

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.06.2014
Date of Reporting : 12.06.2014

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
41213	1593	42806	49.99	44049	2355	46404	50.00	1029.0	49.35

* 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:

UI [OD:(+ve), UD: (-ve)]

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	62.59	17.21		79.80	115.80	113.73	-2.07	193.53	0.49
Haryana	68.37	0.49		68.86	82.66	81.49	-1.17	150.35	0.13
Rajasthan	106.25	0.00	26.40	132.65	66.11	64.83	-1.29	197.48	0.40
Delhi	35.10			35.10	78.58	78.34	-0.24	113.44	1.00
UP	137.62	14.96	1.20	153.78	130.64	128.52	-2.12	282.30	43.98
Uttarakhand		17.33		17.33	18.19	18.87	0.68	36.20	1.01
HP		23.76		23.76	0.23	0.77	0.55	24.53	0.64
J & K		10.52	0.00	10.52	16.22	14.28	-1.94	24.80	1.70
Chandigarh				0.00	5.34	6.37	1.03	6.37	0.00
Total	409.93	84.28	27.60	521.81	513.77	507.19	-6.57	1029.00	49.35

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	7456	0	-684	1639	8646	0	36	1934	40.78	
Haryana	6066	0	-427	-361	6716	0	-57	181	-6.13	
Rajasthan	7013	0	-355	-31	8232	0	15	-12	8.33	
Delhi	4650	43	126	278	4506	0	-243	426	9.69	
UP	12043	1450	-316	804	12305	2355	42	1267	19.35	
Uttarakhand	1659	0	251	225	1507	0	-35	280	6.04	
HP	904	0	-67	-1175	954	0	37	-1325	-28.48	
J&K	1158	100	13	-406	945	0	-25	-784	-13.55	
Chandigarh	264	0	28	0	238	0	51	0	0.55	
Total	41213	1593	-1430	973	44049	2355	-180	1967	36.57	

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

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

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
A. NTPC								
Singrauli STPS	2000	1882	1934	2059	45.00	1875	44.63	0.37
Rihand I STPS	1000	850	900	950	20.10	837	19.69	0.41
Rihand II STPS	1000	465	490	520	10.85	452	10.84	0.00
Rihand III STPS	1000	846	821	915	19.79	825	19.45	0.34
Dadri I STPS	840	813	852	656	17.70	738	18.13	-0.43
Dadri II STPS	980	966	888	744	21.69	904	22.14	-0.45
Unchahar I TPS	420	395	380	414	8.71	363	9.01	-0.30
Unchahar II TPS	420	400	314	426	8.61	359	8.76	-0.15
Unchahar III TPS	210	200	155	211	4.25	177	4.35	-0.10
ISTPP (Jhajjhar)	1500	1450	1450	1212	29.17	1215	29.01	0.16
Dadri GPS	830	793	167	176	3.91	163	4.17	-0.26
Anta GPS	419	384	193	191	4.98	208	4.93	0.06
Auraiya GPS	663	420	117	129	3.16	131	3.22	-0.06
Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
Sub Total (A)	11297	9867	8661	8603	198	8248	198	0
B. NPC								
NAPS	440	266	306	312	6.49	270	6.38	0.10
RAPS- B	440	382	430	427	9.21	384	9.17	0.04
RAPS- C	440	200	220	224	4.77	199	4.80	-0.03
Sub Total (B)	1320	848	956	963	20.46	853	20.35	0.11
C. NHPC								
Chamera I HPS	540	537	540	540	13.02	543	12.89	0.13
Chamera II HPS	300	303	310	314	7.17	299	7.12	0.05
Chamera III HPS	231	229	238	238	5.62	234	5.50	0.13
Bairasui HPS	180	180	180	180	3.95	165	3.86	0.09
Salal-HPS	690	663	675	677	16.20	675	15.91	0.29
Tanakpur-HPS	94	72	87	70	1.78	74	1.71	0.07
Uri-HPS	480	475	475	476	11.50	479	11.40	0.10
Uri-II HPS	240	240	246	242	5.81	242	5.76	0.05
Dhauliganga-HPS	280	64	68	68	1.48	62	1.48	0.00
Dulhasti-HPS	390	387	405	403	9.50	396	9.30	0.20
Sewa-II HPS	120	122	130	130	3.07	128	2.93	0.15
Parbati 3	390	260	260	200	4.25	177	4.11	0.14
Sub Total ©	3935	3532	3614	3538	83	3473	82	1
D. SJVNL								
NJPC	1500	1507	1617	1589	35.88	1495	36.19	-0.31
Rampur HEP	206	206	219	217	4.74	198	4.94	-0.20
Sub Total (D)	1706	1713	1836	1806	40.63	1693	41.13	-0.51
E. THDC								
Tehri HPS	1000	375	373	378	6.06	252	6.00	0.06
Koteshwar HPS	400	138	402	91	3.36	140	3.30	0.06
Sub Total (E)	1400	513	775	469	9.42	392	9.30	0.12
F. BBMB								
Bhakra HPS	1514	739	1212	452	18.01	750	17.74	0.27
Dehar HPS	990	575	635	610	14.53	605	13.80	0.73
Pong HPS	396	217	368	62	5.31	221	5.21	0.11
Sub Total (F)	2900	1531	2215	1124	37.85	1577	36.75	1.10
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	212	204	4.72	197	4.79	-0.07
KWHEP HPS(IPP)	1000	0	1131	1009	26.17	1091	27.97	-1.79
Malana Stg-II HPS	100	0	105	85	1.92	80	1.83	0.09
Shree Cement TPS	300	0	136	135	3.33	139	3.80	-0.48
Budhil HPS(IPP)	70	0	14	14	1.66	69	1.64	0.02
Sub Total (G)	1662	0	1598	1447	37.80	1575	40.03	-2.23
H. Total Regional Entities (A-G)	24221	18003	19655	17950	427.46	17811	427.94	-0.49

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	1260	27	1132
	Guru Nanak Dev TPS(Bhatinda)	440	280	225	6	248
	Guru Hargobind Singh TPS(L.mbt)	920	742	920	20	820
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	328	327	10	407
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2400	2732	63	2608
	Total Hydro	1148	589	932	17.21	717
	Total Punjab	5128	2989	3664	79.80	3325
Haryana	Panipat TPS	1367	986	981	22.77	949
	DCRTPP (Yamuna nagar)	600	279	550	10.27	428
	Faridabad GPS (NTPC)	432	137	120	3.20	133
	RGTPP (khedar) (IPP)	1200	533	545	12.00	500
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	878	900	20.14	839
	Thermal (Total)	4944	2813	3096	68	2849
	Total Hydro	62	20	23	0.49	21
	Total Haryana	5006	2833	3119	68.86	2869
Rajasthan	kota TPS	1240	874	750	18.87	786
	suratgarh TPS	1500	970	1126	25.44	1060
	Chabra TPS	750	553	399	13.19	550
	Dholpur GPS	330	106	106	2.53	106
	Ramgarh GPS	221	96	98	2.48	103
	RAPS A (NPC)	300	170	170	4.36	182
	Barsingsar (NLC)	250	170	125	3.15	131
	Giral LTPS	250	78	53	1.83	76
	Rajwest LTPS (IPP)	1080	502	938	19.98	832
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	586	598	14.43	601
	Thermal (Total)	7976	4105	4363	106	4427
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	1046	1093	25.53	1064
	Biomass	91	40	40	0.36	15
	Solar	201	0	0	0.52	22
Renewable/Others (Total)	2483	1086	1133	26	1100	
Total Rajasthan	11009	5191	5496	132.65	5527	
UP	Anpara TPS	1630	1375	1384	32.40	1350
	Obra TPS	1288	546	528	12.40	517
	Paricha TPS	1140	752	306	13.10	546
	Panki TPS	210	135	126	3.10	129
	Harduaganj TPS	665	405	396	9.50	396
	Tanda TPS (NTPC)	440	277	291	7.04	293
	Roza TPS (IPP)	1200	1116	1080	26.54	1106
	Anpara-C (IPP)	1200	1077	1076	25.57	1065
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	323	363	7.97	332
	Thermal (Total)	8223	6006	5550	138	5734
	Vishnuparyag HPS (IPP)	400	436	435	10.44	435
	Other Hydro	527	196	205	4.51	188
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6688	6240	153.78	5972
Uttarakhand	Total Hydro	1303	716	706	17.33	722
	Total Uttarakhand	1303	716	706	17.33	722
Delhi	Rajghat TPS	135	98	98	2.69	112
	Delhi Gas Turbine	282	167	129	3.67	153
	Pragati Gas Turbine	330	133	138	3.45	144
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	475	450	11.32	472
	Badarpur TPS (NTPC)	705	670	670	13.98	583
	Thermal (Total)	2917	1543	1485	35.10	1463
	Total Delhi	2917	1543	1485	35.10	1463
HP	Baspa HPS (IPP)	300	265	337	7.42	309
	Malana HPS (IPP)	86	87	54	1.75	73
	Other Hydro	728	582	627	14.60	608
	Total HP	1114	934	1018	23.76	990
J & K	Baglihar HPS (IPP)	450	438	440	10.52	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	438	440	10.52	438
Total State Control Area Generation		37702	21332	22168	521.81	21307
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2882	5615	109.50	4562
Total Regional Availability(Gross)		61923	43869	45733	1058.76	43680

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9888	8235	204.06	8502
State Control Area Hydro	5589	2893	3324	84.28	3076
Total Regional Hydro	16823	12781	11559	288.33	11579

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	50	250	400	0	4.83	0.00	4.83
Gwalior-Agra (D/C)	919	1660	1768	0	33.11	0.00	33.11
Zerda-Kankroli	-213	-108	0	289	0.00	3.67	-3.67
Zerda-Bhinmal	-196	-101	17	312	0.00	3.17	-3.17
Malanpur-Auraiya	-79	-37	0	79	0.00	0.90	-0.90
Badod-Kota/Morak	-128	-3	0	128	0.00	0.82	-0.82
Mundra-Mohindergarh(HVDC)	1999	1958	2006	0	48.35	0.00	48.35
Sub Total WR	2352	3619			86.30	8.56	77.73
Pusaali Bypass	400	400	400	0	9.67	0.00	9.67
MZP- GKP (D/C)	196	640	700	0	10.41	0.00	10.41
Patna-Balia(D/C)	-57	233	249	72	2.33	0.00	2.33
B'Sharif-Balia (D/C)	159	570	611	0	8.94	0.00	8.94
Pusaali-Balia	-60	11	11	60	0.00	0.47	-0.47
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaali-Sahupuri	0	0	0	0	0.00	0.00	0.00
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-108	142	228	188	0.89	0.00	0.89
Sub Total ER	530	1996			32.23	0.47	31.76
Total IR Exch	2882	5615			118.53	9.03	109.50

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
26.99	1.43	28.42	6.23	2.34	-0.73	3.19	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
33.92	72.13	106.05	31.76	77.73	109.50	-2.16	5.60	3.44

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	4.70	20.20	45.70	80.00	43.30	4.80	4.90	1.30	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.40	18.01	49.47	22.09	49.91	0.24	0.13	50.32	49.68

VII. Voltage profile 400 kV

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	21:00	399	00:20	0.0	0.0	0.0	0.0
Gorakhpur	400	432	23:55	387	04:52	0.0	1.2	27.7	1.4
Bareilly	400	411	23:59	390	01:24	0.0	0.0	0.0	0.0
Kanpur	400	414	19:02	398	01:18	0.0	0.0	0.0	0.0
Dadri	400	410	19:04	396	15:39	0.0	0.0	0.0	0.0
Ballabgarh	400	416	19:02	400	22:09	0.0	0.0	0.0	0.0
Bawana	400	409	19:01	100	03:14	22.0	22.0	0.0	0.0
Bassi	400	426	19:02	397	09:53	0.0	0.0	5.9	0.0
Hissar	400	407	19:02	393	00:07	0.0	0.0	0.0	0.0
Moga	400	405	21:03	394	00:22	0.0	0.0	0.0	0.0
Abdullapur	400	0	00:00	396	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	408	06:04	398	09:31	0.0	0.0	0.0	0.0
Kishenpur	400	412	18:06	401	09:26	0.0	0.0	0.0	0.0
Wagoora	400	407	17:49	393	06:46	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	778	19:02	743	01:18	0.0	0.0	0.0	0.0
Balia	765	773	23:54	743	04:54	0.0	0.0	0.0	0.0
Moga	765	777	19:02	754	01:18	0.0	0.0	0.0	0.0
Agra	765	791	18:01	755	22:09	0.0	0.0	0.0	0.0
Bhiwani	765	788	19:02	757	01:16	0.0	0.0	0.0	0.0
Unnao	765	751	19:02	724	01:20	4.7	81.0	0.0	0.0

IX. 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	480.09	461.24	480.49	468.02	722.28	640.02
Pong	426.72	384.05	402.33	273.51	399.69	209.93	100.72	131.59
Tehri	829.79	740.04	741.70	9.37	NA	NA	224.93	171.00
Koteshwar	612.50	598.50	610.82	4.95	608.40	3.98	171.00	168.00
Chamera-I	760.00	748.75	755.44	12.77	NA	NA	359.20	351.28
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.06.2014 :

1. Hot weather in NR.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 11.06.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER