

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.04.2012
Date of Reporting : 18.04.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
31666	2678	34344	49.82	22593	650	23243	50.01	637.7	33.82

* 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:

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	48.82	7.23		56.05	39.54	35.71	-3.82	91.77	1.80
Haryana	52.02	0.70		52.72	28.54	24.49	-4.04	77.22	3.00
Rajasthan	73.69	0.00	6.99	80.68	32.39	44.92	12.53	125.60	1.01
Delhi	24.91			24.91	52.20	44.54	-7.66	69.44	0.01
UP	94.89	7.45	9.60	111.95	77.18	79.18	2.00	191.12	24.41
Uttarakhand		8.94		8.94	12.24	17.85	5.61	26.79	2.28
HP		9.40		9.40	11.32	12.90	1.59	22.30	0.11
J & K		12.20	0.00	12.20	15.54	17.57	2.04	29.77	1.20
Chandigarh				0.00	4.24	3.66	-0.58	3.66	0.00
Total	294.33	45.93	16.59	356.85	273.16	280.82	7.65	637.67	33.82

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

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	
Punjab	4555	450	-162	-141	3387	0	-237	-94	-2.95
Haryana	4328	564	244	50	2253	0	-988	50	1.21
Rajasthan	5724	116	698	-366	4542	0	-168	-366	-8.78
Delhi	3325	0	-460	495	2174	0	-210	252	9.60
UP	10021	1098	1135	465	7257	650	-332	265	7.36
Uttarakhand	1069	300	-185	47	1063	0	419	47	1.14
HP	1006	0	-25	-355	762	0	60	59	-3.63
J&K	1447	150	24	-314	1052	0	22	-314	-7.53
Chandigarh	191	0	-43	27	103	0	-7	0	0.61
Total	31666	2678	1226	-91	22593	650	-1441	-100	-2.98

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	1457	1599	1588	35.63	1484	34.21	1.42
	Rihand I STPS	1000	905	982	940	21.74	906	20.37	1.37
	Rihand II STPS	1000	962	1045	976	22.91	954	21.83	1.07
	Dadri I STPS	840	803	871	648	17.53	731	17.04	0.49
	Dadri II STPS	980	470	479	369	10.45	435	10.35	0.10
	Unchahar I TPS	440	400	437	386	9.13	381	8.75	0.38
	Unchahar II TPS	440	200	220	187	4.45	186	4.04	0.42
	Unchahar III TPS	210	199	217	157	4.54	189	4.15	0.39
	ISTPP (Jhajjar)	1000	452	399	500	10.14	423	10.50	-0.36
	Dadri GPS	830	813	662	603	13.95	581	13.33	0.62
	Anta GPS	419	390	252	263	6.02	251	5.70	0.31
	Auraiya GPS	663	620	307	322	7.32	305	6.97	0.35
	Sub Total (A)	9822	7670	7470	6939	163.81	6826	157.25	6.56
	B. NPC	NAPS	440	271	309	310	6.49	270	6.52
RAPS- B		440	385	420	429	9.15	381	9.24	-0.09
RAPS- C		440	416	468	470	10.04	418	9.98	0.05
Sub Total (B)		1320	1072	1197	1209	25.67	1070	25.74	-0.07
C. NHPC	Chamera I HPS	540	534	540	0	7.24	302	7.00	0.24
	Chamera II HPS	300	297	294	0	3.42	143	3.35	0.07
	Bairasuil HPS	180	182	180	120	2.92	122	2.87	0.05
	Salal-HPS	690	341	495	335	8.32	347	8.19	0.12
	Tanakpur-HPS	94	27	39	31	0.75	31	0.68	0.06
	Uri-HPS	480	476	480	480	11.60	483	11.41	0.19
	Dhauliganga-HPS	280	277	278	0	1.20	50	1.17	0.04
	Dulhasti-HPS	390	388	403	82	5.18	216	4.92	0.26
	Sewa-II HPS	120	114	85	76	2.75	115	2.68	0.07
	Sub Total (C)	3074	2636	2794	1124	43.37	1807	42.27	1.10
D. NJPC	Nathpa Jhakri	1500	1600	1608	0	9.09	379	8.53	0.56
	Sub Total (D)	1500	1600	1608	0	9.09	379	8.53	0.56
E. THDC	Tehri HPS	1000	495	505	0	6.11	255	6.00	0.11
	Koteshwar HPS	300	300	301	0	3.07	128	2.90	0.17
	Sub Total (E)	1300	795	806	0	9.19	383	8.90	0.29
F. BBMB	Bhakra HPS	1480	387	586	346	9.60	400	9.30	0.30
	Dehar HPS	990	268	615	140	6.21	259	6.43	-0.22
	Pong HPS	396	6	120	0	0.18	8	0.15	0.03
	Sub Total (F)	2866	661	1321	486	15.99	666	15.87	0.12
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	109	0	0.76	32	1.23	-0.47
	KWHEP HPS(IPP)	1000	0	360	150	4.65	194	4.57	0.08
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	150	146	3.48	145	4.84	-1.36
	Sub Total (G)	1592	0	619	296	8.89	371	10.64	-1.75
H. Total Regional Entities (A-G)	21475	14435	15815	10054	276.02	11501	269.20	6.81	

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	1245	1100	26.40	1100
	Guru Nanak Dev TPS(Bhatinda)	440	105	0	1.49	62
	Guru Hargobind Singh TPS(L.mbt)	920	949	862	20.94	872
	Thermal (Total)	2620	2299	1962	48.82	2034
	Total Hydro	1148	402	71	7.23	301
	Total Punjab	3768	2701	2033	56.05	2336
Haryana	Panipat TPS	1360	1062	1057	24.93	1039
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	384	283	7.64	318
	RGTPP (kheldar) (IPP)	1200	875	872	19.46	811
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	660	0	0	0.00	0
	Thermal (Total)	4277	2321	2212	52.02	2168
	Total Hydro	62	22	21	0.70	29
	Total Haryana	4339	2343	2233	52.72	2197
Rajasthan	kota TPS	1240	978	971	23.30	971
	suratgarh TPS	1500	1248	1350	31.52	1313
	Chabra TPS	500	0	197	2.08	87
	Dholpur GPS	330	253	263	5.73	239
	Ramgarh GPS	111	0	0	0.00	0
	RAPS A (NPC)	300	0	0	0.09	4
	Barsingsar (NLC) IPP	250	0	99	0.46	19
	Giral LTPS	250	67	98	1.91	79
	Rajwest LTPS (IPP)	540	326	345	8.60	359
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2872	3323	73.69	3070
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	411	186	5.82	243
	Biomass	91	49	49	1.17	49
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	1934	460	235	6.99	291
	Total Rajasthan	7640	3332	3558	80.68	3362
UP	Anpara TPS	1630	1138	1028	26.70	1113
	Obra TPS	1382	488	468	11.70	488
	Paricha TPS	640	383	390	9.20	383
	Panki TPS	210	140	149	3.10	129
	Harduaganj TPS	415	0	0	0.00	0
	Tanda TPS (NTPC)	440	190	188	4.73	197
	Roza TPS (IPP)	1200	1127	851	22.11	921
	Anpara-C (IPP)	1200	466	459	10.52	438
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	284	6.83	285
	Thermal (Total)	7567	4256	3817	94.89	3954
	Vishnuparyag HPS (IPP)	400	99	99	2.38	99
	Other Hydro	527	248	0	5.08	212
	Cogeneration	981	400	400	9.60	400
	Total UP	9475	5003	4316	111.95	4565
Uttarakhand	Total Hydro	1303	519	243	8.94	373
	Total Uttarakhand	1303	519	243	8.94	373
Delhi	Rajghat TPS	135	48	49	1.13	47
	Delhi Gas Turbine	282	155	155	3.77	157
	Pragati Gas Turbine	330	289	262	6.94	289
	Rithala GPS	108	26	35	0.79	33
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	615	480	12.28	512
	Thermal (Total)	2000	1133	981	24.91	1038
	Total Delhi	2000	1133	981	24.91	1038
HP	Baspa HPS (IPP)	330	0	0	1.14	47
	Malana HPS (IPP)	101	50	0	0.40	17
	Other Hydro	571	296	257	7.86	328
	Total HP	1002	346	257	9	392
J & K	Baglihar HPS (IPP)	450	390	386	9.19	383
	Other Hydro	323	120	128	3.01	125
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	510	514	12.20	508
Total State Control Area Generation		30483	15887	14135	356.85	14770
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2608	-172	26.18	1091
Total Regional Availability(Gross)		51958	34310	24017	659.05	27361

IV. Total Hydro Generation:

Regional Entities Hydro	10033	6998	1760	83.05	3460
State Control Area Hydro	5365	2047	1106	43.55	1815
Total Regional Hydro	15397	9045	2866	126.60	5275

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	0	-200	0	200	0.00	2.46	-2.46
Gwalior-Agra (D/C)	780	0	929	63	10.52	0.00	10.52
Zerda-Kankroli	71	-292	471	294	0.00	3.40	-3.40
Zerda-Bhinmal	82	-243	115	295	0.00	2.46	-2.46
Malanpur-Auraiya	8	-133	8	145	0.00	1.91	-1.91
Badod-Kota/Morak	51	-47	73	110	0.00	0.24	-0.24
Sub Total WR	992	-915			10.52	10.46	0.06
Pusauli Bypass	-81	-138	102	228	0.14	1.70	-1.56
MZP- GKP (D/C)	598	218	624	0	8.38	0.00	8.38
Patna-Balia(D/C)	251	273	456	0	7.09	0.00	7.09
B'Sharif-Balia (D/C)	374	246	527	0	8.17	0.00	8.17
Barh - Balia(D/C)	283	0	295	0	1.21	0.00	1.21
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	185	118	211	0	3.78	0.00	3.78
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-42	-34	0	49	0.00	1.05	-1.05
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1616	743			28.87	2.75	26.13
Total IR Exch	2608	-172			39.39	13.21	26.18

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
23.61	0.77	24.38	-5.45	-3.96	1.37	1.05	1.68	-1.68

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
21.98	-6.20	15.78	26.13	0.06	26.18	4.15	6.25	10.40

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.20	5.10	26.60	94.80	73.30	7.50	0.10

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.22	18.01	49.14	19.11	49.79	0.72	0.16	50.17	49.50

VII. Voltage profile

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	02:30	399	19:10	0.0	0.0	0.0	0.0
Gorakhpur	400	430	07:04	386	18:56	0.0	1.5	47.4	0.0
Bareilly	400	425	02:06	388	19:12	0.0	0.7	5.6	0.0
Kanpur	400	422	01:54	392	18:56	0.0	0.0	7.5	0.0
Dadri	400	429	01:54	412	08:58	0.0	0.0	54.8	0.0
Ballabgarh	400	431	01:53	398	19:09	0.0	0.0	23.2	0.7
Bawana	400	431	02:11	400	18:23	0.0	0.0	28.3	0.3
Bassi	400	430	01:54	400	19:09	0.0	0.0	23.7	0.0
Hissar	400	422	01:55	394	18:24	0.0	0.0	3.1	0.0
Moga	400	428	01:31	3	10:12	0.8	0.8	21.9	0.0
Abdullapur	400	431	01:31	406	18:24	0.0	0.0	38.3	0.5
Nalagarh	400	430	01:30	409	19:10	0.0	0.0	49.1	0.0
Kishenpur	400	420	01:28	400	19:38	0.0	0.0	0.0	0.0
Wagoora	400	406	04:00	381	20:03	0.0	20.8	0.0	0.0

VIII. 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	474.54	345.61	484.08	560.76	249.90	302.08
Pong	426.72	384.05	403.12	296.79	410.27	504.32	74.76	11.58
Tehri	829.79	740.04	761.55	133.00	818.65	982.26	80.60	188.00
Koteshwar	612.50	598.50	610.90	4.95	NA	NA	188.00	204.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	169.72	196.11
Rihand	268.22	252.98	258.87	244.30	254.93	73.80	NA	NA
RPS	352.80	343.81	347.65	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.16	NA	NA	NA	NA	NA
RSD	527.91	487.91	496.56	NA	506.12	NA	178.62	228.12

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 17.04.2012 :

1. Normal weather in Northern region.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 17.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER