

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.04.2012
Date of Reporting : 17.04.2012

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
31243	2976	34220	49.84	24587	650	25237	50.05	644.1	28.23

* 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	43.35	8.51		51.86	41.94	39.84	-2.10	91.70	1.80
Haryana	53.59	0.72		54.31	30.32	31.39	1.06	85.70	1.98
Rajasthan	75.26	0.00	11.51	86.78	31.11	39.30	8.19	126.08	0.00
Delhi	24.60			24.60	51.57	43.53	-8.04	68.13	0.01
UP	96.51	6.46	9.60	112.57	77.40	79.17	1.77	191.74	21.12
Uttarakhand		9.51		9.51	11.43	16.97	5.55	26.49	2.12
HP		9.49		9.49	11.95	12.44	0.49	21.92	0.00
J & K		12.64	0.00	12.64	14.44	16.02	1.59	28.66	1.20
Chandigarh				0.00	4.42	3.70	-0.71	3.70	0.00
Total	293.31	47.32	21.11	361.75	274.57	282.37	7.80	644.11	28.23

* 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	4409	450	-89	-141	3431	0	-333	-94	-2.95
Haryana	4226	513	257	54	3257	0	-164	54	1.30
Rajasthan	5746	0	1	-315	5054	0	752	-315	-7.56
Delhi	3316	0	-361	495	2007	0	-177	252	9.60
UP	9948	1613	1087	465	7920	650	150	265	7.36
Uttarakhand	1029	300	-98	47	1041	0	276	47	1.14
HP	1004	0	-58	-355	688	0	2	59	-3.63
J&K	1372	100	-51	-356	1080	0	44	-356	-8.55
Chandigarh	193	0	-35	27	109	0	-21	0	0.61
Total	31243	2976	653	-78	24587	650	530	-87	-2.69

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1460	1596	1586	36.55	1523	35.04	1.51
	Rihand I STPS	1000	898	992	983	21.42	892	20.90	0.52
	Rihand II STPS	1000	975	1045	1047	23.61	984	22.75	0.86
	Dadri I STPS	840	803	876	600	18.11	755	16.89	1.22
	Dadri II STPS	980	470	509	358	10.50	437	10.31	0.19
	Unchahar I TPS	440	400	440	408	9.46	394	9.23	0.24
	Unchahar II TPS	440	200	221	204	4.79	199	4.44	0.35
	Unchahar III TPS	210	199	220	184	4.69	195	4.45	0.24
	ISTPP (Jhajjar)	1000	479	510	508	10.62	443	11.08	-0.46
	Dadri GPS	830	823	580	610	13.01	542	13.27	-0.26
	Anta GPS	419	390	253	209	5.95	248	5.80	0.15
	Auraiya GPS	663	622	313	315	7.33	306	7.08	0.25
	Sub Total (A)	9822	7719	7555	7012	166.03	6918	161.22	4.81
B. NPC	NAPS	440	272	299	307	6.44	268	6.53	-0.09
	RAPS- B	440	388	433	450	9.20	383	9.31	-0.12
	RAPS- C	440	416	467	471	10.08	420	9.98	0.10
	Sub Total (B)	1320	1076	1199	1228	25.72	1072	25.82	-0.10
C. NHPC	Chamera I HPS	540	534	540	0	7.02	293	6.72	0.30
	Chamera II HPS	300	297	298	0	3.81	159	3.64	0.17
	Bairasuil HPS	180	182	179	70	3.00	125	2.90	0.10
	Salal-HPS	690	329	477	335	8.80	367	7.88	0.92
	Tanakpur-HPS	94	31	42	16	0.68	28	0.74	-0.06
	Uri-HPS	480	476	480	480	11.60	483	11.46	0.14
	Dhauliganga-HPS	280	277	278	0	1.22	51	1.22	0.00
	Dulhasti-HPS	390	388	408	125	5.18	216	4.77	0.41
	Sewa-II HPS	120	119	121	74	2.69	112	2.58	0.11
	Sub Total (C)	3074	2633	2823	1100	44.01	1834	41.91	2.10
D. NJPC	Nathpa Jhakri	1500	1600	1569	0	9.46	394	9.18	0.28
	Sub Total (D)	1500	1600	1569	0	9.46	394	9.18	0.28
E. THDC	Tehri HPS	1000	495	505	0	6.12	255	6.00	0.12
	Koteshwar HPS	300	300	304	0	2.98	124	2.90	0.08
	Sub Total (E)	1300	795	809	0	9.10	379	8.90	0.20
F. BBMB	Bhakra HPS	1480	388	585	383	9.67	403	9.31	0.36
	Dehar HPS	990	252	660	140	6.23	260	6.04	0.19
	Pong HPS	396	6	120	0	0.18	8	0.15	0.03
	Sub Total (F)	2866	646	1365	523	16.08	670	15.50	0.58
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	108	0	1.04	43	1.23	-0.19
	KWHEP HPS(IPP)	1000	0	350	150	4.34	181	4.32	0.02
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	147	146	3.18	133	3.79	-0.61
	Sub Total (G)	1592	0	605	296	8.56	357	9.34	-0.78
H. Total Regional Entities (A-G)	21475	14469	15925	10159	278.96	11623	271.88	7.08	

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	1030	840	22.10	921	
	Guru Nanak Dev TPS(Bhatinda)	440	0	0	0.00	0	
	Guru Hargobind Singh TPS(L.mbt)	920	953	973	21.25	885	
	Thermal (Total)	2620	1983	1813	43.35	1806	
	Total Hydro	1148	395	384	8.51	355	
	Total Punjab	3768	2378	2197	51.86	2161	
Haryana	Panipat TPS	1360	1043	896	24.13	1005	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	388	407	8.75	365	
	RGTPP (kheldar) (IPP)	1200	840	837	20.71	863	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	660	0	0	0.00	0	
	Thermal (Total)	4277	2271	2140	53.59	2233	
	Total Hydro	62	14	24	0.72	30	
		Total Haryana	4339	2285	2164	54.31	2263
Rajasthan	kota TPS	1240	975	972	23.18	966	
	suratgarh TPS	1500	1251	1369	32.36	1348	
	Chabra TPS	500	0	0	1.95	81	
	Dholpur GPS	330	263	273	5.96	248	
	Ramgarh GPS	111	0	0	0.00	0	
	RAPS A (NPC)	300	0	0	0.09	4	
	Barsingsar (NLC) IPP	250	63	113	2.26	94	
	Giral LTPS	250	65	49	1.26	52	
	Rajwest LTPS (IPP)	540	345	480	8.21	342	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2962	3256	75.26	3136	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	773	0	10.33	431	
	Biomass	91	49	49	1.18	49	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	1934	822	49	11.51	480	
		Total Rajasthan	7640	3784	3305	86.78	3616
	UP	Anpara TPS	1630	1111	1208	29.10	1213
		Obra TPS	1382	474	455	11.20	467
Paricha TPS		640	392	386	9.30	388	
Panki TPS		210	144	144	3.50	146	
Harduaganj TPS		415	0	0	0.00	0	
Tanda TPS (NTPC)		440	191	194	4.79	200	
Roza TPS (IPP)		1200	1121	811	21.37	891	
Anpara-C (IPP)		1200	450	495	10.91	455	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	306	256	6.34	264	
Thermal (Total)		7567	4189	3949	96.51	4021	
Vishnuparyag HPS (IPP)		400	104	104	2.45	102	
Other Hydro		527	248	0	4.01	167	
Cogeneration		981	400	400	9.60	400	
		Total UP	9475	4941	4453	112.57	4588
Uttarakhand		Total Hydro	1303	503	372	9.51	396
		Total Uttarakhand	1303	503	372	9.51	396
Delhi	Rajghat TPS	135	48	95	2.18	91	
	Delhi Gas Turbine	282	154	156	3.84	160	
	Pragati Gas Turbine	330	291	148	6.33	264	
	Rithala GPS	108	0	0	0.93	39	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	590	485	11.31	471	
	Thermal (Total)	2000	1083	884	24.60	1025	
		Total Delhi	2000	1083	884	24.60	1025
HP	Baspa HPS (IPP)	330	0	0	1.18	49	
	Malana HPS (IPP)	101	66	0	0.48	20	
	Other Hydro	571	319	243	7.83	326	
		Total HP	1002	385	243	9	395
J & K	Baglihar HPS (IPP)	450	438	436	9.63	401	
	Other Hydro	323	120	128	3.01	125	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	558	564	12.64	527
Total State Control Area Generation		30483	15917	14182	361.75	14971	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			1644	1241	20.65	860	
Total Regional Availability(Gross)		51958	33486	25582	661.36	27454	

IV. Total Hydro Generation:

Regional Entities Hydro	10033	7024	1773	84.03	3501
State Control Area Hydro	5365	2103	1587	44.87	1870
Total Regional Hydro	15397	9127	3360	128.90	5371

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	-100	-100	0	200	0.00	2.29	-2.29
Gwalior-Agra (D/C)	570	230	779	261	7.33	0.00	7.33
Zerda-Kankroli	-58	-179	0	321	0.00	4.67	-4.67
Zerda-Bhinmal	-62	-131	47	346	0.00	3.90	-3.90
Malanpur-Auraiya	-96	-77	0	241	0.00	2.34	-2.34
Badod-Kota/Morak	16	8	35	65	0.00	0.30	-0.30
Sub Total WR	270	-249			7.33	13.50	-6.17
Pusauli Bypass	-130	-15	214	212	0.50	1.57	-1.07
MZP- GKP (D/C)	427	642	704	0	8.78	0.00	8.78
Patna-Balia(D/C)	285	243	298	0	5.35	0.00	5.35
B'Sharif-Balia (D/C)	288	205	288	0	4.49	0.00	4.49
Barh - Balia(D/C)	317	272	323	0	6.28	0.00	6.28
Pusauli-Balia	0	0	0	0	0.01	0.00	0.01
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	181	117	211	0	3.94	0.00	3.94
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	1374	1490			29.44	2.62	26.82
Total IR Exch	1644	1241			36.77	16.12	20.65

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
25.03	0.35	25.39	-5.77	-2.92	1.02	3.43	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
22.32	-7.68	14.64	26.82	-6.17	20.65	4.50	1.51	6.01

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	0.00	2.40	19.00	97.50	80.90	9.00	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	17.33	49.28	19.13	49.82	0.54	0.14	50.15	49.61

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	412	07:17	396	18:54	0.0	0.0	0.0	0.0
Gorakhpur	400	432	03:28	401	18:37	0.0	0.0	81.2	4.0
Bareilly	400	418	23:05	405	20:05	0.0	0.0	0.0	0.0
Kanpur	400	422	07:42	400	18:54	0.0	0.0	1.9	0.0
Dadri	400	424	03:07	404	18:54	0.0	0.0	19.4	0.0
Ballabgarh	400	427	03:11	404	18:25	0.0	0.0	32.4	0.0
Bawana	400	426	03:08	404	18:57	0.0	0.0	27.1	0.0
Bassi	400	428	03:15	405	18:15	0.0	0.0	24.4	0.0
Hissar	400	417	08:04	398	18:25	0.0	0.0	0.0	0.0
Moga	400	427	02:40	405	18:52	0.0	0.0	24.5	0.0
Abdullapur	400	429	08:04	409	18:24	0.0	0.0	53.5	0.0
Nalagarh	400	430	03:16	412	19:14	0.0	0.0	68.3	0.0
Kishenpur	400	422	02:47	401	19:37	0.0	0.0	1.1	0.0
Wagoora	400	407	02:41	382	21:19	0.0	22.2	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	474.61	345.61	484.14	560.76	254.94	302.40
Pong	426.72	384.05	403.09	288.96	410.24	504.32	74.78	11.58
Tehri	829.79	740.04	762.15	137.27	818.65	982.26	80.01	187.00
Koteshwar	612.50	598.50	611.30	5.20	NA	NA	187.00	197.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	184.88	191.16
Rihand	268.22	252.98	259.05	252.90	255.03	77.40	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	497.17	NA	505.49	NA	295.32	299.42

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.04.2012 :

1. Dust storm in few parts of Haryana.and Normal weather in rest 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 : 16.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER