

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.05.2012
Date of Reporting : 19.05.2012

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
32851	4917	37768	49.84	33829	2003	35832	49.64	793.8	86.98

* 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	45.50	13.17		58.67	65.27	68.45	3.18	127.12	8.20
Haryana	60.19	0.91		61.10	45.78	47.62	1.85	108.73	12.28
Rajasthan	64.19	0.39	10.35	74.92	45.42	57.89	12.47	132.81	11.73
Delhi	31.13			31.13	68.92	63.65	-5.28	94.77	1.44
UP	97.47	11.42	7.20	116.08	96.69	122.61	25.92	238.70	48.27
Uttarakhand		17.47		17.47	13.89	14.88	1.00	32.36	0.00
HP		14.24		14.24	10.85	9.93	-0.92	24.17	2.11
J & K		14.26	0.00	14.26	13.18	15.45	2.27	29.70	2.95
Chandigarh				0.00	5.37	5.43	0.06	5.43	0.00
Total	298.47	71.85	17.55	387.88	365.37	405.91	40.54	793.79	86.98

* 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	5586	943	35	641	5428	98	-41	492	12.39
Haryana	4492	671	151	169	4775	506	332	169	4.05
Rajasthan	5509	645	666	-396	5579	0	146	-396	-9.38
Delhi	4302	0	25	396	3571	0	-357	396	9.51
UP	8945	2358	522	70	11074	1300	1172	75	1.71
Uttarakhand	1396	150	-19	28	1304	0	144	27	0.68
HP	971	0	-147	-709	848	0	-170	-341	-12.06
J&K	1407	150	122	-393	1062	100	-103	-413	-9.93
Chandigarh	244	0	13	0	188	0	-2	0	0.57
Total	32851	4917	1368	-193	33829	2003	1120	10	-2.46

* 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	1849	2047	1922	45.02	1876	44.37	0.65
	Rihand I STPS	1000	901	995	996	21.58	899	21.62	-0.03
	Rihand II STPS	1000	751	517	1041	17.92	747	18.03	-0.11
	Dadri I STPS	840	598	655	657	14.17	590	14.36	-0.19
	Dadri II STPS	980	955	1017	1025	22.99	958	22.92	0.07
	Unchahar I TPS	420	383	438	439	9.29	387	9.19	0.10
	Unchahar II TPS	420	404	439	439	9.73	405	9.70	0.04
	Unchahar III TPS	210	201	218	218	4.87	203	4.82	0.04
	ISTPP (Jhajjar)	1000	774	399	991	15.18	632	15.38	-0.20
	Dadri GPS	830	777	701	724	15.86	661	15.83	0.03
	Anta GPS	419	380	335	380	7.78	324	7.45	0.33
	Auraiya GPS	663	609	560	592	12.72	530	12.26	0.46
	Sub Total (A)	9782	8582	8321	9424	197.10	8212	195.91	1.18
	B. NPC	NAPS	440	127	147	136	2.86	119	3.04
RAPS- B		440	367	407	411	8.82	367	8.81	0.01
RAPS- C		440	212	235	232	5.55	231	5.09	0.46
Sub Total (B)		1320	706	789	779	17.23	718	16.94	0.29
C. NHPC	Chamera I HPS	540	534	540	540	8.92	372	8.65	0.27
	Chamera II HPS	300	297	280	301	7.02	292	7.11	-0.09
	Bairasuil HPS	180	182	182	182	3.68	153	4.09	-0.42
	Salal-HPS	690	570	570	569	13.53	564	13.68	-0.15
	Tanakpur-HPS	94	24	45	25	0.88	37	0.84	0.04
	Uri-HPS	480	474	480	480	11.60	484	11.67	-0.07
	Dhauliganga-HPS	280	277	207	140	3.37	140	3.48	-0.11
	Dulhasti-HPS	390	388	409	414	9.35	390	9.22	0.13
	Sewa-II HPS	120	80	85	85	1.97	82	1.96	0.01
	Sub Total (C)	3074	2825	2798	2736	60.32	2513	60.71	-0.39
D. NJPC	Nathpa Jhakri	1500	1600	1222	682	23.61	984	22.93	0.68
	Sub Total (D)	1500	1600	1222	682	23.61	984	22.93	0.68
E. THDC	Tehri HPS	1000	426	121	285	4.74	197	4.50	0.24
	Koteshwar HPS	400	300	92	94	2.72	113	2.60	0.12
	Sub Total (E)	1400	726	213	379	7.45	311	7.10	0.35
F. BBMB	Bhakra HPS	1480	704	645	537	17.18	716	16.89	0.29
	Dehar HPS	990	478	445	495	11.93	497	11.46	0.47
	Pong HPS	396	69	60	0	1.73	72	1.65	0.08
	Sub Total (F)	2866	1250	1150	1032	30.84	1285	30.00	0.84
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	111	109	0.00	0	2.09	-2.09
	KWHEP HPS(IPP)	1000	0	430	400	13.05	544	12.37	0.68
	Malana Stg-II HPS	100	0	41	41	0.99	41	0.00	0.99
	Shree Cement TPS	300	0	144	139	3.42	143	2.77	0.65
	Sub Total (G)	1592	0	726	689	17.47	728	17.24	0.23
H. Total Regional Entities (A-G)	21535	15689	15219	15721	354.02	14751	350.83	3.19	

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	1050	22.00	917	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.24	93	
	Guru Hargobind Singh TPS(L.mbt)	920	961	968	21.26	886	
	Thermal (Total)	2620	2116	2123	45.50	1896	
	Total Hydro	1148	599	559	13.17	549	
	Total Punjab	3768	2715	2682	58.67	2445	
Haryana	Panipat TPS	1367	1053	990	24.76	1032	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	366	379	8.93	372	
	RGTPP (khedar) (IPP)	1200	536	545	12.66	528	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	589	566	13.84	577	
	Thermal (Total)	4944	2544	2480	60.19	2508	
	Total Hydro	62	22	22	0.91	38	
	Total Haryana	5006	2566	2502	61.10	2546	
	Rajasthan	kota TPS	1240	1146	1141	27.12	1130
suratgarh TPS		1500	1125	1115	26.62	1109	
Chabra TPS		500	0	199	1.66	69	
Dholpur GPS		330	90	98	2.25	94	
Ramgarh GPS		111	28	29	0.72	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	230	220	5.81	242	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2619	2802	64.19	2674	
Total Hydro		550	0	0	0.39	16	
Wind power		1843	138	712	8.81	367	
Biomass		91	48	48	1.16	48	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	186	760	10.35	431	
Total Rajasthan		7767	2805	3562	74.92	3122	
UP		Anpara TPS	1630	1210	1194	29.20	1217
		Obra TPS	1382	323	342	8.10	338
		Paricha TPS	640	388	404	9.10	379
	Panki TPS	210	150	140	3.40	142	
	Harduaganj TPS	665	50	274	5.70	238	
	Tanda TPS (NTPC)	440	289	293	7.21	300	
	Roza TPS (IPP)	1200	819	740	18.89	787	
	Anpara-C (IPP)	1200	439	374	7.94	331	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	439	371	7.94	331	
	Thermal (Total)	7817	4107	4132	97.47	4061	
	Vishnuparyag HPS (IPP)	400	238	268	6.46	269	
	Other Hydro	527	231	0	4.96	207	
	Cogeneration	981	300	300	7.20	300	
	Total UP	9725	4876	4700	116.08	4568	
	Uttarakhand	Total Hydro	1303	701	639	17.47	728
Total Uttarakhand		1303	701	639	17.47	728	
Delhi	Rajghat TPS	135	106	106	2.67	111	
	Delhi Gas Turbine	282	219	223	5.51	230	
	Pragati Gas Turbine	330	276	286	7.00	292	
	Rithala GPS	108	31	31	0.78	32	
	Bawana GPS	677	176	0	3.54	147	
	Badarpur TPS (NTPC)	705	545	535	11.63	485	
	Thermal (Total)	2237	1353	1181	31.13	1297	
	Total Delhi	2237	1353	1181	31.13	1297	
HP	Baspa HPS (IPP)	330	79	119	3.33	139	
	Malana HPS (IPP)	86	39	39	0.98	41	
	Other Hydro	589	415	403	9.93	414	
	Total HP	1005	533	561	14	594	
J & K	Baglihar HPS (IPP)	450	436	438	10.50	438	
	Other Hydro	323	166	155	3.76	156	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	602	593	14.26	594	
Total State Control Area Generation		31767	16151	16420	387.88	15893	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2222	3132	66.69	2779	
Total Regional Availability(Gross)		53302	33592	35273	808.58	33422	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	5965	5379	136.26	5678
State Control Area Hydro	5368	2688	2374	65.40	2725
Total Regional Hydro	15500	8653	7753	201.66	8403

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	0	500	200	2.16	0.15	2.00
Gwalior-Agra (D/C)	450	886	1362	0	19.86	0.00	19.86
Zerda-Kankroli	-31	119	230	59	1.29	0.00	1.29
Zerda-Bhinmal	99	171	312	160	1.88	0.00	1.88
Malanpur-Auraiya	-110	-71	0	151	0.00	1.79	-1.79
Badod-Kota/Morak	109	31	160	0	1.63	0.00	1.63
Sub Total WR	1017	1136			26.82	1.94	24.87
Pusauli Bypass	-182	-30	105	182	0.23	1.55	-1.32
MZP- GKP (D/C)	456	814	814	0	18.00	0.00	18.00
Patna-Balia(D/C)	266	329	519	0	8.60	0.00	8.60
B'Sharif-Balia (D/C)	247	396	444	0	8.04	0.00	8.04
Barh - Balia(D/C)	266	330	339	0	5.96	0.00	5.96
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	144	129	162	0	3.41	0.00	3.41
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-40	-32	0	47	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1205	1996			44.33	2.52	41.81
Total IR Exch	2222	3132			71.15	4.47	66.69

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
29.76	0.92	30.68	-3.29	3.14	1.25	7.24	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
31.63	7.19	38.82	41.81	24.87	66.69	10.18	17.68	27.87

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	0.60	1.00	14.40	44.90	85.20	54.70	6.20	0.40

<----- 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	49.72	1.21	0.20	50.24	49.12
50.35	6.05	48.85	23.06					

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	408	05:59	397	18:12	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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	413	22:17	396	01:32	0.0	0.0	0.0	0.0
Dadri	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Ballabgarh	400	418	06:03	397	10:03	0.0	0.0	0.0	0.0
Bawana	400	416	06:04	400	01:35	0.0	0.0	0.0	0.0
Bassi	400	426	21:16	396	08:47	0.0	0.0	8.3	0.0
Hissar	400	411	19:25	391	10:03	0.0	0.0	0.0	0.0
Moga	400	421	06:03	401	10:03	0.0	0.0	0.3	0.0
Abdullapur	400	413	18:47	289	22:51	0.1	0.1	0.0	0.0
Nalagarh	400	422	06:05	403	08:46	0.0	0.0	0.6	0.0
Kishenpur	400	415	06:03	401	11:10	0.0	0.0	0.0	0.0
Wagoora	400	408	04:04	387	22:03	0.0	3.2	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	470.04	267.31	479.76	454.47	487.33	601.22
Pong	426.72	384.05	402.47	273.51	411.15	534.70	53.66	116.84
Tehri	829.79	740.04	747.10	34.10	818.65	982.26	117.26	162.00
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 18.05.2012 :

Hot weather

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 : 18.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER