

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.04.2014
Date of Reporting : 21.04.2014

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
31541	2053	33594	50.01	28973	0	28973	50.10	698.7	21.41

* 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	30.05	5.41		35.46	48.42	48.00	-0.42	83.47	0.00
Haryana	34.46	0.42		34.88	59.16	56.33	-2.84	91.20	0.00
Rajasthan	92.58	0.00	4.41	96.98	44.79	43.71	-1.08	140.69	0.29
Delhi	15.01			15.01	50.57	48.74	-1.83	63.75	0.00
UP	121.01	3.89	9.10	134.00	101.69	98.91	-2.79	232.90	19.39
Uttarakhand		9.72		9.72	20.40	20.46	0.06	30.17	0.00
HP		11.85		11.85	10.31	10.63	0.32	22.47	0.03
J & K		11.56	0.00	11.56	21.73	19.31	-2.42	30.87	1.70
Chandigarh				0.00	3.33	3.18	-0.15	3.18	0.00
Total	293.10	42.84	13.51	349.45	360.41	349.26	-11.15	698.71	21.41

* 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	4327	0	49	-216	3644	0	-18	-166	-3.80
Haryana	4694	0	38	245	3904	0	80	286	3.67
Rajasthan	5493	28	-124	84	5657	0	44	141	3.21
Delhi	2842	0	-273	-278	2325	0	42	-609	-9.42
UP	10076	1925	235	564	10132	0	-38	765	15.17
Uttarakhand	1568	0	109	366	1135	0	39	312	8.39
HP	960	0	-100	-325	830	0	73	-33	-3.24
J&K	1416	100	-134	-220	1244	0	-51	-225	-5.37
Chandigarh	165	0	-14	0	102	0	6	0	0.00
Total	31541	2053	-213	220	28973	0	177	471	8.61

* 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 Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW		(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS	2000	1728	1791	1860	39.53	1647	39.44	0.09
Rihand I STPS	1000	900	834	790	18.25	760	18.23	0.02
Rihand II STPS	1000	840	912	742	17.81	742	17.95	-0.15
Rihand III STPS	1000	805	677	652	16.43	685	16.37	0.07
Dadri I STPS	840	800	718	641	13.78	574	14.47	-0.69
Dadri II STPS	980	470	367	347	7.89	329	8.59	-0.70
Unchahar I TPS	420	408	309	376	7.39	308	7.72	-0.32
Unchahar II TPS	420	408	305	332	6.90	288	7.14	-0.24
Unchahar III TPS	210	204	154	154	3.37	140	3.53	-0.17
ISTPP (Jhajihar)	1500	1000	501	323	8.20	342	8.39	-0.19
Dadri GPS	830	806	181	191	4.25	177	4.38	-0.14
Anta GPS	419	392	227	224	5.57	232	5.65	-0.08
Auraiya GPS	663	649	151	160	3.56	148	3.61	-0.05
Dadri Solar	5		0	0	0.00	0		0.00
Unchahar Solar	10		0	0	0.00	0		0.00
Sub Total (A)	11297	9410	7127	6792	153	6372	155	-3
B. NPC								
NAPS	440	293	331	331	7.01	292	6.00	1.01
RAPS- B	440	408	402	400	9.16	382	9.79	-0.63
RAPS- C	440	420	462	406	9.98	416	10.08	-0.10
Sub Total (B)	1320	1121	1195	1137	26.15	1090	25.87	0.28
C. NHPC								
Chamera I HPS	540	540	540	0	7.43	310	7.50	-0.07
Chamera II HPS	300	300	302	94	3.92	163	4.03	-0.11
Chamera III HPS	231	231	224	0	2.14	89	2.15	-0.01
Bairasui HPS	180	122	122	122	2.46	102	2.93	-0.47
Salal-HPS	690	504	455	526	12.24	510	12.11	0.13
Tanakpur-HPS	94	24	28	23	0.57	24	0.58	-0.01
Uri-HPS	480	475	476	475	11.52	480	11.40	0.12
Uri-II HPS	240	180	183	186	4.41	184	4.32	0.09
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	409	0	4.91	205	4.80	0.11
Sewa-II HPS	120	122	130	129	3.06	128	2.93	0.13
Parbati 3	390	167	0	0	0.94	39	0.90	0.04
Sub Total ©	3935	3052	2869	1555	54	2233	54	0
D. SJVNL								
NJPC	1500	1605	803	164	9.11	380	9.00	0.11
Rampur HEP	206		0	0	0.00	0		0.00
Sub Total (D)	1706	1605	803	164	9.11	380	9.00	0.11
E. THDC								
Tehri HPS	1000	525	524	0	7.75	323	7.93	-0.18
Koteshwar HPS	400	150	394	90	3.62	151	3.60	0.02
Sub Total (E)	1400	675	918	90	11.37	474	11.53	-0.16
F. BBMB								
Bhakra HPS	1514	302	303	303	7.27	303	7.25	0.02
Dehar HPS	990	391	495	330	10.39	433	9.38	1.01
Pong HPS	396	38	180	0	1.03	43	0.90	0.13
Sub Total (F)	2900	730	978	633	18.69	779	17.53	1.16
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	90	0	0.46	19	0.44	0.01
KWHEP HPS(IPP)	1000	0	425	150	4.49	187	4.56	-0.07
Malana Stg-II HPS	100	0	0	0	0.29	12	0.27	0.02
Shree Cement TPS	300	0	262	265	6.35	265	6.37	-0.02
Budhil HPS(IPP)	70	0	0	0	0.00	0	0.77	-0.77
Sub Total (G)	1662	0	777	415	11.58	483	12.40	-0.82
H. Total Regional Entities (A-G)	24221	16594	14667	10786	283.42	11809	285.45	-2.03

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	10.53	439
	Guru Nanak Dev TPS(Bhatinda)	440	120	90	2.01	84
	Guru Hargobind Singh TPS(L.mbt)	920	420	313	7.04	294
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	659	635	10.47	436
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1829	1488	30.05	1252
	Total Hydro	1148	251	289	5.41	225
Total Punjab	5128	2080	1777	35.46	1478	
Haryana	Panipat TPS	1367	218	211	5.17	215
	DCRTPP (Yamuna nagar)	600	542	511	12.30	512
	Faridabad GPS (NTPC)	432	189	180	4.58	191
	RGTPP (khedar) (IPP)	1200	562	501	12.41	517
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1511	1403	34.46	1436
	Total Hydro	62	18	15	0.42	18
	Total Haryana	5006	1529	1418	34.88	1453
	Rajasthan	kota TPS	1240	1065	1101	25.26
suratgarh TPS		1500	1015	822	22.24	927
Chabra TPS		750	348	372	9.25	385
Dholpur GPS		330	127	136	3.26	136
Ramgarh GPS		221	54	31	1.74	72
RAPS A (NPC)		300	175	178	4.12	172
Barsingsar (NLC)		250	83	83	1.79	75
Giral LTPS		250	26	26	0.88	37
Rajwest LTPS (IPP)		1080	557	513	14.84	618
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	0	607	9.20	383
Thermal (Total)		7976	3450	3869	92.58	3857
Total Hydro		550	0	0	0.00	0
Wind power		2191	90	190	3.28	137
Biomass		91	33	33	0.80	33
Solar		201	0	0	0.32	13
Renewable/Others (Total)	2483	123	223	4.41	184	
Total Rajasthan	11009	3573	4092	96.98	4041	
UP	Anpara TPS	1630	1401	1398	32.70	1363
	Obra TPS	1288	373	394	9.30	388
	Paricha TPS	1140	528	578	12.90	538
	Panki TPS	210	54	72	1.40	58
	Harduaganj TPS	665	347	372	8.40	350
	Tanda TPS (NTPC)	440	237	386	7.64	318
	Roza TPS (IPP)	1200	761	936	20.32	847
	Anpara-C (IPP)	1200	753	1061	21.88	912
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	280	280	6.47	270
	Thermal (Total)	8223	4734	5477	121.01	5042
	Vishnuparyag HPS (IPP)	400	88	83	2.03	85
	Other Hydro	527	107	85	1.86	77
	Cogeneration	981	380	380	9.10	379
	Total UP	10131	5309	6025	134.00	5499
Uttarakhand	Total Hydro	1303	485	346	9.72	405
	Total Uttarakhand	1303	485	346	9.72	405
Delhi	Rajghat TPS	135	107	108	2.49	104
	Delhi Gas Turbine	282	118	120	2.77	115
	Pragati Gas Turbine	330	96	101	2.35	98
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	350	355	7.39	308
	Thermal (Total)	2917	671	684	15.01	625
Total Delhi	2917	671	684	15.01	625	
HP	Baspa HPS (IPP)	300	147	0	1.14	47
	Malana HPS (IPP)	86	57	0	0.39	16
	Other Hydro	728	487	428	10.32	430
	Total HP	1114	691	428	11.85	494
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	14760	15300	349.45	14476
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4030	3784	80.22	3342
Total Regional Availability(Gross)		61923	33457	29870	713.09	29627

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	6083	2592	97.99	4083
State Control Area Hydro	5589	1974	1693	42.84	1700
Total Regional Hydro	16823	8057	4285	140.84	5783

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	200	400	400	0	6.67	0.00	6.67
Gwalior-Agra (D/C)	1508	1377	1726	0	31.06	0.00	31.06
Zerda-Kankroli	-130	-309	0	332	0.00	6.43	-6.43
Zerda-Bhinmal	-121	-214	0	294	0.00	4.46	-4.46
Malanpur-Auraiya	-41	-40	0	70	0.00	0.90	-0.90
Badod-Kota/Morak	-114	-234	0	254	0.00	3.90	-3.90
Mundra-Mohindergarh(HVDC)	1998	2002	2005	0	45.54	0.00	45.54
Sub Total WR	3300	2982			83.27	15.70	67.57
Pusauli Bypass	100	100	100	0	2.44	0.00	2.44
MZP- GKP (D/C)	140	126	146	0	1.47	0.00	1.47
Patna-Balia(D/C)	312	474	529	0	8.90	0.00	8.90
B Sharif-Balia (D/C)	171	82	171	0	1.51	0.00	1.51
Pusauli-Balia	-98	-115	0	130	0.00	2.75	-2.75
Gaya-Fatehpur (765 Kv)	-92	-60	21	156	0.00	1.64	-1.64
Pusauli-Sahupuri	190	177	193	0	4.21	0.00	4.21
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)	35	48	139	66	0.00	0.86	-0.86
Sub Total ER	730	802			18.53	5.89	12.64
Total IR Exch	4030	3784			101.80	21.59	80.22

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
29.93	0.16	30.10	3.59	3.37	-8.81	-0.05	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
24.87	62.76	87.63	12.64	67.57	80.22	-12.23	4.82	-7.41

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	0.09	7.38	41.36	58.18	14.47	20.06	8.08	0.01

<----- 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				
50.56	18.02	49.77	19.12	50.03	0.13	0.11	50.41	49.94

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	16:07	402	00:00	0.1	0.1	0.0	0.0
Gorakhpur	400	434	15:04	409	19:09	0.0	0.0	65.6	21.6
Bareilly	400	424	18:00	408	19:12	0.0	0.0	3.3	0.0
Kanpur	400	421	18:00	405	20:09	0.0	0.0	0.2	0.0
Dadri	400	424	17:05	410	19:07	0.0	0.0	25.0	0.0
Ballabgarh	400	433	18:00	416	19:07	0.0	0.0	82.2	2.8
Bawana	400	427	02:59	413	19:05	0.0	0.0	67.8	0.0
Bassi	400	431	18:00	413	09:12	0.0	0.0	56.0	0.1
Hissar	400	420	12:59	402	05:53	0.0	0.0	0.0	0.0
Moga	400	420	03:01	402	19:39	0.0	0.0	0.0	0.0
Abdullapur	400	429	12:58	408	19:05	0.0	0.0	69.5	0.0
Nalagarh	400	426	00:31	410	19:03	0.0	0.0	44.9	0.0
Kishenpur	400	420	02:58	400	19:37	0.0	0.0	0.0	0.0
Wagoora	400	409	13:00	381	20:39	0.0	20.8	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	778	16:04	743	20:09	0.0	0.0	0.0	0.0
Balia	765	777	16:03	739	19:07	0.0	5.4	0.0	0.0
Moga	765	801	13:01	767	19:05	0.0	0.0	0.0	0.0
Agra	765	810	18:00	775	19:39	0.0	0.0	4.8	0.0
Bhiwani	765	810	17:22	781	19:15	0.0	0.0	41.2	0.0
Unnao	765	770	17:59	742	23:22	0.0	0.0	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 20.04.2014 :
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 : 20.04.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER