

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.06.2014
Date of Reporting : 18.06.2014

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
43444	1858	45302	49.77	43800	2205	46005	50.08	1049.9	52.85

* 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	71.81	21.51		93.32	125.60	125.99	0.39	219.31	0.00
Haryana	46.11	0.53		46.64	109.76	107.05	-2.71	153.69	0.07
Rajasthan	122.38	0.74	22.55	145.67	58.06	55.34	-2.71	201.01	0.00
Delhi	29.18			29.18	84.76	85.23	0.48	114.41	0.00
UP	133.15	3.91	1.20	138.27	124.70	125.30	0.59	263.56	50.98
Uttarakhand		17.46		17.46	19.88	21.04	1.16	38.49	0.09
HP		24.54		24.54	0.55	0.81	0.26	25.35	0.02
J & K		11.92	0.00	11.92	16.10	15.38	-0.72	27.30	1.70
Chandigarh				0.00	5.41	6.76	1.35	6.76	0.00
Total	402.63	80.61	23.75	506.99	544.80	542.90	-1.90	1049.89	52.85

* 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	9093	0	-121	1584	9286	0	-30	2016	44.45	
Haryana	6916	13	-73	762	6532	0	-68	1043	18.65	
Rajasthan	7224	0	-195	-173	8227	0	-61	164	1.90	
Delhi	4901	0	41	422	4612	0	102	262	8.83	
UP	11226	1745	-4	503	11506	2205	-47	661	12.63	
Uttarakhand	1507	0	-65	248	1612	0	51	249	6.88	
HP	955	0	-111	-1147	948	0	132	-1472	-29.60	
J&K	1349	100	50	-459	827	0	-128	-743	-13.89	
Chandigarh	274	0	36	10	250	0	59	0	0.54	
Total	43444	1858	-441	1750	43800	2205	10	2181	50.39	

* 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	1410	1547	1528	33.62	1401	33.79		-0.17
Rihand I STPS	1000	865	942	950	20.69	862	20.71		-0.02
Rihand II STPS	1000	465	473	513	11.05	460	11.02		0.03
Rihand III STPS	1000	873	807	946	20.56	857	20.68		-0.12
Dadri I STPS	840	813	879	853	18.62	776	19.26		-0.64
Dadri II STPS	980	966	1009	915	22.00	917	22.97		-0.97
Unchahar I TPS	420	396	408	401	8.65	360	9.33		-0.68
Unchahar II TPS	420	384	353	368	8.14	339	8.92		-0.78
Unchahar III TPS	210	202	199	212	4.47	186	4.63		-0.16
ISTPP (Jhajjar)	1500	1410	1463	1473	33.01	1375	33.29		-0.28
Dadri GPS	830	797	174	178	3.97	166	4.20		-0.23
Anta GPS	419	384	243	243	5.56	232	5.46		0.09
Auraiya GPS	663	476	147	147	3.32	138	3.36		-0.04
Dadri Solar	5	1	0	0	0.02	1	0.03		-0.01
Unchahar Solar	10	3	0	0	0.00	0	0.07		-0.07
Sub Total (A)	11297	9445	8644	8727	194	8070	198		-4
B. NPC									
NAPS	440	270	304	314	6.40	267	6.48		-0.08
RAPS- B	440	394	428	442	9.33	389	9.46		-0.12
RAPS- C	440	200	219	225	4.77	199	4.80		-0.03
Sub Total (B)	1320	864	951	981	20.50	854	20.74		-0.23
C. NHPC									
Chamera I HPS	540	536	540	540	12.99	541	12.86		0.13
Chamera II HPS	300	303	307	308	7.40	308	7.27		0.13
Chamera III HPS	231	229	240	230	5.60	233	5.50		0.10
Bairasui HPS	180	180	180	180	4.38	183	4.32		0.06
Salal-HPS	690	612	661	645	15.06	628	14.55		0.51
Tanakpur-HPS	94	79	90	73	1.98	82	1.90		0.07
Uri-HPS	480	475	477	477	11.55	481	11.40		0.15
Uri-II HPS	240	240	245	243	5.80	242	5.76		0.04
Dhauliganga-HPS	280	133	137	137	3.18	133	3.19		0.00
Dulhasti-HPS	390	258	273	275	6.36	265	6.19		0.17
Sewa-II HPS	120	119	130	130	3.00	125	2.86		0.14
Parbati 3	390	249	264	256	5.90	246	5.94		-0.04
Sub Total ©	3935	3414	3544	3494	83	3466	82		1
D. SJVNL									
NJPC	1500	1605	1353	1625	38.33	1597	38.45		-0.12
Rampur HEP	206	206	207	212	5.01	209	4.94		0.07
Sub Total (D)	1706	1811	1560	1837	43.34	1806	43.39		-0.06
E. THDC									
Tehri HPS	1000	375	381	281	7.63	318	7.50		0.13
Koteshwar HPS	400	175	400	100	4.05	169	4.05		0.00
Sub Total (E)	1400	550	781	381	11.68	487	11.55		0.13
F. BBMB									
Bhakra HPS	1514	857	1216	623	20.88	870	20.58		0.30
Dehar HPS	990	480	495	495	11.91	496	11.52		0.39
Pong HPS	396	236	364	121	5.82	243	5.67		0.15
Sub Total (F)	2900	1574	2075	1239	38.61	1609	37.77		0.84
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	230	230	5.41	226	5.28		0.13
KWHEP HPS(IPP)	1000	0	900	900	20.92	872	21.60		-0.68
Malana Stg-II HPS	100	0	114	114	2.74	114	2.51		0.22
Shree Cement TPS	300	0	181	137	4.07	170	4.02		0.05
Budhil HPS(IPP)	70	0	71	70	1.67	69	1.64		0.03
Sub Total (G)	1662	0	1496	1451	34.81	1450	35.06		-0.25
H. Total Regional Entities (A-G)	24221	17657	19051	18110	425.81	17742	427.95		-2.14

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	1164
	Guru Nanak Dev TPS(Bhatinda)	440	329	334	7	296
	Guru Hargobind Singh TPS(L.mbt)	920	901	923	20	837
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	218	363	8	333
	Talwandi Saboo	660	397	323	8.69	362
	Thermal (Total)	3980	3105	3203	72	2992
	Total Hydro	1148	898	841	21.51	896
	Total Punjab	5128	4003	4044	93.32	3888
Haryana	Panipat TPS	1367	526	506	12.26	511
	DCRTPP (Yamuna nagar)	600	254	265	6.56	273
	Faridabad GPS (NTPC)	432	190	190	4.19	175
	RGTPP (khedar) (IPP)	1200	572	549	12.26	511
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	547	374	10.83	451
	Thermal (Total)	4944	2089	1884	46	1921
	Total Hydro	62	23	22	0.53	22
	Total Haryana	5006	2112	1906	46.64	1943
Rajasthan	kota TPS	1240	896	908	21.55	898
	suratgarh TPS	1500	978	1002	24.79	1033
	Chabra TPS	750	536	545	13.41	559
	Dholpur GPS	330	107	85	2.51	104
	Ramgarh GPS	221	117	116	3.15	131
	RAPS A (NPC)	300	170	170	4.18	174
	Barsingsar (NLC)	250	174	174	3.98	166
	Giral LTPS	250	63	63	1.39	58
	Rajwest LTPS (IPP)	1080	718	826	19.49	812
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1034	1162	27.95	1164
	Thermal (Total)	7976	4793	5051	122	5099
	Total Hydro	550	33	0	0.74	31
	Wind power	2191	862	616	21.14	881
	Biomass	91	29	29	0.71	29
	Solar	201	0	0	0.71	29
	Renewable/Others (Total)	2483	891	645	23	940
	Total Rajasthan	11009	5717	5696	145.67	6070
UP	Anpara TPS	1630	1487	1430	30.90	1288
	Obra TPS	1288	587	582	12.70	529
	Paricha TPS	1140	743	830	17.30	721
	Panki TPS	210	170	80	2.80	117
	Harduaganj TPS	665	262	428	5.00	208
	Tanda TPS (NTPC)	440	277	281	7.70	321
	Roza TPS (IPP)	1200	1107	1103	26.01	1084
	Anpara-C (IPP)	1200	1080	1071	22.43	935
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	321	401	8.31	346
	Thermal (Total)	8223	6034	6206	133	5548
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	146	212	3.91	163
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6230	6468	138.27	5761
Uttarakhand	Total Hydro	1303	725	728	17.46	727
	Total Uttarakhand	1303	725	728	17.46	727
Delhi	Rajghat TPS	135	99	99	2.35	98
	Delhi Gas Turbine	282	169	175	4.07	170
	Pragati Gas Turbine	330	134	139	3.22	134
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	273	219	5.97	249
	Badarpur TPS (NTPC)	705	675	600	13.56	565
	Thermal (Total)	2917	1350	1232	29.18	1216
	Total Delhi	2917	1350	1232	29.18	1216
HP	Baspa HPS (IPP)	300	302	333	7.70	321
	Malana HPS (IPP)	86	104	103	2.46	103
	Other Hydro	728	596	563	14.38	599
	Total HP	1114	1002	999	24.54	1023
J & K	Baglihar HPS (IPP)	450	438	440	10.52	438
	Other Hydro/IPP	436	93	44	1.40	58
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	531	484	11.92	497
Total State Control Area Generation		37702	21670	21557	506.99	21125
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5900	6404	144.22	6009
Total Regional Availability(Gross)		61923	46621	46071	1077.02	44876

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9204	8195	205.89	8579
State Control Area Hydro	5589	3358	3286	80.61	3359
Total Regional Hydro	16823	12562	11481	286.50	11938

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)	2006	2123	2285	0	48.45	0.00	48.45
Zerda-Kankroli	-148	-64	0	194	0.00	3.01	-3.01
Zerda-Bhinmal	-159	-49	0	223	0.00	2.82	-2.82
Malanpur-Auraiya	20	7	49	0	0.18	0.00	0.18
Badod-Kota/Morak	-71	-18	0	103	0.00	0.85	-0.85
Mundra-Mohindergarh(HVDC)	2046	2047	2048	0	48.95	0.00	48.95
Sub Total WR	4194	4546			109.59	6.69	102.90
Pusaui Bypass	400	200	400	0	6.55	0.00	6.55
MZP- GKP (D/C)	448	520	620	0	10.75	0.00	10.75
Patna-Balia(D/C)	136	350	427	0	7.15	0.00	7.15
B Sharif-Balia (D/C)	543	557	688	0	11.61	0.00	11.61
Pusaui-Balia	10	26	63	45	0.20	0.00	0.20
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	160	173	177	0	3.83	0.00	3.83
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)	9	32	192	134	1.22	0.00	1.22
Sub Total ER	1706	1858			41.31	0.00	41.31
Total IR Exch	5900	6404			150.90	6.69	144.22

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
33.64	1.11	34.75	20.11	4.25	-15.32	18.06	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
39.54	94.21	133.75	41.31	102.90	144.22	1.77	8.70	10.47

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	5.94	16.92	34.40	66.32	47.50	10.91	6.75	0.47	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				
50.24	18.03	49.40	22.07	49.93	0.22	0.13	50.23	49.59

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	405	06:11	398	22:05	0.0	0.0	0.0	0.0
Gorakhpur	400	439	06:50	412	22:06	0.0	0.0	84.7	20.8
Bareilly	400	412	18:06	395	13:39	0.0	0.0	0.0	0.0
Kanpur	400	414	06:03	398	15:18	0.0	0.0	0.0	0.0
Dadri	400	409	06:04	390	14:55	0.0	0.0	0.0	0.0
Ballabgarh	400	417	06:04	395	15:19	0.0	0.0	0.0	0.0
Bawana	400	412	06:07	394	14:48	0.0	0.0	0.0	0.0
Bassi	400	420	19:01	395	10:21	0.0	0.0	0.0	0.0
Hissar	400	408	18:01	388	14:11	0.0	5.0	0.0	0.0
Moga	400	411	23:58	396	14:11	0.0	0.0	0.0	0.0
Abdullapur	400	412	06:04	396	14:08	0.0	0.0	0.0	0.0
Nalagarh	400	407	23:54	386	10:20	0.0	6.6	0.0	0.0
Kishenpur	400	411	23:56	399	14:12	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	768	18:08	733	15:19	0.0	9.9	0.0	0.0
Balia	765	780	07:05	734	22:09	0.0	2.3	0.0	0.0
Moga	765	798	18:02	768	14:11	0.0	0.0	0.0	0.0
Agra	765	787	18:37	748	15:18	0.0	0.0	0.0	0.0
Bhiwani	765	791	18:31	756	13:40	0.0	0.0	0.0	0.0
Unnao	765	753	06:11	726	15:44	1.7	58.0	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 17.06.2014 :

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 : 17.06.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER