

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.05.2014
Date of Reporting : 28.05.2014

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
38130	2064	40194	50.05	37592	760	38352	50.08	911.0	51.69

* 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	46.28	15.46		61.74	83.69	82.67	-1.03	144.40	0.00
Haryana	40.39	0.05		40.43	89.16	87.13	-2.03	127.56	0.01
Rajasthan	119.87	0.00	6.63	126.50	59.05	58.17	-0.87	184.67	1.11
Delhi	16.61			16.61	78.71	79.12	0.41	95.73	0.20
UP	133.87	8.65	1.20	143.73	116.92	117.78	0.86	261.51	48.22
Uttarakhand		12.67		12.67	21.44	22.38	0.94	35.05	0.45
HP		17.26		17.26	7.53	7.90	0.37	25.16	0.00
J & K		13.70	0.00	13.70	17.69	17.80	0.12	31.51	1.70
Chandigarh				0.00	4.98	5.42	0.44	5.42	0.00
Total	357.01	67.79	7.83	432.63	479.17	478.39	-0.78	911.02	51.69

* 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	6110	0	-317	673	6057	0	-78	673	16.96
Haryana	5861	0	-292	614	5415	0	49	449	10.88
Rajasthan	7180	0	-28	-53	7365	0	-329	-114	1.29
Delhi	4185	4	110	321	3679	0	-142	228	6.25
UP	10749	1885	-222	558	11467	760	-158	1327	17.52
Uttarakhand	1584	75	120	361	1449	0	81	234	7.25
HP	768	0	-212	-988	790	0	-18	-670	-16.31
J&K	1461	100	28	-501	1179	0	-33	-603	-12.71
Chandigarh	232	0	6	0	192	0	18	0	0.56
Total	38130	2064	-806	985	37592	760	-610	1524	31.70

* 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	1725	1841	1865	41.19	1716	41.40	-0.21
Rihand I STPS	1000	850	881	902	20.16	840	20.09	0.07
Rihand II STPS	1000	834	803	815	19.74	823	19.75	-0.01
Rihand III STPS	1000	921	954	961	21.77	907	21.74	0.03
Dadri I STPS	840	813	701	786	16.15	673	17.04	-0.89
Dadri II STPS	980	980	851	729	19.00	792	19.76	-0.77
Unchahar I TPS	420	406	396	430	8.85	369	9.32	-0.48
Unchahar II TPS	420	404	361	429	8.59	358	8.83	-0.24
Unchahar III TPS	210	202	177	171	4.02	167	4.19	-0.17
ISTPP (Jhajjar)	1500	1000	328	325	8.62	359	8.93	-0.31
Dadri GPS	830	798	366	176	7.37	307	7.70	-0.33
Anta GPS	419	391	0	0	0.00	0	0.00	0.00
Auraiya GPS	663	421	149	155	3.43	143	3.48	-0.05
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	9749	7808	7744	179	7454	182	-3
B. NPC								
NAPS	440	142	162	165	3.43	143	3.41	0.02
RAPS- B	440	401	441	445	9.56	398	9.62	-0.06
RAPS- C	440	210	224	232	4.92	205	5.04	-0.12
Sub Total (B)	1320	753	827	842	17.92	747	18.07	-0.16
C. NHPC								
Chamera I HPS	540	534	540	540	12.00	500	12.00	0.00
Chamera II HPS	300	300	306	304	7.11	296	7.08	0.04
Chamera III HPS	231	229	231	158	4.55	190	4.48	0.07
Bairasui HPS	180	180	180	180	4.21	175	4.16	0.04
Salal-HPS	690	647	674	618	15.75	656	15.53	0.23
Tanakpur-HPS	94	33	40	32	0.77	32	0.76	0.01
Uri-HPS	480	475	475	474	11.50	479	11.40	0.10
Uri-II HPS	240	238	244	246	5.71	238	5.72	0.00
Dhauliganga-HPS	280	107	68	67	2.44	102	2.56	-0.11
Dulhasti-HPS	390	387	404	403	9.43	393	9.30	0.13
Sewa-II HPS	120	122	130	130	3.06	128	2.93	0.13
Parbati 3	390	260	260	100	1.84	76	1.80	0.04
Sub Total ©	3935	3511	3552	3252	78	3266	78	1
D. SJVNL								
NJPC	1500	1605	1597	991	22.95	956	22.82	0.13
Rampur HEP	206	189	214	214	4.46	186	4.54	-0.08
Sub Total (D)	1706	1794	1811	1205	27.41	1142	27.36	0.05
E. THDC								
Tehri HPS	1000	384	391	129	5.17	215	5.10	0.07
Koteshwar HPS	400	116	303	90	2.83	118	2.80	0.03
Sub Total (E)	1400	500	694	219	8.00	333	7.90	0.10
F. BBMB								
Bhakra HPS	1514	676	1311	483	16.59	691	16.23	0.36
Dehar HPS	990	478	660	435	11.87	495	11.48	0.39
Pong HPS	396	117	312	63	2.90	121	2.80	0.10
Sub Total (F)	2900	1271	2283	981	31.36	1307	30.51	0.85
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	112	77	1.89	79	1.82	0.07
KWHEP HPS(IPP)	1000	0	663	507	12.60	525	13.05	-0.46
Malana Stg-II HPS	100	0	112	35	0.88	37	0.82	0.06
Shree Cement TPS	300	0	279	283	6.65	277	6.92	-0.27
Budhil HPS(IPP)	70	0	68	68	1.14	47	0.96	0.17
Sub Total (G)	1662	0	1234	970	23.15	964	23.57	-0.43
H. Total Regional Entities (A-G)	24221	17580	18209	15213	365.12	15213	367.45	-2.33

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	875	20	844
	Guru Nanak Dev TPS(Bhatinda)	440	80	170	2	89
	Guru Hargobind Singh TPS(L.mbt)	920	324	498	9	387
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	648	575	15	609
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1927	2118	46	1928
	Total Hydro	1148	487	635	15.46	644
Total Punjab	5128	2414	2753	61.74	2572	
Haryana	Panipat TPS	1367	203	0	3.20	134
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	175	392	5.70	238
	RGTPP (khedar) (IPP)	1200	568	458	11.47	478
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	906	744	20.01	834
	Thermal (Total)	4944	1852	1594	40	1683
	Total Hydro	62	0	7	0.05	2
	Total Haryana	5006	1852	1601	40.43	1685
Rajasthan	kota TPS	1240	1029	1007	23.82	993
	suratgarh TPS	1500	1011	1009	25.33	1055
	Chabra TPS	750	566	629	14.98	624
	Dholpur GPS	330	129	131	3.23	134
	Ramgarh GPS	221	67	20	1.46	61
	RAPS A (NPC)	300	201	201	4.08	170
	Barsingsar (NLC)	250	190	136	4.09	171
	Giral LTPS	250	66	45	1.28	53
	Rajwest LTPS (IPP)	1080	723	952	22.40	933
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	777	796	19.19	800
	Thermal (Total)	7976	4759	4926	120	4994
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	46	492	5.81	242
	Biomass	91	28	28	0.66	28
	Solar	201	0	0	0.16	7
	Renewable/Others (Total)	2483	74	520	6.63	276
Total Rajasthan	11009	4833	5446	126.50	5271	
UP	Anpara TPS	1630	1526	1503	32.30	1346
	Obra TPS	1288	345	350	7.50	313
	Paricha TPS	1140	789	787	16.90	704
	Panki TPS	210	165	165	3.50	146
	Harduaganj TPS	665	418	399	8.10	338
	Tanda TPS (NTPC)	440	368	363	9.00	375
	Roza TPS (IPP)	1200	1116	1116	26.98	1124
	Anpara-C (IPP)	1200	848	846	20.33	847
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	9.26	386
	Thermal (Total)	8223	5976	5930	134	5578
	Vishnuparyag HPS (IPP)	400	258	198	5.19	216
	Other Hydro	527	129	168	3.47	144
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	6413	6346	143.73	5772
Uttarakhand	Total Hydro	1303	488	520	12.67	528
	Total Uttarakhand	1303	488	520	12.67	528
Delhi	Rajghat TPS	135	88	84	2.03	85
	Delhi Gas Turbine	282	108	145	2.90	121
	Pragati Gas Turbine	330	139	144	3.33	139
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	395	400	8.34	348
	Thermal (Total)	2917	730	773	16.61	692
Total Delhi	2917	730	773	16.61	692	
HP	Baspa HPS (IPP)	300	148	59	3.32	138
	Malana HPS (IPP)	86	86	51	0.96	40
	Other Hydro	728	531	553	12.98	541
	Total HP	1114	765	663	17.26	719
J & K	Baglihar HPS (IPP)	450	438	440	3.14	131
	Other Hydro/IPP	436	128	132	10.57	440
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	566	572	13.70	571
Total State Control Area Generation		37702	18061	18674	432.63	17810
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5572	6198	140.37	5849
Total Regional Availability(Gross)		61923	41842	40085	938.12	38872

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9227	6276	160.51	6688
State Control Area Hydro	5589	2435	2565	67.79	2608
Total Regional Hydro	16823	11662	8841	228.30	9296

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	0	10.93	0.00	10.93
Gwalior-Agra (D/C)	1949	2309	2309	0	46.23	0.00	46.23
Zerda-Kankroli	-92	-149	12	262	0.00	3.61	-3.61
Zerda-Bhinmal	52	-112	66	240	0.00	2.24	-2.24
Malanpur-Auraiya	-63	-24	0	63	0.00	0.81	-0.81
Badod-Kota/Morak	-62	-87	0	125	0.00	1.68	-1.68
Mundra-Mohindergarh(HVDC)	1906	1913	1912	0	46.19	0.00	46.19
Sub Total WR	4190	4350			103.35	8.34	95.01
Pusaali Bypass	300	400	400	0	8.36	0.00	8.36
MZP- GKP (D/C)	334	420	734	0	10.94	0.00	10.94
Patna-Balia(D/C)	136	260	395	0	6.23	0.00	6.23
B Sharif-Balia (D/C)	423	521	744	0	11.79	0.00	11.79
Pusaali-Balia	6	21	68	9	0.37	0.37	0.00
Gaya-Fatehpur (765 Kv)	8	29	191	38	2.09	0.00	2.09
Pusaali-Sahupuri	160	173	184	0	3.49	0.00	3.49
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)	15	24	237	50	2.46	0.00	2.46
Sub Total ER	1382	1848			45.74	0.37	45.36
Total IR Exch	5572	6198			149.09	8.71	140.37

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
32.08	0.30	32.38	10.30	0.42	-0.58	3.16	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
42.11	88.12	130.22	45.36	95.01	140.37	3.26	6.89	10.15

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	>50.20	>50.50
0.00	0.00	0.83	10.12	51.06	66.63	14.73	7.65	0.92	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				
50.39	18.04	49.71	9.13	50.00	0.07	0.08	50.33	49.92

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	403	17:25	397	22:06	0.0	0.0	0.0	0.0
Gorakhpur	400	438	06:45	416	12:26	0.0	0.0	74.9	16.0
Bareilly	400	417	18:07	394	10:09	0.0	0.0	0.0	0.0
Kanpur	400	416	06:06	396	15:15	0.0	0.0	0.0	0.0
Dadri	400	412	06:06	394	14:39	0.0	0.0	0.0	0.0
Ballabgarh	400	421	06:06	398	15:15	0.0	0.0	0.1	0.0
Bawana	400	417	18:04	391	15:17	0.0	0.0	0.0	0.0
Bassi	400	426	18:05	402	09:51	0.0	0.0	13.6	0.0
Hissar	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Moga	400	412	18:05	391	14:50	0.0	0.0	0.0	0.0
Abdullapur	400	414	06:05	402	00:05	35.7	35.7	0.0	0.0
Nalagarh	400	414	18:04	396	14:53	0.0	0.0	0.0	0.0
Kishenpur	400	409	04:05	398	09:07	0.0	0.0	0.0	0.0
Wagoora	400	407	17:47	390	20:34	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	771	06:05	734	22:20	0.0	12.4	0.0	0.0
Balia	765	782	06:16	742	00:13	0.0	0.0	0.0	0.0
Moga	765	792	18:05	746	14:51	0.0	0.0	0.0	0.0
Agra	765	791	18:06	751	15:14	0.0	0.0	0.0	0.0
Bhiwani	765	798	18:05	758	14:21	0.0	0.0	0.0	0.0
Unnao	765	759	06:18	724	15:19	0.9	50.1	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	479.76	454.47	478.58	427.60	501.15	571.66
Pong	426.72	384.05	402.83	288.96	399.56	209.93	62.21	199.12
Tehri	829.79	740.04	743.40	16.12	NA	NA	117.25	182.00
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 27.05.2014 :

1. Normal weather in NR.

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 : 27.05.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER