

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.05.2012
Date of Reporting : 13.05.2012

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
26715	1320	28035	50.16	33841	1667	35508	49.96	740.8	43.21

* 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	46.83	11.45		58.27	57.19	60.11	2.93	118.39	2.79
Haryana	44.73	0.93		45.66	43.92	47.14	3.22	92.79	4.30
Rajasthan	69.64	0.00	14.48	84.11	45.60	49.61	4.02	133.73	0.74
Delhi	31.11			31.11	66.60	50.17	-16.43	81.29	0.00
UP	86.94	8.50	7.20	102.64	97.80	128.08	30.28	230.71	30.86
Uttarakhand		16.98		16.98	11.70	12.47	0.76	29.45	1.58
HP		12.83		12.83	11.44	9.82	-1.62	22.65	0.00
J & K		14.09	0.00	14.09	16.01	12.67	-3.35	26.76	2.95
Chandigarh				0.00	5.10	4.99	-0.11	4.99	0.00
Total	279.25	64.78	21.68	365.70	355.36	375.06	19.70	740.76	43.21

* 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	4790	450	637	374	5404	98	-1	374	8.95
Haryana	2044	0	-1137	294	4685	359	750	294	7.05
Rajasthan	4850	0	-1048	-396	5740	0	143	-396	-8.93
Delhi	2846	0	-525	452	3421	0	-907	452	10.84
UP	8375	720	591	72	11266	1110	2200	75	1.74
Uttarakhand	1118	0	-125	27	1279	0	134	26	0.67
HP	927	0	-58	-681	815	0	-73	-463	-14.06
J&K	1544	150	157	-393	1046	100	-250	-393	-9.67
Chandigarh	221	0	107	0	185	0	185	0	0.24
Total	26715	1320	-1401	-251	33841	1667	2181	-30	-3.15

* 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	1450	1433	1584	33.89	1412	33.53	0.36
	Rihand I STPS	1000	915	925	1000	21.65	902	21.31	0.34
	Rihand II STPS	1000	965	841	1033	22.50	938	22.33	0.17
	Dadri I STPS	840	593	466	664	12.65	527	12.63	0.02
	Dadri II STPS	980	960	675	1010	20.52	855	20.73	-0.22
	Unchahar I TPS	420	376	331	440	8.68	362	8.31	0.38
	Unchahar II TPS	420	404	305	441	9.05	377	8.68	0.38
	Unchahar III TPS	210	201	151	219	4.50	187	4.38	0.11
	ISTPP (Jhajjar)	1000	365	0	408	6.73	280	6.32	0.41
	Dadri GPS	830	799	399	700	13.63	568	13.95	-0.32
	Anta GPS	419	389	229	312	7.08	295	7.20	-0.12
	Auraiya GPS	663	610	231	310	6.69	279	6.80	-0.10
	Sub Total (A)	9782	8028	5986	8121	167.55	6981	166.16	1.39
B. NPC	NAPS	440	205	0	303	5.10	212	4.92	0.18
	RAPS- B	440	365	415	420	8.94	373	8.76	0.18
	RAPS- C	440	420	464	468	9.99	416	10.08	-0.09
	Sub Total (B)	1320	990	879	1191	24.03	1001	23.76	0.27
C. NHPC	Chamera I HPS	540	534	540	540	9.06	377	9.05	0.00
	Chamera II HPS	300	297	229	255	5.14	214	5.69	-0.55
	Bairasuil HPS	180	182	182	180	3.91	163	4.08	-0.17
	Salal-HPS	690	513	635	450	12.65	527	12.34	0.31
	Tanakpur-HPS	94	49	66	55	1.40	58	1.42	-0.02
	Uri-HPS	480	456	480	478	11.07	461	11.03	0.04
	Dhauliganga-HPS	280	277	278	0	3.75	156	3.57	0.17
	Dulhasti-HPS	390	388	417	408	8.96	373	9.36	-0.40
	Sewa-II HPS	120	80	84	84	1.91	79	1.92	-0.02
	Sub Total (C)	3074	2775	2911	2450	57.84	2410	58.47	-0.63
D. NJPC	Nathpa Jhakri	1500	1600	1607	1012	21.53	897	21.63	-0.10
	Sub Total (D)	1500	1600	1607	1012	21.53	897	21.63	-0.10
E. THDC	Tehri HPS	1000	430	273	0	4.78	199	4.87	-0.09
	Koteshwar HPS	400	300	302	87	2.50	104	2.40	0.10
	Sub Total (E)	1400	730	575	87	7.28	303	7.27	0.01
F. BBMB	Bhakra HPS	1480	686	1168	543	16.81	700	16.47	0.34
	Dehar HPS	990	386	495	330	9.72	405	9.26	0.46
	Pong HPS	396	128	243	123	3.13	130	3.08	0.05
	Sub Total (F)	2866	1201	1906	996	29.66	1236	28.82	0.84
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	154	0	1.66	69	1.56	0.10
	KWHEP HPS(IPP)	1000	0	500	398	11.64	485	12.00	-0.36
	Malana Stg-II HPS	100	0	36	34	0.74	31	0.00	0.74
	Shree Cement TPS	300	0	130	131	3.10	129	3.05	0.05
	Sub Total (G)	1592	0	820	563	17.14	714	16.61	0.53
H. Total Regional Entities (A-G)	21535	15324	14684	14420	325.03	13543	322.72	2.31	

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	800	1050	22.31	930	
	Guru Nanak Dev TPS(Bhatinda)	440	200	216	4.61	192	
	Guru Hargobind Singh TPS(L.mbt)	920	671	964	19.91	830	
	Thermal (Total)	2620	1671	2230	46.83	1951	
	Total Hydro	1148	423	711	11.45	477	
	Total Punjab	3768	2094	2941	58.27	2428	
Haryana	Panipat TPS	1367	890	1063	24.56	1023	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	270	392	8.01	334	
	RGTPP (kheldar) (IPP)	1200	376	508	12.16	507	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1536	1963	44.73	1864	
	Total Hydro	62	21	23	0.93	39	
	Total Haryana	5006	1557	1986	45.66	1902	
Rajasthan	kota TPS	1240	1035	1146	26.79	1116	
	suratgarh TPS	1500	952	1130	25.72	1072	
	Chabra TPS	500	180	215	5.04	210	
	Dholpur GPS	330	97	99	2.52	105	
	Ramgarh GPS	111	30	29	0.69	29	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	113	113	2.61	109	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	238	360	6.28	262	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2645	3092	69.64	2902	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	832	875	13.81	575	
	Biomass	91	45	45	0.67	28	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	877	920	14.48	603	
	Total Rajasthan	7767	3522	4012	84.11	3505	
	UP	Anpara TPS	1630	1210	1170	25.80	1075
		Obra TPS	1382	462	476	10.30	429
Paricha TPS		640	394	398	8.70	363	
Panki TPS		210	125	100	2.50	104	
Harduaganj TPS		665	0	220	3.70	154	
Tanda TPS (NTPC)		440	235	190	6.09	254	
Roza TPS (IPP)		1200	549	545	13.26	552	
Anpara-C (IPP)		1200	558	558	12.62	526	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	144	148	3.98	166	
Thermal (Total)		7817	3677	3805	86.94	3623	
Vishnuparyag HPS (IPP)		400	217	198	4.94	206	
Other Hydro		527	207	36	3.56	148	
Cogeneration		981	300	300	7.20	300	
Total UP		9725	4401	4339	102.64	4071	
Uttarakhand		Total Hydro	1303	667	671	16.98	708
	Total Uttarakhand	1303	667	671	16.98	708	
Delhi	Rajghat TPS	135	0	98	3.14	131	
	Delhi Gas Turbine	282	227	237	5.48	228	
	Pragati Gas Turbine	330	282	291	6.89	287	
	Rithala GPS	108	28	29	0.63	26	
	Bawana GPS	677	36	246	3.66	152	
	Badarpur TPS (NTPC)	705	480	565	11.32	472	
	Thermal (Total)	2237	1053	1466	31.11	1296	
	Total Delhi	2237	1053	1466	31.11	1296	
HP	Baspa HPS (IPP)	330	62	82	2.64	110	
	Malana HPS (IPP)	86	47	13	0.61	26	
	Other Hydro	589	383	342	9.58	399	
	Total HP	1005	492	437	13	535	
J & K	Baglihar HPS (IPP)	450	440	436	10.46	436	
	Other Hydro	323	166	155	3.63	151	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	606	591	14.09	587	
Total State Control Area Generation		31767	14392	16443	365.70	15032	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-647	4037	57.67	2403	
Total Regional Availability(Gross)		53302	28429	34900	748.40	30978	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7689	4977	130.35	5431
State Control Area Hydro	5368	2416	2469	59.84	2493
Total Regional Hydro	15500	10105	7446	190.19	7925

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	0	100	200	1.04	1.14	-0.10
Gwalior-Agra (D/C)	413	1037	1068	0	14.99	0.00	14.99
Zerda-Kankroli	-352	84	127	352	0.00	1.58	-1.58
Zerda-Bhinmal	-358	-1	228	424	0.00	0.57	-0.57
Malanpur-Auraiya	-168	45	45	178	0.00	0.78	-0.78
Badod-Kota/Morak	-159	52	52	159	0.20	0.00	0.20
Sub Total WR	-724	1217			16.23	4.07	12.16
Pusauli Bypass	-416	223	355	416	3.39	1.59	1.80
MZP- GKP (D/C)	100	922	1024	0	15.68	0.00	15.68
Patna-Balia(D/C)	185	598	650	0	11.30	0.00	11.30
B'Sharif-Balia (D/C)	37	534	591	0	8.11	0.00	8.11
Barh - Balia(D/C)	0	370	403	0	5.89	0.00	5.89
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	163	145	165	0	3.36	0.00	3.36
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	77	2820			47.82	2.31	45.51
Total IR Exch	-647	4037			64.05	6.38	57.67

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
34.01	0.55	34.56	0.13	-0.84	3.66	4.58	2.84	-2.84

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
41.19	1.91	43.10	45.51	12.16	57.67	4.32	10.25	14.57

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	0.80	13.50	92.00	79.30	23.40	7.20

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.69	18.03	49.41	1.21	49.90	0.47	0.19	50.50	49.70

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	22:24	403	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	432	17:29	400	02:04	0.0	0.0	19.2	1.5
Bareilly	400	431	18:01	393	00:30	0.0	0.0	14.7	0.0
Kanpur	400	423	18:00	394	11:16	0.0	0.0	0.8	0.0
Dadri	400	428	18:02	397	14:44	0.0	0.0	11.7	0.0
Ballabgarh	400	428	17:27	398	14:58	0.0	0.0	3.1	0.0
Bawana	400	427	17:27	400	14:44	0.0	0.0	4.2	0.0
Bassi	400	436	18:46	401	13:35	0.0	0.0	13.6	5.4
Hissar	400	421	17:27	395	12:07	0.0	0.0	0.2	0.0
Moga	400	426	06:05	402	22:37	0.0	0.0	13.1	0.0
Abdullapur	400	421	07:01	400	12:09	0.0	0.0	0.4	0.0
Nalagarh	400	426	07:02	405	14:58	0.0	0.0	13.3	0.0
Kishenpur	400	424	06:05	399	19:48	0.0	0.0	2.9	0.0
Wagoora	400	417	08:02	382	19:54	0.0	15.6	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	471.28	287.87	480.81	474.82	453.13	588.40
Pong	426.72	384.05	402.81	288.96	411.10	534.70	73.74	215.94
Tehri	829.79	740.04	749.35	44.52	818.65	982.26	125.91	160.00
Koteshwar	612.50	598.50	609.50	4.95	NA	NA	170.00	166.00
Chamera-I	760.00	748.75	754.30	NA	NA	NA	249.72	195.95
Rihand	268.22	252.98	257.50	179.00	254.48	56.10	NA	NA
RPS	352.80	343.81	348.97	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	500.42	NA	510.24	NA	210.68	123.66

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

1. Load crash of about 7000 MW was occurred in NR between 16.45 hrs to 18.15 hrs/ 12.05.2012 due to heavy storm.

XI. Weather Conditions For 12.05.2012 :

1. Heavy storm in Haryana , Part of punjab , Delhi , UP, Uttranchal .

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 : 12.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER