

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.04.2014
Date of Reporting : 18.04.2014

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
33709	2073	35782	50.00	30543	905	31448	49.98	738.1	29.94

* 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	35.92	4.88		40.81	50.93	50.57	-0.36	91.38	0.00
Haryana	33.10	0.35		33.45	63.77	62.96	-0.81	96.41	1.00
Rajasthan	110.57	1.57	6.46	118.59	35.17	31.18	-3.99	149.78	0.00
Delhi	15.15			15.15	57.90	57.58	-0.32	72.73	0.15
UP	121.29	4.46	10.80	136.55	105.98	104.93	-1.05	241.47	26.59
Uttarakhand		5.25		5.25	20.10	20.56	0.47	25.81	0.49
HP		11.34		11.34	12.47	13.65	1.18	24.99	0.02
J & K		12.81	0.00	12.81	20.29	19.14	-1.15	31.95	1.70
Chandigarh				0.00	3.33	3.62	0.29	3.62	0.00
Total	316.02	40.68	17.26	373.96	369.92	364.18	-5.74	738.14	29.94

* 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	4511	0	-18	-186	4194	0	49	-166	-3.08
Haryana	5216	218	81	305	4019	0	-36	-80	-2.46
Rajasthan	6442	0	-127	-236	5955	0	-148	54	-0.03
Delhi	3454	0	-77	-150	2419	0	-42	-510	-6.69
UP	9817	1680	192	727	10581	905	-54	1150	19.55
Uttarakhand	1432	75	55	322	1192	0	91	355	8.89
HP	1174	0	42	-347	844	0	73	-40	-3.63
J&K	1477	100	-46	-229	1230	0	15	-225	-5.44
Chandigarh	186	0	-4	0	108	0	-13	0	0.00
Total	33709	2073	99	205	30543	905	-63	538	7.10

* 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	1515	1570	1653	35.75	1490	35.64	0.11
Rihand I STPS	1000	825	790	896	18.83	784	18.63	0.19
Rihand II STPS	1000	875	957	977	19.91	829	19.59	0.32
Rihand III STPS	1000	750	774	825	17.00	708	17.20	-0.20
Dadri I STPS	840	813	722	636	15.41	642	16.03	-0.62
Dadri II STPS	980	473	386	494	9.42	392	9.82	-0.41
Unchahar I TPS	420	400	333	395	8.01	334	8.45	-0.44
Unchahar II TPS	420	387	228	399	7.44	310	7.98	-0.54
Unchahar III TPS	210	204	175	204	3.94	164	4.05	-0.11
ISTPP (Jhajjar)	1500	1000	427	323	8.30	346	8.51	-0.21
Dadri GPS	830	807	180	184	4.19	175	4.32	-0.13
Anta GPS	419	388	237	251	5.46	228	5.43	0.04
Auraiya GPS	663	649	153	155	3.55	148	3.63	-0.08
Dadri Solar	5		0	0	0.02	1		0.02
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9086	6932	7392	157	6550	159	-2
B. NPC								
NAPS	440	290	331	331	6.94	289	6.00	0.94
RAPS- B	440	408	453	456	9.79	408	9.79	0.00
RAPS- C	440	420	450	459	9.79	408	10.08	-0.29
Sub Total (B)	1320	1118	1234	1246	26.52	1105	25.87	0.65
C. NHPC								
Chamera I HPS	540	540	540	0	7.12	297	7.10	0.02
Chamera II HPS	300	300	301	0	3.15	131	3.15	0.00
Chamera III HPS	231	231	192	193	1.79	75	1.80	-0.01
Bairasui HPS	180	122	122	122	2.97	124	2.93	0.04
Salal-HPS	690	364	409	380	9.04	376	8.67	0.37
Tanakpur-HPS	94	23	20	21	0.50	21	0.54	-0.05
Uri-HPS	480	475	475	475	11.60	483	11.40	0.20
Uri-II HPS	240	180	191	187	4.47	186	4.32	0.15
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	404	0	4.35	181	4.30	0.05
Sewa-II HPS	120	122	125	131	3.05	127	2.93	0.12
Parbati 3	390	129	0	0	0.97	40	0.90	0.07
Sub Total ©	3935	2871	2779	1509	49	2042	48	1
D. SJVNL								
NJPC	1500	1605	718	0	9.35	390	9.24	0.11
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	718	0	9.35	390	9.24	0.11
E. THDC								
Tehri HPS	1000	534	533	0	8.00	333	8.00	0.00
Koteswar HPS	400	146	303	100	3.54	147	3.50	0.04
Sub Total (E)	1400	680	836	100	11.54	481	11.50	0.04
F. BBMB								
Bhakra HPS	1514	314	302	305	7.30	304	7.54	-0.24
Dehar HPS	990	306	495	280	7.87	328	7.35	0.52
Pong HPS	396	13	182	0	0.32	13	0.32	0.01
Sub Total (F)	2900	633	979	585	15.49	645	15.20	0.29
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.50	21	0.56	-0.06
KWHEP HPS(IPP)	1000	0	421	150	7.53	314	4.44	3.10
Malana Stg-II HPS	100	0	0	0	0.32	13	0.31	0.01
Shree Cement TPS	300	0	270	252	6.51	271	6.59	-0.08
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.58	-0.58
Sub Total (G)	1662	0	691	402	14.87	619	12.48	2.39
H. Total Regional Entities (A-G)	24221	15994	14169	11234	283.97	11832	281.60	2.36

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	610	480	11.27	470
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	2.06	86
	Guru Hargobind Singh TPS(L.mbt)	920	421	428	8.15	340
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	641	668	14.45	602
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1762	1666	35.92	1497
	Total Hydro	1148	219	240	4.88	204
Total Punjab	5128	1981	1906	40.81	1700	
Haryana	Panipat TPS	1367	218	219	5.21	217
	DCRTPP (Yamuna nagar)	600	556	554	12.57	524
	Faridabad GPS (NTPC)	432	190	183	4.40	183
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	614	365	10.93	455
	Thermal (Total)	4944	1578	1321	33.10	1379
	Total Hydro	62	9	15	0.35	15
	Total Haryana	5006	1587	1336	33.45	1394
	Rajasthan	kota TPS	1240	1104	1146	26.22
suratgarh TPS		1500	1019	1097	24.40	1017
Chabra TPS		750	363	374	7.68	320
Dholpur GPS		330	135	134	3.28	137
Ramgarh GPS		221	91	76	2.11	88
RAPS A (NPC)		300	175	175	4.11	171
Barsingsar (NLC)		250	165	167	3.72	155
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	500	639	14.88	620
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	962	955	24.17	1007
Thermal (Total)		7976	4514	4763	110.57	4607
Total Hydro		550	66	49	1.57	65
Wind power		2191	385	169	5.36	223
Biomass		91	33	33	0.79	33
Solar		201	0	0	0.31	13
Renewable/Others (Total)	2483	418	202	6.46	269	
Total Rajasthan	11009	4998	5014	118.59	4941	
UP	Anpara TPS	1630	1420	1488	30.30	1263
	Obra TPS	1288	275	287	6.00	250
	Paricha TPS	1140	522	618	12.80	533
	Panki TPS	210	80	70	1.60	67
	Harduaganj TPS	665	366	411	8.50	354
	Tanda TPS (NTPC)	440	311	396	8.73	364
	Roza TPS (IPP)	1200	765	1080	23.02	959
	Anpara-C (IPP)	1200	756	1046	22.55	940
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	280	401	7.78	324
	Thermal (Total)	8223	4775	5797	121.29	5054
	Vishnuparyag HPS (IPP)	400	83	83	2.04	85
	Other Hydro	527	129	152	2.43	101
	Cogeneration	981	450	450	10.80	450
	Total UP	10131	5437	6482	136.55	5605
	Uttarakhand	Total Hydro	1303	477	280	5.25
Total Uttarakhand		1303	477	280	5.25	219
Delhi	Rajghat TPS	135	101	105	2.49	104
	Delhi Gas Turbine	282	120	120	2.76	115
	Pragati Gas Turbine	330	96	99	2.33	97
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	304	295	7.57	315
	Thermal (Total)	2917	621	619	15.15	631
	Total Delhi	2917	621	619	15.15	631
HP	Baspa HPS (IPP)	300	93	0	1.32	55
	Malana HPS (IPP)	86	78	0	0.43	18
	Other Hydro	728	422	387	9.60	400
	Total HP	1114	593	387	11.34	473
J & K	Baglihar HPS (IPP)	450	381	380	9.11	380
	Other Hydro/IPP	436	132	150	3.70	154
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	513	530	12.81	534
Total State Control Area Generation		37702	16207	16554	373.96	15497
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4869	4579	100.68	4195
Total Regional Availability(Gross)		61923	35245	32367	758.61	31524

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	5733	2344	93.73	3905
State Control Area Hydro	5589	2006	1653	40.68	1610
Total Regional Hydro	16823	7739	3997	134.40	5515

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	50	7.91	0.15	7.76
Gwalior-Agra (D/C)	1712	1879	1942	0	40.45	0.00	40.45
Zerda-Kankroli	-200	-238	0	375	0.00	6.51	-6.51
Zerda-Bhinmal	-133	-158	0	306	0.00	4.53	-4.53
Malanpur-Auraiya	-21	-19	0	42	0.00	0.22	-0.22
Badod-Kota/Morak	-127	-142	0	258	0.00	3.06	-3.06
Mundra-Mohindergarh(HVDC)	1999	2002	2007	0	48.34	0.00	48.34
Sub Total WR	3730	3824			96.70	14.47	82.23
Pusaali Bypass	-327	-522	0	571	0.00	9.27	-9.27
MZP- GKP (D/C)	192	250	358	0	5.01	0.00	5.01
Patna-Balia(D/C)	644	389	644	0	10.72	0.00	10.72
B Sharif-Balia (D/C)	256	235	364	0	5.21	0.00	5.21
Pusaali-Balia	-22	30	125	80	0.59	0.00	0.59
Gaya-Fatehpur (765 Kv)	41	2	54	118	0.00	0.65	-0.65
Pusaali-Sahupuri	119	186	186	0	4.06	0.00	4.06
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)	264	215	274	22	3.42	0.00	3.42
Sub Total ER	1139	755			29.02	10.56	18.45
Total IR Exch	4869	4579			125.72	25.03	100.68

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
30.52	0.07	30.59	7.79	-0.33	-9.72	-0.88	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incids Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
28.65	73.38	102.03	18.45	82.23	100.68	-10.19	8.85	-1.35

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	0.09	4.02	21.78	56.83	55.10	13.84	10.36	0.29	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				
50.26	18.04	49.68	0.46	49.98	0.10	0.10	50.20	49.85

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	16:07	397	19:20	0.0	0.0	0.0	0.0
Gorakhpur	400	438	16:20	407	23:32	0.0	0.0	76.7	27.0
Bareilly	400	424	13:00	389	16:24	0.0	0.0	11.8	0.0
Kanpur	400	421	12:59	400	19:23	0.0	0.0	0.9	0.0
Dadri	400	424	13:01	400	19:24	0.0	0.0	3.1	0.0
Ballabgarh	400	431	13:00	407	19:20	0.0	0.0	73.3	0.4
Bawana	400	428	13:05	403	19:22	0.0	0.0	35.7	0.0
Bassi	400	432	12:59	414	19:19	0.0	0.0	85.1	1.0
Hissar	400	421	13:00	392	19:22	0.0	0.0	0.4	0.0
Moga	400	420	12:58	394	19:19	0.0	0.0	0.0	0.0
Abdullapur	400	427	03:00	403	19:22	0.0	0.0	45.9	0.0
Nalagarh	400	423	03:02	401	19:23	0.0	0.0	13.6	0.0
Kishenpur	400	420	03:45	397	19:22	0.0	0.0	0.0	0.0
Wagoora	400	409	03:56	384	19:13	0.0	6.5	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	779	13:00	736	19:13	0.0	8.3	0.0	0.0
Balia	765	787	16:35	739	22:35	0.0	4.5	0.0	0.0
Moga	765	800	13:00	752	19:20	0.0	0.0	0.0	0.0
Agra	765	805	13:00	761	19:22	0.0	0.0	1.2	0.0
Bhiwani	765	801	03:02	762	19:23	0.0	0.0	0.9	0.0
Unnao	765	781	16:22	733	22:20	0.0	16.4	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 17.04.2014 :

1.Heavy storm & moderated rain in part of Haryana,Rajasthan,NCR & Western UP during morning hrs.

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 April, 2014 .

Report for : 17.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER