

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.04.2014
Date of Reporting : 01.05.2014

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
38163	3059	41222	50.07	35656	1310	36966	49.96	858.3	51.24

* 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	53.24	8.27		61.51	54.93	53.31	-1.62	114.82	0.00
Haryana	47.31	0.55		47.86	69.52	70.22	0.70	118.08	1.66
Rajasthan	101.32	0.00	7.90	109.22	56.97	62.31	5.34	171.53	6.16
Delhi	19.13			19.13	72.88	71.53	-1.35	90.66	0.73
UP	129.28	6.52	4.80	140.60	127.80	129.05	1.25	269.65	40.08
Uttarakhand		11.61		11.61	22.92	22.94	0.02	34.55	0.81
HP		14.92		14.92	9.75	9.26	-0.50	24.17	0.10
J & K		13.61	0.00	13.61	20.36	16.32	-4.04	29.93	1.70
Chandigarh				0.00	3.33	4.91	1.58	4.91	0.00
Total	350.28	55.48	12.70	418.46	438.46	439.82	1.36	858.28	51.24

* 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	5384	0	-29	1	5408	0	0	188	-3.46
Haryana	6105	0	-91	310	5359	0	77	-190	-7.29
Rajasthan	6990	1189	287	-99	6852	0	-16	-167	1.63
Delhi	4128	0	-31	61	3378	0	-91	-247	-1.36
UP	11296	1680	-129	916	11226	1310	9	1594	29.41
Uttarakhand	1627	90	86	418	1372	0	97	410	10.63
HP	1042	0	-105	-675	803	0	-4	-380	-8.39
J&K	1353	100	-101	-228	1100	0	-194	-230	-5.53
Chandigarh	238	0	31	0	158	0	3	0	0.00
Total	38163	3059	-81	703	35656	1310	-119	977	15.64

* 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	1923	2080	2077	46.13	1922	46.16	-0.03
Rihand I STPS	1000	850	930	943	20.45	852	20.35	0.09
Rihand II STPS	1000	950	1025	1044	22.68	945	22.62	0.06
Rihand III STPS	1000	462	502	496	11.08	461	11.05	0.02
Dadri I STPS	840	813	834	868	18.86	786	19.27	-0.42
Dadri II STPS	980	888	1000	781	20.28	845	20.72	-0.44
Unchahar I TPS	420	408	394	410	9.13	380	9.56	-0.43
Unchahar II TPS	420	204	217	202	4.42	184	4.62	-0.20
Unchahar III TPS	210	204	202	220	4.41	184	4.56	-0.14
ISTPP (Jhajjar)	1500	1000	433	486	15.96	665	15.39	0.57
Dadri GPS	830	805	228	173	4.79	199	5.22	-0.44
Anta GPS	419	384	234	221	5.29	220	5.44	-0.16
Auraiya GPS	663	643	148	148	3.35	139	3.55	-0.20
Dadri Solar	5		0	0	0.02	1		0.02
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9534	8227	8069	187	7784	189	-2
B. NPC								
NAPS	440	293	316	328	6.76	282	7.03	-0.27
RAPS- B	440	404	446	451	9.64	402	9.70	-0.05
RAPS- C	440	420	424	421	9.65	402	10.08	-0.43
Sub Total (B)	1320	1117	1186	1200	26.06	1086	26.81	-0.75
C. NHPC								
Chamera I HPS	540	537	540	180	9.09	379	9.00	0.09
Chamera II HPS	300	300	306	305	6.59	275	6.50	0.09
Chamera III HPS	231	231	229	160	4.16	173	4.10	0.06
Bairasui HPS	180	122	122	122	2.94	123	2.93	0.01
Salal-HPS	690	570	651	570	14.02	584	13.67	0.35
Tanakpur-HPS	94	29	0	31	0.69	29	0.70	-0.01
Uri-HPS	480	475	478	477	11.54	481	11.40	0.14
Uri-II HPS	240	240	243	247	5.74	239	5.76	-0.02
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	404	139	8.98	374	8.60	0.38
Sewa-II HPS	120	122	131	130	3.08	128	2.93	0.16
Parbati 3	390	260	261	0	2.40	100	2.39	0.00
Sub Total ©	3935	3273	3365	2361	69	2885	68	1
D. SJVNL								
NJPC	1500	1605	1070	418	16.54	689	16.01	0.53
Rampur HEP	206		124	75	0.21	9		0.21
Sub Total (D)	1706	1605	1194	493	16.75	698	16.01	0.74
E. THDC								
Tehri HPS	1000	473	482	165	7.47	311	7.50	-0.03
Koteshwar HPS	400	150	300	91	3.76	157	3.70	0.06
Sub Total (E)	1400	623	782	256	11.23	468	11.20	0.03
F. BBMB								
Bhakra HPS	1514	620	1216	499	15.65	652	14.88	0.77
Dehar HPS	990	349	165	495	9.07	378	8.38	0.69
Pong HPS	396	57	186	0	1.47	61	1.37	0.11
Sub Total (F)	2900	1026	1567	994	26.19	1091	24.63	1.56
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	142	142	1.72	72	1.67	0.04
KWHEP HPS(IPP)	1000	0	594	300	8.15	340	7.90	0.25
Malana Stg-II HPS	100	0	112	0	0.82	34	0.76	0.06
Shree Cement TPS	300	0	282	285	6.92	288	6.98	-0.06
Budhil HPS(IPP)	70	0	70	70	0.11	4	1.05	-0.94
Sub Total (G)	1662	0	1200	797	17.71	738	18.35	-0.64
H. Total Regional Entities (A-G)	24221	17179	17521	14170	354.01	14750	353.50	0.50

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	1050	850	19	795
	Guru Nanak Dev TPS(Bhatinda)	440	200	180	4	166
	Guru Hargobind Singh TPS(L.mbt)	920	876	821	17	688
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	626	654	14	569
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2752	2505	53	2218
	Total Hydro	1148	477	326	8.27	345
	Total Punjab	5128	3229	2831	61.51	2563
Haryana	Panipat TPS	1367	214	221	5.26	219
	DCRTPP (Yamuna nagar)	600	562	578	13.33	555
	Faridabad GPS (NTPC)	432	187	196	4.19	175
	RGTPP (khedar) (IPP)	1200	531	595	11.34	473
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	608	618	13.20	550
	Thermal (Total)	4944	2102	2208	47	1971
	Total Hydro	62	23	24	0.55	23
	Total Haryana	5006	2125	2232	47.86	1994
Rajasthan	kota TPS	1240	1132	1087	25.89	1079
	suratgarh TPS	1500	1110	1048	26.23	1093
	Chabra TPS	750	412	388	8.72	363
	Dholpur GPS	330	51	129	2.37	99
	Ramgarh GPS	221	90	65	1.90	79
	RAPS A (NPC)	300	180	180	4.37	182
	Barsingsar (NLC)	250	83	83	1.86	77
	Giral LTPS	250	0	84	1.16	48
	Rajwest LTPS (IPP)	1080	924	771	20.49	854
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	0	607	8.34	348
	Thermal (Total)	7976	3982	4442	101	4222
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	192	398	6.87	286
	Biomass	91	27	27	0.64	27
	Solar	201	0	0	0.40	16
	Renewable/Others (Total)	2483	219	425	7.90	329
	Total Rajasthan	11009	4201	4867	109.22	4551
UP	Anpara TPS	1630	1421	1415	30.00	1250
	Obra TPS	1288	228	347	6.50	271
	Paricha TPS	1140	828	610	16.60	692
	Panki TPS	210	85	90	1.80	75
	Harduaganj TPS	665	361	376	7.90	329
	Tanda TPS (NTPC)	440	378	379	9.25	385
	Roza TPS (IPP)	1200	914	1126	23.48	978
	Anpara-C (IPP)	1200	1076	1067	25.66	1069
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	360	8.10	337
	Thermal (Total)	8223	5654	5770	129	5387
	Vishnuparyag HPS (IPP)	400	157	148	3.58	149
	Other Hydro	527	102	152	2.94	122
	Cogeneration	981	200	200	4.80	200
	Total UP	10131	6113	6270	140.60	5709
	Uttarakhand	Total Hydro	1303	541	394	11.61
Total Uttarakhand		1303	541	394	11.61	484
Delhi	Rajghat TPS	135	56	53	1.34	56
	Delhi Gas Turbine	282	144	150	3.45	144
	Pragati Gas Turbine	330	87	92	2.17	91
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	217	30	4.10	171
	Badarpur TPS (NTPC)	705	305	435	8.07	336
	Thermal (Total)	2917	809	760	19.13	797
	Total Delhi	2917	809	760	19.13	797
HP	Baspa HPS (IPP)	300	229	31	2.21	92
	Malana HPS (IPP)	86	89	0	0.94	39
	Other Hydro	728	514	508	11.77	490
	Total HP	1114	832	539	14.92	622
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438
	Other Hydro/IPP	436	112	136	3.10	129
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	550	574	13.61	567
Total State Control Area Generation		37702	18400	18467	418.46	17287
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3874	5406	106.78	4449
Total Regional Availability(Gross)		61923	39795	38043	879.25	36486

IV. Total Hydro Generation:

Regional Entities Hydro	11233	7756	4546	134.10	5587
State Control Area Hydro	5589	2525	2009	55.48	2162
Total Regional Hydro	16823	10281	6555	189.58	7750

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	300	500	500	200	6.85	0.25	6.60
Gwalior-Agra (D/C)	1566	2000	2000	0	42.37	0.00	42.37
Zerda-Kankroli	-105	-218	0	287	0.00	3.51	-3.51
Zerda-Bhinmal	-85	-167	77	250	0.00	2.21	-2.21
Malanpur-Auraiya	-139	-33	0	170	0.00	1.21	-1.21
Badod-Kota/Morak	-52	-107	0	144	0.00	1.93	-1.93
Mundra-Mohindergarh(HVDC)	2002	1999	2020	0	48.34	0.00	48.34
Sub Total WR	3487	3974			97.56	9.10	88.46
Pusauli Bypass	400	400	400	0	9.65	0.00	9.65
MZP- GKP (D/C)	30	346	366	120	2.00	0.00	2.00
Patna-Balia(D/C)	147	335	335	0	5.45	0.00	5.45
B Sharif-Balia (D/C)	26	173	183	0	2.20	0.00	2.20
Pusauli-Balia	-104	-94	0	113	0.00	2.01	-2.01
Gaya-Fatehpur (765 Kv)	-153	39	53	153	0.00	1.38	-1.38
Pusauli-Sahupuri	203	186	203	0	4.14	0.00	4.14
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-34	0	37	0.00	0.85	-0.85
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-126	81	122	151	0.00	0.88	-0.88
Sub Total ER	387	1432			23.44	5.12	18.33
Total IR Exch	3874	5406			121.00	14.22	106.78

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
31.35	0.48	31.83	3.95	0.36	-11.30	7.40	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
24.47	79.08	103.55	18.33	88.46	106.78	-6.14	9.37	3.23

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	1.84	9.95	32.23	72.21	53.96	8.81	3.16	0.05	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				
50.20	8.09	49.56	21.04	49.94	0.15	0.11	50.23	49.76

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	406	09:01	397	05:52	0.0	0.0	0.0	0.0
Gorakhpur	400	433	08:06	413	19:36	0.0	0.0	29.6	1.0
Bareilly	400	415	08:06	378	10:50	0.1	0.1	0.0	0.0
Kanpur	400	416	08:10	401	05:41	0.0	0.0	0.0	0.0
Dadri	400	418	08:06	401	05:39	0.0	0.0	0.0	0.0
Ballabgarh	400	426	08:03	407	23:06	0.0	0.0	6.7	0.0
Bawana	400	422	08:04	401	14:21	0.0	0.0	1.2	0.0
Bassi	400	427	03:51	409	10:45	0.0	0.0	43.3	0.0
Hissar	400	413	08:04	394	05:41	0.0	0.0	0.0	0.0
Moga	400	410	08:03	395	21:05	0.0	0.0	0.0	0.0
Abdullapur	400	416	14:02	403	19:25	0.0	0.0	0.0	0.0
Nalagarh	400	417	08:01	404	19:16	0.0	0.0	0.0	0.0
Kishenpur	400	414	17:00	400	21:06	0.0	0.0	0.0	0.0
Wagoora	400	412	17:02	374	17:00	0.1	0.1	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	775	08:05	740	21:05	0.0	0.0	0.0	0.0
Balia	765	784	08:02	745	21:09	0.0	0.0	0.0	0.0
Moga	765	784	08:04	754	19:25	0.0	0.0	0.0	0.0
Agra	765	807	08:07	771	05:42	0.0	0.0	1.0	0.0
Bhiwani	765	789	17:01	767	23:07	0.0	0.0	0.0	0.0
Unnao	765	758	08:06	731	05:40	0.0	47.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	482.85	527.87	479.45	447.73	306.95	222.15
Pong	426.72	384.05	402.41	273.51	400.34	223.85	83.25	20.08
Tehri	829.79	740.04	763.85	154.42	NA	NA	82.39	244.00
Koteshwar	612.50	598.50	610.98	4.95	601.50	0.98	244.00	243.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
Rihand	268.22	252.98	NA	NA	257.13	163.30	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	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 30.04.2014 :

Hot 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 :

Dhauiganga (280MW) are out of operation since 16.06.2013.

Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood

Dhauiganga expected by last of May, 2014 .

Report for : 30.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER