

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.04.2014
Date of Reporting : 10.04.2014

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
35370	2441	37811	50.08	30279	150	30429	50.11	747.6	34.31

* 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	41.94	6.86		48.79	49.63	49.74	0.11	98.53	0.00
Haryana	29.83	0.46		30.29	66.37	64.48	-1.89	94.77	0.39
Rajasthan	116.88	0.34	3.29	120.51	31.86	31.78	-0.08	152.29	0.00
Delhi	12.84			12.84	55.58	53.93	-1.65	66.77	0.10
UP	113.91	3.06	14.40	131.37	113.44	112.93	-0.51	244.30	31.07
Uttarakhand		10.92		10.92	19.75	20.62	0.88	31.54	1.05
HP		11.84		11.84	11.58	12.40	0.82	24.24	0.00
J & K		12.83	0.00	12.83	22.73	18.80	-3.93	31.63	1.70
Chandigarh				0.00	3.33	3.58	0.25	3.58	0.00
Total	315.39	46.30	17.69	379.38	374.27	368.27	-6.01	747.65	34.31

* 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	4798	0	33	-417	3444	0	-43	-598	-8.92	
Haryana	5118	0	-128	342	3739	0	173	-274	-2.62	
Rajasthan	6990	0	77	-422	6341	0	-11	-702	-8.31	
Delhi	3267	26	-94	-120	2092	0	-239	-556	-6.27	
UP	10793	2240	70	762	11392	150	84	1707	23.29	
Uttarakhand	1528	75	55	325	1122	0	4	303	7.54	
HP	1119	0	66	-242	806	0	-8	-131	-5.05	
J&K	1577	100	-54	-42	1250	0	-161	-180	-3.88	
Chandigarh	182	0	-1	0	94	0	-10	0	0.00	
Total	35370	2441	24	186	30279	150	-211	-430	-4.23	

* 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	1705	1851	1781	41.69	1737	40.91	0.78
Rihand I STPS	1000	920	974	981	21.38	891	21.40	-0.02
Rihand II STPS	1000	945	1008	1004	21.99	916	22.01	-0.02
Rihand III STPS	1000	850	740	948	19.70	821	20.00	-0.29
Dadri I STPS	840	800	746	598	14.90	621	15.77	-0.87
Dadri II STPS	980	470	395	371	8.55	356	9.21	-0.66
Unchahar I TPS	420	408	407	379	8.60	358	8.99	-0.39
Unchahar II TPS	420	408	403	326	7.89	329	8.30	-0.40
Unchahar III TPS	210	204	170	156	3.76	157	3.97	-0.21
ISTPP (Jhajjhar)	1500	1000	447	315	7.64	318	7.74	-0.10
Dadri GPS	830	807	378	388	8.83	368	9.00	-0.17
Anta GPS	419	266	201	187	4.86	202	4.66	0.19
Auraiya GPS	663	647	152	158	3.54	147	3.64	-0.10
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9429	7872	7592	173	7222	176	-2
B. NPC								
NAPS	440	289	328	337	7.06	294	6.00	1.06
RAPS- B	440	409	223	226	9.92	413	9.82	0.10
RAPS- C	440	430	464	470	9.98	416	10.32	-0.34
Sub Total (B)	1320	1128	1015	1033	26.96	1123	26.14	0.82
C. NHPC								
Chamera I HPS	540	540	540	0	8.05	335	8.05	0.00
Chamera II HPS	300	300	299	0	3.36	140	3.35	0.00
Chamera III HPS	231	231	224	0	1.84	77	1.85	-0.01
Bairasuil HPS	180	139	0	182	3.18	132	3.18	0.00
Salal-HPS	690	443	456	449	10.81	450	10.62	0.19
Tanakpur-HPS	94	26	25	29	0.61	26	0.61	0.00
Uri-HPS	480	475	471	473	11.48	478	11.40	0.08
Uri-II HPS	240	180	187	181	4.44	185	4.32	0.12
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	402	0	4.05	169	4.00	0.04
Sewa-II HPS	120	122	130	130	3.06	127	2.93	0.13
Parbati 3	390	216	0	0	0.83	35	0.90	-0.07
Sub Total (C)	3935	3058	2734	1444	52	2154	51	0
D. SJVNL								
NJPC	1500	1605	711	357	10.02	418	10.02	0.00
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	711	357	10.02	418	10.02	0.00
E. THDC								
Tehri HPS	1000	570	563	186	8.06	336	8.00	0.06
Koteshwar HPS	400	154	393	0	3.07	128	3.50	-0.44
Sub Total (E)	1400	724	956	186	11.13	464	11.50	-0.38
F. BBMB								
Bhakra HPS	1497	437	669	355	11.42	476	10.49	0.93
Dehar HPS	990	394	420	495	10.42	434	9.45	0.97
Pong HPS	396	9	0	0	0.21	9	0.21	0.00
Sub Total (F)	2883	840	1089	850	22.05	919	20.15	1.90
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	94	0	0.58	24	0.57	0.01
KWHEP HPS(IPP)	1000	0	652	147	4.99	208	5.04	-0.05
Malana Stg-II HPS	100	0	0	0	0.00	0	0.36	-0.36
Shree Cement TPS	300	0	127	89	2.82	117	2.92	-0.10
Budhil HPS(IPP)	70	0	35	0	0.04	2	0.58	-0.55
Sub Total (G)	1662	0	908	236	8.42	351	9.46	-1.04
H. Total Regional Entities (A-G)	24203	16783	15285	11698	303.59	12650	304.08	-0.48

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	660	510	14.78	616
	Guru Nanak Dev TPS(Bhatinda)	440	120	102	2.35	98
	Guru Hargobind Singh TPS(L.mbt)	920	539	598	13.75	573
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	658	278	11.06	461
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1977	1488	41.94	1747
	Total Hydro	1148	143	295	6.86	286
	Total Punjab	5128	2120	1783	48.79	2033
Haryana	Panipat TPS	1367	226	215	5.26	219
	DCRTPP (Yamuna nagar)	600	280	258	6.21	259
	Faridabad GPS (NTPC)	432	392	280	7.42	309
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	612	368	10.94	456
	Thermal (Total)	4944	1510	1121	29.83	1243
	Total Hydro	62	19	19	0.46	19
	Total Haryana	5006	1529	1140	30.29	1262
	Rajasthan	kota TPS	1240	979	1073	24.90
suratgarh TPS		1500	1102	1060	25.11	1046
Chabra TPS		750	383	372	9.73	405
Dholpur GPS		330	98	84	2.40	100
Ramgarh GPS		221	102	97	2.57	107
RAPS A (NPC)		300	175	175	4.09	170
Barsingsar (NLC)		250	192	191	4.40	183
Giral LTPS		250	53	76	1.16	48
Rajwest LTPS (IPP)		1080	935	676	18.67	778
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1362	1200	23.84	993
Thermal (Total)		7976	5381	5004	116.88	4870
Total Hydro		550	21	21	0.34	14
Wind power		2191	84	270	2.53	105
Biomass		91	17	17	0.41	17
Solar		201	0	0	0.35	15
Renewable/Others (Total)		2483	101	287	3.29	137
Total Rajasthan		11009	5503	5312	120.51	5021
UP	Anpara TPS	1630	1090	1097	23.40	975
	Obra TPS	1288	410	420	8.60	358
	Paricha TPS	1140	479	624	10.30	429
	Panki TPS	210	85	85	1.80	75
	Harduaganj TPS	665	202	406	3.10	129
	Tanda TPS (NTPC)	440	388	389	9.29	387
	Roza TPS (IPP)	1200	1130	1116	25.44	1060
	Anpara-C (IPP)	1200	1082	1080	23.54	981
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	8.44	352
	Thermal (Total)	8223	5267	5618	113.91	4746
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	178	116	3.06	127
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	6045	6334	131.37	5474
	Uttarakhand	Total Hydro	1303	454	379	10.92
Total Uttarakhand		1303	454	379	10.92	455
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	77	81	1.85	77
	Pragati Gas Turbine	330	144	150	3.53	147
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	292	313	7.46	311
	Thermal (Total)	2917	513	544	12.84	535
	Total Delhi	2917	513	544	12.84	535
HP	Baspa HPS (IPP)	330	31	0	1.32	55
	Malana HPS (IPP)	86	43	0	0.54	23
	Other Hydro	589	413	400	9.98	416
	Total HP	1005	487	400	11.84	493
J & K	Baglihar HPS (IPP)	450	440	436	10.54	439
	Other Hydro	397	73	132	2.30	96
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1056	513	568	12.83	535
Total State Control Area Generation		37555	17164	16460	379.38	15807
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3906	3362	89.56	3732
Total Regional Availability(Gross)		61758	36355	31520	772.53	32189

IV. Total Hydro Generation:

Regional Entities Hydro	11216	6236	2984	100.45	4186
State Control Area Hydro	5442	1815	1798	46.30	1929
Total Regional Hydro	16658	8051	4782	146.75	6115

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	400	500	0	8.93	0.00	8.93
Gwalior-Agra (D/C)	1803	1931	2177	0	43.29	0.00	43.29
Zerda-Kankroli	-193	-244	0	338	0.00	5.98	-5.98
Zerda-Bhinmal	-170	-195	0	287	0.00	4.36	-4.36
Malanpur-Auraiya	-30	-21	0	80	0.00	0.65	-0.65
Badod-Kota/Morak	-102	-201	0	235	0.00	4.07	-4.07
Mundra-Mohinderghar(HVDC)	2003	2003	2009	0	48.34	0.00	48.34
Sub Total WR	3811	3673			100.56	15.05	85.51
Pusauli Bypass	400	400	400	0	9.68	0.00	9.68
MZP- GKP (D/C)	-168	-148	54	238	0.00	2.43	-2.43
Patna-Balia(D/C)	312	145	312	0	4.68	0.00	4.68
B'Sharif-Balia (D/C)	-9	-158	84	158	0.00	1.35	-1.35
Pusauli-Balia	-131	-141	0	154	0.00	2.87	-2.87
Gaya-Fatehpur (765 Kv)	-224	-224	45	270	0.00	2.83	-2.83
Pusauli-Sahupuri	140	176	193	0	3.65	0.00	3.65
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)	-225	-361	0	361	0.00	4.49	-4.49
Sub Total ER	95	-311			18.01	13.97	4.05
Total IR Exch	3906	3362			118.58	29.02	89.56

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
30.82	0.05	30.86	5.64	-0.51	-16.14	-0.25	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
20.37	63.93	84.30	4.05	85.51	89.56	-16.32	21.58	5.26

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	0.00	0.40	6.24	41.24	35.00	44.88	13.88	2.84	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				
50.34	17.42	49.74	9.17	50.02	0.07	0.08	50.32	49.93

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	07:06	118	11:26	4.6	4.6	0.0	0.0
Gorakhpur	400	433	15:08	412	18:58	0.0	0.0	74.1	14.4
Bareilly	400	419	13:00	402	19:46	0.0	0.0	0.0	0.0
Kanpur	400	418	13:01	401	18:56	0.0	0.0	0.0	0.0
Dadri	400	421	03:14	401	19:12	0.0	0.0	3.9	0.0
Ballabgarh	400	430	03:14	409	18:58	0.0	0.0	56.5	0.0
Bawana	400	427	02:56	404	19:11	0.0	0.0	37.6	0.0
Bassi	400	429	04:00	414	10:09	0.0	0.0	64.7	0.0
Hissar	400	417	02:53	392	19:13	0.0	0.0	0.0	0.0
Moga	400	417	03:14	394	19:14	0.0	0.0	0.0	0.0
Abdullapur	400	427	23:58	403	19:16	0.0	0.0	34.0	0.0
Nalagarh	400	427	02:50	406	19:12	0.0	0.0	27.5	0.0
Kishenpur	400	417	03:14	394	19:27	0.0	0.0	0.0	0.0
Wagoora	400	407	13:01	376	20:34	5.6	30.6	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	773	13:01	738	18:57	0.0	0.5	0.0	0.0
Balia	765	761	08:02	730	19:08	0.0	30.5	0.0	0.0
Moga	765	795	03:14	752	19:13	0.0	0.0	0.0	0.0
Agra	765	808	21:53	774	18:58	0.0	0.0	20.0	0.0
Bhiwani	765	803	17:47	765	19:16	0.0	0.0	1.5	0.0
Unnao	765	765	08:05	738	18:58	0.0	1.6	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	481.75	503.43	477.93	414.26	479.43	338.07
Pong	426.72	384.05	401.00	266.33	400.05	216.87	82.74	14.19
Tehri	829.79	740.04	772.90	238.00	818.65	982.26	77.02	216.00
Koteshwar	612.50	598.50	610.92	4.95	612.40	5.73	196.00	208.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	81.53	107.03
Rihand	268.22	252.98	259.45	274.80	258.99	250.70	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	514.74	144.00	506.85	144.00	224.78	127.17

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.04.2014 :

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 :

Vishnuprayag (400MW) and 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 Vishnuprayag and Dhauliganga expected by April, 2014 .

Report for : 09.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER