

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.06.2014
Date of Reporting : 10.06.2014

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
42377	2367	44744	49.91	42079	2070	44149	50.17	1007.1	59.36

* 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	53.95	16.97		70.92	101.38	100.10	-1.28	171.02	3.53
Haryana	64.81	0.59		65.39	85.77	82.57	-3.20	147.97	0.00
Rajasthan	103.19	0.00	15.11	118.30	81.40	82.76	1.36	201.06	0.00
Delhi	27.86			27.86	84.37	83.64	-0.74	111.50	1.67
UP	131.48	14.77	1.20	147.44	133.08	132.98	-0.10	280.43	50.81
Uttarakhand		17.22		17.22	18.06	19.45	1.39	36.67	1.65
HP		24.19		24.19	0.01	0.00	-0.01	24.19	0.00
J & K		13.65	0.00	13.65	16.34	14.20	-2.14	27.85	1.70
Chandigarh				0.00	5.52	6.44	0.92	6.44	0.00
Total	381.29	87.39	16.31	484.98	525.93	522.14	-3.79	1007.12	59.36

* 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	7488	0	-7	1111	7430	0	41	1239	21.94
Haryana	6448	0	-162	168	6450	0	-68	590	9.85
Rajasthan	7523	0	-50	524	7990	0	115	508	18.64
Delhi	4737	57	117	393	4605	55	-79	451	10.02
UP	11944	2135	180	658	12194	2015	-44	1188	16.72
Uttarakhand	1695	75	115	210	1445	0	-20	162	4.53
HP	973	0	-93	-1215	795	0	-23	-1403	-29.10
J&K	1304	100	-66	-394	930	0	-118	-739	-13.01
Chandigarh	266	0	27	25	240	0	49	0	0.71
Total	42377	2367	60	1479	42079	2070	-147	1997	40.31

* 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	1881	2046	2035	45.11	1880	44.43	0.68	
Rihand I STPS	1000	818	881	918	19.79	825	19.35	0.44	
Rihand II STPS	1000	457	510	522	11.10	463	10.85	0.25	
Rihand III STPS	1000	848	851	961	20.00	833	20.14	-0.14	
Dadri I STPS	840	813	868	710	17.92	747	18.71	-0.79	
Dadri II STPS	980	966	916	715	20.64	860	21.50	-0.86	
Unchahar I TPS	420	400	419	387	8.96	373	9.45	-0.49	
Unchahar II TPS	420	400	395	401	9.07	378	9.36	-0.29	
Unchahar III TPS	210	200	191	206	4.54	189	4.63	-0.10	
ISTPP (Jhajihar)	1500	1473	1444	956	25.83	1076	27.68	-1.84	
Dadri GPS	830	795	168	170	3.94	164	4.31	-0.38	
Anta GPS	419	385	240	234	5.56	232	5.54	0.01	
Auraiya GPS	663	420	141	143	3.28	137	3.31	-0.03	
Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01	
Unchahar Solar	10	3	0	0	0.03	1	0.07	-0.04	
Sub Total (A)	11297	9859	9070	8358	196	8158	199	-4	
B. NPC									
NAPS	440	268	303	310	6.39	266	6.43	-0.04	
RAPS- B	440	386	402	437	8.99	374	9.26	-0.28	
RAPS- C	440	200	220	222	4.77	199	4.80	-0.03	
Sub Total (B)	1320	854	925	969	20.15	840	20.50	-0.35	
C. NHPC									
Chamera I HPS	540	534	540	540	12.97	540	12.82	0.15	
Chamera II HPS	300	303	309	313	7.43	310	7.27	0.16	
Chamera III HPS	231	229	240	226	5.62	234	5.50	0.12	
Bairasui HPS	180	180	180	180	4.06	169	3.96	0.10	
Salal-HPS	690	643	674	664	15.93	664	15.48	0.45	
Tanakpur-HPS	94	75	87	72	1.86	77	1.81	0.05	
Uri-HPS	480	469	477	476	11.52	480	11.40	0.12	
Uri-II HPS	240	240	245	244	5.84	243	5.76	0.08	
Dhauliganga-HPS	280	67	68	68	1.54	64	1.60	-0.06	
Dulhasti-HPS	390	387	404	382	9.43	393	9.30	0.13	
Sewa-II HPS	120	122	130	129	3.07	128	2.93	0.14	
Parbati 3	390	245	264	262	5.00	208	5.31	-0.31	
Sub Total ©	3935	3495	3618	3556	84	3511	83	1	
D. SJVNL									
NJPC	1500	1605	1604	1610	38.51	1605	38.45	0.06	
Rampur HEP	206	206	220	214	5.14	214	4.94	0.19	
Sub Total (D)	1706	1811	1824	1824	43.65	1819	43.40	0.25	
E. THDC									
Tehri HPS	1000	375	378	374	6.07	253	6.00	0.07	
Koteshwar HPS	400	138	400	91	3.35	140	3.30	0.05	
Sub Total (E)	1400	513	778	465	9.42	393	9.30	0.12	
F. BBMB									
Bhakra HPS	1514	700	1185	476	17.24	718	16.79	0.45	
Dehar HPS	990	568	660	660	14.28	595	13.63	0.65	
Pong HPS	396	234	368	62	5.94	248	5.61	0.33	
Sub Total (F)	2900	1501	2213	1198	37.46	1561	36.03	1.43	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	203	199	4.73	197	4.79	-0.05	
KWHEP HPS(IPP)	1000	0	1200	1125	28.17	1174	28.51	-0.34	
Malana Stg-II HPS	100	0	111	90	1.95	81	1.83	0.12	
Shree Cement TPS	300	0	278	255	6.70	279	6.70	-0.01	
Budhil HPS(IPP)	70	0	14	14	1.66	69	1.64	0.02	
Sub Total (G)	1662	0	1806	1683	43.21	1800	43.47	-0.27	
H. Total Regional Entities (A-G)	24221	18032	20234	18053	433.93	18080	435.19	-1.26	

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	1072	1230	27	1121
	Guru Nanak Dev TPS(Bhatinda)	440	190	95	2	103
	Guru Hargobind Singh TPS(L.mbt)	920	686	710	16	664
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	386	328	9	361
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2334	2363	54	2248
	Total Hydro	1148	704	566	16.97	707
Total Punjab	5128	3038	2929	70.92	2955	
Haryana	Panipat TPS	1367	856	651	18.21	759
	DCRTPP (Yamuna nagar)	600	510	544	12.27	511
	Faridabad GPS (NTPC)	432	179	183	4.22	176
	RGTPP (khedar) (IPP)	1200	470	253	10.14	422
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	900	19.97	832
	Thermal (Total)	4944	2759	2531	65	2700
	Total Hydro	62	23	26	0.59	25
	Total Haryana	5006	2782	2557	65.39	2725
Rajasthan	kota TPS	1240	909	902	20.26	2725
	suratgarh TPS	1500	1043	1009	25.40	844
	Chabra TPS	750	388	411	9.73	578
	Dholpur GPS	330	104	104	2.04	130
	Ramgarh GPS	221	103	104	2.83	30
	RAPS A (NPC)	300	170	170	4.09	118
	Barsingsar (NLC)	250	134	181	3.40	104
	Giral LTPS	250	77	77	1.85	71
	Rajwest LTPS (IPP)	1080	836	699	19.18	450
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	595	600	14.41	804
	Thermal (Total)	7976	4359	4257	103	4300
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	205	714	13.58	296
	Biomass	91	32	32	0.77	31
	Solar	201	0	0	0.76	18
Renewable/Others (Total)	2483	237	746	15	630	
Total Rajasthan	11009	4596	5003	118.30	4929	
UP	Anpara TPS	1630	1498	1528	32.50	1354
	Obra TPS	1288	396	570	10.60	442
	Paricha TPS	1140	337	320	7.00	292
	Panki TPS	210	160	170	3.40	142
	Harduaganj TPS	665	440	442	9.10	379
	Tanda TPS (NTPC)	440	378	375	9.28	387
	Roza TPS (IPP)	1200	1080	1107	26.58	1108
	Anpara-C (IPP)	1200	1023	1062	24.89	1037
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	322	360	8.13	339
	Thermal (Total)	8223	5634	5934	131	5478
	Vishnuparyag HPS (IPP)	400	436	435	10.35	431
	Other Hydro	527	209	157	4.42	184
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6329	6576	147.44	5712
Uttarakhand	Total Hydro	1303	744	712	17.22	718
	Total Uttarakhand	1303	744	712	17.22	718
Delhi	Rajghat TPS	135	85	98	1.87	78
	Delhi Gas Turbine	282	122	127	2.92	122
	Pragati Gas Turbine	330	131	137	3.24	135
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	275	270	6.38	266
	Badarpur TPS (NTPC)	705	685	590	13.46	561
	Thermal (Total)	2917	1298	1222	27.86	1161
	Total Delhi	2917	1298	1222	27.86	1161
HP	Baspa HPS (IPP)	300	301	331	7.71	321
	Malana HPS (IPP)	86	86	91	1.91	80
	Other Hydro	728	638	601	14.57	607
	Total HP	1114	1025	1023	24.19	1008
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438
	Other Hydro/IPP	436	132	128	3.14	131
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	570	566	13.65	569
Total State Control Area Generation		37702	20382	20588	484.98	19776
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4707	4646	106.35	4431
Total Regional Availability(Gross)		61923	45323	43287	1025.26	42288

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9947	8457	209.64	8735
State Control Area Hydro	5589	3275	3050	87.39	3210
Total Regional Hydro	16823	13222	11507	297.03	11945

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	100	500	500	0	6.48	0.00	6.48
Gwalior-Agra (D/C)	1866	1582	1924	0	33.96	0.00	33.96
Zerda-Kankroli	-20	-77	0	200	0.00	2.70	-2.70
Zerda-Bhinmal	-3	-50	30	162	0.00	1.63	-1.63
Malanpur-Auraiya	-59	-51	0	92	0.00	1.33	-1.33
Badod-Kota/Morak	-12	-1	53	64	0.00	0.58	-0.58
Mundra-Mohindergarh(HVDC)	1602	1252	1804	0	33.58	0.00	33.58
Sub Total WR	3474	3155			74.02	6.24	67.78
Pusaui Bypass	400	400	400	0	9.64	0.00	9.64
MZP- GKP (D/C)	296	414	660	0	10.58	0.00	10.58
Patna-Balia(D/C)	70	97	189	0	2.65	0.00	2.65
B'Sharif-Balia (D/C)	343	345	493	0	9.41	0.00	9.41
Pusaui-Balia	-33	-39	0	59	0.00	0.75	-0.75
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	114	161	187	0	3.84	0.00	3.84
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)	43	113	228	45	3.19	0.00	3.19
Sub Total ER	1233	1491			39.32	0.75	38.57
Total IR Exch	4707	4646			113.34	6.99	106.35

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
30.50	1.42	31.92	7.80	0.74	2.71	-0.34	0.34	-0.34

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
42.78	68.02	110.80	38.57	67.78	106.35	-4.21	-0.24	-4.45

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	7.10	21.50	41.70	71.30	42.80	9.30	5.40	0.60	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)	
50.28	18.04	49.57	14.49	49.92	0.25	0.13	50.27	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	409	18:04	400	00:08	0.0	0.0	0.0	0.0
Gorakhpur	400	404	21:05	391	04:46	0.0	0.0	0.0	0.0
Bareilly	400	407	13:14	391	00:14	0.0	0.0	0.0	0.0
Kanpur	400	414	18:16	397	00:08	0.0	0.0	0.0	0.0
Dadri	400	409	08:03	391	16:33	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:20	400	00:08	0.0	0.0	0.0	0.0
Bawana	400	408	08:02	395	22:12	0.0	0.0	0.0	0.0
Bassi	400	424	19:01	394	09:53	0.0	0.0	6.5	0.0
Hissar	400	407	18:22	393	22:11	0.0	0.0	0.0	0.0
Moga	400	407	18:03	393	13:56	0.0	0.0	0.0	0.0
Abdullapur	400	408	08:20	396	14:34	0.0	0.0	0.0	0.0
Nalagarh	400	410	08:02	400	16:18	0.0	0.0	0.0	0.0
Kishenpur	400	412	18:00	401	20:26	0.0	0.0	0.0	0.0
Wagoora	400	407	17:55	392	20:29	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	777	18:22	739	00:08	0.0	2.3	0.0	0.0
Balia	765	774	18:04	752	22:13	0.0	0.0	0.0	0.0
Moga	765	781	18:11	757	00:12	0.0	0.0	0.0	0.0
Agra	765	786	18:04	747	09:17	0.0	0.0	0.0	0.0
Bhiwani	765	781	18:17	755	00:08	0.0	0.0	0.0	0.0
Unnao	765	754	18:13	722	00:10	7.4	82.2	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 09.06.2014 :

1. Hot 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 : 09.06.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER