

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 08.05.2014
Date of Reporting : 09.05.2014

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
30650	1085	31735	50.26	37064	1400	38464	50.07	847.0	39.03

* 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	29.00	11.23		40.23	79.24	78.35	-0.90	118.58	0.00
Haryana	33.09	0.64		33.73	82.41	76.65	-5.75	110.38	0.19
Rajasthan	114.08	0.00	8.52	122.60	47.45	48.49	1.04	171.09	0.92
Delhi	24.24			24.24	69.46	69.95	0.49	94.19	0.00
UP	129.39	8.72	2.40	140.51	122.31	123.70	1.39	264.21	35.84
Uttarakhand		14.00		14.00	18.82	17.20	-1.62	31.20	0.39
HP		19.11		19.11	4.35	4.70	0.35	23.81	0.00
J & K		13.55	0.00	13.55	17.46	15.01	-2.45	28.56	1.70
Chandigarh				0.00	4.49	5.01	0.52	5.01	0.00
Total	329.80	67.25	10.92	407.96	445.99	439.04	-6.94	847.01	39.03

* 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	4193	0	-171	364	5294	0	109	873	13.47
Haryana	2471	0	-1780	495	5485	0	95	542	8.40
Rajasthan	6528	0	211	-304	7329	0	-137	-307	-4.82
Delhi	3323	0	-126	268	3910	0	64	-176	0.31
UP	10063	830	-319	1025	11943	1400	374	1210	21.16
Uttarakhand	1520	155	0	414	1202	0	-9	193	6.36
HP	993	0	11	-1021	788	0	-6	-964	-20.86
J&K	1326	100	63	-384	940	0	-135	-651	-11.74
Chandigarh	233	0	24	0	173	0	5	0	0.24
Total	30650	1085	-2087	857	37064	1400	360	719	12.52

* 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	1278	1244	1323	29.49	1229	29.43	0.06
Rihand I STPS	1000	896	713	969	19.91	829	19.86	0.05
Rihand II STPS	1000	947	730	954	20.96	873	21.17	-0.21
Rihand III STPS	1000	929	757	928	20.44	852	20.59	-0.15
Dadri I STPS	840	813	612	844	16.85	702	17.62	-0.77
Dadri II STPS	980	980	685	1003	19.56	815	20.17	-0.61
Unchahar I TPS	420	408	307	415	8.51	354	8.95	-0.45
Unchahar II TPS	420	204	157	213	4.19	174	4.37	-0.18
Unchahar III TPS	210	204	153	213	4.21	175	4.39	-0.18
ISTPP (Jhajihar)	1500	1000	643	640	14.89	620	14.95	-0.06
Dadri GPS	830	805	317	180	6.78	283	7.04	-0.26
Anta GPS	419	392	0	0	0.00	0	0.04	-0.04
Auraiya GPS	663	641	143	130	3.25	135	3.30	-0.05
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	9497	6461	7812	169	7043	172	-3
B. NPC								
NAPS	440	144	162	163	3.41	142	3.46	-0.05
RAPS- B	440	406	444	452	9.65	402	9.74	-0.10
RAPS- C	440	410	445	452	9.69	404	9.84	-0.16
Sub Total (B)	1320	960	1051	1067	22.74	947	23.04	-0.30
C. NHPC								
Chamera I HPS	540	535	360	540	11.95	498	11.97	-0.02
Chamera II HPS	300	300	304	201	6.85	285	6.90	-0.05
Chamera III HPS	231	229	208	156	4.85	202	4.85	0.00
Bairasui HPS	180	182	182	182	4.37	182	4.37	0.00
Salal-HPS	690	650	682	664	15.52	647	15.58	-0.06
Tanakpur-HPS	94	47	59	46	1.14	47	1.12	0.01
Uri-HPS	480	475	474	473	11.52	480	11.40	0.12
Uri-II HPS	240	240	246	242	5.74	239	5.76	-0.02
Dhauliganga-HPS	280	117	70	142	2.82	117	2.80	0.02
Dulhasti-HPS	390	387	401	402	9.46	394	9.30	0.16
Sewa-II HPS	120	122	127	129	3.05	127	2.93	0.12
Parbati 3	390	255	260	0	2.44	102	2.42	0.01
Sub Total ©	3935	3538	3373	3177	80	3321	79	0
D. SJVNL								
NJPC	1500	1605	1408	1270	30.58	1274	30.74	-0.16
Rampur HEP	206		0	71	1.25	52		1.25
Sub Total (D)	1706	1605	1408	1341	31.83	1326	30.74	1.09
E. THDC								
Tehri HPS	1000	449	133	306	8.21	342	8.18	0.03
Koteshwar HPS	400	300	98	91	4.32	180	4.33	-0.01
Sub Total (E)	1400	749	231	397	12.53	522	12.52	0.02
F. BBMB								
Bhakra HPS	1514	787	1165	611	18.66	778	18.88	-0.22
Dehar HPS	990	480	495	495	11.81	492	11.52	0.29
Pong HPS	396	76	249	0	1.90	79	1.83	0.07
Sub Total (F)	2900	1343	1909	1106	32.37	1349	32.23	0.14
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	164	104	1.88	78	1.83	0.05
KWHEP HPS(IPP)	1000	0	797	690	17.51	730	17.62	-0.11
Malana Stg-II HPS	100	0	112	0	1.02	43	0.95	0.07
Shree Cement TPS	300	0	245	221	5.65	236	5.63	0.02
Budhil HPS(IPP)	70	0	14	0	1.09	46	1.03	0.07
Sub Total (G)	1662	0	1332	1015	27.17	1132	27.06	0.10
H. Total Regional Entities (A-G)	24221	17692	15765	15915	375.37	15640	376.89	-1.52

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	525	12	498
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	2	83
	Guru Hargobind Singh TPS(L.mbt)	920	170	171	4	170
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	645	11	457
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	785	1431	29	1208
	Total Punjab	5128	1240	1922	40.23	1676
Haryana	Panipat TPS	1367	214	219	4.53	189
	DCRTPP (Yamuna nagar)	600	266	250	6.02	251
	Faridabad GPS (NTPC)	432	174	198	4.38	182
	RGTPP (khedar) (IPP)	1200	276	499	9.74	406
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	370	366	8.42	351
	Thermal (Total)	4944	1300	1532	33	1379
	Total Hydro	62	27	26	0.64	27
	Total Haryana	5006	1327	1558	33.73	1405
Rajasthan	kota TPS	1240	907	964	21.69	904
	suratgarh TPS	1500	1225	1334	30.39	1266
	Chabra TPS	750	341	402	7.67	320
	Dholpur GPS	330	125	131	3.15	131
	Ramgarh GPS	221	30	90	1.43	59
	RAPS A (NPC)	300	180	180	4.06	169
	Barsingsar (NLC)	250	83	82	1.82	76
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	532	952	19.97	832
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	952	968	23.90	996
	Thermal (Total)	7976	4375	5103	114	4753
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	512	394	7.30	304
	Biomass	91	39	39	0.93	39
	Solar	201	0	0	0.29	12
Renewable/Others (Total)	2483	551	433	8.52	355	
Total Rajasthan	11009	4926	5536	122.60	5108	
UP	Anpara TPS	1630	1464	1537	31.50	1313
	Obra TPS	1288	399	410	8.70	363
	Paricha TPS	1140	722	765	17.20	717
	Panki TPS	210	120	75	1.90	79
	Harduaganj TPS	665	321	337	7.20	300
	Tanda TPS (NTPC)	440	307	365	8.70	363
	Roza TPS (IPP)	1200	770	1098	24.89	1037
	Anpara-C (IPP)	1200	909	882	21.56	899
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	250	361	7.74	323
	Thermal (Total)	8223	5262	5830	129	5391
	Vishnuparyag HPS (IPP)	400	298	247	5.86	244
	Other Hydro	527	102	115	2.86	119
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5762	6292	140.51	5611
Uttarakhand	Total Hydro	1303	607	563	14.00	583
	Total Uttarakhand	1303	607	563	14.00	583
Delhi	Rajghat TPS	135	108	107	2.67	111
	Delhi Gas Turbine	282	105	102	2.37	99
	Pragati Gas Turbine	330	98	94	2.25	94
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	249	4.48	186
	Badarpur TPS (NTPC)	705	570	585	12.46	519
	Thermal (Total)	2917	881	1137	24.24	1010
	Total Delhi	2917	881	1137	24.24	1010
HP	Baspa HPS (IPP)	300	285	275	5.42	226
	Malana HPS (IPP)	86	61	0	0.96	40
	Other Hydro	728	548	523	12.74	531
	Total HP	1114	894	798	19.11	796
J & K	Baglihar HPS (IPP)	450	438	440	10.53	439
	Other Hydro/IPP	436	137	105	3.02	126
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	575	545	13.55	565
Total State Control Area Generation		37702	16212	18351	407.96	16754
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1229	4673	83.76	3490
Total Regional Availability(Gross)		61923	33206	38939	867.09	35885

IV. Total Hydro Generation:

Regional Entities Hydro	11233	7994	6815	176.85	7369
State Control Area Hydro	5589	2660	2538	67.25	2558
Total Regional Hydro	16823	10654	9353	244.09	9926

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	500	5.94	2.30	3.64
Gwalior-Agra (D/C)	708	1476	1730	0	29.27	0.00	29.27
Zerda-Kankroli	-297	-278	0	369	0.00	6.29	-6.29
Zerda-Bhinmal	-240	-222	0	326	0.00	4.51	-4.51
Malanpur-Auraiya	-86	-28	0	95	0.00	0.93	-0.93
Badod-Kota/Morak	-139	-103	0	199	0.00	2.84	-2.84
Mundra-Mohindergarh(HVDC)	1501	2001	2021	0	44.09	0.00	44.09
Sub Total WR	947	3346			79.29	16.86	62.43
Pusauli Bypass	300	300	300	0	7.20	0.00	7.20
MZP- GKP (D/C)	60	336	392	108	4.46	0.00	4.46
Patna-Balia(D/C)	86	292	305	0	4.63	0.00	4.63
B'Sharif-Balia (D/C)	47	209	234	0	2.77	0.00	2.77
Pusauli-Balia	-66	-56	0	99	0.00	1.67	-1.67
Gaya-Fatehpur (765 Kv)	-167	5	86	232	0.00	0.35	-0.35
Pusauli-Sahupuri	194	177	197	0	3.63	0.00	3.63
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)	-172	64	152	252	0.65	0.00	0.65
Sub Total ER	282	1327			23.34	2.02	21.33
Total IR Exch	1229	4673			102.64	18.88	83.76

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
31.06	0.80	31.85	8.89	-0.43	-1.91	-14.73	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
38.84	48.30	87.14	21.33	62.43	83.76	-17.51	14.13	-3.38

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	1.56	17.73	46.10	49.05	13.29	20.03	9.54	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	Index			
50.50	18.09	49.73	12.32	50.02	0.17	0.13	50.49	49.87

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	18:30	398	00:03	0.0	0.0	0.0	0.0
Gorakhpur	400	435	18:05	414	00:04	0.0	0.0	74.9	3.0
Bareilly	400	422	18:09	399	14:49	0.0	0.0	0.3	0.0
Kanpur	400	419	18:05	401	00:03	0.0	0.0	0.0	0.0
Dadri	400	426	18:54	398	14:53	0.0	0.0	9.9	0.0
Ballabgarh	400	433	18:46	407	14:43	0.0	0.0	25.9	1.6
Bawana	400	424	20:19	401	06:49	0.0	0.0	6.8	0.0
Bassi	400	429	18:05	405	08:43	0.0	0.0	18.9	0.0
Hissar	400	420	18:45	394	00:03	0.0	0.0	0.0	0.0
Moga	400	417	18:11	397	00:03	0.0	0.0	0.0	0.0
Abdullapur	400	422	20:20	401	14:47	0.0	0.0	2.1	0.0
Nalagarh	400	420	20:35	397	14:49	0.0	0.0	0.0	0.0
Kishenpur	400	414	18:08	402	11:08	0.0	0.0	0.0	0.0
Wagoora	400	409	17:59	396	21:26	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	782	18:05	743	00:08	0.0	0.0	0.0	0.0
Balia	765	787	18:09	749	00:09	0.0	0.0	0.0	0.0
Moga	765	801	18:47	754	00:03	0.0	0.0	0.2	0.0
Agra	765	803	18:09	762	08:44	0.0	0.0	0.9	0.0
Bhiwani	765	813	18:47	768	14:51	0.0	0.0	5.0	0.0
Unnao	765	769	18:05	736	00:05	0.0	7.9	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 08.05.2014 :

Hot Weather / Storm with rain in some part of HVPN/PSEB/Delhi/UP/Rajasthan (in Between 1730 - 2030 hrs).

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 : 08.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER