

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.05.2014
Date of Reporting : 26.05.2014

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
33858	1160	35018	50.07	36852	1610	38462	50.09	839.7	38.27

* 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	38.33	15.15		53.48	71.96	72.60	0.64	126.08	0.00
Haryana	46.94	0.16		47.10	75.55	72.65	-2.89	119.75	0.00
Rajasthan	111.10	0.20	7.57	118.87	44.75	47.15	2.40	166.01	1.24
Delhi	15.66			15.66	68.54	68.37	-0.16	84.04	0.02
UP	129.75	8.56	1.20	139.51	114.51	114.36	-0.15	253.87	34.54
Uttarakhand		12.76		12.76	18.54	17.93	-0.61	30.69	0.65
HP		16.93		16.93	6.36	6.42	0.06	23.35	0.12
J & K		14.03	0.00	14.03	16.50	17.19	0.69	31.22	1.70
Chandigarh				0.00	4.49	4.69	0.20	4.69	0.00
Total	341.78	67.79	8.77	418.34	421.18	421.35	0.17	839.69	38.27

* 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	5127	0	-48	617	5563	0	10	394	11.35
Haryana	4942	0	-824	530	5486	0	-39	400	11.99
Rajasthan	6587	0	-186	-121	6235	0	-79	-251	-2.13
Delhi	3788	0	-179	96	3742	0	89	198	2.13
UP	10020	985	-127	700	12088	1610	257	1755	23.02
Uttarakhand	1319	75	-81	287	1445	0	142	229	5.98
HP	806	0	-281	-839	899	0	14	-822	-17.35
J&K	1067	100	77	-487	1195	0	127	-648	-13.01
Chandigarh	202	0	-7	0	200	0	31	0	0.24
Total	33858	1160	-1656	783	36852	1610	552	1255	22.23

* 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
A. NTPC								
Singrauli STPS	2000	1725	1777	1717	40.08	1670	39.78	0.31
Rihand I STPS	1000	827	788	948	18.55	773	18.41	0.14
Rihand II STPS	1000	850	806	921	19.08	795	19.26	-0.18
Rihand III STPS	1000	875	870	853	19.90	829	19.78	0.12
Dadri I STPS	840	813	849	798	15.03	626	15.68	-0.65
Dadri II STPS	980	980	754	644	18.20	759	19.14	-0.94
Unchahar I TPS	420	404	358	408	8.35	348	8.76	-0.41
Unchahar II TPS	420	404	309	416	8.00	333	8.26	-0.27
Unchahar III TPS	210	202	165	211	3.85	160	3.95	-0.10
ISTPP (Jhajjar)	1500	1000	327	330	7.82	326	8.00	-0.18
Dadri GPS	830	798	177	185	4.09	170	4.18	-0.09
Anta GPS	419	391	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	421	144	150	3.31	138	3.32	-0.01
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	9694	7324	7581	166	6927	169	-2
B. NPC								
NAPS	440	143	162	168	3.44	143	3.43	0.01
RAPS- B	440	398	455	451	9.65	402	9.55	0.09
RAPS- C	440	210	229	232	4.96	207	5.04	-0.08
Sub Total (B)	1320	751	846	851	18.05	752	18.02	0.02
C. NHPC								
Chamera I HPS	540	537	540	540	11.59	483	11.62	-0.03
Chamera II HPS	300	300	302	305	6.61	275	6.60	0.01
Chamera III HPS	231	229	231	156	4.10	171	4.05	0.05
Bairasui HPS	180	180	180	180	4.14	173	4.20	-0.06
Salal-HPS	690	610	664	576	14.85	619	14.56	0.29
Tanakpur-HPS	94	37	58	33	0.91	38	0.89	0.02
Uri-HPS	480	475	475	473	11.51	479	11.40	0.11
Uri-II HPS	240	240	246	243	5.84	243	5.76	0.08
Dhauliganga-HPS	280	119	138	138	2.88	120	2.86	0.02
Dulhasti-HPS	390	387	402	405	9.43	393	9.30	0.13
Sewa-II HPS	120	122	130	130	3.07	128	2.93	0.15
Parbati 3	390	260	260	80	2.07	86	2.00	0.07
Sub Total ©	3935	3497	3626	3259	77	3208	76	1
D. SJVNL								
NJPC	1500	1605	1586	526	21.30	888	21.55	-0.25
Rampur HEP	206		280	136	4.46	186	2	2.16
Sub Total (D)	1706	1605	1866	662	25.76	1073	23.85	1.91
E. THDC								
Tehri HPS	1000	390	390	0	5.12	213	5.10	0.02
Koteshwar HPS	400	116	300	95	2.82	118	2.80	0.02
Sub Total (E)	1400	506	690	95	7.94	331	7.90	0.04
F. BBMB								
Bhakra HPS	1514	671	1324	434	16.37	682	16.11	0.26
Dehar HPS	990	486	660	660	12.45	519	11.66	0.79
Pong HPS	396	117	309	63	2.06	86	2.82	-0.76
Sub Total (F)	2900	1274	2293	1157	30.88	1287	30.58	0.30
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	137	82	1.84	76	1.92	-0.09
KWHEP HPS(IPP)	1000	0	650	464	10.99	458	12.22	-1.23
Malana Stg-II HPS	100	0	112	0	0.87	36	0.80	0.08
Shree Cement TPS	300	0	221	263	6.11	255	6.12	-0.01
Budhil HPS(IPP)	70	0	68	68	1.14	47	1.37	-0.24
Sub Total (G)	1662	0	1188	877	20.95	873	22.43	-1.48
H. Total Regional Entities (A-G)	24221	17327	17833	14482	346.81	14450	347.55	-0.75

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	875	1050	21	855
	Guru Nanak Dev TPS(Bhatinda)	440	170	220	4	168
	Guru Hargobind Singh TPS(L.mbt)	920	530	713	14	574
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1575	1983	38	1597
	Total Hydro	1148	457	703	15.15	631
Total Punjab	5128	2032	2686	53.48	2228	
Haryana	Panipat TPS	1367	215	216	4.42	184
	DCRTPP (Yamuna nagar)	600	254	514	7.03	293
	Faridabad GPS (NTPC)	432	329	311	7.89	329
	RGTPP (khedar) (IPP)	1200	444	410	9.74	406
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	740	740	17.87	744
	Thermal (Total)	4944	1982	2191	47	1956
	Total Hydro	62	6	7	0.16	6
	Total Haryana	5006	1988	2198	47.10	1962
Rajasthan	kota TPS	1240	1019	1000	23.57	982
	suratgarh TPS	1500	956	1019	24.08	1003
	Chabra TPS	750	562	563	14.00	583
	Dholpur GPS	330	127	132	3.25	135
	Ramgarh GPS	221	60	95	1.24	52
	RAPS A (NPC)	300	201	201	4.10	171
	Barsingsar (NLC)	250	80	190	3.78	157
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	784	501	19.19	800
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	602	947	17.89	746
	Thermal (Total)	7976	4391	4648	111	4629
	Total Hydro	550	0	0	0.20	8
	Wind power	2191	5	573	6.21	259
	Biomass	91	29	29	0.69	29
	Solar	201	0	0	0.67	28
	Renewable/Others (Total)	2483	34	602	7.57	315
Total Rajasthan	11009	4425	5250	118.87	4953	
UP	Anpara TPS	1630	1365	1403	32.70	1363
	Obra TPS	1288	321	320	7.60	317
	Paricha TPS	1140	659	763	16.90	704
	Panki TPS	210	137	135	3.30	138
	Harduaganj TPS	665	361	180	6.90	288
	Tanda TPS (NTPC)	440	320	371	8.78	366
	Roza TPS (IPP)	1200	792	1116	25.19	1050
	Anpara-C (IPP)	1200	855	851	20.01	834
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	279	401	8.38	349
	Thermal (Total)	8223	5089	5540	130	5406
	Vishnuparyag HPS (IPP)	400	217	208	4.91	205
	Other Hydro	527	110	184	3.65	152
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5466	5982	139.51	5608
Uttarakhand	Total Hydro	1303	490	581	12.76	532
	Total Uttarakhand	1303	490	581	12.76	532
Delhi	Rajghat TPS	135	83	85	2.36	98
	Delhi Gas Turbine	282	108	138	2.68	112
	Pragati Gas Turbine	330	53	53	0.37	15
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	500	500	10.26	428
	Thermal (Total)	2917	744	776	15.66	653
Total Delhi	2917	744	776	15.66	653	
HP	Baspa HPS (IPP)	300	81	142	2.94	123
	Malana HPS (IPP)	86	72	61	0.99	41
	Other Hydro	728	568	577	13.00	542
	Total HP	1114	721	780	16.93	706
J & K	Baglihar HPS (IPP)	450	440	448	10.58	441
	Other Hydro/IPP	436	170	130	3.45	144
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	610	578	14.03	585
Total State Control Area Generation		37702	16476	18831	418.34	17226
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3034	4746	96.66	4028
Total Regional Availability(Gross)		61923	37343	38059	861.81	35704

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9374	5719	155.26	6469
State Control Area Hydro	5589	2394	2833	67.79	2620
Total Regional Hydro	16823	11768	8552	223.05	9089

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	-50	300	500	50	6.74	0.04	6.70
Gwalior-Agra (D/C)	1411	1884	1957	0	37.56	0.00	37.56
Zerda-Kankroli	-179	-257	0	302	0.00	5.50	-5.50
Zerda-Bhinmal	-129	-189	0	265	0.00	3.87	-3.87
Malanpur-Auraiya	-53	4	0	69	0.00	0.76	-0.76
Badod-Kota/Morak	-72	-115	0	142	0.00	2.26	-2.26
Mundra-Mohindergarh(HVDC)	1998	2002	2006	0	47.57	0.00	47.57
Sub Total WR	2926	3629			91.87	12.43	79.44
Pusauli Bypass	400	400	400	0	9.69	0.00	9.69
MZP- GKP (D/C)	-98	254	302	154	2.71	0.00	2.71
Patna-Balia(D/C)	-109	277	277	141	2.15	0.00	2.15
B'Sharif-Balia (D/C)	-4	149	224	10	2.24	0.00	2.24
Pusauli-Balia	-98	-88	0	131	0.00	2.14	-2.14
Gaya-Fatehpur (765 Kv)	-67	-27	43	111	0.00	0.85	-0.85
Pusauli-Sahupuri	188	171	211	0	4.10	0.00	4.10
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-38	0	48	0.00	0.86	-0.86
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-62	19	120	87	0.18	0.00	0.18
Sub Total ER	108	1117			21.07	3.85	17.22
Total IR Exch	3034	4746			112.94	16.28	96.66

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
29.99	0.47	30.46	9.25	-0.21	-5.84	1.30	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
33.88	54.05	87.93	17.22	79.44	96.66	-16.65	25.39	8.74

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	0.38	1.22	10.66	45.56	60.60	13.67	11.78	3.30	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				
50.33	17.12	49.64	0.06	50.01	0.09	0.09	50.31	49.86

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	18:20	400	00:20	0.0	0.0	0.0	0.0
Gorakhpur	400	444	18:16	413	00:06	0.0	0.0	81.0	43.9
Bareilly	400	423	21:07	398	00:04	0.0	0.0	2.3	0.0
Kanpur	400	422	18:16	405	00:04	0.0	0.0	1.8	0.0
Dadri	400	421	18:16	402	14:24	0.0	0.0	1.5	0.0
Ballabgarh	400	429	21:30	411	00:00	0.0	0.0	13.5	0.0
Bawana	400	422	18:33	405	14:18	0.0	0.0	2.4	0.0
Bassi	400	432	18:16	408	10:19	0.0	0.0	41.6	1.3
Hissar	400	415	17:13	399	00:04	0.0	0.0	0.0	0.0
Moga	400	416	17:10	399	14:40	0.0	0.0	0.0	0.0
Abdullapur	400	423	18:16	407	00:04	0.0	0.0	5.8	0.0
Nalagarh	400	423	17:13	404	14:16	0.0	0.0	1.1	0.0
Kishenpur	400	414	17:05	401	19:28	0.0	0.0	0.0	0.0
Wagoora	400	409	17:09	393	19:56	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	18:16	749	00:04	0.0	0.0	0.0	0.0
Balia	765	792	18:06	745	00:08	0.0	0.0	0.0	0.0
Moga	765	792	17:13	760	00:04	0.0	0.0	0.0	0.0
Agra	765	802	18:17	765	14:45	0.0	0.0	0.2	0.0
Bhiwani	765	804	18:32	771	14:24	0.0	0.0	2.4	0.0
Unnao	765	773	18:17	733	00:07	0.0	21.8	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 25.05.2014 :

1. Storm & rains in Haryana,Punjab,Delhi,Western part of U.P in Evening hours.

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 : 25.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER