

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.04.2014
Date of Reporting : 24.04.2014

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
35193	3188	38381	50.02	30400	-170	30230	49.94	770.0	46.60

* 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	32.88	8.30		41.18	54.07	55.08	1.01	96.26	2.67
Haryana	47.30	0.57		47.87	53.26	52.71	-0.55	100.58	1.11
Rajasthan	107.42	0.52	3.28	111.22	37.37	37.31	-0.06	148.52	0.00
Delhi	15.86			15.86	57.07	59.74	2.67	75.60	0.24
UP	138.97	5.41	7.20	151.58	104.85	106.82	1.97	258.40	39.41
Uttarakhand		8.90		8.90	21.03	22.79	1.77	31.69	1.47
HP		12.14		12.14	11.15	12.51	1.35	24.64	0.00
J & K		13.63	0.00	13.63	17.89	16.77	-1.12	30.40	1.70
Chandigarh				0.00	3.33	3.92	0.59	3.92	0.00
Total	342.43	49.47	10.48	402.38	360.02	367.65	7.62	770.03	46.60

* 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	4325	350	-2	-361	3870	0	37	-166	-5.46	
Haryana	5347	563	60	320	4051	0	24	-95	3.59	
Rajasthan	6869	0	196	-99	5233	0	-153	-646	-2.47	
Delhi	3545	0	64	-234	2490	0	-46	-583	-8.10	
UP	10894	1965	-15	923	11441	-240	26	2009	22.81	
Uttarakhand	1463	210	81	371	1159	70	164	279	9.51	
HP	1072	0	-67	-386	846	0	34	-33	-3.87	
J&K	1477	100	-41	-230	1198	0	-4	-229	-5.53	
Chandigarh	201	0	16	0	113	0	-7	0	0.00	
Total	35193	3188	292	303	30400	-170	75	536	10.48	

* 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	1733	1868	1868	41.65	1735	41.49	0.16
Rihand I STPS	1000	850	944	955	20.61	859	20.20	0.42
Rihand II STPS	1000	900	1014	1014	22.41	934	21.45	0.96
Rihand III STPS	1000	739	868	729	17.88	745	17.57	0.31
Dadri I STPS	840	813	853	675	17.03	710	17.42	-0.39
Dadri II STPS	980	473	490	443	10.56	440	11.09	-0.53
Unchahar I TPS	420	408	432	398	9.14	381	9.60	-0.46
Unchahar II TPS	420	204	203	202	4.34	181	4.70	-0.36
Unchahar III TPS	210	204	212	199	4.35	181	4.65	-0.30
ISTPP (Jhajhar)	1500	1000	523	396	10.89	454	10.89	0.00
Dadri GPS	830	805	178	184	4.13	172	4.34	-0.21
Anta GPS	419	393	245	196	5.08	212	5.04	0.04
Auraiya GPS	663	648	148	154	3.45	144	3.48	-0.03
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.03	1		0.03
Sub Total (A)	11297	9170	7978	7413	172	7148	172	0
B. NPC								
NAPS	440	148	170	176	3.53	147	3.80	-0.27
RAPS- B	440	410	452	456	10.10	421	9.84	0.26
RAPS- C	440	420	462	465	9.95	415	10.08	-0.13
Sub Total (B)	1320	978	1084	1097	23.58	983	23.72	-0.14
C. NHPC								
Chamera I HPS	540	540	540	0	8.07	336	8.00	0.07
Chamera II HPS	300	300	300	0	3.59	150	3.50	0.09
Chamera III HPS	231	231	220	0	2.18	91	2.10	0.08
Bairasuli HPS	180	122	122	122	2.94	123	2.93	0.01
Salal-HPS	690	420	450	404	10.46	436	10.08	0.38
Tanakpur-HPS	94	22	21	23	0.56	23	0.53	0.03
Uri-HPS	480	475	477	472	11.52	480	11.40	0.12
Uri-II HPS	240	180	180	190	4.40	184	4.32	0.08
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	402	0	5.01	209	4.70	0.31
Sewa-II HPS	120	122	130	130	2.55	106	2.44	0.11
Parbati 3	390	257	0	0	1.01	42	1.03	-0.02
Sub Total (C)	3935	3056	2842	1341	52	2179	51	1
D. SJVNL								
NJPC	1500	1605	760	269	9.65	402	9.50	0.15
Rampur HEP	206		0	0	0.96	40		0.96
Sub Total (D)	1706	1605	760	269	10.61	442	9.50	1.11
E. THDC								
Tehri HPS	1000	503	511	0	8.02	334	8.00	0.02
Koteshwar HPS	400	150	301	0	3.65	152	3.60	0.05
Sub Total (E)	1400	653	812	0	11.67	486	11.60	0.07
F. BBMB								
Bhakra HPS	1514	276	280	281	6.75	281	6.62	0.13
Dehar HPS	990	325	495	280	8.60	358	7.81	0.80
Pong HPS	396	6	124	0	0.17	7	0.15	0.02
Sub Total (F)	2900	607	899	561	15.52	647	14.58	0.94
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	98	0	0.62	26	0.60	0.02
KWHEP HPS(IPP)	1000	0	430	150	4.64	193	4.56	0.08
Malana Stg-II HPS	100	0	112	0	0.36	15	0.33	0.03
Shree Cement TPS	300	0	280	277	6.92	288	6.85	0.07
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.91	-0.91
Sub Total (G)	1662	0	920	427	12.53	522	13.24	-0.71
H. Total Regional Entities (A-G)	24221	16069	15295	11108	297.75	12406	295.58	2.17

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	630	450	12.08	503	
	Guru Nanak Dev TPS(Bhatinda)	440	120	90	2.22	93	
	Guru Hargobind Singh TPS(L.mbt)	920	423	309	8.61	359	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura	700	321	460	9.97	415	
	Talwandi Saboo	660	0	0	0.00	0	
	Thermal (Total)	3980	1494	1309	32.88	1370	
	Total Hydro	1148	405	225	8.30	346	
	Total Punjab	5128	1899	1534	41.18	1716	
	Haryana	Panipat TPS	1367	412	392	9.43	393
DCRTPP (Yamuna nagar)		600	546	545	11.22	468	
Faridabad GPS (NTPC)		432	188	192	4.26	178	
RGTPP (khedar) (IPP)		1200	582	502	11.19	466	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP)		1320	605	371	11.19	466	
Thermal (Total)		4944	2333	2002	47.30	1971	
Total Hydro		62	23	23	0.57	24	
Total Haryana		5006	2356	2025	47.87	1995	
Rajasthan		kota TPS	1240	1176	1098	26.41	1100
	suratgarh TPS	1500	1106	1037	25.57	1065	
	Chabra TPS	750	404	398	9.57	399	
	Dholpur GPS	330	132	136	3.31	138	
	Ramgarh GPS	221	60	39	1.39	58	
	RAPS A (NPC)	300	175	175	4.16	173	
	Barsingsar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	71	76	1.67	70	
	Rajwest LTPS (IPP)	1080	947	819	21.40	892	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Kalisindh Thermal	600	0	0	0.00	0	
	Kawai(Adani)	1320	612	608	13.95	581	
	Thermal (Total)	7976	4683	4386	107.42	4476	
	Total Hydro	550	0	0	0.52	22	
	Wind power	2746	75	117	1.93	81	
	Biomass	99	31	31	0.74	31	
	Solar	692	0	0	0.61	25	
	Renewable/Others (Total)	3537	106	148	3.28	137	
	Total Rajasthan	12063	4789	4534	111.22	4634	
	UP	Anpara TPS	1630	1515	1412	33.20	1383
Obra TPS		1194	414	415	9.70	404	
Paricha TPS		1140	788	788	18.90	788	
Panki TPS		210	81	72	1.90	79	
Harduaganj TPS		665	189	356	6.50	271	
Tanda TPS (NTPC)		440	287	291	7.06	294	
Roza TPS (IPP)		1200	1126	1116	27.02	1126	
Anpara-C (IPP)		1200	1070	1077	25.48	1062	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	401	401	9.22	384	
Thermal (Total)		8129	5871	5928	138.97	5791	
Vishnuparyag HPS (IPP)		400	94	88	2.14	89	
Other Hydro		527	152	117	3.26	136	
Cogeneration		1133	300	300	7.20	300	
Total UP		10189	6417	6433	151.58	6227	
Uttarakhand		Total Hydro	1398	503	329	8.90	371
		Total Uttarakhand	1398	503	329	8.90	371
Delhi	Rajghat TPS	135	108	107	2.89	121	
	Delhi Gas Turbine	282	139	118	2.92	122	
	Pragati Gas Turbine	330	95	100	2.35	98	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	1370	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	385	365	7.71	321	
	Thermal (Total)	2917	727	690	15.86	661	
	Total Delhi	2917	727	690	15.86	661	
HP	Baspa HPS (IPP)	300	81	0	1.42	59	
	Malana HPS (IPP)	86	87	0	0.43	18	
	Other Hydro	728	474	386	10.28	429	
	Total HP	1114	642	386	12.14	506	
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437	
	Other Hydro/IPP	436	132	128	3.14	131	
	Gas/Diesel/Others	209	0	0	0.00	0	
	Total J & K	1094	570	564	13.63	568	
Total State Control Area Generation		38909	17903	16495	402.38	16676	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3408	4031	87.77	3657	
Total Regional Availability(Gross)		63130	36606	31634	787.90	32740	

IV. Total Hydro Generation:

Regional Entities Hydro	11233	5953	2321	95.71	3988
State Control Area Hydro	5684	2295	1644	49.47	1972
Total Regional Hydro	16918	8248	3965	145.17	5960

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	100	350	0	2.86	0.00	2.86
Gwalior-Agra (D/C)	1212	1731	1856	0	33.76	0.00	33.76
Zerda-Kankroli	-233	-292	0	377	0.00	7.18	-7.18
Zerda-Bhinmal	-190	-228	0	320	0.00	5.58	-5.58
Malanpur-Auraiya	-46	-18	0	70	0.00	0.91	-0.91
Badod-Kota/Morak	-134	-278	0	287	0.00	3.47	-3.47
Mundra-Mohindergarh(HVDC)	1999	1999	2005	0	48.33	0.00	48.33
Sub Total WR	2708	3014			84.95	17.14	67.81
Pusauli Bypass	400	400	400	0	9.71	0.00	9.71
MZP- GKP (D/C)	40	180	212	0	2.34	0.00	2.34
Patna-Balia(D/C)	237	352	357	0	6.95	0.00	6.95
B'Sharif-Balia (D/C)	133	156	172	0	2.02	0.00	2.02
Pusauli-Balia	-150	-106	0	154	0.00	2.90	-2.90
Gaya-Fatehpur (765 Kv)	-84	-55	81	109	0.00	0.77	-0.77
Pusauli-Sahupuri	166	170	178	0	3.59	0.00	3.59
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-30	0	32	0.00	0.64	-0.64
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-14	-50	160	100	0.08	0.42	-0.34
Sub Total ER	700	1017			24.69	4.73	19.97
Total IR Exch	3408	4031			109.64	21.87	87.77

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
35.82	0.25	36.07	3.53	-0.38	-6.63	2.71	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
32.97	45.17	78.14	19.97	67.81	87.77	-13.00	22.63	9.63

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	1.44	9.46	40.68	83.39	50.80	5.31	3.28	0.35	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)			
50.25	13.00	49.57	21.05	49.92	0..154	0.09	50.15	49.78

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	16:29	398	08:19	0.0	0.0	0.0	0.0
Gorakhpur	400	435	13:00	406	19:11	0.0	0.0	59.8	5.0
Bareilly	400	414	08:05	397	19:10	0.0	0.0	0.0	0.0
Kanpur	400	415	00:40	396	19:11	0.0	0.0	0.0	0.0
Dadri	400	419	00:31	402	14:50	0.0	0.0	0.0	0.0
Ballabgarh	400	428	00:30	407	19:24	0.0	0.0	32.6	0.0
Bawana	400	424	01:07	406	19:24	0.0	0.0	21.8	0.0
Bassi	400	432	03:43	407	19:24	0.0	0.0	37.5	8.2
Hissar	400	416	00:33	398	19:24	0.0	0.0	0.0	0.0
Moga	400	419	03:28	399	19:24	0.0	0.0	0.0	0.0
Abdullapur	400	426	00:30	407	19:23	0.0	0.0	18.0	0.0
Nalagarh	400	426	00:32	406	19:28	0.0	0.0	22.7	0.0
Kishenpur	400	421	03:18	399	19:23	0.0	0.0	1.7	0.0
Wagoora	400	412	03:19	386	19:17	0.0	5.8	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	772	13:00	733	19:24	0.0	5.5	0.0	0.0
Balia	765	770	13:00	725	19:24	1.0	4.8	0.0	0.0
Moga	765	794	00:31	759	19:24	0.0	0.0	0.0	0.0
Agra	765	805	00:30	767	19:22	0.0	0.0	5.0	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	754	13:01	725	19:24	1.7	40.4	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	818.65	982.26	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 23.04.2014 :
Normal

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 :
Dhauliganga (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
Dhauliganga expected by April, 2014 .

Report for : 23.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER