

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.05.2014
Date of Reporting : 18.05.2014

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
36346	3251	39598	49.98	34016	2954	36970	50.11	821.4	66.18

* 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	28.22	13.48		41.70	74.99	74.17	-0.83	115.86	0.66
Haryana	33.25	0.22		33.47	80.42	78.14	-2.28	111.61	1.30
Rajasthan	117.42	0.00	7.41	124.83	36.93	35.40	-1.53	160.23	0.00
Delhi	17.41			17.41	67.87	68.13	0.27	85.55	0.00
UP	122.19	8.85	2.40	133.44	116.36	119.08	2.73	252.52	61.00
Uttarakhand		12.33		12.33	21.33	22.21	0.88	34.54	0.94
HP		16.22		16.22	7.67	8.30	0.62	24.52	0.58
J & K		13.62	0.00	13.62	17.89	18.62	0.73	32.24	1.70
Chandigarh				0.00	4.49	4.36	-0.13	4.36	0.00
Total	318.49	64.72	9.81	393.01	427.95	428.42	0.46	821.43	66.18

* 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	5066	0	-45	99	4215	100	-37	150	6.92
Haryana	5625	151	50	321	4819	134	-37	119	6.57
Rajasthan	6774	0	-68	-234	6496	0	48	-548	-4.55
Delhi	3812	0	54	292	3349	0	-37	-136	1.64
UP	10574	2925	212	941	11635	2720	255	1258	21.24
Uttarakhand	1654	75	53	418	1328	0	6	292	7.84
HP	1016	0	-128	-795	854	0	62	-548	-13.98
J&K	1614	100	62	-322	1171	0	4	-513	-10.12
Chandigarh	211	0	-7	0	149	0	-15	0	0.24
Total	36346	3251	182	719	34016	2954	249	73	15.80

* 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	1590	1771	1773	37.91	1580	37.71	0.21	
Rihand I STPS	1000	865	920	957	20.41	850	20.15	0.25	
Rihand II STPS	1000	950	1029	1035	22.26	928	22.13	0.13	
Rihand III STPS	1000	466	476	499	10.87	453	10.92	-0.05	
Dadri I STPS	840	813	764	629	16.25	677	17.10	-0.85	
Dadri II STPS	980	980	954	768	20.25	844	21.18	-0.92	
Unchahar I TPS	420	408	380	456	9.13	380	9.52	-0.39	
Unchahar II TPS	420	408	365	424	8.79	366	9.14	-0.35	
Unchahar III TPS	210	199	177	187	4.16	173	4.35	-0.19	
ISTPP (Jhajihar)	1500	1000	650	645	14.40	600	14.61	-0.21	
Dadri GPS	830	798	182	178	4.15	173	4.47	-0.33	
Anta GPS	419	391	0	0	0.00	0	0.00	0.00	
Auraiya GPS	663	431	154	149	3.45	144	3.49	-0.04	
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03	
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07	
Sub Total (A)	11297	9304	7822	7700	172	7168	175	-3	
B. NPC									
NAPS	440	145	168	162	3.45	144	3.48	-0.03	
RAPS- B	440	406	454	444	9.64	402	9.74	-0.10	
RAPS- C	440	210	233	230	4.98	207	5.04	-0.07	
Sub Total (B)	1320	761	855	836	18.07	753	18.26	-0.19	
C. NHPC									
Chamera I HPS	540	535	540	540	12.90	538	12.84	0.06	
Chamera II HPS	300	300	102	300	5.58	232	5.60	-0.02	
Chamera III HPS	231	229	77	230	3.50	146	3.40	0.10	
Bairasui HPS	180	180	180	180	4.14	173	4.08	0.06	
Salal-HPS	690	562	565	668	13.44	560	13.30	0.14	
Tanakpur-HPS	94	30	32	31	0.73	30	0.71	0.02	
Uri-HPS	480	475	476	476	11.51	480	11.40	0.11	
Uri-II HPS	240	240	242	246	5.83	243	5.76	0.07	
Dhauliganga-HPS	280	105	16	128	2.44	102	2.52	-0.08	
Dulhasti-HPS	390	387	379	409	9.48	395	9.30	0.18	
Sewa-II HPS	120	122	130	130	3.08	128	2.93	0.16	
Parbati 3	390	260	0	67	1.87	78	1.82	0.05	
Sub Total ©	3935	3425	2739	3405	75	3105	74	1	
D. SJVNL									
NJPC	1500	1605	505	1610	18.02	751	17.91	0.11	
Rampur HEP	206		131	220	2.35	98	4	-1.16	
Sub Total (D)	1706	1605	636	1830	20.36	848	21.41	-1.04	
E. THDC									
Tehri HPS	1000	400	267	405	7.56	315	7.50	0.06	
Koteswar HPS	400	300	90	302	4.04	168	4.00	0.04	
Sub Total (E)	1400	700	357	707	11.60	483	11.50	0.10	
F. BBMB									
Bhakra HPS	1514	784	636	1316	19.66	819	18.81	0.85	
Dehar HPS	990	401	330	140	9.50	396	9.62	-0.12	
Pong HPS	396	23	0	188	0.77	32	0.54	0.23	
Sub Total (F)	2900	1207	966	1644	29.93	1247	28.98	0.95	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	70	88	1.50	63	1.50	0.00	
KWHEP HPS(IPP)	1000	0	275	387	9.78	407	10.32	-0.54	
Malana Stg-II HPS	100	0	0	110	0.69	29	0.66	0.03	
Shree Cement TPS	300	0	235	267	6.16	257	6.01	0.16	
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.52	-0.52	
Sub Total (G)	1662	0	580	852	18.13	755	19.00	-0.87	
H. Total Regional Entities (A-G)	24221	17003	13955	16974	344.64	14360	347.68	-3.04	

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	362
	Guru Nanak Dev TPS(Bhatinda)	440	275	387	10	407
	Guru Hargobind Singh TPS(L.mbt)	920	461	426	10	406
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1156	1233	28	1176
	Total Hydro	1148	713	551	13.48	562
Total Punjab	5128	1869	1784	41.70	1737	
Haryana	Panipat TPS	1367	0	0	0.00	0
	DCRTPP (Yamuna nagar)	600	337	550	11.70	487
	Faridabad GPS (NTPC)	432	387	341	8.67	361
	RGTPP (khedar) (IPP)	1200	558	580	12.88	537
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1282	1471	33	1385
	Total Hydro	62	9	9	0.22	9
	Total Haryana	5006	1291	1480	33.47	1395
	Rajasthan	kota TPS	1240	837	854	19.57
suratgarh TPS		1500	1306	1281	29.84	1243
Chabra TPS		750	363	414	9.62	401
Dholpur GPS		330	131	128	3.20	133
Ramgarh GPS		221	66	73	1.96	82
RAPS A (NPC)		300	266	206	4.11	171
Barsingsar (NLC)		250	84	86	1.78	74
Giral LTPS		250	0	45	1.20	50
Rajwest LTPS (IPP)		1080	836	559	17.21	717
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1159	1163	28.93	1206
Thermal (Total)		7976	5048	4809	117	4893
Total Hydro		550	0	0	0.00	0
Wind power		2191	505	276	6.22	259
Biomass		91	33	33	0.79	33
Solar		201	0	0	0.40	17
Renewable/Others (Total)		2483	538	309	7.41	309
Total Rajasthan	11009	5586	5118	124.83	5201	
UP	Anpara TPS	1630	1360	1337	32.00	1333
	Obra TPS	1288	330	327	7.70	321
	Paricha TPS	1140	791	791	18.80	783
	Panki TPS	210	77	77	1.20	50
	Harduaganj TPS	665	0	0	0.00	0
	Tanda TPS (NTPC)	440	269	275	6.85	285
	Roza TPS (IPP)	1200	1096	1098	26.35	1098
	Anpara-C (IPP)	1200	858	855	20.45	852
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	402	8.84	368
	Thermal (Total)	8223	5182	5162	122	5091
	Vishnuparyag HPS (IPP)	400	178	173	4.15	173
	Other Hydro	527	211	203	4.70	196
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5671	5638	133.44	5387
Uttarakhand	Total Hydro	1303	451	573	12.33	514
	Total Uttarakhand	1303	451	573	12.33	514
Delhi	Rajghat TPS	135	56	67	1.52	64
	Delhi Gas Turbine	282	112	118	2.75	115
	Pragati Gas Turbine	330	95	90	2.34	98
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	495	505	10.80	450
	Thermal (Total)	2917	758	780	17.41	726
	Total Delhi	2917	758	780	17.41	726
HP	Baspa HPS (IPP)	300	50	59	2.60	108
	Malana HPS (IPP)	86	0	86	0.79	33
	Other Hydro	728	498	512	12.84	535
	Total HP	1114	548	657	16.22	676
J & K	Baglihar HPS (IPP)	450	440	440	10.52	438
	Other Hydro/IPP	436	126	130	3.10	129
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	566	570	13.62	568
Total State Control Area Generation		37702	16740	16600	393.01	16203
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4574	4397	98.87	4119
Total Regional Availability(Gross)		61923	35269	37971	836.52	34682

IV. Total Hydro Generation:

Regional Entities Hydro	11233	5043	8171	148.37	6182
State Control Area Hydro	5589	2498	2563	64.72	2524
Total Regional Hydro	16823	7541	10734	213.09	8706

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	50	3.86	0.36	3.51
Gwalior-Agra (D/C)	1738	1681	1988	0	37.15	0.00	37.15
Zerda-Kankroli	-97	-226	0	318	0.00	4.69	-4.69
Zerda-Bhinmal	-59	-208	0	328	0.00	3.59	-3.59
Malanpur-Auraiya	-43	-33	0	84	0.00	1.00	-1.00
Badod-Kota/Morak	-59	-118	0	159	0.00	1.98	-1.98
Mundra-Mohindergarh(HVDC)	1999	1998	2005	0	48.32	0.00	48.32
Sub Total WR	3729	3344			89.33	11.62	77.72
Pusauli Bypass	400	400	400	0	9.75	0.00	9.75
MZP- GKP (D/C)	104	202	308	0	2.74	0.00	2.74
Patna-Balia(D/C)	224	304	458	0	5.85	0.00	5.85
B Sharif-Balia (D/C)	181	205	444	0	4.03	0.00	4.03
Pusauli-Balia	-77	-54	0	115	0.00	1.54	-1.54
Gaya-Fatehpur (765 Kv)	-73	-88	0	155	0.00	1.73	-1.73
Pusauli-Sahupuri	134	183	193	0	3.65	0.00	3.65
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-35	0	45	0.00	0.62	-0.62
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-10	-64	45	212	0.00	0.98	-0.98
Sub Total ER	845	1053			26.02	4.87	21.15
Total IR Exch	4574	4397			115.35	16.49	98.87

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
31.66	0.68	32.34	8.99	-1.61	-6.40	-0.19	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
34.94	61.13	96.07	21.15	77.72	98.87	-13.79	16.58	2.79

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	6.38	21.83	45.99	69.09	35.86	10.36	6.57	1.25	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				
50.31	6.01	49.48	22.34	49.91	0.27	0.14	50.34	49.63

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	412	06:50	401	00:59	0.0	0.0	0.0	0.0
Gorakhpur	400	436	05:05	412	15:43	0.0	0.0	64.3	19.8
Bareilly	400	420	07:04	395	13:58	0.0	0.0	0.0	0.0
Kanpur	400	423	06:59	407	01:04	0.0	0.0	16.5	0.0
Dadri	400	424	07:19	403	22:09	0.0	0.0	18.0	0.0
Ballabgarh	400	430	06:50	407	15:43	0.0	0.0	25.5	0.0
Bawana	400	425	06:50	401	15:44	0.0	0.0	11.3	0.0
Bassi	400	431	03:59	405	11:16	0.0	0.0	37.6	0.4
Hissar	400	420	06:01	397	15:25	0.0	0.0	0.0	0.0
Moga	400	414	03:59	397	11:08	0.0	0.0	0.0	0.0
Abdullapur	400	429	06:05	406	15:28	0.0	0.0	24.3	0.0
Nalagarh	400	426	05:07	400	15:26	0.0	0.0	18.3	0.0
Kishenpur	400	414	03:59	398	20:19	0.0	0.0	0.0	0.0
Wagoora	400	410	03:51	385	20:24	0.0	5.7	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	783	06:03	742	19:37	0.0	0.0	0.0	0.0
Balia	765	775	06:04	730	22:12	0.0	11.3	0.0	0.0
Moga	765	789	05:06	753	19:37	0.0	0.0	0.0	0.0
Agra	765	801	06:03	745	14:34	0.0	0.0	0.0	0.0
Bhiwani	765	807	06:04	381	10:10	1.0	1.0	12.7	0.0
Unnao	765	769	07:24	737	01:08	0.0	13.6	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 (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 17.05.2014 :
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 : 17.05.2014

पारी प्रभावी अभियंता / SHIFT CHARGE ENGINEER