

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.06.2014
Date of Reporting : 17.06.2014

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
43128	1865	44993	49.88	41968	1845	43813	50.10	1038.5	42.47

* 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	82.89	20.95		103.83	123.82	123.77	-0.05	227.60	0.00
Haryana	38.36	0.48		38.84	106.66	104.57	-2.08	143.42	0.02
Rajasthan	123.70	0.00	17.60	141.30	56.01	56.23	0.22	197.53	0.00
Delhi	23.44			23.44	83.46	83.72	0.27	107.16	1.24
UP	135.62	12.68	1.20	149.50	121.87	122.16	0.28	271.65	38.81
Uttarakhand		17.41		17.41	19.22	17.98	-1.24	35.38	0.69
HP		24.07		24.07	0.07	0.62	0.56	24.69	0.01
J & K		11.91	0.00	11.91	15.98	12.74	-3.24	24.66	1.70
Chandigarh				0.00	5.36	6.42	1.06	6.42	0.00
Total	404.01	87.49	18.80	510.30	532.44	528.21	-4.23	1038.51	42.47

* 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	9025	0	-62	1412	9033	0	97	1691	40.79
Haryana	6381	0	-211	709	5919	0	-182	822	18.21
Rajasthan	7222	0	-112	-235	7751	0	105	74	-1.62
Delhi	4966	0	261	531	4013	40	-24	216	8.76
UP	11396	1690	-226	493	11864	1805	150	680	13.09
Uttarakhand	1736	75	39	321	1412	0	-47	287	6.60
HP	1057	0	-47	-1198	876	0	74	-1479	-30.05
J&K	1067	100	-166	-485	865	0	-179	-743	-13.62
Chandigarh	279	0	53	0	237	0	42	0	0.49
Total	43128	1865	-470	1550	41968	1845	36	1548	42.66

* 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	1410	1531	1479	33.79	1408	33.48	0.30
Rihand I STPS	1000	865	909	879	20.45	852	20.24	0.22
Rihand II STPS	1000	470	479	502	11.66	486	10.88	0.78
Rihand III STPS	1000	897	964	854	21.06	877	20.87	0.19
Dadri I STPS	840	813	786	597	15.88	662	16.42	-0.54
Dadri II STPS	980	966	943	954	21.44	893	21.98	-0.54
Unchahar I TPS	420	404	415	395	8.80	367	9.35	-0.55
Unchahar II TPS	420	393	385	380	8.36	349	8.92	-0.55
Unchahar III TPS	210	202	195	183	4.43	184	4.57	-0.14
ISTPP (Jhajjhar)	1500	1410	1310	1004	30.02	1251	29.99	0.02
Dadri GPS	830	797	153	184	3.89	162	4.09	-0.21
Anta GPS	419	384	246	237	5.55	231	5.47	0.08
Auraiya GPS	663	476	144	153	3.34	139	3.42	-0.07
Dadri Solar	5	1	0	0	0.02	1	0.03	0.00
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
Sub Total (A)	11297	9490	8460	7801	189	7862	190	-1
B. NPC								
NAPS	440	276	299	312	6.38	266	6.62	-0.25
RAPS- B	440	380	430	444	9.40	392	9.12	0.28
RAPS- C	440	200	220	224	4.65	194	4.80	-0.15
Sub Total (B)	1320	856	949	980	20.43	851	20.54	-0.12
C. NHPC								
Chamera I HPS	540	536	540	540	13.00	542	12.86	0.14
Chamera II HPS	300	300	309	307	7.11	296	7.20	-0.09
Chamera III HPS	231	229	239	228	5.58	233	5.50	0.09
Bairasui HPS	180	180	180	180	3.91	163	4.32	-0.42
Salal-HPS	690	612	661	661	15.16	632	14.69	0.48
Tanakpur-HPS	94	73	71	91	1.79	75	1.72	0.07
Uri-HPS	480	472	476	475	10.98	457	11.34	-0.36
Uri-II HPS	240	240	242	245	5.75	240	5.76	-0.01
Dhauliganga-HPS	280	130	138	137	3.12	130	3.12	0.00
Dulhasti-HPS	390	352	272	398	8.59	358	8.44	0.15
Sewa-II HPS	120	119	129	125	3.03	126	2.86	0.17
Parbati 3	390	260	260	260	6.00	250	5.94	0.06
Sub Total ©	3935	3502	3517	3647	84	3501	84	0
D. SJVNL								
NJPC	1500	1605	1626	1632	38.83	1618	38.45	0.38
Rampur HEP	206	206	212	209	5.08	211	4.94	0.13
Sub Total (D)	1706	1811	1838	1841	43.90	1829	43.39	0.51
E. THDC								
Tehri HPS	1000	372	375	376	6.94	289	7.00	-0.06
Koteswar HPS	400	163	397	92	3.93	164	3.90	0.03
Sub Total (E)	1400	535	772	468	10.87	453	10.90	-0.03
F. BBMB								
Bhakra HPS	1514	848	1214	633	20.64	860	20.36	0.28
Dehar HPS	990	443	495	499	11.72	488	10.64	1.08
Pong HPS	396	238	364	124	5.85	244	5.72	0.14
Sub Total (F)	2900	1530	2073	1256	38.21	1592	36.72	1.49
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	228	228	5.42	226	5.19	0.23
KWHEP HPS(IPP)	1000	0	900	1130	21.81	909	23.82	-2.01
Malana Stg-II HPS	100	0	114	112	2.71	113	2.48	0.23
Shree Cement TPS	300	0	114	133	3.30	138	3.46	-0.16
Budhil HPS(IPP)	70	0	14	14	1.65	69	1.64	0.01
Sub Total (G)	1662	0	1370	1617	34.89	1454	36.60	-1.70
H. Total Regional Entities (A-G)	24221	17724	18979	17610	421.00	17542	421.67	-0.66

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	27	1144
	Guru Nanak Dev TPS(Bhatinda)	440	320	330	6	249
	Guru Hargobind Singh TPS(L.mbt)	920	843	922	18	743
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	431	537	11	445
	Talwandi Saboo	660	110	0	20.95	873
	Thermal (Total)	3980	2964	3049	83	3454
	Total Hydro	1148	840	840	20.95	873
	Total Punjab	5128	3804	3889	103.83	4326
Haryana	Panipat TPS	1367	499	464	12.21	509
	DCRTPP (Yamuna nagar)	600	257	271	6.08	253
	Faridabad GPS (NTPC)	432	165	190	4.10	171
	RGTPP (khedar) (IPP)	1200	470	0	5.20	217
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	374	561	10.78	449
	Thermal (Total)	4944	1765	1486	38	1598
	Total Hydro	62	22	15	0.48	20
	Total Haryana	5006	1787	1501	38.84	1619
	Rajasthan	kota TPS	1240	901	905	21.94
suratgarh TPS		1500	989	998	25.37	1057
Chabra TPS		750	523	524	13.52	564
Dholpur GPS		330	83	104	2.08	87
Ramgarh GPS		221	120	114	3.09	129
RAPS A (NPC)		300	170	170	4.15	173
Barsingsar (NLC)		250	175	170	3.92	163
Giral LTPS		250	53	54	1.00	42
Rajwest LTPS (IPP)		1080	835	561	19.54	814
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1063	1156	29.08	1212
Thermal (Total)		7976	4912	4756	124	5154
Total Hydro		550	0	0	0.00	0
Wind power		2191	542	909	16.44	685
Biomass		91	28	28	0.67	28
Solar		201	0	0	0.49	21
Renewable/Others (Total)		2483	570	937	18	733
Total Rajasthan		11009	5482	5693	141.30	5887
UP	Anpara TPS	1630	1452	1538	31.80	1325
	Obra TPS	1288	544	601	12.60	525
	Paricha TPS	1140	804	922	17.20	717
	Panki TPS	210	80	75	1.60	67
	Harduaganj TPS	665	422	354	8.70	363
	Tanda TPS (NTPC)	440	288	287	6.99	291
	Roza TPS (IPP)	1200	1098	1103	24.15	1006
	Anpara-C (IPP)	1200	1073	1067	25.60	1067
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	403	162	6.98	291
	Thermal (Total)	8223	6164	6109	136	5651
	Vishnuparyag HPS (IPP)	400	436	436	9.55	398
	Other Hydro	527	116	182	3.13	130
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6766	6777	149.50	5831
	Uttarakhand	Total Hydro	1303	754	666	17.41
Total Uttarakhand		1303	754	666	17.41	725
Delhi	Rajghat TPS	135	100	99	2.29	95
	Delhi Gas Turbine	282	166	145	3.67	153
	Pragati Gas Turbine	330	129	143	3.32	138
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	30	0	0.59	25
	Badarpur TPS (NTPC)	705	583	512	13.58	566
	Thermal (Total)	2917	1008	899	23.44	977
	Total Delhi	2917	1008	899	23.44	977
HP	Baspa HPS (IPP)	300	301	332	7.77	324
	Malana HPS (IPP)	86	103	103	2.43	101
	Other Hydro	728	609	601	13.87	578
	Total HP	1114	1013	1036	24.07	1003
J & K	Baglihar HPS (IPP)	450	438	438	10.52	438
	Other Hydro/IPP	436	93	44	1.39	58
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	531	482	11.91	496
Total State Control Area Generation		37702	21145	20943	510.30	20865
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6178	5274	141.07	5878
Total Regional Availability(Gross)		61923	46302	43827	1072.38	44285

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9442	8682	206.94	8623
State Control Area Hydro	5589	3276	3221	87.49	3248
Total Regional Hydro	16823	12718	11903	294.43	11870

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	12.01	0.00	12.01
Gwalior-Agra (D/C)	2040	1840	2377	0	46.31	0.00	46.31
Zerda-Kankroli	-117	-184	0	240	0.00	3.47	-3.47
Zerda-Bhinmal	-115	-80	0	214	0.00	2.86	-2.86
Malanpur-Auraiya	10	-12	10	41	0.00	0.06	-0.06
Badod-Kota/Morak	-42	-50	23	84	0.00	0.90	-0.90
Mundra-Mohindergarh(HVDC)	2152	2003	2157	0	49.99	0.00	49.99
Sub Total WR	4428	4017			108.31	7.29	101.02
Pusauli Bypass	350	100	350	0	4.13	0.00	4.13
MZP- GKP (D/C)	416	470	716	0	12.00	0.00	12.00
Patna-Balia(D/C)	344	40	443	0	5.29	0.00	5.29
B Sharif-Balia (D/C)	513	324	695	0	11.17	0.00	11.17
Pusauli-Balia	-4	-9	81	22	0.29	0.00	0.29
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	141	170	195	0	4.24	0.00	4.24
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)	-10	162	332	162	2.94	0.00	2.94
Sub Total ER	1750	1257			40.05	0.00	40.05
Total IR Exch	6178	5274			148.36	7.29	141.07

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
36.46	1.19	37.65	21.07	2.40	-19.37	13.53	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
39.35	88.03	127.37	40.05	101.02	141.07	0.70	12.99	13.70

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	4.66	21.51	42.54	74.20	44.26	9.24	3.97	0.00	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)	
50.17	3.38	49.60	12.49	49.91	0.22	0.12	50.19	49.75

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	406	17:58	399	00:02	0.0	0.0	0.0	0.0
Gorakhpur	400	428	12:30	107	15:35	0.6	0.6	56.3	0.0
Bareilly	400	408	08:03	391	00:13	0.0	0.0	0.0	0.0
Kanpur	400	411	18:33	399	00:08	0.0	0.0	0.0	0.0
Dadri	400	401	23:31	399	23:25	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:31	398	11:43	0.0	0.0	0.0	0.0
Bawana	400	411	08:03	393	14:43	0.0	0.0	0.0	0.0
Bassi	400	422	18:30	393	10:14	0.0	0.0	2.6	0.0
Hissar	400	406	18:01	387	13:51	0.0	12.5	0.0	0.0
Moga	400	411	17:49	388	11:41	0.0	2.8	0.0	0.0
Abdullapur	400	412	07:21	396	14:46	0.0	0.0	0.0	0.0
Nalagarh	400	405	08:01	385	14:08	0.0	17.6	0.0	0.0
Kishenpur	400	412	17:06	398	11:20	0.0	0.0	0.0	0.0
Wagoora	400	409	00:00	389	00:00	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	760	18:32	733	00:08	0.0	31.5	0.0	0.0
Balia	765	766	03:39	740	15:50	0.0	0.6	0.0	0.0
Moga	765	797	17:43	744	11:44	0.0	0.0	0.0	0.0
Agra	765	783	18:33	745	11:44	0.0	0.0	0.0	0.0
Bhiwani	765	789	18:33	751	11:42	0.0	0.0	0.0	0.0
Unnao	765	746	06:10	720	15:33	16.6	84.5	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 16.06.2014 :

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 : 16.06.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER