

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(कार्पोरेशन की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.06.2014
Date of Reporting : 09.06.2014

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
40447	1790	42237	49.89	43241	1976	45217	50.07	997.6	47.59

* 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	47.73	16.49		64.21	102.95	103.13	0.18	167.34	0.00
Haryana	53.42	0.60		54.03	91.30	90.73	-0.57	144.75	0.00
Rajasthan	106.10	0.00	12.38	118.48	81.45	81.08	-0.37	199.56	0.00
Delhi	24.83			24.83	77.31	78.26	0.95	103.09	1.17
UP	135.01	14.88	1.20	151.09	136.91	138.06	1.14	289.14	44.29
Uttarakhand		17.19		17.19	18.63	19.08	0.45	36.27	0.34
HP		22.95		22.95	-0.52	-0.59	-0.07	22.36	0.08
J & K		13.66	0.00	13.66	17.65	15.81	-1.84	29.46	1.70
Chandigarh				0.00	5.03	5.61	0.58	5.61	0.00
Total	367.09	85.76	13.58	466.43	530.72	531.15	0.44	997.58	47.59

* 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	7139	0	-5	1001	7205	0	16	949	20.27
Haryana	6068	0	-405	499	6920	0	278	617	13.01
Rajasthan	7157	0	-55	649	8431	0	-39	983	26.92
Delhi	4245	0	18	169	4427	81	110	257	3.19
UP	12147	1690	118	631	12395	1895	-185	1257	22.73
Uttarakhand	1528	0	-44	235	1499	0	-124	270	5.72
HP	750	0	-302	-1235	902	0	33	-1413	-29.17
J&K	1179	100	-191	-387	1228	0	44	-688	-12.67
Chandigarh	234	0	13	0	234	0	44	0	0.41
Total	40447	1790	-853	1562	43241	1976	177	2232	50.42

* 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	1903	1999	2057	45.32	1888	45.53	-0.21
Rihand I STPS	1000	850	909	935	20.00	833	20.12	-0.13
Rihand II STPS	1000	470	513	515	10.81	451	11.20	-0.39
Rihand III STPS	1000	885	933	915	20.82	868	21.08	-0.26
Dadri I STPS	840	813	851	690	16.75	698	17.76	-1.01
Dadri II STPS	980	966	870	922	20.25	844	21.60	-1.34
Unchahar I TPS	420	400	371	405	8.91	371	9.36	-0.46
Unchahar II TPS	420	400	417	392	8.74	364	9.04	-0.30
Unchahar III TPS	210	200	197	170	4.23	176	4.40	-0.17
ISTPP (Jhajihar)	1500	1367	1350	600	24.32	1013	24.60	-0.28
Dadri GPS	830	795	169	176	3.93	164	4.07	-0.14
Anta GPS	419	384	240	248	5.68	236	5.74	-0.06
Auraiya GPS	663	420	136	146	3.23	135	3.26	-0.02
Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
Unchahar Solar	10	3	0	0	0.04	2	0.07	-0.03
Sub Total (A)	11297	9856	8955	8171	193	8044	198	-5
B. NPC								
NAPS	440	266	304	316	6.45	269	6.38	0.06
RAPS- B	440	384	407	443	9.08	378	9.22	-0.14
RAPS- C	440	200	220	225	4.79	200	4.80	-0.01
Sub Total (B)	1320	850	931	984	20.31	846	20.40	-0.09
C. NHPC								
Chamera I HPS	540	534	540	540	12.90	537	12.82	0.08
Chamera II HPS	300	238	0	309	7.37	307	5.75	1.62
Chamera III HPS	231	229	239	229	5.55	231	5.50	0.06
Bairasui HPS	180	180	180	180	4.30	179	4.26	0.04
Salal-HPS	690	658	670	668	15.90	663	15.85	0.05
Tanakpur-HPS	94	76	90	75	1.85	77	1.82	0.03
Uri-HPS	480	469	476	477	11.51	479	11.40	0.11
Uri-II HPS	240	240	243	245	5.82	242	5.76	0.06
Dhauliganga-HPS	280	67	68	68	1.63	68	1.61	0.02
Dulhasti-HPS	390	387	403	402	9.41	392	9.30	0.11
Sewa-II HPS	120	122	130	130	3.05	127	2.93	0.13
Parbati 3	390	260	260	130	4.86	202	4.96	-0.10
Sub Total ©	3935	3459	3299	3453	84	3507	82	2
D. SJVNL								
NJPC	1500	1605	1614	1357	37.73	1572	38.26	-0.53
Rampur HEP	206	206	215	214	5.12	213	4.94	0.18
Sub Total (D)	1706	1811	1829	1571	42.85	1786	43.21	-0.35
E. THDC								
Tehri HPS	1000	375	375	374	5.55	231	5.50	0.05
Koteshwar HPS	400	129	400	93	3.13	130	3.10	0.03
Sub Total (E)	1400	504	775	467	8.68	362	8.60	0.08
F. BBMB								
Bhakra HPS	1514	660	1200	477	15.93	664	15.83	0.10
Dehar HPS	990	568	660	610	14.17	590	13.63	0.54
Pong HPS	396	89	308	0	2.25	94	2.12	0.13
Sub Total (F)	2900	1316	2168	1087	32.35	1348	31.59	0.76
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	220	215	4.71	196	5.06	-0.36
KWHEP HPS(IPP)	1000	0	1300	1300	27.17	1132	28.49	-1.32
Malana Stg-II HPS	100	0	113	91	1.84	77	1.72	0.12
Shree Cement TPS	300	0	276	279	6.49	270	6.09	0.40
Budhil HPS(IPP)	70	0	14	14	1.65	69	1.64	0.01
Sub Total (G)	1662	0	1923	1899	41.85	1744	43.01	-1.16
H. Total Regional Entities (A-G)	24221	17796	19880	17632	423.26	17636	426.61	-3.35

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	1050	1050	23	949
	Guru Nanak Dev TPS(Bhatinda)	440	100	20	2	70
	Guru Hargobind Singh TPS(L.mbt)	920	714	710	15	638
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	327	332	8	332
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2191	2112	48	1989
	Total Punjab	5128	2681	2867	64.21	2675
Haryana	Panipat TPS	1367	625	830	17.39	724
	DCRTPP (Yamuna nagar)	600	534	551	12.30	513
	Faridabad GPS (NTPC)	432	174	185	4.12	172
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	800	800	19.61	817
	Thermal (Total)	4944	2133	2366	53	2226
	Total Hydro	62	25	23	0.60	25
	Total Haryana	5006	2158	2389	54.03	2251
Rajasthan	kota TPS	1240	895	936	21.14	2251
	suratgarh TPS	1500	999	1087	24.32	881
	Chabra TPS	750	522	603	12.74	578
	Dholpur GPS	330	104	101	2.49	130
	Ramgarh GPS	221	112	116	2.77	30
	RAPS A (NPC)	300	170	180	4.10	115
	Barsingsar (NLC)	250	183	182	4.10	104
	Giral LTPS	250	77	77	1.82	71
	Rajwest LTPS (IPP)	1080	670	675	18.41	450
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	512	586	14.20	804
	Thermal (Total)	7976	4244	4543	106	4421
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	196	845	11.19	296
	Biomass	91	34	34	0.81	31
	Solar	201	0	0	0.38	18
Renewable/Others (Total)	2483	230	879	12	516	
Total Rajasthan	11009	4474	5422	118.48	4937	
UP	Anpara TPS	1630	1528	1526	32.70	1363
	Obra TPS	1288	513	426	9.50	396
	Paricha TPS	1140	330	739	12.30	513
	Panki TPS	210	165	170	3.50	146
	Harduaganj TPS	665	431	452	9.60	400
	Tanda TPS (NTPC)	440	372	375	9.12	380
	Roza TPS (IPP)	1200	1080	1116	24.80	1033
	Anpara-C (IPP)	1200	1051	1073	24.80	1033
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	362	401	8.70	363
	Thermal (Total)	8223	5832	6278	135	5625
	Vishnuparyag HPS (IPP)	400	435	435	10.44	435
	Other Hydro	527	205	203	4.43	185
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6522	6966	151.09	5860
Uttarakhand	Total Hydro	1303	679	754	17.19	716
	Total Uttarakhand	1303	679	754	17.19	716
Delhi	Rajghat TPS	135	100	98	2.34	97
	Delhi Gas Turbine	282	121	125	2.97	124
	Pragati Gas Turbine	330	133	135	3.31	138
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	274	273	6.26	261
	Badarpur TPS (NTPC)	705	480	490	9.95	415
	Thermal (Total)	2917	1108	1121	24.83	1035
	Total Delhi	2917	1108	1121	24.83	1035
HP	Baspa HPS (IPP)	300	305	335	7.68	320
	Malana HPS (IPP)	86	71	91	1.61	67
	Other Hydro	728	600	605	13.66	569
	Total HP	1114	976	1031	22.95	956
J & K	Baglihar HPS (IPP)	450	438	440	10.52	438
	Other Hydro/IPP	436	128	132	3.14	131
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	566	572	13.66	569
Total State Control Area Generation		37702	19164	21122	466.43	18999
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5266	5394	122.10	5087
Total Regional Availability(Gross)		61923	44310	44148	1011.78	41723

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9704	8184	201.75	8406
State Control Area Hydro	5589	2941	3338	85.76	3138
Total Regional Hydro	16823	12645	11522	287.51	11545

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	10.75	0.00	10.75
Gwalior-Agra (D/C)	1847	2049	2126	0	39.26	0.00	39.26
Zerda-Kankroli	32	-27	32	99	0.00	1.31	-1.31
Zerda-Bhinmal	63	5	114	110	0.11	0.00	0.11
Malanpur-Auraiya	-102	-23	0	276	0.00	2.07	-2.07
Badod-Kota/Morak	-9	14	54	51	4.91	0.00	4.91
Mundra-Mohindergarh(HVDC)	1546	1252	1257	0	30.29	0.00	30.29
Sub Total WR	3877	3770			85.32	3.38	81.94
Pusaui Bypass	400	400	400	0	9.53	0.00	9.53
MZP- GKP (D/C)	340	460	652	0	10.85	0.00	10.85
Patna-Balia(D/C)	89	309	406	0	4.84	0.00	4.84
B'Sharif-Balia (D/C)	362	299	547	0	8.95	0.00	8.95
Pusaui-Balia	-44	-59	7	64	0.00	0.88	-0.88
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	170	125	200	0	4.19	0.00	4.19
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-28	0	33	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	104	118	260	124	3.34	0.00	3.34
Sub Total ER	1389	1624			41.70	1.54	40.16
Total IR Exch	5266	5394			127.02	4.92	122.10

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
32.83	1.60	34.43	8.93	1.00	2.76	9.03	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
46.13	78.36	124.48	40.16	81.94	122.10	-5.97	3.58	-2.39

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	0.66	2.45	15.01	52.13	60.01	15.08	9.13	0.82	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				
50.30	18.03	49.58	20.09	49.99	0.09	0.09	50.29	49.80

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	404	18:02	397	00:08	0.0	0.0	0.0	0.0
Gorakhpur	400	404	18:04	389	14:47	0.0	1.1	0.0	0.0
Bareilly	400	410	05:06	391	00:07	0.0	0.0	0.0	0.0
Kanpur	400	414	17:39	397	00:07	0.0	0.0	0.0	0.0
Dadri	400	410	07:37	393	00:07	0.0	0.0	0.0	0.0
Ballabgarh	400	420	18:36	397	00:05	0.0	0.0	0.0	0.0
Bawana	400	412	18:07	390	12:54	0.0	0.0	0.0	0.0
Bassi	400	426	18:36	399	22:23	0.0	0.0	6.9	0.0
Hissar	400	408	18:36	390	00:05	0.0	0.0	0.0	0.0
Moga	400	407	18:48	389	02:10	0.0	0.0	0.0	0.0
Abdullapur	400	411	06:50	396	02:26	0.0	0.0	0.0	0.0
Nalagarh	400	413	06:04	402	00:38	0.0	0.0	0.0	0.0
Kishenpur	400	411	08:03	403	00:09	0.0	0.0	0.0	0.0
Wagoora	400	408	18:00	364	19:43	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	776	17:37	738	22:18	0.0	2.5	0.0	0.0
Balia	765	779	06:02	749	15:49	0.0	0.0	0.0	0.0
Moga	765	781	18:02	753	01:11	0.0	0.0	0.0	0.0
Agra	765	787	18:37	745	00:06	0.0	0.0	0.0	0.0
Bhiwani	765	777	18:02	746	00:07	0.0	0.0	0.0	0.0
Unnao	765	753	17:38	724	00:09	5.5	76.0	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 08.06.2014 :

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 : 08.06.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER