

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.06.2014
Date of Reporting : 13.06.2014

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
33245	1550	34795	49.94	43248	2355	45603	50.08	955.7	45.86

* 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	55.94	18.65		74.59	111.77	111.35	-0.43	185.94	0.00
Haryana	57.33	0.48		57.81	75.36	71.37	-3.99	129.18	0.08
Rajasthan	102.60	0.00	24.21	126.81	57.52	54.93	-2.59	181.74	0.00
Delhi	32.82			32.82	75.47	74.34	-1.13	107.16	0.00
UP	130.07	13.88	1.20	145.15	118.53	109.80	-8.73	254.95	43.98
Uttarakhand		16.86		16.86	19.44	19.67	0.23	36.53	0.11
HP		23.80		23.80	1.92	1.73	-0.19	25.52	0.00
J & K		11.93	0.00	11.93	17.33	16.49	-0.84	28.41	1.70
Chandigarh				0.00	5.37	6.24	0.87	6.24	0.00
Total	378.75	85.60	25.41	489.77	482.71	465.91	-16.81	955.67	45.86

* 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	7831	0	-42	1058	8127	0	129	1756	32.64
Haryana	3898	0	74	-147	6917	0	-342	595	-2.00
Rajasthan	6265	0	-253	52	7695	0	-285	122	5.52
Delhi	3998	0	-294	245	4664	0	97	221	8.29
UP	7232	1450	-1627	372	12314	2355	-103	1291	18.46
Uttarakhand	1365	0	-71	297	1514	0	64	260	7.91
HP	987	0	-110	-1120	898	0	-41	-1292	-27.34
J&K	1405	100	26	-406	880	0	-90	-784	-13.43
Chandigarh	264	0	30	0	238	0	28	0	0.57
Total	33245	1550	-2266	353	43248	2355	-542	2168	30.63

* 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	1408	987	1410	30.13	1255	31.91	-1.79
Rihand I STPS	1000	868	747	935	19.88	828	19.51	0.37
Rihand II STPS	1000	465	414	519	10.66	444	10.47	0.19
Rihand III STPS	1000	871	733	849	19.53	814	19.36	0.16
Dadri I STPS	840	813	690	689	16.02	668	16.36	-0.34
Dadri II STPS	980	966	780	844	19.94	831	20.50	-0.56
Unchahar I TPS	420	392	297	398	8.12	338	8.36	-0.23
Unchahar II TPS	420	400	376	398	8.20	342	8.49	-0.30
Unchahar III TPS	210	200	153	198	3.97	165	4.07	-0.10
ISTPP (Jhajjar)	1500	1450	899	1391	26.66	1111	26.73	-0.07
Dadri GPS	830	793	158	178	3.94	164	4.04	-0.10
Anta GPS	419	384	245	291	5.48	228	5.36	0.12
Auraiya GPS	663	434	298	138	3.72	155	3.71	0.01
Dadri Solar	5	1	0	0	0.01	1	0.03	-0.01
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
Sub Total (A)	11297	9449	6777	8238	176	7344	179	-3
B. NPC								
NAPS	440	266	317	313	6.50	271	6.38	0.12
RAPS- B	440	380	434	441	9.39	391	9.12	0.27
RAPS- C	440	200	222	227	10.03	418	4.80	5.23
Sub Total (B)	1320	846	973	981	25.93	1080	20.30	5.62
C. NHPC								
Chamera I HPS	540	537	540	540	12.82	534	12.69	0.13
Chamera II HPS	300	303	309	306	7.32	305	7.27	0.05
Chamera III HPS	231	229	229	229	5.63	234	5.50	0.13
Bairasui HPS	180	180	180	180	3.51	146	3.35	0.16
Salal-HPS	690	663	674	675	16.07	670	15.84	0.23
Tanakpur-HPS	94	69	86	75	1.67	69	1.66	0.00
Uri-HPS	480	475	473	476	11.51	479	11.40	0.11
Uri-II HPS	240	240	241	245	5.84	243	5.76	0.08
Dhauliganga-HPS	280	67	68	68	1.63	68	1.61	0.02
Dulhasti-HPS	390	387	404	404	9.45	394	9.29	0.16
Sewa-II HPS	120	119	129	130	2.98	124	2.86	0.12
Parbati 3	390	248	260	200	3.84	160	3.86	-0.02
Sub Total ©	3935	3517	3593	3528	82	3427	81	1
D. SJVNL								
NJPC	1500	1605	1610	1616	38.59	1608	38.45	0.14
Rampur HEP	206	206	206	206	0.01	0	4.94	-4.93
Sub Total (D)	1706	1811	1816	1822	38.60	1608	43.40	-4.79
E. THDC								
Tehri HPS	1000	375	377	376	6.73	280	6.71	0.02
Koteshwar HPS	400	163	400	100	3.80	158	3.80	0.00
Sub Total (E)	1400	538	777	476	10.53	439	10.51	0.02
F. BBMB								
Bhakra HPS	1514	786	1215	472	19.29	804	18.87	0.42
Dehar HPS	990	439	495	495	11.81	492	10.55	1.27
Pong HPS	396	260	368	122	6.30	263	6.24	0.06
Sub Total (F)	2900	1486	2078	1089	37.40	1558	35.66	1.74
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	200	207	4.43	185	4.71	-0.28
KWHEP HPS(IPP)	1000	0	970	1032	23.72	988	21.77	1.95
Malana Stg-II HPS	100	0	109	60	1.65	69	1.56	0.09
Shree Cement TPS	300	0	136	139	3.35	139	3.59	-0.24
Budhil HPS(IPP)	70	0	7	14	1.40	58	1.64	-0.24
Sub Total (G)	1662	0	1421	1452	34.55	1439	33.27	1.28
H. Total Regional Entities (A-G)	24221	17647	17435	17585	405.51	16896	403.19	2.32

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	21	865
	Guru Nanak Dev TPS(Bhatinda)	440	250	280	6	262
	Guru Hargobind Singh TPS(L.mbt)	920	748	920	20	833
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	336	331	9	371
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2594	2616	56	2331
	Total Hydro	1148	710	711	18.65	777
	Total Punjab	5128	3304	3327	74.59	3108
Haryana	Panipat TPS	1367	614	997	20.77	865
	DCRTPP (Yamuna nagar)	600	0	257	2.33	97
	Faridabad GPS (NTPC)	432	138	186	3.61	150
	RGTPP (khedar) (IPP)	1200	454	571	12.13	506
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	800	18.49	771
	Thermal (Total)	4944	1950	2811	57	2389
	Total Hydro	62	21	23	0.48	20
	Total Haryana	5006	1971	2834	57.81	2409
	Rajasthan	kota TPS	1240	900	889	19.16
suratgarh TPS		1500	932	992	21.42	893
Chabra TPS		750	579	589	13.73	572
Dholpur GPS		330	104	106	2.52	105
Ramgarh GPS		221	140	92	3.32	138
RAPS A (NPC)		300	170	170	4.21	175
Barsingsar (NLC)		250	174	174	3.93	164
Giral LTPS		250	70	78	1.52	63
Rajwest LTPS (IPP)		1080	501	753	19.02	793
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	447	579	13.76	573
Thermal (Total)		7976	4017	4422	103	4275
Total Hydro		550	0	0	0.00	0
Wind power		2191	658	1139	22.92	955
Biomass		91	33	33	0.80	33
Solar		201	0	0	0.49	20
Renewable/Others (Total)		2483	691	1172	24	1009
Total Rajasthan		11009	4708	5594	126.81	5284
UP	Anpara TPS	1630	1180	1558	32.20	1342
	Obra TPS	1288	579	603	12.70	529
	Paricha TPS	1140	708	861	17.20	717
	Panki TPS	210	165	135	3.30	138
	Harduaganj TPS	665	357	437	9.10	379
	Tanda TPS (NTPC)	440	225	286	6.36	265
	Roza TPS (IPP)	1200	424	1080	21.17	882
	Anpara-C (IPP)	1200	702	1067	23.31	971
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	322	4.73	197
	Thermal (Total)	8223	4340	6349	130	5420
	Vishnuparyag HPS (IPP)	400	436	436	10.44	435
	Other Hydro	527	117	203	3.44	143
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	4943	7038	145.15	5613
	Uttarakhand	Total Hydro	1303	704	698	16.86
Total Uttarakhand		1303	704	698	16.86	702
Delhi	Rajghat TPS	135	99	97	2.26	94
	Delhi Gas Turbine	282	182	163	4.12	172
	Pragati Gas Turbine	330	144	140	3.41	142
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	261	442	9.00	375
	Badarpur TPS (NTPC)	705	505	584	14.04	585
	Thermal (Total)	2917	1191	1426	32.82	1367
	Total Delhi	2917	1191	1426	32.82	1367
HP	Baspa HPS (IPP)	300	298	328	7.62	318
	Malana HPS (IPP)	86	55	50	1.48	62
	Other Hydro	728	587	642	14.70	612
	Total HP	1114	940	1020	23.80	992
J & K	Baglihar HPS (IPP)	450	438	440	10.53	439
	Other Hydro/IPP	436	53	44	1.39	58
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	491	484	11.93	497
Total State Control Area Generation		37702	18252	22421	489.77	19972
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1455	4777	65.43	2726
Total Regional Availability(Gross)		61923	37142	44783	960.71	39594

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9542	8214	198.59	8274
State Control Area Hydro	5589	2983	3139	85.60	3132
Total Regional Hydro	16823	12525	11353	284.19	11406

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	300	300	500	3.30	2.36	0.94
Gwalior-Agra (D/C)	955	1740	1810	0	31.45	0.00	31.45
Zerda-Kankroli	-206	-187	0	314	0.00	4.47	-4.47
Zerda-Bhinmal	-160	-171	0	298	0.00	3.94	-3.94
Malanpur-Auraiya	95	-49	102	0	0.27	0.00	0.27
Badod-Kota/Morak	-165	-119	0	181	0.00	22.57	-22.57
Mundra-Mohindergarh(HVDC)	1602	2002	2019	0	45.86	0.00	45.86
Sub Total WR	1621	3516			80.88	33.33	47.55
Pusauli Bypass	-393	400	400	437	7.71	1.72	5.99
MZP- GKP (D/C)	80	384	526	0	6.05	0.00	6.05
Patna-Balia(D/C)	-73	49	0	223	0.00	0.53	-0.53
B'Sharif-Balia (D/C)	137	292	361	0	4.41	0.00	4.41
Pusauli-Balia	50	-42	50	82	0.00	0.74	-0.74
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	192	172	196	0	4.03	0.00	4.03
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)	-159	6	187	470	0.00	1.31	-1.31
Sub Total ER	-166	1261			22.19	4.31	17.89
Total IR Exch	1455	4777			103.07	37.64	65.43

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
24.96	1.46	26.42	11.10	1.58	-4.45	3.08	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
33.08	65.70	98.77	17.89	47.55	65.43	-15.19	-18.15	-33.34

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	4.80	17.80	39.10	70.70	43.90	8.10	4.40	4.50	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.67	18.05	49.54	22.10	49.94	0.29	0.16	50.64	49.72

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	410	17:41	402	13:48	0.0	0.0	0.0	0.0
Gorakhpur	400	437	18:09	413	19:38	0.0	0.0	77.1	4.5
Bareilly	400	430	18:08	373	14:25	0.0	0.1	4.9	0.0
Kanpur	400	424	18:05	399	23:15	0.0	0.0	2.4	0.0
Dadri	400	419	17:39	398	23:15	0.0	0.0	0.0	0.0
Ballabgarh	400	426	18:05	402	23:15	0.0	0.0	8.3	0.0
Bawana	400	418	17:38	398	13:44	0.0	0.0	0.0	0.0
Bassi	400	432	18:01	402	22:19	0.0	0.0	13.4	0.2
Hissar	400	416	17:38	394	00:21	0.0	0.0	0.0	0.0
Moga	400	409	17:33	394	13:42	0.0	0.0	0.0	0.0
Abdullapur	400	417	18:04	396	22:21	0.0	0.0	0.0	0.0
Nalagarh	400	411	06:05	396	13:46	0.0	0.0	0.0	0.0
Kishenpur	400	410	17:13	400	22:10	0.0	0.0	0.0	0.0
Wagoora	400	407	04:01	390	20:20	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	780	16:03	730	19:35	0.0	10.9	0.0	0.0
Balia	765	779	08:05	735	19:38	0.0	12.3	0.0	0.0
Moga	765	787	17:38	755	13:43	0.0	0.0	0.0	0.0
Agra	765	807	18:03	751	22:18	0.0	0.0	0.6	0.0
Bhiwani	765	794	18:01	759	13:40	0.0	0.0	0.0	0.0
Unnao	765	786	18:05	726	22:08	0.2	61.4	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 12.06.2014 :

1. Inclement 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 : 12.06.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER