

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.04.2014
Date of Reporting : 20.04.2014

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
33491	1905	35396	50.06	26032	30	26062	50.08	692.9	16.63

* 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	31.13	4.74		35.87	48.21	48.46	0.25	84.33	0.00
Haryana	34.55	0.44		35.00	59.67	58.48	-1.19	93.48	0.15
Rajasthan	88.19	0.00	4.19	92.37	45.20	44.76	-0.43	137.13	0.29
Delhi	15.05			15.05	52.90	50.68	-2.22	65.74	0.05
UP	115.02	3.34	9.10	127.46	98.58	95.06	-3.52	222.53	13.71
Uttarakhand		8.78		8.78	21.10	21.92	0.82	30.70	0.71
HP		11.12		11.12	12.09	12.38	0.30	23.50	0.02
J & K		11.56	0.00	11.56	21.45	20.58	-0.87	32.14	1.70
Chandigarh				0.00	3.33	3.38	0.05	3.38	0.00
Total	283.94	39.98	13.29	337.21	362.53	355.72	-6.81	692.93	16.63

* 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	4490	0	119	-349	2751	0	38	-52	-5.08
Haryana	5346	152	146	273	3453	0	58	253	-1.72
Rajasthan	6573	28	191	-51	5250	0	-153	4	1.37
Delhi	3245	0	-5	-246	2228	0	-198	-557	-8.62
UP	9599	1470	-101	643	9311	0	-109	794	16.27
Uttarakhand	1452	155	72	284	1008	0	-62	273	8.20
HP	1071	0	-88	-336	759	30	3	-14	-3.33
J&K	1534	100	-5	-214	1183	0	-158	-212	-5.20
Chandigarh	182	0	-6	0	89	0	-26	0	0.00
Total	33491	1905	324	4	26032	30	-607	488	1.88

* 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	1730	1848	1339	39.14	1631	39.25	-0.11
Rihand I STPS	1000	854	913	687	18.88	787	18.73	0.15
Rihand II STPS	1000	929	1026	754	20.49	854	20.52	-0.03
Rihand III STPS	1000	734	763	658	16.23	676	16.20	0.02
Dadri I STPS	840	813	814	600	14.75	614	15.28	-0.53
Dadri II STPS	980	473	454	347	8.83	368	9.26	-0.43
Unchahar I TPS	420	408	415	309	8.18	341	8.60	-0.42
Unchahar II TPS	420	408	418	314	7.97	332	8.24	-0.27
Unchahar III TPS	210	204	214	154	3.92	163	4.09	-0.17
ISTPP (Jhajjar)	1500	1000	508	325	8.11	338	8.32	-0.21
Dadri GPS	830	709	179	189	4.43	185	4.56	-0.12
Anta GPS	419	391	195	240	5.74	239	5.85	-0.11
Auraiya GPS	663	649	157	157	3.61	151	3.77	-0.16
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9303	7904	6073	160	6678	163	-2
B. NPC								
NAPS	440	291	329	337	7.07	295	6.00	1.07
RAPS- B	440	408	402	400	9.16	382	9.79	-0.63
RAPS- C	440	420	461	458	9.93	414	10.08	-0.15
Sub Total (B)	1320	1119	1192	1195	26.16	1090	25.87	0.29
C. NHPC								
Chamera I HPS	540	540	540	0	5.97	249	6.10	-0.13
Chamera II HPS	300	300	301	0	3.23	135	3.75	-0.52
Chamera III HPS	231	231	227	0	2.14	89	2.15	-0.01
Bairasui HPS	180	122	122	122	2.90	121	2.93	-0.03
Salal-HPS	690	500	560	545	12.21	509	12.00	0.21
Tanakpur-HPS	94	22	70	63	0.56	23	0.52	0.03
Uri-HPS	480	475	476	474	11.52	480	11.40	0.12
Uri-II HPS	240	180	190	189	4.41	184	4.32	0.09
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	372	380	0	4.52	188	4.40	0.12
Sewa-II HPS	120	122	128	126	3.07	128	2.93	0.14
Parbati 3	390	83	0	0	0.94	39	0.90	0.04
Sub Total ©	3935	2946	2994	1519	51	2144	51	0
D. SJVNL								
NJPC	1500	1605	756	160	9.44	393	9.34	0.10
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	756	160	9.44	393	9.34	0.10
E. THDC								
Tehri HPS	1000	510	350	0	7.89	329	7.88	0.02
Koteshwar HPS	400	150	90	90	3.63	151	3.60	0.02
Sub Total (E)	1400	660	440	90	11.52	480	11.48	0.04
F. BBMB								
Bhakra HPS	1514	302	302	303	7.27	303	7.25	0.02
Dehar HPS	990	279	495	280	7.59	316	6.69	0.91
Pong HPS	396	47	296	0	1.16	48	1.13	0.03
Sub Total (F)	2900	627	1093	583	16.02	668	15.06	0.96
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	106	0	0.50	21	0.49	0.01
KWHEP HPS(IPP)	1000	0	423	150	4.52	188	4.56	-0.04
Malana Stg-II HPS	100	0	0	0	0.28	12	0.27	0.02
Shree Cement TPS	300	0	266	266	6.48	270	6.48	0.00
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.73	-0.73
Sub Total (G)	1662	0	795	416	11.78	491	12.52	-0.74
H. Total Regional Entities (A-G)	24221	16261	15174	10036	286.66	11944	288.33	-1.67

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	480	480	10.66	444
	Guru Nanak Dev TPS(Bhatinda)	440	95	90	2.04	85
	Guru Hargobind Singh TPS(L.mbt)	920	304	306	7.78	324
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	498	332	10.65	444
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1377	1208	31.13	1297
	Total Hydro	1148	321	60	4.74	198
Total Punjab	5128	1698	1268	35.87	1495	
Haryana	Panipat TPS	1367	217	213	5.24	218
	DCRTPP (Yamuna nagar)	600	530	546	12.63	526
	Faridabad GPS (NTPC)	432	193	193	4.53	189
	RGTPP (khedar) (IPP)	1200	575	498	12.16	507
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1515	1450	34.55	1440
	Total Hydro	62	17	18	0.44	18
	Total Haryana	5006	1532	1468	35.00	1458
	Rajasthan	kota TPS	1240	1180	1097	26.61
suratgarh TPS		1500	884	997	21.64	902
Chabra TPS		750	391	358	5.34	222
Dholpur GPS		330	134	138	3.37	141
Ramgarh GPS		221	75	62	1.50	62
RAPS A (NPC)		300	175	175	4.08	170
Barsingsar (NLC)		250	83	84	1.74	72
Giral LTPS		250	26	268	0.66	28
Rajwest LTPS (IPP)		1080	711	478	14.95	623
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	0	959	8.29	346
Thermal (Total)		7976	3659	4616	88.19	3674
Total Hydro		550	0	0	0.00	0
Wind power		2191	119	100	3.02	126
Biomass		91	31	31	0.74	31
Solar		201	0	0	0.42	18
Renewable/Others (Total)		2483	150	131	4.19	174
Total Rajasthan	11009	3809	4747	92.37	3849	
UP	Anpara TPS	1630	1404	1362	32.40	1350
	Obra TPS	1288	388	337	8.50	354
	Paricha TPS	1140	453	519	11.80	492
	Panki TPS	210	72	77	1.70	71
	Harduaganj TPS	665	339	347	8.20	342
	Tanda TPS (NTPC)	440	289	279	7.29	304
	Roza TPS (IPP)	1200	756	756	18.95	790
	Anpara-C (IPP)	1200	759	1010	19.85	827
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	281	280	6.34	264
	Thermal (Total)	8223	4741	4967	115.02	4793
	Vishnuparyag HPS (IPP)	400	93	83	2.10	88
	Other Hydro	527	76	48	1.24	52
	Cogeneration	981	380	380	9.10	379
	Total UP	10131	5290	5478	127.46	5223
Uttarakhand	Total Hydro	1303	494	331	8.78	366
	Total Uttarakhand	1303	494	331	8.78	366
Delhi	Rajghat TPS	135	106	107	2.50	104
	Delhi Gas Turbine	282	120	120	2.82	117
	Pragati Gas Turbine	330	99	102	2.38	99
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	345	350	7.35	306
	Thermal (Total)	2917	670	679	15.05	627
Total Delhi	2917	670	679	15.05	627	
HP	Baspa HPS (IPP)	300	80	0	0.99	41
	Malana HPS (IPP)	86	60	0	0.38	16
	Other Hydro	728	490	307	9.74	406
	Total HP	1114	630	307	11.12	463
J & K	Baglihar HPS (IPP)	450	290	380	7.86	328
	Other Hydro/IPP	436	132	150	3.70	154
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	422	530	11.56	482
Total State Control Area Generation		37702	14545	14808	337.21	13963
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4984	2829	83.83	3493
Total Regional Availability(Gross)		61923	34703	27673	707.69	29400

rsd 600.00
shanan 110.00
ubdc 93.00
mukera 205.00
anandpur sahib 135.00

10 magpie
7.5 pnr
15 cpp

864.00
506.00

IV. Total Hydro Generation:

Regional Entities Hydro	11233	5812	2502	93.74	3906
State Control Area Hydro	5589	1960	1294	39.98	1578
Total Regional Hydro	16823	7772	3796	133.73	5484

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	400	400	400	0	8.99	0.00	8.99
Gwalior-Agra (D/C)	1544	971	1760	0	30.08	0.00	30.08
Zerda-Kankroli	-76	-458	0	458	0.00	6.67	-6.67
Zerda-Bhinmal	-42	-365	0	414	0.00	4.82	-4.82
Malanpur-Auraiya	-25	-13	0	80	0.00	0.72	-0.72
Badod-Kota/Morak	15	-330	15	388	0.00	4.37	-4.37
Mundra-Mohindergarh(HVDC)	2000	1800	2006	0	46.50	0.00	46.50
Sub Total WR	3816	2005			85.57	16.58	68.99
Pusaui Bypass	100	100	100	0	2.44	0.00	2.44
MZP- GKP (D/C)	180	64	180	34	1.19	0.00	1.19
Patna-Balia(D/C)	540	373	540	0	8.39	0.00	8.39
B Sharif-Balia (D/C)	171	82	171	0	1.51	0.00	1.51
Pusaui-Balia	-118	95	105	135	0.00	2.61	-2.61
Gaya-Fatehpur (765 Kv)	0	-32	67	88	0.00	0.63	-0.63
Pusaui-Sahupuri	169	171	194	0	4.05	0.00	4.05
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)	154	1	179	46	1.14	0.00	1.14
Sub Total ER	1168	824			18.72	3.88	14.84
Total IR Exch	4984	2829			104.29	20.46	83.83

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
31.79	0.16	31.95	3.61	0.56	-12.86	0.04	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
22.69	64.98	87.67	14.84	68.99	83.83	-7.85	4.01	-3.85

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	1.09	10.87	42.41	56.10	19.97	13.17	1.18	NA

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	Index			
50.25	18.34	49.71	14.30	50.01	0.08	0.09	50.26	49.89

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	407	02:31	400	19:25	0.0	0.0	0.0	0.0
Gorakhpur	400	435	05:04	414	19:36	0.0	0.0	75.0	18.6
Bareilly	400	423	02:54	403	19:37	0.0	0.0	13.5	0.0
Kanpur	400	422	04:04	399	19:27	0.0	0.0	5.5	0.0
Dadri	400	423	01:45	404	19:22	0.0	0.0	17.0	0.0
Ballabgarh	400	432	03:56	407	19:36	0.0	0.0	52.7	5.0
Bawana	400	429	01:49	407	19:18	0.0	0.0	39.3	0.0
Bassi	400	435	04:03	408	19:38	0.0	0.0	50.1	12.9
Hissar	400	421	03:55	396	19:18	0.0	0.0	0.1	0.0
Moga	400	422	01:45	396	19:19	0.0	0.0	10.5	0.0
Abdullapur	400	427	01:09	407	19:18	0.0	0.0	58.9	0.0
Nalagarh	400	425	03:03	406	19:35	0.0	0.0	23.2	0.0
Kishenpur	400	425	02:53	397	19:16	0.0	0.0	19.1	0.0
Wagoora	400	413	03:02	380	19:47	0.0	16.7	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	781	02:52	734	19:37	0.0	4.4	0.0	0.0
Balia	765	774	05:04	738	20:03	0.0	3.9	0.0	0.0
Moga	765	803	01:50	754	19:38	0.0	0.0	4.3	0.0
Agra	765	806	04:04	761	19:38	0.0	0.0	16.1	0.0
Bhiwani	765	810	01:49	767	19:39	0.0	0.0	14.4	0.0
Unnao	765	762	04:00	725	19:39	2.3	24.4	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	482.04	503.43	478.33	420.92	493.48	284.98
Pong	426.72	384.05	402.12	266.33	400.15	223.85	89.42	30.64
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 19.04.2014 :
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 : 19.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER