

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.05.2012
Date of Reporting : 17.05.2012

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
32733	3291	36024	49.76	32588	3134	35722	49.70	788.8	73.67

* 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	49.63	14.04		63.66	57.94	60.98	3.04	124.64	7.75
Haryana	59.24	0.87		60.11	46.24	48.95	2.71	109.05	8.32
Rajasthan	67.10	0.17	22.05	89.31	44.56	54.97	10.41	144.28	6.46
Delhi	32.20			32.20	70.64	58.71	-11.93	90.91	0.73
UP	86.44	10.06	7.20	103.70	99.00	128.03	29.03	231.72	45.17
Uttarakhand		15.73		15.73	11.13	14.62	3.49	30.35	2.29
HP		12.96		12.96	10.77	10.88	0.11	23.85	0.00
J & K		14.26	0.00	14.26	15.52	14.45	-1.07	28.70	2.95
Chandigarh				0.00	5.23	5.33	0.10	5.33	0.00
Total	294.60	68.08	29.25	391.93	361.02	396.90	35.88	788.83	73.67

* 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	5526	743	76	491	5119	195	26	491	11.77
Haryana	4407	33	-125	169	4417	829	83	169	4.05
Rajasthan	5971	205	136	-96	5747	122	308	-396	-8.75
Delhi	4047	0	-601	479	3276	0	-703	381	9.64
UP	8907	2010	267	70	10983	1788	1758	75	1.71
Uttarakhand	1340	150	120	29	1145	100	51	28	0.70
HP	932	0	-63	-659	805	0	-15	-441	-13.86
J&K	1352	150	-22	-393	913	100	-325	-393	-9.67
Chandigarh	251	0	-5	0	183	0	12	0	0.57
Total	32733	3291	-217	90	32588	3134	1195	-85	-3.84

* 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	1437	1585	1579	34.80	1450	34.49	0.31
	Rihand I STPS	1000	915	996	995	22.07	919	21.96	0.11
	Rihand II STPS	1000	965	1049	1044	23.23	968	23.16	0.07
	Dadri I STPS	840	598	650	654	14.38	599	14.36	0.02
	Dadri II STPS	980	850	1013	503	20.18	841	20.41	-0.23
	Unchahar I TPS	420	392	443	436	9.48	395	9.41	0.07
	Unchahar II TPS	420	403	441	442	9.71	404	9.67	0.04
	Unchahar III TPS	210	201	219	219	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	960	960	722	18.70	779	19.06	-0.36
	Dadri GPS	830	800	720	711	18.01	750	16.08	1.93
	Anta GPS	419	389	363	325	7.51	313	7.12	0.39
	Auraiya GPS	663	609	436	463	10.64	443	10.66	-0.02
	Sub Total (A)	9782	8519	8875	8093	193.54	8064	191.19	2.35
	B. NPC	NAPS	440	0	0	0	0.00	0	0.00
RAPS- B		440	373	406	410	8.80	367	8.95	-0.15
RAPS- C		440	420	459	465	9.93	414	10.08	-0.15
Sub Total (B)		1320	793	865	875	18.73	781	19.03	-0.30
C. NHPC	Chamera I HPS	540	534	540	360	8.85	369	8.69	0.16
	Chamera II HPS	300	297	300	200	5.74	239	5.26	0.49
	Bairasuil HPS	180	182	182	182	3.61	150	3.53	0.08
	Salal-HPS	690	412	403	416	10.76	448	9.88	0.88
	Tanakpur-HPS	94	39	51	35	0.94	39	0.98	-0.04
	Uri-HPS	480	474	480	479	11.58	483	11.53	0.06
	Dhauliganga-HPS	280	277	278	73	1.98	82	1.89	0.08
	Dulhasti-HPS	390	388	413	413	9.29	387	9.18	0.11
	Sewa-II HPS	120	80	86	85	1.93	80	1.91	0.02
	Sub Total (C)	3074	2682	2733	2243	54.69	2279	52.85	1.84
D. NJPC	Nathpa Jhakri	1500	1600	1620	512	20.14	839	19.81	0.33
	Sub Total (D)	1500	1600	1620	512	20.14	839	19.81	0.33
E. THDC	Tehri HPS	1000	415	400	262	5.15	214	5.00	0.15
	Koteshwar HPS	400	269	305	96	2.81	117	2.60	0.21
	Sub Total (E)	1400	684	705	358	7.96	332	7.60	0.36
F. BBMB	Bhakra HPS	1480	710	1049	948	17.38	724	17.04	0.34
	Dehar HPS	990	402	660	280	9.79	408	9.64	0.15
	Pong HPS	396	75	180	60	1.78	74	1.80	-0.02
	Sub Total (F)	2866	1187	1889	1288	28.95	1206	28.48	0.47
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	204	0	2.31	96	1.79	0.52
	KWHEP HPS(IPP)	1000	0	600	300	10.97	457	12.62	-1.66
	Malana Stg-II HPS	100	0	45	36	0.89	37	0.00	0.89
	Shree Cement TPS	300	0	143	138	3.30	138	2.70	0.60
	Sub Total (G)	1592	0	992	474	17.47	728	17.11	0.35
H. Total Regional Entities (A-G)	21535	15465	17679	13843	341.48	14228	336.08	5.39	

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	1050	105	23.62	984
	Guru Nanak Dev TPS(Bhatinda)	440	216	216	4.60	192
	Guru Hargobind Singh TPS(L.mbt)	920	955	965	21.40	892
	Thermal (Total)	2620	2221	1286	49.63	2068
	Total Hydro	1148	579	577	14.04	585
	Total Punjab	3768	2800	1863	63.66	2653
Haryana	Panipat TPS	1367	986	994	23.73	989
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	361	385	8.76	365
	RGTPP (khedar) (IPP)	1200	429	535	11.79	491
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	588	575	14.97	624
	Thermal (Total)	4944	2364	2489	59.24	2468
	Total Hydro	62	25	24	0.87	36
	Total Haryana	5006	2389	2513	60.11	2504
Rajasthan	kota TPS	1240	1144	1165	27.28	1137
	suratgarh TPS	1500	1127	1140	26.52	1105
	Chabra TPS	500	167	206	4.61	192
	Dholpur GPS	330	138	148	2.68	112
	Ramgarh GPS	111	26	0	0.71	30
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	240	230	5.29	220
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2842	2889	67.10	2796
	Total Hydro	550	0	0	0.17	7
	Wind power	1843	1053	1022	20.70	863
	Biomass	91	60	60	1.18	49
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	1113	1082	22.05	919
	Total Rajasthan	7767	3955	3971	89.31	3721
UP	Anpara TPS	1630	1174	1155	25.20	1050
	Obra TPS	1382	324	343	7.00	292
	Paricha TPS	640	388	407	8.60	358
	Panki TPS	210	150	135	3.00	125
	Harduaganj TPS	665	135	232	3.00	125
	Tanda TPS (NTPC)	440	295	293	7.13	297
	Roza TPS (IPP)	1200	692	693	16.61	692
	Anpara-C (IPP)	1200	315	369	8.54	356
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	345	222	7.36	306
	Thermal (Total)	7817	3818	3849	86.44	3601
	Vishnuparyag HPS (IPP)	400	253	204	5.15	215
	Other Hydro	527	221	0	4.91	205
	Cogeneration	981	300	300	7.20	300
	Total UP	9725	4592	4353	103.70	4106
Uttarakhand	Total Hydro	1303	648	613	15.73	655
	Total Uttarakhand	1303	648	613	15.73	655
Delhi	Rajghat TPS	135	96	54	1.91	80
	Delhi Gas Turbine	282	217	229	5.47	228
	Pragati Gas Turbine	330	270	286	6.73	281
	Rithala GPS	108	30	29	0.69	29
	Bawana GPS	677	268	290	6.88	287
	Badarpur TPS (NTPC)	705	500	475	10.51	438
	Thermal (Total)	2237	1381	1363	32.20	1342
	Total Delhi	2237	1381	1363	32.20	1342
HP	Baspa HPS (IPP)	330	62	93	2.86	119
	Malana HPS (IPP)	86	37	18	0.86	36
	Other Hydro	589	380	355	9.24	385
	Total HP	1005	479	466	13	540
J & K	Baglihar HPS (IPP)	450	438	436	10.50	438
	Other Hydro	323	166	155	3.76	156
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	604	591	14.26	594
Total State Control Area Generation		31767	16848	15733	391.93	16116
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1654	3334	66.59	2775
Total Regional Availability(Gross)		53302	36181	32910	799.99	33118

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7796	4737	125.90	5246
State Control Area Hydro	5368	2556	2271	62.93	2622
Total Regional Hydro	15500	10352	7008	188.83	7868

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	-200	500	400	6.01	1.33	4.68
Gwalior-Agra (D/C)	444	1023	1023	0	16.65	0.00	16.65
Zerda-Kankroli	-77	62	123	128	0.53	0.00	0.53
Zerda-Bhinmal	-69	39	180	143	0.76	0.00	0.76
Malanpur-Auraiya	-97	-18	0	160	0.00	1.19	-1.19
Badod-Kota/Morak	45	32	45	8	0.07	0.00	0.07
Sub Total WR	446	938			24.02	2.51	21.51
Pusauli Bypass	-157	114	199	187	1.47	0.65	0.82
MZP- GKP (D/C)	462	884	1028	0	17.76	0.00	17.76
Patna-Balia(D/C)	478	711	751	0	13.98	0.00	13.98
B'Sharif-Balia (D/C)	267	506	579	0	9.84	0.00	9.84
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	0	21	33	0	0.14	0.00	0.14
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	150	132	157	0	3.17	0.00	3.17
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-40	-32	0	47	0.00	0.72	-0.72
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1208	2396			46.45	1.37	45.08
Total IR Exch	1654	3334			70.47	3.88	66.59

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	
33.93	0.71	34.63	-3.46	1.49	2.13	2.88	2.99	-2.99	

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
36.30	1.13	37.44	45.08	21.51	66.59	8.78	20.37	29.15

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	1.00	3.00	15.30	47.60	84.10	51.80	4.80	0.60

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	49.69	1.44	0.22	50.20	49.20
50.35	18.03	48.82	22.07					

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	406	06:59	398	11:29	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	413	06:57	376	10:04	0.1	0.1	0.0	0.0
Kanpur	400	411	18:46	395	00:04	0.0	0.0	0.0	0.0
Dadri	400	410	18:03	394	11:22	0.0	0.0	0.0	0.0
Ballabgarh	400	414	18:48	398	15:36	0.0	0.0	0.0	0.0
Bawana	400	413	06:57	399	11:22	0.0	0.0	0.0	0.0
Bassi	400	425	16:07	400	08:34	0.0	0.0	2.7	0.0
Hissar	400	408	18:03	390	11:28	0.0	0.0	0.0	0.0
Moga	400	417	03:38	403	10:47	0.0	0.0	0.0	0.0
Abdullapur	400	411	16:06	389	15:15	0.6	0.6	0.0	0.0
Nalagarh	400	415	18:06	399	09:37	0.0	0.0	0.0	0.0
Kishenpur	400	414	03:36	399	21:12	0.0	0.0	0.0	0.0
Wagoora	400	408	03:36	386	22:06	0.0	7.6	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	470.41	272.43	480.02	461.24	410.14	614.19
Pong	426.72	384.05	402.54	281.22	411.05	534.79	61.65	119.58
Tehri	829.79	740.04	747.75	39.27	818.65	982.26	108.92	175.00
Koteshwar	612.50	598.50	611.20	5.20	NA	NA	176.00	186.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	235.37	238.89
Rihand	268.22	252.98	257.10	162.00	254.33	50.20	NA	NA
RPS	352.80	343.81	349.36	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	NA
RSD	527.91	487.91	500.39	NA	510.23	NA	227.24	315.65

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 16.05.2012 :

Normal

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 : 16.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER