

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.05.2014
Date of Reporting : 19.05.2014

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
35335	2082	37417	50.02	33292	3151	36443	49.92	803.2	61.91

* 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	16.82	14.39		31.20	76.17	76.27	0.10	107.47	1.20
Haryana	26.94	0.20		27.15	86.13	86.18	0.05	113.33	1.08
Rajasthan	119.82	0.26	4.76	124.84	37.97	38.18	0.21	163.01	1.11
Delhi	17.24			17.24	63.56	64.78	1.22	82.02	0.40
UP	124.60	9.75	2.40	136.75	111.88	111.95	0.07	248.70	55.44
Uttarakhand		12.00		12.00	19.21	19.47	0.26	31.47	0.98
HP		15.37		15.37	6.98	7.86	0.88	23.23	0.00
J & K		13.80	0.00	13.80	15.27	15.95	0.68	29.75	1.70
Chandigarh				0.00	4.49	4.20	-0.29	4.20	0.00
Total	305.43	65.76	7.16	378.34	421.66	424.83	3.17	803.18	61.91

* 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	4906	0	21	542	4093	0	-86	223	11.57	
Haryana	5264	0	-196	321	4713	216	92	119	5.85	
Rajasthan	6628	0	-219	-245	6354	0	-137	-231	-4.60	
Delhi	3634	7	33	123	3323	85	36	-110	-1.67	
UP	10765	1900	-27	908	11283	2850	137	1628	23.33	
Uttarakhand	1521	75	-30	252	1349	0	86	314	7.80	
HP	926	0	-129	-938	860	0	24	-577	-14.88	
J&K	1497	100	11	-440	1154	0	47	-567	-11.69	
Chandigarh	195	0	-13	0	164	0	2	0	0.24	
Total	35335	2082	-549	522	33292	3151	200	797	15.96	

* 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	1149	1268	1262	28.35	1181	27.47	0.87	
Rihand I STPS	1000	871	941	958	21.27	886	20.82	0.45	
Rihand II STPS	1000	943	1015	1040	23.11	963	22.63	0.48	
Rihand III STPS	1000	467	513	507	11.24	468	11.19	0.05	
Dadri I STPS	840	813	809	867	17.69	737	18.45	-0.76	
Dadri II STPS	980	980	915	978	21.71	905	22.67	-0.96	
Unchahar I TPS	420	408	431	417	9.45	394	9.75	-0.30	
Unchahar II TPS	420	408	409	440	9.27	386	9.71	-0.44	
Unchahar III TPS	210	199	214	197	4.44	185	4.65	-0.21	
ISTPP (Jhajjar)	1500	1000	718	850	16.83	701	17.05	-0.22	
Dadri GPS	830	798	176	182	4.12	172	4.45	-0.33	
Anta GPS	419	391	0	0	0.00	0	0.00	0.00	
Auraiya GPS	663	427	149	154	3.44	143	3.50	-0.07	
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03	
Unchahar Solar	10	0	0	0	0.00	0	0.01	-0.01	
Sub Total (A)	11297	8856	7558	7852	171	7122	172	-1	
B. NPC									
NAPS	440	143	164	167	3.36	140	3.43	-0.08	
RAPS- B	440	404	447	452	9.69	404	9.70	-0.01	
RAPS- C	440	210	228	222	4.94	206	5.04	-0.10	
Sub Total (B)	1320	757	839	841	17.98	749	18.17	-0.19	
C. NHPC									
Chamera I HPS	540	535	540	540	10.08	420	10.00	0.08	
Chamera II HPS	300	294	301	201	5.80	241	5.90	-0.11	
Chamera III HPS	231	229	232	81	3.72	155	3.55	0.17	
Bairasui HPS	180	180	180	180	3.97	166	3.90	0.07	
Salal-HPS	690	540	665	559	13.15	548	13.07	0.08	
Tanakpur-HPS	94	30	31	32	0.75	31	0.72	0.03	
Uri-HPS	480	475	477	476	11.59	483	11.40	0.19	
Uri-II HPS	240	240	247	242	5.82	242	5.76	0.06	
Dhauliganga-HPS	280	106	138	138	2.69	112	2.40	0.29	
Dulhasti-HPS	390	387	399	406	9.64	402	9.30	0.34	
Sewa-II HPS	120	122	130	130	3.08	128	2.93	0.16	
Parbati 3	390	260	66	0	1.63	68	1.56	0.07	
Sub Total ©	3935	3399	3406	2985	72	2997	70	1	
D. SJVNL									
NJPC	1500	1605	1615	505	17.05	710	16.97	0.08	
Rampur HEP	206		215	134	2.31	96	2	0.01	
Sub Total (D)	1706	1605	1830	639	19.36	806	19.27	0.09	
E. THDC									
Tehri HPS	1000	400	404	128	6.11	255	6.00	0.11	
Koteshwar HPS	400	138	302	91	3.35	140	3.30	0.05	
Sub Total (E)	1400	538	706	219	9.46	394	9.30	0.16	
F. BBMB									
Bhakra HPS	1514	786	1314	638	19.20	800	18.86	0.34	
Dehar HPS	990	448	495	435	12.38	516	10.75	1.64	
Pong HPS	396	21	0	0	0.63	26	0.51	0.12	
Sub Total (F)	2900	1255	1809	1073	32.21	1342	30.12	2.09	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	66	82	1.17	49	1.13	0.05	
KWHEP HPS(IPP)	1000	0	400	250	9.33	389	9.12	0.21	
Malana Stg-II HPS	100	0	111	0	0.61	25	0.57	0.04	
Shree Cement TPS	300	0	243	271	5.61	234	5.39	0.22	
Budhil HPS(IPP)	70	0	0	0	0.00	0	1.14	-1.14	
Sub Total (G)	1662	0	820	603	16.73	697	17.34	-0.61	
H. Total Regional Entities (A-G)	24221	16409	16968	14212	338.56	14107	337.07	1.49	

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	420	420	9	369
	Guru Nanak Dev TPS(Bhatinda)	440	100	110	2	95
	Guru Hargobind Singh TPS(L.mbt)	920	206	252	6	236
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	726	782	17	701
	Total Punjab	5128	1283	1285	31.20	1300
Haryana	Panipat TPS	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar)	600	280	277	6.46	269
	Faridabad GPS (NTPC)	432	375	351	9.09	379
	RGTPP (khedar) (IPP)	1200	538	552	11.39	475
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1193	1180	27	1123
	Total Hydro	62	8	9	0.20	8
	Total Haryana	5006	1201	1189	27.15	1131
Rajasthan	kota TPS	1240	836	867	20.06	836
	suratgarh TPS	1500	1264	1211	30.18	1257
	Chabra TPS	750	379	420	10.02	418
	Dholpur GPS	330	129	131	3.20	133
	Ramgarh GPS	221	80	73	2.22	92
	RAPS A (NPC)	300	206	206	4.12	172
	Barsingsar (NLC)	250	157	86	3.51	146
	Giral LTPS	250	64	0	1.27	53
	Rajwest LTPS (IPP)	1080	598	796	19.18	799
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1151	1163	26.08	1087
	Thermal (Total)	7976	4864	4953	120	4993
	Total Hydro	550	0	0	0.26	11
	Wind power	2191	212	180	3.75	156
	Biomass	91	86	157	0.73	31
	Solar	201	0	0	0.27	11
	Renewable/Others (Total)	2483	298	337	4.76	198
Total Rajasthan	11009	5162	5290	124.84	5201	
UP	Anpara TPS	1630	1335	1355	31.30	1304
	Obra TPS	1288	326	325	7.70	321
	Paricha TPS	1140	764	782	17.80	742
	Panki TPS	210	81	77	1.90	79
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	378	286	8.61	359
	Roza TPS (IPP)	1200	1098	1107	26.39	1100
	Anpara-C (IPP)	1200	996	866	21.50	896
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	403	9.41	392
	Thermal (Total)	8223	5379	5201	125	5192
	Vishnuparyag HPS (IPP)	400	217	188	4.45	185
	Other Hydro	527	222	245	5.30	221
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5918	5734	136.75	5512
Uttarakhand	Total Hydro	1303	601	493	12.00	500
	Total Uttarakhand	1303	601	493	12.00	500
Delhi	Rajghat TPS	135	54	54	1.51	63
	Delhi Gas Turbine	282	106	112	2.70	113
	Pragati Gas Turbine	330	89	93	2.30	96
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	495	500	10.74	448
	Thermal (Total)	2917	744	759	17.24	719
Total Delhi	2917	744	759	17.24	719	
HP	Baspa HPS (IPP)	300	30	90	2.38	99
	Malana HPS (IPP)	86	60	0	0.62	26
	Other Hydro	728	476	514	12.37	515
	Total HP	1114	566	604	15.37	640
J & K	Baglihar HPS (IPP)	450	440	440	10.60	442
	Other Hydro/IPP	436	140	120	3.20	133
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	580	560	13.80	575
Total State Control Area Generation		37702	16055	15914	378.34	15579
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4263	4390	103.89	4329
Total Regional Availability(Gross)		61923	37286	34516	820.80	34014

IV. Total Hydro Generation:

Regional Entities Hydro	11233	8328	5248	144.05	6002
State Control Area Hydro	5589	2534	2414	65.76	2555
Total Regional Hydro	16823	10862	7662	209.81	8557

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	250	250	250	0	5.97	0.00	5.97
Gwalior-Agra (D/C)	1687	1494	1907	0	36.74	0.00	36.74
Zerda-Kankroli	-30	-178	0	204	0.00	3.27	-3.27
Zerda-Bhinmal	17	-123	40	107	0.00	2.22	-2.22
Malanpur-Auraiya	-45	-58	0	60	0.00	0.52	-0.52
Badod-Kota/Morak	-74	-103	0	108	0.00	1.40	-1.40
Mundra-Mohindergarh(HVDC)	1999	2002	2008	0	48.32	0.00	48.32
Sub Total WR	3804	3284			91.03	7.42	83.62
Pusauli Bypass	400	400	400	0	9.69	0.00	9.69
MZP- GKP (D/C)	-42	240	240	70	2.26	0.00	2.26
Patna-Balia(D/C)	118	307	412	0	5.10	0.00	5.10
B'Sharif-Balia (D/C)	50	281	398	0	3.46	0.00	3.46
Pusauli-Balia	-127	-23	0	127	0.00	1.74	-1.74
Gaya-Fatehpur (765 Kv)	-63	-103	36	140	0.00	0.94	-0.94
Pusauli-Sahupuri	165	167	181	0	3.48	0.00	3.48
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-45	0	48	0.00	0.66	-0.66
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-7	-118	92	196	0.00	0.38	-0.38
Sub Total ER	459	1106			24.00	3.72	20.28
Total IR Exch	4263	4390			115.03	11.14	103.89

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
34.20	0.48	34.69	8.90	-1.61	-4.90	0.01	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
38.68	60.19	98.87	20.28	83.62	103.89	-18.41	23.43	5.02

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	5.95	25.13	57.33	72.06	32.42	6.25	3.84	0.17	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				
50.22	17.01	49.57	0.16	49.88	0.28	0.12	50.22	49.75

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	06:06	403	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	437	17:09	413	02:34	0.0	0.0	84.9	23.2
Bareilly	400	418	17:05	399	23:50	0.0	0.0	0.0	0.0
Kanpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Dadri	400	415	01:53	407	00:16	0.0	0.0	0.0	0.0
Ballabgarh	400	425	06:16	411	22:46	0.0	0.0	30.2	0.0
Bawana	400	420	06:15	406	06:06	0.0	0.0	0.0	0.0
Bassi	400	428	03:10	413	22:47	0.0	0.0	51.2	0.0
Hissar	400	401	00:00	401	00:00	0.0	0.0	0.0	0.0
Moga	400	414	01:59	401	14:20	0.0	0.0	0.0	0.0
Abdullapur	400	423	05:05	408	19:11	0.0	0.0	7.3	0.0
Nalagarh	400	421	05:05	404	14:13	0.0	0.0	1.6	0.0
Kishenpur	400	414	02:58	401	19:26	0.0	0.0	0.0	0.0
Wagoora	400	410	02:58	390	19:38	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	778	17:04	749	22:46	0.0	0.0	0.0	0.0
Balia	765	774	17:04	736	00:19	0.0	6.0	0.0	0.0
Moga	765	786	02:59	761	20:31	0.0	0.0	0.0	0.0
Agra	765	793	17:01	760	15:16	0.0	0.0	0.0	0.0
Bhiwani	765	798	06:18	772	22:47	0.0	0.0	0.0	0.0
Unnao	765	766	17:04	740	23:47	0.0	2.0	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	481.76	503.43	475.71	368.17	637.92	701.52
Pong	426.72	384.05	403.17	296.79	400.39	230.85	131.90	31.83
Tehri	829.79	740.04	751.75	61.57	NA	NA	127.72	298.00
Koteshwar	612.50	598.50	610.71	4.95	601.40	0.80	298.00	300.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
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 18.05.2014 :
Normal 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 : 18.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER