

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.06.2014
Date of Reporting : 11.06.2014

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
42733	1960	44693	49.80	42836	2250	45086	50.07	1028.8	49.76

* 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	60.41	19.15		79.56	108.19	108.20	0.01	187.75	2.90
Haryana	66.49	0.58		67.08	84.21	81.49	-2.72	148.56	0.11
Rajasthan	102.61	0.00	23.93	126.54	75.00	75.51	0.51	202.05	1.26
Delhi	29.71			29.71	81.86	81.37	-0.49	111.08	0.10
UP	131.32	14.88	1.20	147.40	136.27	136.86	0.59	284.25	43.24
Uttarakhand		17.06		17.06	18.11	19.85	1.74	36.90	0.45
HP		24.25		24.25	0.86	0.72	-0.14	24.97	0.00
J & K		10.51	0.00	10.51	16.82	16.32	-0.51	26.83	1.70
Chandigarh				0.00	5.58	6.40	0.82	6.40	0.00
Total	390.53	86.43	25.13	502.10	526.89	526.70	-0.19	1028.80	49.76

* 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	8151	0	62	1138	7567	0	77	1291	28.26
Haryana	6345	0	-664	-71	6698	0	-269	607	2.60
Rajasthan	7498	0	64	345	8334	0	100	312	16.46
Delhi	4555	0	-14	312	4503	0	-21	446	9.62
UP	11887	1785	148	902	12132	2175	-79	1257	22.95
Uttarakhand	1717	75	158	194	1518	75	61	217	5.08
HP	960	0	-91	-1175	909	0	-7	-1307	-28.44
J&K	1357	100	34	-406	941	0	-51	-751	-13.27
Chandigarh	262	0	20	0	234	0	40	0	0.77
Total	42733	1960	-284	1238	42836	2250	-148	2073	44.03

* 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	1910	2037	2048	46.08	1920	45.70	0.38
Rihand I STPS	1000	850	921	930	20.75	865	20.29	0.45
Rihand II STPS	1000	465	511	516	11.18	466	11.09	0.08
Rihand III STPS	1000	821	881	810	19.58	816	19.57	0.01
Dadri I STPS	840	813	822	821	17.99	750	18.47	-0.47
Dadri II STPS	980	966	1004	760	21.89	912	22.37	-0.48
Unchahar I TPS	420	400	428	406	9.15	381	9.49	-0.34
Unchahar II TPS	420	400	428	429	9.26	386	9.39	-0.13
Unchahar III TPS	210	200	206	214	4.56	190	4.70	-0.14
ISTPP (Jhajjhar)	1500	1450	1295	972	26.30	1096	26.09	0.21
Dadri GPS	830	794	167	176	3.89	162	4.23	-0.34
Anta GPS	419	383	209	247	5.12	213	5.03	0.09
Auraiya GPS	663	420	142	146	3.19	133	3.22	-0.02
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	9876	9051	8475	199	8290	200	-1
B. NPC								
NAPS	440	268	302	306	6.42	268	6.43	-0.01
RAPS- B	440	384	405	428	8.95	373	9.22	-0.27
RAPS- C	440	200	221	222	4.77	199	4.80	-0.03
Sub Total (B)	1320	852	928	956	20.14	839	20.45	-0.31
C. NHPC								
Chamera I HPS	540	537	540	540	13.05	544	12.89	0.16
Chamera II HPS	300	303	313	312	7.47	311	7.27	0.20
Chamera III HPS	231	229	240	239	5.67	236	5.50	0.18
Bairasui HPS	180	180	180	180	4.09	170	3.95	0.14
Salal-HPS	690	661	678	677	16.21	675	15.86	0.35
Tanakpur-HPS	94	74	87	70	1.86	78	1.78	0.09
Uri-HPS	480	475	477	475	11.55	481	11.40	0.15
Uri-II HPS	240	240	245	242	5.83	243	5.76	0.07
Dhauliganga-HPS	280	48	68	0	0.92	38	1.14	-0.23
Dulhasti-HPS	390	387	402	399	9.47	394	9.30	0.17
Sewa-II HPS	120	122	130	130	3.07	128	2.93	0.15
Parbati 3	390	260	0	0	4.88	204	4.82	0.06
Sub Total ©	3935	3516	3360	3264	84	3503	83	1
D. SJVNL								
NJPC	1500	1605	1607	1616	38.19	1591	38.35	-0.16
Rampur HEP	206	206	219	211	5.14	214	4.94	0.19
Sub Total (D)	1706	1811	1826	1827	43.33	1805	43.29	0.03
E. THDC								
Tehri HPS	1000	375	377	378	6.09	254	6.00	0.09
Koteshwar HPS	400	138	400	91	3.37	141	3.30	0.07
Sub Total (E)	1400	513	777	469	9.46	394	9.30	0.16
F. BBMB								
Bhakra HPS	1514	717	1188	452	17.48	728	17.20	0.28
Dehar HPS	990	574	635	635	14.68	612	13.77	0.91
Pong HPS	396	225	368	124	5.72	238	5.40	0.32
Sub Total (F)	2900	1516	2191	1211	37.88	1578	36.37	1.51
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	205	212	4.82	201	4.88	-0.07
KWHEP HPS(IPP)	1000	0	1200	1025	25.07	1045	26.33	-1.26
Malana Stg-II HPS	100	0	112	74	1.85	77	1.72	0.13
Shree Cement TPS	300	0	274	281	6.30	263	6.99	-0.69
Budhil HPS(IPP)	70	0	70	70	1.66	69	1.64	0.02
Sub Total (G)	1662	0	1861	1662	39.70	1654	41.57	-1.87
H. Total Regional Entities (A-G)	24221	18083	19994	17864	433.52	18063	433.29	0.23

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	1260	1085	27	1119
	Guru Nanak Dev TPS(Bhatinda)	440	200	190	4	169
	Guru Hargobind Singh TPS(L.mbt)	920	925	702	19	773
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	454	449	11	456
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2839	2426	60	2517
	Total Hydro	1148	922	582	19.15	798
	Total Punjab	5128	3761	3008	79.56	3315
Haryana	Panipat TPS	1367	879	921	19.73	822
	DCRTPP (Yamuna nagar)	600	545	523	12.33	514
	Faridabad GPS (NTPC)	432	147	157	3.42	143
	RGTPP (khedar) (IPP)	1200	579	451	11.87	495
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	882	784	19.15	798
	Thermal (Total)	4944	3032	2836	66	2770
	Total Hydro	62	23	25	0.58	24
	Total Haryana	5006	3055	2861	67.08	2795
Rajasthan	kota TPS	1240	734	757	17.13	714
	suratgarh TPS	1500	1043	1125	26.04	1085
	Chabra TPS	750	392	383	9.61	400
	Dholpur GPS	330	106	104	2.34	97
	Ramgarh GPS	221	87	96	2.99	125
	RAPS A (NPC)	300	170	170	4.04	169
	Barsingsar (NLC)	250	134	135	2.83	118
	Giral LTPS	250	53	77	1.78	74
	Rajwest LTPS (IPP)	1080	796	834	20.49	854
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	529	604	15.37	641
	Thermal (Total)	7976	4044	4285	103	4275
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	840	1167	22.62	942
	Biomass	91	31	31	0.75	31
	Solar	201	0	0	0.56	23
Renewable/Others (Total)	2483	871	1198	24	997	
Total Rajasthan	11009	4915	5483	126.54	5273	
UP	Anpara TPS	1630	1517	1464	31.60	1317
	Obra TPS	1288	584	531	11.70	488
	Paricha TPS	1140	332	336	7.20	300
	Panki TPS	210	160	165	3.30	138
	Harduaganj TPS	665	430	435	9.50	396
	Tanda TPS (NTPC)	440	382	376	8.98	374
	Roza TPS (IPP)	1200	1107	1098	26.57	1107
	Anpara-C (IPP)	1200	1051	1049	25.02	1043
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	305	7.44	310
	Thermal (Total)	8223	5887	5759	131	5471
	Vishnuparyag HPS (IPP)	400	435	436	10.48	437
	Other Hydro	527	164	204	4.40	183
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6536	6449	147.40	5705
Uttarakhand	Total Hydro	1303	753	683	17.06	711
	Total Uttarakhand	1303	753	683	17.06	711
Delhi	Rajghat TPS	135	101	96	2.66	111
	Delhi Gas Turbine	282	122	131	3.11	130
	Pragati Gas Turbine	330	132	138	3.42	142
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	297	264	6.61	276
	Badarpur TPS (NTPC)	705	680	585	13.91	580
	Thermal (Total)	2917	1332	1214	29.71	1238
	Total Delhi	2917	1332	1214	29.71	1238
HP	Baspa HPS (IPP)	300	331	331	7.82	326
	Malana HPS (IPP)	86	90	73	1.62	68
	Other Hydro	728	618	630	14.81	617
	Total HP	1114	1039	1034	24.25	1011
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	438	438	10.51	438
Total State Control Area Generation		37702	21829	21170	502.10	20484
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4574	5669	124.20	5175
Total Regional Availability(Gross)		61923	46397	44703	1059.82	43722

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9671	8082	206.47	8603
State Control Area Hydro	5589	3339	2966	86.43	3165
Total Regional Hydro	16823	13010	11048	292.90	11768

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	250	500	500	0	7.29	0.00	7.29
Gwalior-Agra (D/C)	1341	1654	1944	0	35.81	0.00	35.81
Zerda-Kankroli	-49	-175	220	0	0.00	3.22	-3.22
Zerda-Bhinmal	-57	-171	23	226	0.00	2.81	-2.81
Malanpur-Auraiya	-85	-37	0	85	0.00	1.21	-1.21
Badod-Kota/Morak	-35	-26	0	62	0.00	0.12	-0.12
Mundra-Mohindergarh(HVDC)	1999	2003	2005	0	48.19	0.00	48.19
Sub Total WR	3364	3748			91.30	7.36	83.94
Pusaali Bypass	400	400	400	0	9.90	0.00	9.90
MZP- GKP (D/C)	328	624	728	0	11.90	0.00	11.90
Patna-Balia(D/C)	33	116	182	0	2.60	0.00	2.60
B Sharif-Balia (D/C)	334	407	527	0	9.21	0.00	9.21
Pusaali-Balia	-46	-42	0	62	0.00	0.80	-0.80
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaali-Sahupuri	149	168	196	0	4.21	0.00	4.21
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)	12	248	262	0	3.23	0.00	3.23
Sub Total ER	1210	1921			41.06	0.80	40.26
Total IR Exch	4574	5669			132.36	8.16	124.20

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
28.05	1.71	29.76	6.87	1.85	-0.18	8.22	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
36.45	77.43	113.88	40.26	83.94	124.20	3.81	6.51	10.32

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	12.40	34.30	60.50	86.70	34.70	3.80	1.00	0.00	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				
50.18	6.04	49.34	22.09	49.82	17.75	1.32	50.14	49.60

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	407	08:02	399	22:35	0.0	0.0	0.0	0.0
Gorakhpur	400	403	02:07	386	15:39	0.0	5.5	0.0	0.0
Bareilly	400	408	19:01	387	12:25	0.0	0.7	0.0	0.0
Kanpur	400	413	19:01	397	22:11	0.0	0.0	0.0	0.0
Dadri	400	411	18:57	396	10:55	0.0	0.0	0.0	0.0
Ballabgarh	400	417	19:00	399	16:13	0.0	0.0	0.0	0.0
Bawana	400	411	18:54	102	23:30	0.8	0.8	0.0	0.0
Bassi	400	425	19:00	397	22:14	0.0	0.0	2.7	0.0
Hissar	400	407	19:00	394	15:40	0.0	0.0	0.0	0.0
Moga	400	406	19:04	391	22:17	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	412	06:07	395	16:07	0.0	0.0	0.0	0.0
Kishenpur	400	409	03:48	399	22:05	0.0	0.0	0.0	0.0
Wagoora	400	406	03:24	390	20:18	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	776	19:00	739	22:38	0.0	0.4	0.0	0.0
Balia	765	771	08:04	746	22:10	0.0	0.0	0.0	0.0
Moga	765	780	19:00	750	22:11	0.0	0.0	0.0	0.0
Agra	765	792	19:00	748	22:38	0.0	0.0	0.0	0.0
Bhiwani	765	790	19:01	752	22:11	0.0	0.0	0.0	0.0
Unnao	765	748	19:01	724	12:20	6.7	97.8	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 10.06.2014 :

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 : 10.06.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER