

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.04.2014
Date of Reporting : 19.04.2014

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
31088	1697	32785	49.98	27665	350	28015	50.00	662.6	13.00

* 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	33.99	2.92		36.91	53.62	51.93	-1.69	88.84	0.00
Haryana	23.74	0.40		24.14	62.22	61.03	-1.19	85.17	0.43
Rajasthan	93.37	0.59	2.95	96.90	37.24	36.18	-1.06	133.08	0.00
Delhi	12.42			12.42	55.18	52.03	-3.14	64.45	0.02
UP	106.37	3.64	9.10	119.11	93.30	82.33	-10.97	201.44	10.60
Uttarakhand		8.66		8.66	20.72	20.78	0.07	29.44	0.23
HP		10.74		10.74	13.20	14.55	1.36	25.29	0.02
J & K		11.56	0.00	11.56	20.52	19.80	-0.72	31.36	1.70
Chandigarh				0.00	3.33	3.49	0.16	3.49	0.00
Total	269.89	38.50	12.05	320.44	359.31	342.13	-17.18	662.57	13.00

* 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	3823	0	-281	45	3756	0	-2	-67	-2.24
Haryana	4875	9	57	319	3552	0	-10	129	1.54
Rajasthan	6584	0	-247	-209	4390	0	-366	-322	-2.50
Delhi	3299	3	-115	-125	2359	0	-146	-676	-7.69
UP	8239	1510	279	645	10338	350	-10	1189	17.75
Uttarakhand	1434	75	-75	311	1124	0	-5	320	8.55
HP	1163	0	-1	-347	823	0	60	-40	-3.37
J&K	1489	100	-52	-229	1221	0	25	-220	-5.39
Chandigarh	182	0	-10	0	103	0	-11	0	0.00
Total	31088	1697	-446	409	27665	350	-465	312	6.64

* 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	1705	1800	1579	37.54	1564	36.65	0.89
Rihand I STPS	1000	830	759	845	18.32	764	17.85	0.47
Rihand II STPS	1000	882	801	903	19.16	798	18.65	0.51
Rihand III STPS	1000	749	695	735	16.02	667	15.62	0.39
Dadri I STPS	840	813	705	690	14.77	615	15.35	-0.58
Dadri II STPS	980	473	412	417	8.94	372	9.18	-0.24
Unchahar I TPS	420	408	358	402	7.69	320	8.06	-0.37
Unchahar II TPS	420	375	380	396	7.02	293	7.00	0.02
Unchahar III TPS	210	204	181	184	3.65	152	3.81	-0.16
ISTPP (Jhajjhar)	1500	1000	515	320	8.18	341	8.24	-0.06
Dadri GPS	830	612	171	177	4.23	176	4.30	-0.08
Anta GPS	419	391	266	260	5.80	242	5.75	0.06
Auraiya GPS	663	649	157	157	3.61	151	3.65	-0.04
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9090	7200	7065	155	6456	154	1
B. NPC								
NAPS	440	290	333	332	7.03	293	6.00	1.03
RAPS- B	440	408	232	231	5.16	215	9.79	-4.63
RAPS- C	440	420	233	228	4.90	204	10.08	-5.18
Sub Total (B)	1320	1118	798	791	17.09	712	25.87	-8.78
C. NHPC								
Chamera I HPS	540	540	540	0	6.93	289	7.00	-0.07
Chamera II HPS	300	300	301	0	3.23	135	3.30	-0.07
Chamera III HPS	231	231	223	0	1.78	74	1.80	-0.02
Bairasui HPS	180	122	122	122	2.96	123	2.93	0.03
Salal-HPS	690	392	454	349	9.80	408	9.43	0.37
Tanakpur-HPS	94	20	24	19	0.51	21	0.49	0.03
Uri-HPS	480	475	478	476	11.60	483	11.40	0.20
Uri-II HPS	240	180	190	188	4.47	186	4.32	0.15
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	405	0	4.38	183	4.30	0.08
Sewa-II HPS	120	122	129	125	3.03	126	2.93	0.11
Parbati 3	390	129	0	0	0.80	33	0.77	0.03
Sub Total ©	3935	2898	2866	1279	50	2063	49	1
D. SJVNL								
NJPC	1500	1605	734	0	9.74	406	9.53	0.20
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	734	0	9.74	406	9.53	0.20
E. THDC								
Tehri HPS	1000	525	530	0	7.97	332	8.00	-0.03
Koteshwar HPS	400	146	295	91	3.64	152	3.60	0.04
Sub Total (E)	1400	671	825	91	11.61	484	11.60	0.01
F. BBMB								
Bhakra HPS	1514	308	303	303	7.26	303	7.39	-0.13
Dehar HPS	990	286	495	290	7.25	302	6.86	0.39
Pong HPS	396	13	184	0	0.40	17	0.32	0.09
Sub Total (F)	2900	607	982	593	14.91	621	14.57	0.34
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	0	0	0.53	22	0.52	0.01
KWHEP HPS(IPP)	1000	0	590	150	5.03	210	5.04	0.00
Malana Stg-II HPS	100	0	0	0	0.27	11	0.27	0.00
Shree Cement TPS	300	0	274	259	6.45	269	6.40	0.05
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.58	-0.58
Sub Total (G)	1662	0	864	409	12.28	512	12.80	-0.52
H. Total Regional Entities (A-G)	24221	15988	14269	10228	270.06	11253	277.15	-7.09

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	10.81	450
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.94	81
	Guru Hargobind Singh TPS(L.mbt)	920	301	308	6.97	291
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	629	633	14.27	595
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1500	1511	33.99	1416
	Total Hydro	1148	80	105	2.92	121
Total Punjab	5128	1580	1616	36.91	1538	
Haryana	Panipat TPS	1367	217	211	5.12	213
	DCRTPP (Yamuna nagar)	600	561	514	12.32	513
	Faridabad GPS (NTPC)	432	197	194	4.57	190
	RGTPP (khedar) (IPP)	1200	0	0	0.49	21
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	369	1.24	52
	Thermal (Total)	4944	975	1288	23.74	989
	Total Hydro	62	18	13	0.40	17
	Total Haryana	5006	993	1301	24.14	1006
	Rajasthan	kota TPS	1240	1156	1060	22.14
suratgarh TPS		1500	1038	994	21.59	900
Chabra TPS		750	403	167	6.21	259
Dholpur GPS		330	134	131	3.35	139
Ramgarh GPS		221	62	31	1.11	46
RAPS A (NPC)		300	175	175	4.12	172
Barsingsar (NLC)		250	83	164	2.49	104
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	342	225	5.91	246
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1199	963	26.45	1102
Thermal (Total)		7976	4592	3910	93.37	3890
Total Hydro		550	43	22	0.59	24
Wind power		2191	62	149	2.00	83
Biomass		91	27	27	0.64	27
Solar		201	0	0	0.31	13
Renewable/Others (Total)	2483	89	176	2.95	123	
Total Rajasthan	11009	4724	4108	96.90	4038	
UP	Anpara TPS	1630	1175	1509	28.80	1200
	Obra TPS	1288	242	268	5.50	229
	Paricha TPS	1140	359	417	8.20	342
	Panki TPS	210	65	80	1.60	67
	Harduaganj TPS	665	392	387	8.20	342
	Tanda TPS (NTPC)	440	274	386	7.84	327
	Roza TPS (IPP)	1200	756	1121	20.65	860
	Anpara-C (IPP)	1200	702	990	18.86	786
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	280	373	6.72	280
	Thermal (Total)	8223	4245	5531	106.37	4432
	Vishnuparyag HPS (IPP)	400	83	78	1.95	81
	Other Hydro	527	48	152	1.70	71
	Cogeneration	981	380	380	9.10	379
	Total UP	10131	4756	6141	119.11	4882
Uttarakhand	Total Hydro	1303	428	340	8.66	361
	Total Uttarakhand	1303	428	340	8.66	361
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	110	118	2.73	114
	Pragati Gas Turbine	330	100	98	2.40	100
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	295	303	7.29	304
	Thermal (Total)	2917	505	519	12.42	518
Total Delhi	2917	505	519	12.42	518	
HP	Baspa HPS (IPP)	300	121	0	1.14	48
	Malana HPS (IPP)	86	78	0	0.37	15
	Other Hydro	728	443	373	9.23	384
	Total HP	1114	642	373	10.74	447
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	14050	14928	320.44	13270
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4302	3967	86.82	3617
Total Regional Availability(Gross)		61923	32621	29123	677.32	28141

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	5997	2113	91.59	3816
State Control Area Hydro	5589	1681	1535	38.50	1523
Total Regional Hydro	16823	7678	3648	130.09	5339

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	50	7.49	0.15	7.33
Gwalior-Agra (D/C)	1684	1576	1734	0	33.39	0.00	33.39
Zerda-Kankroli	-216	-262	0	426	0.00	5.91	-5.91
Zerda-Bhinmal	-118	-237	39	322	0.00	2.95	-2.95
Malanpur-Auraiya	-25	-13	0	80	0.00	0.72	-0.72
Badod-Kota/Morak	-120	-320	0	372	0.00	3.11	-3.11
Mundra-Mohindergarh(HVDC)	2002	1999	2005	0	46.15	0.00	46.15
Sub Total WR	3707	3143			87.03	12.84	74.19
Pusaui Bypass	4	11	33	468	0.21	3.81	-3.60
MZP- GKP (D/C)	30	130	208	143	2.29	0.00	2.29
Patna-Balia(D/C)	350	407	615	0	7.46	0.00	7.46
B Sharif-Balia (D/C)	207	227	260	0	3.81	0.00	3.81
Pusaui-Balia	-52	-31	0	127	0.00	0.56	-0.56
Gaya-Fatehpur (765 Kv)	-57	-70	56	192	0.00	1.37	-1.37
Pusaui-Sahupuri	88	169	199	0	3.81	0.00	3.81
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)	53	11	256	151	1.43	0.00	1.43
Sub Total ER	595	824			19.01	6.37	12.63
Total IR Exch	4302	3967			106.03	19.21	86.82

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
32.83	0.07	32.90	3.70	0.56	-8.31	0.03	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
28.29	67.19	95.48	12.63	74.19	86.82	-15.65	7.00	-8.66

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	0.13	3.68	20.34	59.88	56.45	10.87	12.35	1.50	NA

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.33	6.02	49.67	19.15	49.98	0.10	0.10	50.29	49.86

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	410	08:03	398	00:00	0.3	0.3	0.0	0.0
Gorakhpur	400	437	17:09	407	00:05	0.0	0.0	66.7	20.9
Bareilly	400	426	07:05	409	19:18	0.0	0.0	22.9	0.0
Kanpur	400	423	05:20	407	00:06	0.0	0.0	4.9	0.0
Dadri	400	430	05:31	406	19:12	0.0	0.0	24.8	0.0
Ballabgarh	400	439	05:21	411	19:14	0.0	0.0	73.9	19.1
Bawana	400	431	04:33	409	19:12	0.0	0.0	50.9	0.1
Bassi	400	435	04:56	411	19:14	0.0	0.0	52.6	13.6
Hissar	400	423	04:17	399	19:11	0.0	0.0	6.2	0.0
Moga	400	423	04:17	400	19:09	0.0	0.0	6.4	0.0
Abdullapur	400	431	04:33	408	19:11	0.0	0.0	63.6	1.1
Nalagarh	400	427	03:52	404	19:12	0.0	0.0	31.4	0.0
Kishenpur	400	424	04:12	399	19:13	0.0	0.0	8.2	0.0
Wagoora	400	412	03:53	382	19:36	0.0	7.9	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	782	05:21	745	19:15	0.0	0.0	0.0	0.0
Balia	765	781	17:10	740	19:18	0.0	0.9	0.0	0.0
Moga	765	804	04:17	760	19:14	0.0	0.0	3.3	0.0
Agra	765	814	05:22	772	19:14	0.0	0.0	13.0	0.0
Bhiwani	765	816	04:48	773	19:14	0.0	0.0	33.5	0.0
Unnao	765	766	17:22	739	00:06	0.0	1.5	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 18.04.2014 :
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 : 18.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER