishenpur	400	413	07:36	398	22:07	0.0	0.0	0.0	0.0
Wagoora	400	408	04:03	391	22:06	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	465.63	204.14	480.73	474.82	775.94	835.91
Pong	426.72	384.05	396.48	151.67	411.49	544.90	69.15	460.10
Tehri	829.79	740.04	742.35	11.00	818.65	982.26	225.10	176.00
Koteswar	612.50	598.50	605.40	2.46	NA	NA	176.00	194.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	315.62	333.22
Rihand	268.22	252.98	255.00	76.20	254.02	38.60	NA	NA
RPS	352.80	343.81	349.88	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.00	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.52	NA	511.21	NA	277.73	314.71

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.06.2012 :
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 :
1. 400 KV Bawana-Mahendragarh 1st time time charged at 18.50 hrs on 18.06.2012 after LLO work.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 18.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER