

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.05.2014
Date of Reporting : 25.05.2014

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
36790	1470	38260	50.05	35506	1135	36641	50.07	868.1	45.50

* 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	39.02	15.55		54.56	74.46	73.87	-0.58	128.43	0.00
Haryana	52.89	0.16		53.05	71.26	69.22	-2.04	122.27	0.05
Rajasthan	120.64	0.06	8.06	128.76	40.00	39.74	-0.26	168.49	0.06
Delhi	19.47			19.47	74.01	73.53	-0.48	93.00	0.03
UP	130.46	8.30	1.20	139.96	123.75	122.51	-1.24	262.47	43.03
Uttarakhand		14.41		14.41	18.76	18.07	-0.69	32.48	0.60
HP		17.41		17.41	7.94	7.45	-0.49	24.86	0.03
J & K		13.66	0.00	13.66	17.18	17.02	-0.16	30.68	1.70
Chandigarh				0.00	4.49	5.43	0.94	5.43	0.00
Total	362.47	69.55	9.26	441.27	431.84	426.83	-5.01	868.10	45.50

* 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	5901	0	-78	394	5170	0	32	394	9.63	
Haryana	5458	0	-115	332	4822	0	-393	352	10.47	
Rajasthan	6057	0	75	-437	6871	0	-134	-327	-3.20	
Delhi	3850	0	-66	64	3761	0	-125	76	2.99	
UP	11210	1295	-16	1155	11654	1135	-45	2050	28.87	
Uttarakhand	1534	75	-68	397	1170	0	-56	381	9.23	
HP	1013	0	-170	-836	799	0	-57	-718	-16.05	
J&K	1531	100	77	-451	1066	0	-57	-653	-12.43	
Chandigarh	236	0	10	0	193	0	15	0	0.24	
Total	36790	1470	-352	617	35506	1135	-821	1554	29.74	

* 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	1694	1724	1763	39.17	1632	38.42	0.76	
Rihand I STPS	1000	850	877	947	19.62	817	18.85	0.77	
Rihand II STPS	1000	850	910	859	18.61	776	18.74	-0.13	
Rihand III STPS	1000	917	487	451	20.24	843	19.61	0.64	
Dadri I STPS	840	813	728	670	15.77	657	16.38	-0.60	
Dadri II STPS	980	980	804	781	18.98	791	19.71	-0.73	
Unchahar I TPS	420	399	393	341	8.22	342	8.52	-0.30	
Unchahar II TPS	420	404	337	312	8.06	336	8.24	-0.18	
Unchahar III TPS	210	202	168	153	3.80	158	3.89	-0.09	
ISTPP (Jhajihar)	1500	1000	350	327	7.82	326	8.08	-0.26	
Dadri GPS	830	797	162	190	3.99	166	4.05	-0.06	
Anta GPS	419	391	0	0	0.00	0	0.00	0.00	
Auraiya GPS	663	421	136	135	3.20	133	3.24	-0.04	
Dadri Solar	5	1	0	0	0.03	1	0.03	0.00	
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07	
Sub Total (A)	11297	9723	7076	6929	168	6980	168	0	
B. NPC									
NAPS	440	143	162	168	3.44	143	3.43	0.01	
RAPS- B	440	399	441	449	9.61	400	9.58	0.03	
RAPS- C	440	210	233	231	4.96	207	5.04	-0.08	
Sub Total (B)	1320	752	836	848	18.01	750	18.05	-0.04	
C. NHPC									
Chamera I HPS	540	534	540	540	9.63	401	9.50	0.13	
Chamera II HPS	300	300	304	302	7.26	302	7.19	0.07	
Chamera III HPS	231	229	232	211	4.80	200	4.65	0.15	
Bairasui HPS	180	180	180	180	4.14	172	4.04	0.10	
Salal-HPS	690	660	667	668	16.00	667	15.84	0.16	
Tanakpur-HPS	94	34	36	31	0.87	36	0.82	0.05	
Uri-HPS	480	475	477	474	11.50	479	11.40	0.10	
Uri-II HPS	240	240	246	245	5.88	245	5.76	0.12	
Dhauliganga-HPS	280	132	135	132	3.20	133	3.18	0.03	
Dulhasti-HPS	390	387	398	403	9.49	396	9.30	0.19	
Sewa-II HPS	120	122	130	130	3.07	128	2.93	0.14	
Parbati 3	390	257	260	80	2.10	87	2.04	0.06	
Sub Total ©	3935	3551	3605	3396	78	3247	77	1	
D. SJVNL									
NJPC	1500	1605	1607	1009	25.22	1051	25.08	0.14	
Rampur HEP	206		211	217	4.61	192	2	2.31	
Sub Total (D)	1706	1605	1818	1226	29.83	1243	27.38	2.45	
E. THDC									
Tehri HPS	1000	390	392	0	5.07	211	5.00	0.06	
Koteshwar HPS	400	116	301	90	2.82	117	2.80	0.02	
Sub Total (E)	1400	506	693	90	7.88	328	7.80	0.08	
F. BBMB									
Bhakra HPS	1514	687	1270	482	16.65	694	16.50	0.15	
Dehar HPS	990	560	660	600	14.50	604	13.44	1.06	
Pong HPS	396	117	312	63	3.28	137	2.81	0.47	
Sub Total (F)	2900	1365	2242	1145	34.43	1435	32.75	1.68	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	92	66	1.74	73	1.74	0.01	
KWHEP HPS(IPP)	1000	0	560	510	13.43	560	14.24	-0.81	
Malana Stg-II HPS	100	0	113	0	0.86	36	0.80	0.06	
Shree Cement TPS	300	0	281	282	6.88	286	6.88	0.00	
Budhil HPS(IPP)	70	0	68	68	1.14	47	1.24	-0.11	
Sub Total (G)	1662	0	1114	926	24.04	1002	24.90	-0.86	
H. Total Regional Entities (A-G)	24221	17502	17384	14560	359.63	14985	355.33	4.30	

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	970	875	21	876
	Guru Nanak Dev TPS(Bhatinda)	440	200	170	4	165
	Guru Hargobind Singh TPS(L.mbt)	920	580	631	14	585
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1750	1676	39	1626
	Total Punjab	5128	2378	2263	54.56	2273
Haryana	Panipat TPS	1367	215	212	5.04	210
	DCRTPP (Yamuna nagar)	600	546	504	12.41	517
	Faridabad GPS (NTPC)	432	323	328	7.75	323
	RGTPP (khedar) (IPP)	1200	415	408	9.59	400
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	898	737	18.09	754
	Thermal (Total)	4944	2397	2189	53	2204
	Total Hydro	62	7	6	0.16	7
	Total Haryana	5006	2404	2195	53.05	2210
	Rajasthan	kota TPS	1240	984	875	22.36
suratgarh TPS		1500	1000	992	23.84	993
Chabra TPS		750	562	559	14.25	594
Dholpur GPS		330	129	131	3.23	134
Ramgarh GPS		221	95	15	1.52	63
RAPS A (NPC)		300	201	201	4.06	169
Barsingsar (NLC)		250	183	185	4.22	176
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	530	931	19.55	814
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1109	1172	27.62	1151
Thermal (Total)		7976	4793	5061	121	5027
Total Hydro		550	0	0	0.06	2
Wind power		2191	321	269	7.00	292
Biomass		91	34	34	0.81	34
Solar		201	0	0	0.25	10
Renewable/Others (Total)		2483	355	303	8.06	336
Total Rajasthan		11009	5148	5364	128.76	5365
UP	Anpara TPS	1630	1404	1490	32.30	1346
	Obra TPS	1288	382	388	8.40	350
	Paricha TPS	1140	850	804	17.70	738
	Panki TPS	210	155	165	3.40	142
	Harduaganj TPS	665	156	160	3.60	150
	Tanda TPS (NTPC)	440	372	339	9.01	376
	Roza TPS (IPP)	1200	1116	1112	26.78	1116
	Anpara-C (IPP)	1200	851	852	20.46	852
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	346	401	8.80	367
	Thermal (Total)	8223	5632	5711	130	5436
	Vishnuparyag HPS (IPP)	400	208	218	4.96	207
	Other Hydro	527	170	131	3.35	140
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6060	6110	139.96	5625
Uttarakhand	Total Hydro	1303	634	576	14.41	601
	Total Uttarakhand	1303	634	576	14.41	601
Delhi	Rajghat TPS	135	88	78	1.96	82
	Delhi Gas Turbine	282	142	142	3.39	141
	Pragati Gas Turbine	330	144	144	3.41	142
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	520	510	10.71	446
	Thermal (Total)	2917	894	874	19.47	811
	Total Delhi	2917	894	874	19.47	811
HP	Baspa HPS (IPP)	300	129	60	3.52	147
	Malana HPS (IPP)	86	77	0	0.86	36
	Other Hydro	728	519	534	13.03	543
	Total HP	1114	725	594	17.41	725
J & K	Baglihar HPS (IPP)	450	438	438	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	570	13.66	569
Total State Control Area Generation		37702	18809	18546	441.27	18180
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2677	4196	90.79	3783
Total Regional Availability(Gross)		61923	38870	37302	891.69	36947

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9123	6433	166.10	6921
State Control Area Hydro	5589	2730	2464	69.55	2691
Total Regional Hydro	16823	11853	8897	235.64	9612

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	100	300	300	0	6.27	0.00	6.27
Gwalior-Agra (D/C)	1148	1550	1843	0	34.03	0.00	34.03
Zerda-Kankroli	-298	-246	0	395	0.00	5.97	-5.97
Zerda-Bhinmal	-269	-186	0	337	0.00	4.32	-4.32
Malanpur-Auraiya	-78	-21	0	93	0.00	0.89	-0.89
Badod-Kota/Morak	-142	-76	0	206	0.00	2.25	-2.25
Mundra-Mohindergarh(HVDC)	2000	2002	2006	0	48.33	0.00	48.33
Sub Total WR	2461	3323			88.63	13.43	75.20
Pusauli Bypass	400	400	400	0	9.72	0.00	9.72
MZP- GKP (D/C)	4	124	212	88	2.05	0.00	2.05
Patna-Balia(D/C)	38	229	422	0	4.17	0.00	4.17
B'Sharif-Balia (D/C)	3	135	323	0	1.80	0.00	1.80
Pusauli-Balia	-142	-19	0	149	0.00	2.73	-2.73
Gaya-Fatehpur (765 Kv)	-140	-89	23	156	0.00	1.83	-1.83
Pusauli-Sahupuri	178	196	210	0	4.23	0.00	4.23
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-33	-34	0	35	0.00	0.86	-0.86
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-92	-69	71	102	0.00	0.96	-0.96
Sub Total ER	216	873			21.97	6.38	15.59
Total IR Exch	2677	4196			110.60	19.81	90.79

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
26.99	0.64	27.63	9.07	-0.21	-6.41	7.50	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
30.30	61.04	91.33	15.59	75.20	90.79	-14.71	14.16	-0.54

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	0.98	11.21	40.20	76.52	49.27	6.34	4.21	0.66	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				
50.25	6.03	49.65	10.16	49.93	0.16	0.10	50.23	49.84

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	17:49	400	00:39	0.0	0.0	0.0	0.0
Gorakhpur	400	437	06:04	415	13:53	0.0	0.0	74.9	19.9
Bareilly	400	419	06:04	393	14:20	0.0	0.0	0.0	0.0
Kanpur	400	420	06:06	402	14:18	0.0	0.0	0.0	0.0
Dadri	400	420	06:05	397	14:24	0.0	0.0	0.0	0.0
Ballabgarh	400	427	04:05	402	14:25	0.0	0.0	29.5	0.0
Bawana	400	422	06:03	399	14:24	0.0	0.0	3.8	0.0
Bassi	400	428	05:02	403	10:25	0.0	0.0	32.1	0.0
Hissar	400	415	06:05	394	14:16	0.0	0.0	0.0	0.0
Moga	400	414	06:05	399	23:47	0.0	0.0	0.0	0.0
Abdullapur	400	421	06:03	402	14:24	0.0	0.0	1.5	0.0
Nalagarh	400	417	06:03	398	14:54	0.0	0.0	0.0	0.0
Kishenpur	400	412	17:54	401	00:03	0.0	0.0	0.0	0.0
Wagoora	400	410	13:02	391	20:33	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	06:04	743	14:18	0.0	0.0	0.0	0.0
Balia	765	785	06:05	747	00:39	0.0	0.0	0.0	0.0
Moga	765	786	06:04	751	14:18	0.0	0.0	0.0	0.0
Agra	765	797	17:54	757	14:14	0.0	0.0	0.0	0.0
Bhiwani	765	803	06:04	760	14:22	0.0	0.0	2.1	0.0
Unnao	765	766	06:13	730	14:25	0.0	25.7	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	480.26	468.02	475.12	356.29	445.54	595.42
Pong	426.72	384.05	403.33	296.79	399.38	203.01	77.90	56.83
Tehri	829.79	740.04	745.75	29.00	NA	NA	114.04	208.00
Koteshwar	612.50	598.50	610.55	4.95	604.70	2.15	208.00	188.00
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 24.05.2014 :

Normal weather /Storm in Haryana,Punjab,Delhi,Western part of U.P.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1: 125 MVAR Bus Reactor first time charged at 18.26hrs of dt 24.05.2014 at Gorakhpur (PG).

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 24.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER