

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.06.2014
Date of Reporting : 19.06.2014

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
42448	1948	44396	49.83	44445	2200	46645	50.11	1040.9	60.51

* 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	74.40	20.27		94.67	118.49	117.38	-1.12	212.05	0.65
Haryana	54.62	0.57		55.19	105.58	104.76	-0.82	159.95	5.06
Rajasthan	120.57	0.24	23.34	144.14	52.33	52.99	0.66	197.13	1.49
Delhi	32.63			32.63	85.38	84.80	-0.58	117.44	0.00
UP	145.91	9.82	1.20	156.93	119.48	119.44	-0.04	276.37	47.00
Uttarakhand		16.77		16.77	18.11	18.68	0.57	35.45	1.71
HP		22.27		22.27	-4.91	0.81	5.72	23.08	2.80
J & K		0.00	0.00	0.00	14.36	12.97	-1.39	12.97	1.80
Chandigarh				0.00	5.31	6.48	1.17	6.48	0.00
Total	428.14	69.93	24.54	522.61	514.12	518.31	4.18	1040.91	60.51

* 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	8991	0	-84	1288	9185	0	-92	1700	38.67	
Haryana	6354	13	-383	616	6883	0	-88	950	17.14	
Rajasthan	7336	0	59	-180	8357	0	161	153	-0.35	
Delhi	4517	0	-546	451	4728	0	117	279	11.80	
UP	11024	1760	-23	535	11741	2200	-32	960	16.34	
Uttarakhand	1714	75	190	246	1458	0	-63	246	5.21	
HP	955	0	312	-1123	948	0	67	-1396	-28.10	
J&K	1293	100	86	-410	905	0	-24	-788	-13.51	
Chandigarh	265	0	36	40	239	0	48	0	0.63	
Total	42448	1948	-353	1463	44445	2200	95	2104	47.83	

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

III. Regional Entities :

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

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI	
								Net MU	Net MU
A. NTPC									
Singrauli STPS	2000	1403	1553	1539	33.31	1388	33.61		-0.30
Rihand I STPS	1000	807	887	841	19.16	798	18.92		0.25
Rihand II STPS	1000	470	519	317	11.19	466	11.11		0.08
Rihand III STPS	1000	840	862	883	19.92	830	19.78		0.14
Dadri I STPS	840	813	857	797	18.03	751	18.68		-0.65
Dadri II STPS	980	966	932	983	21.97	915	22.74		-0.78
Unchahar I TPS	420	404	408	407	9.71	404	9.52		0.19
Unchahar II TPS	420	393	413	384	9.45	394	9.05		0.40
Unchahar III TPS	210	202	205	209	4.90	204	4.63		0.27
ISTPP (Jhajjar)	1500	1410	1129	1445	30.57	1274	32.28		-1.71
Dadri GPS	830	793	320	182	5.51	230	6.17		-0.66
Anta GPS	419	278	247	243	5.62	234	5.52		0.10
Auraiya GPS	663	475	148	152	3.40	142	3.49		-0.09
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	9258	8480	8382	193	8031	196		-3
B. NPC									
NAPS	440	266	303	305	6.44	268	6.38		0.05
RAPS- B	440	392	432	443	9.35	390	9.41		-0.06
RAPS- C	440	200	222	223	4.60	192	4.80		-0.20
Sub Total (B)	1320	858	957	971	20.39	850	20.59		-0.20
C. NHPC									
Chamera I HPS	540	536	540	540	12.97	540	12.86		0.11
Chamera II HPS	300	303	308	307	7.32	305	7.27		0.05
Chamera III HPS	231	229	235	232	5.60	233	5.50		0.10
Bairasui HPS	180	136	180	180	3.40	142	3.26		0.14
Salal-HPS	690	614	656	641	14.90	621	14.74		0.16
Tanakpur-HPS	94	67	60	80	1.64	68	1.60		0.04
Uri-HPS	480	475	478	476	11.50	479	11.40		0.10
Uri-II HPS	240	240	249	242	5.82	242	5.76		0.06
Dhauliganga-HPS	280	108	137	137	3.19	133	2.55		0.64
Dulhasti-HPS	390	258	271	259	6.36	265	6.19		0.17
Sewa-II HPS	120	119	130	130	3.03	126	2.86		0.17
Parbati 3	390	180	30	65	4.16	173	4.29		-0.13
Sub Total ©	3935	3264	3274	3289	80	3328	78		2
D. SJVNL									
NJPC	1500	783	0	1623	18.75	781	19.22		-0.48
Rampur HEP	206	127	0	279	4.16	173	3.06		1.10
Sub Total (D)	1706	910	0	1902	22.91	955	22.28		0.62
E. THDC									
Tehri HPS	1000	375	389	377	8.66	361	8.50		0.16
Koteshwar HPS	400	208	400	100	4.84	202	4.80		0.04
Sub Total (E)	1400	583	789	477	13.51	563	13.30		0.21
F. BBMB									
Bhakra HPS	1514	856	1210	633	20.70	863	20.54		0.16
Dehar HPS	990	480	495	495	11.87	495	11.52		0.35
Pong HPS	396	218	364	61	5.41	225	5.22		0.19
Sub Total (F)	2900	1553	2069	1189	37.98	1583	37.28		0.70
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	227	229	5.41	226	5.25		0.16
KWHEP HPS(IPP)	1000	0	0	900	9.79	408	12.06		-2.27
Malana Stg-II HPS	100	0	114	114	2.73	114	2.54		0.19
Shree Cement TPS	300	0	222	204	5.17	215	4.94		0.23
Budhil HPS(IPP)	70	0	71	70	1.68	70	1.64		0.04
Sub Total (G)	1662	0	634	1517	24.78	1032	26.43		-1.65
H. Total Regional Entities (A-G)	24221	16427	16203	17727	392.19	16341	393.77		-1.58

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	1153
	Guru Nanak Dev TPS(Bhatinda)	440	332	332	7	291
	Guru Hargobind Singh TPS(L.mbt)	920	925	921	20	824
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	542	393	9	365
	Talwandi Saboo	660	572	478	11.19	466
	Thermal (Total)	3980	3631	3384	74	3100
	Total Hydro	1148	931	835	20.27	845
Total Punjab	5128	4562	4219	94.67	3945	
Haryana	Panipat TPS	1367	526	529	12.50	521
	DCRTPP (Yamuna nagar)	600	532	538	12.69	529
	Faridabad GPS (NTPC)	432	194	189	4.46	186
	RGTPP (khedar) (IPP)	1200	505	541	12.46	519
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	572	559	12.51	521
	Thermal (Total)	4944	2329	2356	55	2276
	Total Hydro	62	26	22	0.57	24
	Total Haryana	5006	2355	2378	55.19	2300
	Rajasthan	kota TPS	1240	911	982	22.38
suratgarh TPS		1500	1011	997	24.77	1032
Chabra TPS		750	538	550	13.08	545
Dholpur GPS		330	106	108	2.55	106
Ramgarh GPS		221	87	118	2.75	115
RAPS A (NPC)		300	170	170	4.08	170
Barsingsar (NLC)		250	174	174	4.16	173
Giral LTPS		250	67	63	1.58	66
Rajwest LTPS (IPP)		1080	750	722	19.47	811
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1055	933	25.75	1073
Thermal (Total)		7976	4869	4817	121	5024
Total Hydro		550	0	0	0.24	10
Wind power		2798	604	1206	21.88	912
Biomass		99	30	30	0.72	30
Solar		730	0	0	0.74	31
Renewable/Others (Total)		3627	634	1236	23	972
Total Rajasthan	12153	5503	6053	144.14	6006	
UP	Anpara TPS	1630	1399	1428	34.10	1421
	Obra TPS	1288	576	585	13.70	571
	Paricha TPS	1140	830	657	18.70	779
	Panki TPS	210	170	170	4.00	167
	Harduaganj TPS	665	422	430	10.20	425
	Tanda TPS (NTPC)	440	287	286	7.03	293
	Roza TPS (IPP)	1200	1107	1098	25.91	1080
	Anpara-C (IPP)	1200	986	988	23.67	986
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	406	401	8.61	359
	Thermal (Total)	8223	6183	6043	146	6080
	Vishnuparyag HPS (IPP)	400	436	0	5.99	250
	Other Hydro	527	188	146	3.83	160
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6857	6239	156.93	6289
Uttarakhand	Total Hydro	1303	731	739	16.77	699
	Total Uttarakhand	1303	731	739	16.77	699
Delhi	Rajghat TPS	135	109	100	2.65	110
	Delhi Gas Turbine	282	173	179	4.21	175
	Pragati Gas Turbine	330	283	140	6.52	272
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	468	281	8.03	334
	Badarpur TPS (NTPC)	705	415	425	11.23	468
	Thermal (Total)	2917	1448	1125	32.63	1360
	Total Delhi	2917	1448	1125	32.63	1360
HP	Baspa HPS (IPP)	300	302	333	7.70	321
	Malana HPS (IPP)	86	104	103	2.46	103
	Other Hydro	728	410	420	12.10	504
	Total HP	1114	816	856	22.27	928
J & K	Baglihar HPS (IPP)	450	438	440	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	438	440	0.00	0
Total State Control Area Generation		38846	22710	22049	522.61	21526
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			6292	5597	141.00	5875
Total Regional Availability(Gross)		63067	45205	45373	1055.80	43742

IV. Total Hydro Generation:

Regional Entities Hydro	11233	6473	8100	172.20	7175
State Control Area Hydro	5589	3130	3038	69.93	2664
Total Regional Hydro	16823	9603	11138	242.14	9839

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	12.00	0.00	12.00
Gwalior-Agra (D/C)	1899	1780	2529	0	43.01	0.00	43.01
Zerda-Kankroli	-137	-198	0	368	0.00	4.79	-4.79
Zerda-Bhinmal	-134	-226	0	357	0.00	4.63	-4.63
Malanpur-Auraiya	-36	-11	0	83	0.00	0.67	-0.67
Badod-Kota/Morak	-40	-69	0	116	0.00	1.48	-1.48
Mundra-Mohindergarh(HVDC)	2299	2150	2351	0	53.08	0.00	53.08
Sub Total WR	4351	3926			108.09	11.57	96.52
Pusaui Bypass	400	400	400	0	9.71	0.00	9.71
MZP- GKP (D/C)	380	386	780	0	10.34	0.00	10.34
Patna-Balia(D/C)	527	259	636	0	9.37	0.00	9.37
B'Sharif-Balia (D/C)	371	472	722	0	11.04	0.00	11.04
Pusaui-Balia	-32	19	42	32	0.00	0.03	-0.03
Gaya-Fatehpur (765 Kv)	63	-52	244	101	0.00	1.64	-1.64
Pusaui-Sahupuri	170	162	191	0	3.88	0.00	3.88
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)	62	25	256	40	1.80	0.00	1.80
Sub Total ER	1941	1671			46.15	1.66	44.48
Total IR Exch	6292	5597			154.24	13.23	141.00

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
37.09	1.33	38.42	19.08	4.87	-12.76	17.77	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
44.74	91.64	136.38	44.48	96.52	141.00	-0.25	4.88	4.62

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	8.74	19.82	44.55	74.09	43.92	7.82	3.28	0.43	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				
50.23	17.02	49.43	22.04	49.91	0.27	0.13	50.17	49.64

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	403	04:04	398	13:53	0.0	0.0	0.0	0.0
Gorakhpur	400	427	06:06	414	14:36	0.0	0.0	62.7	0.0
Bareilly	400	414	04:05	394	15:49	0.0	0.0	0.0	0.0
Kanpur	400	414	04:05	396	15:47	0.0	0.0	0.0	0.0
Dadri	400	409	04:03	390	15:47	0.0	0.0	0.0	0.0
Ballabgarh	400	416	04:03	394	15:43	0.0	0.0	0.0	0.0
Bawana	400	412	04:03	395	15:47	0.0	0.0	0.0	0.0
Bassi	400	419	19:05	394	11:16	0.0	0.0	0.0	0.0
Hissar	400	407	17:03	388	15:43	0.0	1.0	0.0	0.0
Moga	400	412	13:02	398	11:16	0.0	0.0	0.0	0.0
Abdullapur	400	421	17:02	396	15:47	0.0	0.0	0.3	0.0
Nalagarh	400	417	17:03	391	11:16	0.0	0.0	0.0	0.0
Kishenpur	400	413	13:02	400	15:49	0.0	0.0	0.0	0.0
Wagoora	400	401	03:00	392	08:00	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	766	04:04	730	15:47	0.0	16.1	0.0	0.0
Balia	765	771	17:46	745	22:10	0.0	0.0	0.0	0.0
Moga	765	799	17:47	772	11:16	0.0	0.0	0.0	0.0
Agra	765	786	04:06	741	15:45	0.0	0.1	0.0	0.0
Bhiwani	765	788	04:03	755	15:45	0.0	0.0	0.0	0.0
Unnao	765	749	19:07	725	15:48	3.9	80.1	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 18.06.2014 :

1. Hot & Humid weather.

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 : 18.06.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER