

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.05.2012
Date of Reporting : 21.05.2012

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
31909	2365	34274	49.95	2229	36006	49.73	788.1	54.49	

* 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	47.15	14.39		61.54	63.47	71.37	7.90	132.91	2.76
Haryana	60.25	0.79		61.04	42.96	47.41	4.45	108.45	8.32
Rajasthan	69.14	0.10	15.96	85.19	51.00	53.29	2.29	138.48	1.42
Delhi	24.54			24.54	67.85	61.15	-6.70	85.69	0.11
UP	93.16	9.34	7.20	109.71	92.12	124.20	32.08	233.90	37.45
Uttarakhand		17.09		17.09	11.26	14.26	3.01	31.36	1.49
HP		13.77		13.77	10.13	9.26	-0.87	23.03	0.00
J & K		14.25	0.00	14.25	15.80	15.29	-0.51	29.54	2.95
Chandigarh				0.00	5.08	4.74	-0.34	4.74	0.00
Total	294.24	69.74	23.16	387.13	359.67	400.96	41.30	788.09	54.49

* 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	5266	450	206	293	5694	0	-28	294	7.03
Haryana	4546	52	90	205	4258	701	-7	205	4.92
Rajasthan	5717	0	-312	-396	5829	0	458	-196	-8.70
Delhi	3671	13	-185	520	3551	0	-391	410	11.20
UP	9055	1550	578	70	10905	1288	2109	75	1.71
Uttarakhand	1327	150	109	28	1218	140	58	27	0.66
HP	919	0	-124	-614	888	0	-109	-366	-10.45
J&K	1188	150	-299	-393	1241	100	-38	-413	-9.83
Chandigarh	220	0	-14	0	193	0	11	0	0.57
Total	31909	2365	49	-287	33777	2229	2063	36	-2.89

* 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	1900	2058	2056	45.83	1910	45.60	0.23
	Rihand I STPS	1000	677	980	579	16.26	678	16.26	0.01
	Rihand II STPS	1000	732	1043	520	17.96	748	17.57	0.39
	Dadri I STPS	840	598	635	660	13.93	580	14.12	-0.19
	Dadri II STPS	980	466	509	495	11.02	459	11.15	-0.13
	Unchahar I TPS	420	404	436	430	9.64	402	9.69	-0.05
	Unchahar II TPS	420	404	441	440	9.70	404	9.70	0.00
	Unchahar III TPS	210	201	219	219	4.81	201	4.82	-0.01
	ISTPP (Jhajjar)	1000	470	501	515	10.93	456	11.12	-0.18
	Dadri GPS	830	773	499	671	14.57	607	14.60	-0.04
	Anta GPS	419	380	225	290	6.58	274	6.55	0.03
	Auraiya GPS	663	609	412	550	11.79	491	11.26	0.53
	Sub Total (A)	9782	7615	7958	7425	173.02	7209	172.43	0.59
	B. NPC	NAPS	440	127	145	152	3.06	127	3.04
RAPS- B		440	367	411	413	8.80	367	8.81	-0.01
RAPS- C		440	232	232	235	5.03	210	5.57	-0.53
Sub Total (B)		1320	726	788	800	16.89	704	17.42	-0.53
C. NHPC	Chamera I HPS	540	534	540	540	9.62	401	9.70	-0.08
	Chamera II HPS	300	297	271	294	5.35	223	5.76	-0.40
	Bairasuil HPS	180	182	182	120	3.14	131	3.50	-0.36
	Salal-HPS	690	530	581	541	12.61	525	12.60	0.01
	Tanakpur-HPS	94	41	50	24	1.04	44	1.24	-0.20
	Uri-HPS	480	476	480	480	11.57	482	11.57	0.01
	Dhauliganga-HPS	280	277	273	139	2.78	116	3.02	-0.24
	Dulhasti-HPS	390	388	417	410	8.86	369	9.10	-0.23
	Sewa-II HPS	120	80	85	86	1.91	79	1.93	-0.02
	Sub Total (C)	3074	2804	2879	2634	56.89	2370	58.40	-1.51
D. NJPC	Nathpa Jhakri	1500	1600	1327	1474	24.22	1009	25.00	-0.78
	Sub Total (D)	1500	1600	1327	1474	24.22	1009	25.00	-0.78
E. THDC	Tehri HPS	1000	535	408	121	5.01	209	5.00	0.01
	Koteshwar HPS	400	400	184	96	2.60	108	2.50	0.10
	Sub Total (E)	1400	935	592	217	7.61	317	7.50	0.11
F. BBMB	Bhakra HPS	1480	703	1043	535	17.15	715	16.86	0.29
	Dehar HPS	990	440	660	420	10.25	427	10.56	-0.31
	Pong HPS	396	203	300	180	5.13	214	4.87	0.26
	Sub Total (F)	2866	1345	2003	1135	32.53	1355	32.29	0.24
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	152	0	1.99	83	2.01	-0.02
	KWHEP HPS(IPP)	1000	0	880	500	12.58	524	13.23	-0.65
	Malana Stg-II HPS	100	0	41	36	0.86	36	0.00	0.86
	Shree Cement TPS	300	0	141	146	3.27	136	3.02	0.25
	Sub Total (G)	1592	0	1214	682	18.70	779	18.26	0.45
H. Total Regional Entities (A-G)	21535	15025	16761	14367	329.86	13744	331.30	-1.44	

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	23.30	971
	Guru Nanak Dev TPS(Bhatinda)	440	75	180	2.75	115
	Guru Hargobind Singh TPS(L.mbt)	920	963	965	21.10	879
	Thermal (Total)	2620	2088	2195	47.15	1965
	Total Hydro	1148	376	684	14.39	600
	Total Punjab	3768	2464	2879	61.54	2564
Haryana	Panipat TPS	1367	1002	1076	25.21	1051
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	371	380	8.91	371
	RGTPP (kheldar) (IPP)	1200	504	517	12.48	520
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	554	561	13.64	568
	Thermal (Total)	4944	2431	2534	60.25	2510
	Total Hydro	62	25	19	0.79	33
	Total Haryana	5006	2456	2553	61.04	2543
Rajasthan	kota TPS	1240	1108	1164	27.40	1142
	suratgarh TPS	1500	1251	1346	31.88	1328
	Chabra TPS	500	0	0	0.00	0
	Dholpur GPS	330	89	95	2.43	101
	Ramgarh GPS	111	27	27	0.72	30
	RAPS A (NPC)	300	95	0	1.09	45
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	230	230	5.62	234
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2800	2862	69.14	2881
	Total Hydro	550	22	0	0.10	4
	Wind power	1843	508	538	14.79	616
	Biomass	91	43	43	1.07	45
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	551	581	15.96	665
	Total Rajasthan	7767	3373	3443	85.19	3550
UP	Anpara TPS	1630	1186	1183	25.40	1058
	Obra TPS	1382	177	323	5.30	221
	Paricha TPS	640	388	381	8.40	350
	Panki TPS	210	160	140	3.20	133
	Harduaganj TPS	665	240	296	5.60	233
	Tanda TPS (NTPC)	440	289	288	7.22	301
	Roza TPS (IPP)	1200	824	828	19.60	817
	Anpara-C (IPP)	1200	378	409	9.61	401
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	351	392	8.83	368
	Thermal (Total)	7817	3993	4240	93.16	3882
	Vishnuparyag HPS (IPP)	400	278	278	6.27	261
	Other Hydro	527	142	31	3.07	128
	Cogeneration	981	300	300	7.20	300
	Total UP	9725	4713	4849	109.71	4310
	Uttarakhand	Total Hydro	1303	660	673	17.09
Total Uttarakhand		1303	660	673	17.09	712
Delhi	Rajghat TPS	135	105	106	2.60	108
	Delhi Gas Turbine	282	146	232	4.68	195
	Pragati Gas Turbine	330	279	288	7.00	292
	Rithala GPS	108	31	26	0.74	31
	Bawana GPS	677	0	0	0.04	2
	Badarpur TPS (NTPC)	705	410	450	9.49	395
	Thermal (Total)	2237	971	1102	24.54	1023
	Total Delhi	2237	971	1102	24.54	1023
HP	Baspa HPS (IPP)	330	178	109	3.24	135
	Malana HPS (IPP)	86	34	18	0.84	35
	Other Hydro	589	398	405	9.69	404
	Total HP	1005	610	532	14	574
J & K	Baglihar HPS (IPP)	450	436	438	10.50	437
	Other Hydro	323	166	155	3.76	156
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	602	593	14.25	594
Total State Control Area Generation		31767	15849	16624	387.13	15869
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1450	4045	84.70	3529
Total Regional Availability(Gross)		53302	34060	35036	801.69	33142

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7874	5996	136.68	5695
State Control Area Hydro	5368	2437	2532	63.46	2644
Total Regional Hydro	15500	10311	8528	200.14	8339

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	7.50	0.00	7.50
Gwalior-Agra (D/C)	230	834	1286	0	19.97	0.00	19.97
Zerda-Kankroli	-26	82	219	96	1.24	0.00	1.24
Zerda-Bhinmal	-1	105	342	118	2.00	0.00	2.00
Malanpur-Auraiya	-76	-56	0	162	0.00	1.25	-1.25
Badod-Kota/Morak	3	69	158	0	1.69	0.00	1.69
Sub Total WR	330	1434			32.39	1.25	31.14
Pusauli Bypass	-143	86	291	143	2.72	0.29	2.43
MZP- GKP (D/C)	418	996	1086	0	20.50	0.00	20.50
Patna-Balia(D/C)	470	408	613	0	10.77	0.00	10.77
B'Sharif-Balia (D/C)	227	556	560	0	10.35	0.00	10.35
Barh - Balia(D/C)	0	405	411	0	7.06	0.00	7.06
Pusauli-Balia	0	0	62	0	0.15	0.00	0.15
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	140	132	160	0	3.18	0.00	3.18
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	1120	2611			54.82	1.26	53.56
Total IR Exch	1450	4045			87.21	2.51	84.70

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	
32.12	0.64	32.76	-2.07	1.04	0.73	7.83	2.30	-2.30	

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
33.73	7.00	40.73	53.56	31.14	84.70	19.83	24.14	43.97

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	4.90	23.20	90.00	71.70	20.70	5.10

<----- 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	Hz				
50.71	18.03	49.22	5.23	49.86	0.68	0.21	50.53	49.55

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	407	00:35	394	11:22	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	05:34	395	11:12	0.0	0.0	0.0	0.0
Dadri	400	416	18:02	397	11:26	0.0	0.0	0.0	0.0
Ballabgarh	400	420	05:35	399	11:10	0.0	0.0	0.0	0.0
Bawana	400	417	05:34	399	11:10	0.0	0.0	0.0	0.0
Bassi	400	428	05:33	399	11:12	0.0	0.0	4.2	0.0
Hissar	400	415	17:39	281	16:02	0.0	0.0	0.0	0.0
Moga	400	425	17:39	402	11:10	0.0	0.0	4.2	0.0
Abdullapur	400	420	19:06	280	23:14	0.1	0.1	0.0	0.0
Nalagarh	400	426	18:03	405	12:54	0.0	0.0	6.4	0.0
Kishenpur	400	421	17:43	401	11:02	0.0	0.0	0.3	0.0
Wagoora	400	409	17:43	389	22:02	0.0	0.5	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	469.89	267.31	479.69	454.47	505.23	616.77
Pong	426.72	384.05	402.36	275.31	411.20	534.70	64.73	254.31
Tehri	829.79	740.04	748.80	38.00	818.65	982.26	113.80	174.00
Koteshwar	612.50	598.50	611.20	5.20	NA	NA	176.00	186.00
Chamera-I	760.00	748.75	754.76	NA	NA	NA	261.30	245.46
Rihand	268.22	252.98	256.89	152.90	254.23	46.70	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 20.05.2012 :

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 : 20.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER