

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.05.2014
Date of Reporting : 08.05.2014

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
39461	1650	41111	50.07	37048	440	37488	50.13	901.3	33.25

* 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	33.10	10.87		43.97	83.09	82.68	-0.41	126.66	0.00
Haryana	38.40	0.61		39.01	86.99	87.01	0.02	126.02	0.00
Rajasthan	131.51	0.00	4.20	135.72	42.77	43.35	0.58	179.06	0.00
Delhi	24.59			24.59	70.02	70.34	0.32	94.93	0.18
UP	137.70	8.59	4.80	151.09	136.34	137.77	1.42	288.86	31.37
Uttarakhand		13.82		13.82	16.04	15.49	-0.54	29.31	0.00
HP		17.39		17.39	6.35	3.47	-2.89	20.85	0.00
J & K		13.51	0.00	13.51	19.19	17.13	-2.07	30.64	1.70
Chandigarh				0.00	4.49	5.01	0.52	5.01	0.00
Total	365.30	64.79	9.00	439.10	465.28	462.24	-3.04	901.34	33.25

* 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	5765	0	20	741	5197	0	39	606	13.86
Haryana	6000	0	-154	464	5234	0	76	467	6.91
Rajasthan	7464	0	-29	-41	6812	0	-38	-32	-3.58
Delhi	4219	0	151	163	3580	0	-186	-15	1.65
UP	12044	1550	-36	908	12951	440	102	1246	21.63
Uttarakhand	1469	0	195	261	1294	0	33	231	5.64
HP	725	0	-250	-874	831	0	2	-815	-16.28
J&K	1541	100	37	-405	991	0	-298	-583	-11.49
Chandigarh	235	0	5	0	159	0	-13	0	0.24
Total	39461	1650	-61	1216	37048	440	-283	1105	18.60

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

III. Regional Entities :

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

A. NTPC	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
		Singrauli STPS	2000	1557	1340	1784	36.59	1525	36.48
	Rihand I STPS	1000	900	909	911	20.22	842	20.15	0.07
	Rihand II STPS	1000	950	909	991	21.61	901	21.65	-0.04
	Rihand III STPS	1000	941	826	987	21.10	879	21.24	-0.14
	Dadri I STPS	840	813	791	811	17.73	739	18.59	-0.85
	Dadri II STPS	980	970	957	982	20.39	849	21.56	-1.17
	Unchahar I TPS	420	408	394	412	8.59	358	8.98	-0.39
	Unchahar II TPS	420	204	201	211	4.26	177	4.39	-0.14
	Unchahar III TPS	210	204	201	217	4.19	175	4.36	-0.17
	ISTPP (Jhajjar)	1500	1000	642	647	14.88	620	14.40	0.48
	Dadri GPS	830	805	175	185	4.07	169	4.26	-0.19
	Anta GPS	419	391	250	232	5.20	217	5.15	0.05
	Auraiya GPS	663	642	134	155	3.25	135	3.34	-0.09
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
	Unchahar Solar	10	0	0	0	0.00	0	0.00	0.00
	Sub Total (A)	11297	9785	7729	8525	182	7587	185	-2
B. NPC	NAPS	440	143	161	169	3.44	143	3.43	0.00
	RAPS- B	440	405	448	450	9.65	402	9.72	-0.07
	RAPS- C	440	410	444	450	9.68	404	9.84	-0.16
	Sub Total (B)	1320	958	1053	1069	22.77	949	22.99	-0.22
C. NHPC	Chamera I HPS	540	535	540	540	12.82	534	12.84	-0.02
	Chamera II HPS	300	300	301	301	6.86	286	6.90	-0.04
	Chamera III HPS	231	229	227	157	4.30	179	4.30	0.00
	Bairasui HPS	180	182	182	182	4.24	177	4.20	0.04
	Salal-HPS	690	663	668	674	15.98	666	15.91	0.07
	Tanakpur-HPS	94	45	61	46	1.14	48	1.09	0.05
	Uri-HPS	480	475	476	475	11.52	480	11.40	0.12
	Uri-II HPS	240	240	242	242	5.79	241	5.76	0.03
	Dhauliganga-HPS	280	128	142	140	3.08	128	3.08	0.00
	Dulhasti-HPS	390	387	405	389	9.41	392	9.30	0.11
	Sewa-II HPS	120	122	128	130	3.06	128	2.93	0.13
	Parbati 3	390	260	65	0	2.17	90	2.10	0.07
	Sub Total ©	3935	3567	3437	3276	80	3348	80	1
D. SJVNL	NJPC	1500	1605	1480	1610	30.47	1270	30.54	-0.07
	Rampur HEP	206		140	204	4.36	182		4.36
	Sub Total (D)	1706	1605	1620	1814	34.83	1451	30.54	4.29
E. THDC	Tehri HPS	1000	455	455	152	9.05	377	9.00	0.05
	Koteshwar HPS	400	300	301	90	4.68	195	4.60	0.08
	Sub Total (E)	1400	755	756	242	13.73	572	13.60	0.13
F. BBMB	Bhakra HPS	1514	773	1279	607	18.83	785	18.55	0.28
	Dehar HPS	990	480	495	495	11.80	492	11.52	0.28
	Pong HPS	396	65	185	0	1.70	71	1.56	0.14
	Sub Total (F)	2900	1318	1959	1102	32.33	1347	31.63	0.70
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	165	60	1.84	77	1.77	0.07
	KWHEP HPS(IPP)	1000	0	1000	679	17.37	724	17.65	-0.28
	Malana Stg-II HPS	100	0	112	0	0.96	40	0.89	0.07
	Shree Cement TPS	300	0	256	204	5.42	226	5.46	-0.04
	Budhil HPS(IPP)	70	0	14	7	1.01	42	1.20	-0.19
	Sub Total (G)	1662	0	1547	950	26.60	1108	26.97	-0.38
H. Total Regional Entities (A-G)		24221	17988	18101	16978	392.70	16363	390.13	2.57

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	525	550	12	513
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	2	85
	Guru Hargobind Singh TPS(L.mbt)	920	200	238	5	192
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	636	636	14	589
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1451	1514	33	1379
	Total Hydro	1148	441	462	10.87	453
Total Punjab	5128	1892	1976	43.97	1832	
Haryana	Panipat TPS	1367	228	219	5.17	215
	DCRTPP (Yamuna nagar)	600	279	253	6.19	258
	Faridabad GPS (NTPC)	432	150	153	4.06	169
	RGTPP (khedar) (IPP)	1200	585	505	12.56	523
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	552	371	10.43	434
	Thermal (Total)	4944	1794	1501	38	1600
	Total Hydro	62	26	27	0.61	26
	Total Haryana	5006	1820	1528	39.01	1626
Rajasthan	kota TPS	1240	956	918	22.09	921
	suratgarh TPS	1500	1306	1205	30.32	1263
	Chabra TPS	750	420	326	13.25	552
	Dholpur GPS	330	129	132	3.19	133
	Ramgarh GPS	221	90	83	1.95	81
	RAPS A (NPC)	300	180	180	4.06	169
	Barsingsar (NLC)	250	82	82	1.83	76
	Giral LTPS	250	81	81	1.54	64
	Rajwest LTPS (IPP)	1080	632	706	19.56	815
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	455	506	11.16	465
	Kawai(Adani)	1320	852	1014	22.56	940
	Thermal (Total)	7976	5183	5233	132	5480
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	309	46	3.04	127
	Biomass	91	28	28	0.67	28
	Solar	201	0	0	0.50	21
	Renewable/Others (Total)	2483	337	74	4.20	175
Total Rajasthan	11009	5520	5307	135.72	5655	
UP	Anpara TPS	1630	1523	1485	32.40	1350
	Obra TPS	1288	393	413	8.80	367
	Paricha TPS	1140	793	854	17.80	742
	Panki TPS	210	75	85	1.70	71
	Harduaganj TPS	665	349	381	7.80	325
	Tanda TPS (NTPC)	440	376	379	9.21	384
	Roza TPS (IPP)	1200	1107	1098	26.32	1097
	Anpara-C (IPP)	1200	1010	1071	24.80	1033
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	361	361	8.88	370
	Thermal (Total)	8223	5987	6127	138	5738
	Vishnuparyag HPS (IPP)	400	258	243	5.50	229
	Other Hydro	527	117	150	3.09	129
	Cogeneration	981	200	200	4.80	200
	Total UP	10131	6562	6720	151.09	6066
Uttarakhand	Total Hydro	1303	602	523	13.82	576
	Total Uttarakhand	1303	602	523	13.82	576
Delhi	Rajghat TPS	135	78	52	1.91	80
	Delhi Gas Turbine	282	68	135	2.51	105
	Pragati Gas Turbine	330	91	97	2.29	95
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	257	232	5.45	227
	Badarpur TPS (NTPC)	705	570	575	12.43	518
	Thermal (Total)	2917	1064	1091	24.59	1025
	Total Delhi	2917	1064	1091	24.59	1025
HP	Baspa HPS (IPP)	300	210	168	4.58	191
	Malana HPS (IPP)	86	94	47	1.16	48
	Other Hydro	728	446	503	11.64	485
	Total HP	1114	750	718	17.39	724
J & K	Baglihar HPS (IPP)	450	438	440	10.52	438
	Other Hydro/IPP	436	105	133	2.99	125
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	543	573	13.51	563
Total State Control Area Generation		37702	18753	18436	439.10	18067
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4797	3419	89.86	3744
Total Regional Availability(Gross)		61923	41651	38833	921.66	38174

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9049	7173	181.41	7559
State Control Area Hydro	5589	2479	2453	64.79	2471
Total Regional Hydro	16823	11528	9626	246.20	10029

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	50	500	350	3.95	2.23	1.72
Gwalior-Agra (D/C)	1657	1252	1815	0	34.25	0.00	34.25
Zerda-Kankroli	-123	-294	0	347	0.00	5.95	-5.95
Zerda-Bhinmal	-63	-209	0	277	0.00	4.08	-4.08
Malanpur-Auraiya	-34	-48	0	58	0.00	0.77	-0.77
Badod-Kota/Morak	-68	-184	0	204	0.00	3.72	-3.72
Mundra-Mohindergarh(HVDC)	1910	1726	1612	0	41.60	0.00	41.60
Sub Total WR	3779	2293			79.80	16.75	63.05
Pusaui Bypass	300	300	300	0	7.28	0.00	7.28
MZP- GKP (D/C)	210	304	380	0	6.09	0.00	6.09
Patna-Balia(D/C)	252	255	325	0	6.10	0.00	6.10
B Sharif-Balia (D/C)	167	169	244	0	3.89	0.00	3.89
Pusaui-Balia	-66	-62	0	87	0.00	1.45	-1.45
Gaya-Fatehpur (765 Kv)	-30	-20	51	95	0.18	0.00	0.18
Pusaui-Sahupuri	143	144	183	0	3.60	0.00	3.60
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)	42	36	129	57	1.13	0.00	1.13
Sub Total ER	1018	1126			28.27	1.45	26.81
Total IR Exch	4797	3419			108.06	18.20	89.86

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
31.15	0.70	31.85	7.96	0.37	-1.90	-8.47	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
37.90	55.73	93.63	26.81	63.05	89.86	-11.09	7.32	-3.77

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	>50.50
0.00	0.00	0.51	6.96	44.62	61.49	18.22	13.39	1.72	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				
50.37	18.04	49.76	23.07	50.01	0.07	0.08	50.36	49.92

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	407	04:41	393	11:40	0.0	0.0	0.0	0.0
Gorakhpur	400	436	18:02	413	00:04	0.0	0.0	58.1	5.5
Bareilly	400	418	18:02	397	22:07	0.0	0.0	0.0	0.0
Kanpur	400	419	18:06	398	22:08	0.0	0.0	0.0	0.0
Dadri	400	414	07:20	395	22:08	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:14	401	22:08	0.0	0.0	0.8	0.0
Bawana	400	415	07:13	397	22:08	0.0	0.0	0.0	0.0
Bassi	400	427	18:01	402	22:08	0.0	0.0	7.3	0.0
Hissar	400	410	18:03	388	22:07	0.0	0.7	0.0	0.0
Moga	400	408	18:04	393	22:07	0.0	0.0	0.0	0.0
Abdullapur	400	414	07:09	397	22:06	0.0	0.0	0.0	0.0
Nalagarh	400	418	07:13	403	19:37	0.0	0.0	0.0	0.0
Kishenpur	400	410	18:01	400	19:38	0.0	0.0	0.0	0.0
Wagoora	400	407	02:57	390	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	786	18:02	737	22:08	0.0	1.7	0.0	0.0
Balia	765	792	18:02	743	22:09	0.0	0.0	0.0	0.0
Moga	765	777	18:03	745	22:09	0.0	0.0	0.0	0.0
Agra	765	799	18:03	752	22:08	0.0	0.0	0.0	0.0
Bhiwani	765	787	07:14	769	00:05	0.0	0.0	0.0	0.0
Unnao	765	773	18:06	733	22:11	0.0	18.6	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	482.25	511.55	478.09	420.92	468.28	637.89
Pong	426.72	384.05	402.93	288.96	400.35	223.85	159.45	54.14
Tehri	829.79	740.04	756.15	92.00	NA	NA	108.46	238.00
Koteshwar	612.50	598.50	610.98	4.95	601.50	0.98	244.00	243.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
Rihand	268.22	252.98	NA	NA	257.13	163.30	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	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 07.05.2014 :
Hot 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 : 07.05.2014

पारी प्रभावी अभियंता / SHIFT CHARGE ENGINEER