

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.06.2014
Date of Reporting : 16.06.2014

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
39988	1550	41538	49.91	41058	1850	42908	50.07	963.5	37.78

* 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	66.52	20.63		87.15	119.77	120.58	0.81	207.73	0.00
Haryana	32.21	0.00		32.21	101.62	100.63	-0.99	132.83	0.00
Rajasthan	115.22	0.00	24.20	139.42	51.10	50.58	-0.52	190.00	0.00
Delhi	21.83			21.83	73.31	68.92	-4.40	90.75	0.38
UP	137.00	12.36	1.20	150.56	113.06	111.58	-1.49	262.14	34.69
Uttarakhand		14.84		14.84	19.04	20.04	1.00	34.88	1.02
HP		23.85		23.85	0.34	-0.27	-0.60	23.58	0.00
J & K		0.00	0.00	0.00	17.49	16.27	-1.23	16.27	1.70
Chandigarh				0.00	5.19	5.35	0.15	5.35	0.00
Total	372.78	71.68	25.40	469.86	500.92	493.66	-7.27	963.51	37.78

* 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	8753	0	91	1182	8429	0	-115	1313	35.28
Haryana	5450	0	-442	500	6039	0	118	607	13.30
Rajasthan	6726	0	-274	-63	7976	0	165	167	0.74
Delhi	4024	0	122	270	3880	0	-141	204	6.33
UP	10905	1450	-457	483	11183	1850	-190	769	13.23
Uttarakhand	1707	0	94	266	1458	0	14	273	6.02
HP	860	0	-147	-1157	904	0	-23	-1273	-27.97
J&K	1321	100	15	-407	971	0	-32	-759	-13.15
Chandigarh	242	0	21	0	218	0	24	0	0.41
Total	39988	1550	-978	1076	41058	1850	-180	1301	34.20

* 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	1431	1551	1562	33.43	1393	34.01	-0.58
Rihand I STPS	1000	870	757	927	19.83	826	19.82	0.01
Rihand II STPS	1000	470	431	508	10.94	456	10.91	0.02
Rihand III STPS	1000	911	875	968	20.99	875	20.94	0.06
Dadri I STPS	840	813	682	627	14.41	600	15.02	-0.61
Dadri II STPS	980	966	961	823	19.08	795	20.12	-1.05
Unchahar I TPS	420	404	400	416	8.40	350	9.07	-0.67
Unchahar II TPS	420	397	387	378	8.06	336	8.76	-0.70
Unchahar III TPS	210	202	206	210	4.30	179	4.49	-0.19
ISTPP (Jhajjhar)	1500	1410	1465	1007	28.00	1167	27.82	0.18
Dadri GPS	830	797	149	141	3.63	151	3.78	-0.15
Anta GPS	419	387	247	234	5.65	236	5.66	0.00
Auraiya GPS	663	474	149	149	3.32	138	3.37	-0.05
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
Sub Total (A)	11297	9537	8260	7950	180	7501	184	-4
B. NPC								
NAPS	440	276	279	309	6.49	270	6.62	-0.14
RAPS- B	440	380	380	380	9.40	392	9.12	0.28
RAPS- C	440	200	206	200	4.46	186	4.80	-0.34
Sub Total (B)	1320	856	865	889	20.35	848	20.54	-0.20
C. NHPC								
Chamera I HPS	540	536	540	540	12.93	539	12.86	0.06
Chamera II HPS	300	303	309	309	7.37	307	7.27	0.09
Chamera III HPS	231	229	243	232	5.53	231	5.50	0.04
Bairasui HPS	180	180	180	180	3.90	163	4.25	-0.35
Salal-HPS	690	650	675	678	15.84	660	15.59	0.25
Tanakpur-HPS	94	64	78	52	1.54	64	1.55	-0.01
Uri-HPS	480	475	474	475	11.51	479	11.40	0.10
Uri-II HPS	240	240	243	249	5.85	244	5.76	0.09
Dhauliganga-HPS	280	79	137	67	1.51	63	1.88	-0.38
Dulhasti-HPS	390	387	403	400	9.35	389	9.29	0.05
Sewa-II HPS	120	119	128	122	2.46	102	2.35	0.11
Parbati 3	390	260	260	130	5.11	213	5.04	0.07
Sub Total ©	3935	3522	3670	3434	83	3454	83	0
D. SJVNL								
NJPC	1500	1605	1621	1616	38.67	1611	38.45	0.22
Rampur HEP	206	206	282	274	6.57	274	4.94	1.63
Sub Total (D)	1706	1811	1903	1890	45.24	1885	43.40	1.85
E. THDC								
Tehri HPS	1000	375	375	376	6.53	272	6.50	0.03
Koteshwar HPS	400	155	400	91	3.36	140	3.35	0.01
Sub Total (E)	1400	530	775	467	9.88	412	9.85	0.03
F. BBMB								
Bhakra HPS	1514	838	1104	633	19.84	827	20.10	-0.26
Dehar HPS	990	509	495	495	11.83	493	12.22	-0.39
Pong HPS	396	261	368	184	6.33	264	6.27	0.06
Sub Total (F)	2900	1608	1967	1312	38.00	1583	38.59	-0.59
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	229	5.44	227	5.01	0.43
KWHEP HPS(IPP)	1000	0	1121	1160	26.29	1095	25.38	0.91
Malana Stg-II HPS	100	0	113	101	2.46	103	2.30	0.16
Shree Cement TPS	300	0	125	137	3.36	140	3.49	-0.14
Budhil HPS(IPP)	70	0	70	70	1.67	69	1.64	0.02
Sub Total (G)	1662	0	1659	1697	39.22	1634	37.84	1.38
H. Total Regional Entities (A-G)	24221	17863	19099	17639	415.59	17316	416.81	-1.22

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	1260	28	1157
	Guru Nanak Dev TPS(Bhatinda)	440	334	330	7	295
	Guru Hargobind Singh TPS(L.mbt)	920	925	903	19	810
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	411	538	12	510
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2930	3031	67	2771
	Total Hydro	1148	838	779	20.63	860
Total Punjab	5128	3768	3810	87.15	3631	
Haryana	Panipat TPS	1367	448	458	10.48	437
	DCRTPP (Yamuna nagar)	600	287	287	6.18	258
	Faridabad GPS (NTPC)	432	140	140	3.87	161
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	543	557	11.67	486
	Thermal (Total)	4944	1418	1442	32	1342
	Total Hydro	62	19	21	0.00	0
	Total Haryana	5006	1437	1463	32.21	1342
Rajasthan	kota TPS	1240	904	919	21.32	888
	suratgarh TPS	1500	980	828	23.11	963
	Chabra TPS	750	536	564	13.45	561
	Dholpur GPS	330	104	104	2.51	105
	Ramgarh GPS	221	119	112	3.10	129
	RAPS A (NPC)	300	170	170	4.15	173
	Barsingsar (NLC)	250	174	170	3.90	163
	Giral LTPS	250	48	0	0.22	9
	Rajwest LTPS (IPP)	1080	486	784	17.66	736
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	906	930	25.79	1075
	Thermal (Total)	7976	4427	4581	115	4801
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	691	1198	22.62	943
	Biomass	91	38	38	0.90	38
	Solar	201	0	0	0.68	28
	Renewable/Others (Total)	2483	729	1236	24	1008
Total Rajasthan	11009	5156	5817	139.42	5809	
UP	Anpara TPS	1630	1398	1421	33.10	1379
	Obra TPS	1288	551	533	12.80	533
	Paricha TPS	1140	751	785	17.70	738
	Panki TPS	210	135	140	3.30	138
	Harduaganj TPS	665	368	401	9.40	392
	Tanda TPS (NTPC)	440	263	282	6.50	271
	Roza TPS (IPP)	1200	1098	1107	27.78	1157
	Anpara-C (IPP)	1200	1072	1071	23.82	993
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	112	110	2.60	108
	Thermal (Total)	8223	5748	5850	137	5708
	Vishnuparyag HPS (IPP)	400	436	436	10.34	431
	Other Hydro	527	91	166	2.02	84
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6325	6502	150.56	5843
Uttarakhand	Total Hydro	1303	738	669	14.84	618
	Total Uttarakhand	1303	738	669	14.84	618
Delhi	Rajghat TPS	135	99	99	2.34	98
	Delhi Gas Turbine	282	143	148	3.43	143
	Pragati Gas Turbine	330	139	143	3.42	143
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	590	585	12.64	527
	Thermal (Total)	2917	971	975	21.83	910
Total Delhi	2917	971	975	21.83	910	
HP	Baspa HPS (IPP)	300	302	333	7.59	316
	Malana HPS (IPP)	86	106	84	1.99	83
	Other Hydro	728	614	592	14.27	594
	Total HP	1114	1022	1009	23.85	994
J & K	Baglihar HPS (IPP)	450	0	0	0.00	0
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	0	0	0.00	0
Total State Control Area Generation		37702	19417	20245	469.86	19147
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3543	4217	107.15	4465
Total Regional Availability(Gross)		61923	42059	42101	992.60	40928

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9779	8593	210.21	8759
State Control Area Hydro	5589	2708	2644	71.68	2556
Total Regional Hydro	16823	12487	11237	281.89	11315

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	200	400	500	0	7.76	0.00	7.76
Gwalior-Agra (D/C)	1485	1694	2276	0	35.98	0.00	35.98
Zerda-Kankroli	-90	-131	0	280	0.00	3.73	-3.73
Zerda-Bhinmal	-69	-143	18	287	0.00	3.36	-3.36
Malanpur-Auraiya	-64	-16	0	69	0.00	0.69	-0.69
Badod-Kota/Morak	-93	-61	0	112	0.00	1.41	-1.41
Mundra-Mohindergarh(HVDC)	1799	2002	2006	0	47.33	0.00	47.33
Sub Total WR	3168	3745			91.07	9.19	81.88
Pusaali Bypass	100	100	100	0	2.43	0.00	2.43
MZP- GKP (D/C)	156	156	726	0	8.74	0.00	8.74
Patna-Balia(D/C)	-56	-42	198	113	0.69	0.00	0.69
B Sharif-Balia (D/C)	134	152	449	0	6.81	0.00	6.81
Pusaali-Balia	-58	-35	0	58	0.00	0.62	-0.62
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaali-Sahupuri	175	172	206	0	4.10	0.00	4.10
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)	-76	-31	319	84	3.13	0.00	3.13
Sub Total ER	375	472			25.89	0.62	25.27
Total IR Exch	3543	4217			116.96	9.81	107.15

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
35.12	1.54	36.67	17.91	1.55	-23.26	12.34	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
31.32	72.07	103.39	25.27	81.88	107.15	-6.05	9.81	3.76

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	0.51	5.66	23.04	56.69	50.69	14.86	8.66	2.80	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	Index			
50.41	18.03	49.67	10.56	49.98	0.13	0.11	50.35	49.79

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	18:21	399	23:11	0.0	0.0	0.0	0.0
Gorakhpur	400	433	12:05	414	23:13	0.0	0.0	76.7	9.9
Bareilly	400	413	08:04	379	02:01	0.0	0.0	0.0	0.0
Kanpur	400	419	08:13	399	23:17	0.0	0.0	0.0	0.0
Dadri	400	413	08:04	397	00:33	0.0	0.0	0.0	0.0
Ballabgarh	400	423	18:48	400	23:18	0.0	0.0	5.4	0.0
Bawana	400	416	18:43	397	23:17	0.0	0.0	0.0	0.0
Bassi	400	428	18:05	399	23:18	0.0	0.0	8.1	0.0
Hissar	400	411	18:49	389	14:26	0.0	1.9	0.0	0.0
Moga	400	406	18:49	390	14:38	0.0	0.0	0.0	0.0
Abdullapur	400	419	06:11	396	20:21	0.0	0.0	0.0	0.0
Nalagarh	400	408	05:11	393	14:27	0.0	0.0	0.0	0.0
Kishenpur	400	407	04:04	397	13:47	0.0	0.0	0.0	0.0
Wagoora	400	402	03:59	390	14:26	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	775	18:02	732	23:21	0.0	7.0	0.0	0.0
Balia	765	780	08:14	742	23:13	0.0	0.0	0.0	0.0
Moga	765	779	18:48	749	14:35	0.0	0.0	0.0	0.0
Agra	765	796	18:05	747	23:21	0.0	0.0	0.0	0.0
Bhiwani	765	785	06:07	756	00:34	0.0	0.0	0.0	0.0
Unnao	765	763	08:37	725	23:21	2.8	31.4	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 15.06.2014 :

1. Normal weather 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 : 15.06.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER