

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.05.2013
Date of Reporting : 10.05.2013

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
37391	2612	40003	50.09	34922	1919	36841	50.17	851.9	66.59

* 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	47.10	10.45		57.56	76.04	77.13	1.09	134.68	4.30
Haryana	54.57	0.60		55.17	78.40	76.52	-1.88	131.69	0.00
Rajasthan	91.77	0.10	12.89	104.76	57.66	54.15	-3.52	158.91	0.87
Delhi	30.69			30.69	65.22	64.10	-1.13	94.78	0.15
UP	124.09	6.25	9.60	139.94	95.00	96.50	1.50	236.43	58.85
Uttarakhand		15.66		15.66	18.96	18.76	-0.21	34.42	0.72
HP		14.54		14.54	11.67	9.06	-2.61	23.60	0.00
J & K		13.49	0.00	13.49	17.55	18.53	0.97	32.02	1.70
Chandigarh				0.00	4.71	5.34	0.62	5.34	0.00
Total	348.22	61.10	22.49	431.80	425.21	420.06	-5.16	851.86	66.59

* 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	6469	0	62	751	5703	150	25	570	14.82
Haryana	5818	0	-131	308	5048	0	-80	245	6.29
Rajasthan	6689	37	-292	328	6377	39	-172	91	7.68
Delhi	4207	0	102	-281	3671	0	-64	-372	-4.58
UP	9946	2475	449	92	10626	1730	181	1472	11.86
Uttarakhand	1644	0	-9	466	1358	0	40	363	9.02
HP	959	0	-140	-763	843	0	-160	-151	-9.01
J&K	1423	100	24	-128	1109	0	51	-133	-3.27
Chandigarh	236	0	-2	0	188	0	45	20	0.28
Total	37391	2612	63	772	34922	1919	-134	2104	33.09

* 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)	Schedule Net MU	UI Net MU	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1491	1844	1551	36.08	1503	35.80	0.29	
	Rihand I STPS	1000	915	970	991	22.00	917	21.96	0.04	
	Rihand II STPS	1000	965	1030	1042	23.14	964	23.16	-0.02	
	Rihand III STPS	500	335	0	506	7.56	315	8.04	-0.49	
	Dadri I STPS	840	751	815	708	16.88	703	18.03	-1.16	
	Dadri II STPS	980	545	800	613	12.50	521	12.75	-0.25	
	Unchahar I TPS	420	386	428	429	9.11	379	9.11	0.00	
	Unchahar II TPS	420	391	438	433	9.16	382	9.07	0.10	
	Unchahar III TPS	210	17	0	0	0.43	18	0.39	0.04	
	ISTPP (Jhajjar)	1500	940	921	694	16.13	672	16.67	-0.53	
	Dadri GPS	830	797	293	337	6.98	291	6.96	0.02	
	Anta GPS	419	389	193	196	4.71	196	4.55	0.15	
	Auraiya GPS	663	621	147	155	3.53	147	3.59	-0.06	
	Sub Total (A)	10782	8544	7879	7655	168.21	7009	170.08	-1.87	
	B. NPC	NAPS	440	297	338	344	7.19	300	7.13	0.06
		RAPS- B	440	400	443	445	9.62	401	9.60	0.02
RAPS- C		440	430	470	469	9.98	416	10.32	-0.34	
Sub Total (B)		1320	1127	1251	1258	26.79	1116	27.05	-0.26	
C. NHPC	Chamera I HPS	540	540	540	0	6.05	252	6.00	0.05	
	Chamera II HPS	300	303	312	177	5.33	222	5.73	-0.39	
	Chamera III HPS	231	231	227	0	4.14	173	3.58	0.56	
	Bairasuil HPS	180	182	182	160	2.25	94	2.50	-0.26	
	Salal-HPS	690	410	532	354	9.59	399	9.84	-0.25	
	Tanakpur-HPS	94	39	60	43	1.01	42	0.95	0.06	
	Uri-HPS	480	480	480	477	11.44	477	11.52	-0.09	
	Dhauliganga-HPS	280	280	278	0	3.07	128	3.07	0.00	
	Dulhasti-HPS	390	387	406	370	9.35	389	8.77	0.58	
	Sewa-II HPS	120	119	124	0	1.16	48	1.17	-0.01	
	Sub Total (C)	3305	2970	3141	1581	53.37	2224	53.13	0.24	
	D.NJPC	Nathpa Jhakri	1500	1605	1594	560	25.56	1065	25.50	0.06
Sub Total (D)		1500	1605	1594	560	25.56	1065	25.50	0.06	
E. THDC	Tehri HPS	1000	330	332	150	6.63	276	6.60	0.03	
	Koteshwar HPS	400	241	246	0	2.58	107	2.60	-0.02	
	Sub Total (E)	1400	571	578	150	9.21	384	9.20	0.01	
F. BBMB	Bhakra HPS	1480	873	1206	812	21.34	889	20.95	0.39	
	Dehar HPS	990	406	825	300	10.69	445	9.74	0.95	
	Pong HPS	396	10	60	0	0.27	11	0.25	0.02	
	Sub Total (F)	2866	1289	2091	1112	32.30	1346	30.94	1.36	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	100	110	2.17	90	1.40	0.77	
	KWHEP HPS(IPP)	1000	0	550	470	13.77	574	12.47	1.30	
	Malana Stg-II HPS	100	0	26	100	0.70	29	0.56	0.14	
	Shree Cement TPS	300	0	205	263	5.46	227	5.31	0.15	
	Budhil HPS(IPP)	70	0	0	69	0.98	41	0.82	0.16	
	Sub Total (G)	1662	0	881	1012	23.07	961	20.55	2.52	
H. Total Regional Entities (A-G)	22836	16106	17415	13328	338.51	14104	336.44	2.07		

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	842	840	18.78	783	
	Guru Nanak Dev TPS(Bhatinda)	440	341	338	7.27	303	
	Guru Hargobind Singh TPS(L.mbt)	920	954	967	21.05	877	
	Thermal (Total)	2620	2137	2145	47.10	1963	
	Total Hydro	1148	379	467	10.45	436	
	Total Punjab	3768	2516	2612	57.56	2398	
Haryana	Panipat TPS	1367	946	955	23.15	964	
	DCRTPP (Yamuna nagar)	600	282	273	6.60	275	
	Faridabad GPS (NTPC)	432	175	182	4.24	177	
	RGTPP (kheadar) (IPP)	1200	485	459	11.69	487	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	398	379	8.90	371	
	Thermal (Total)	4944	2286	2248	54.57	2274	
	Total Hydro	62	24	23	0.60	25	
		Total Haryana	5006	2310	2271	55.17	2299
	Rajasthan	kota TPS	1240	1181	1174	27.32	1138
suratgarh TPS		1500	943	1301	25.10	1046	
Chabra TPS		500	218	197	5.23	218	
Dholpur GPS		330	104	104	2.49	104	
Ramgarh GPS		111	111	139	3.41	142	
RAPS A (NPC)		300	180	180	4.31	180	
Barsingsar (NLC)		250	211	206	4.81	201	
Giral LTPS		250	94	94	2.31	96	
Rajwest LTPS (IPP)		1080	720	695	16.80	700	
VSLP LTPS (IPP)		135	0		0.00	0	
Thermal (Total)		5696	3762	4090	91.77	3824	
Total Hydro		550	0	0	0.10	4	
Wind power		2191	647	645	10.73	447	
Biomass		91	11	11	0.27	11	
Solar		201	0	0	1.89	79	
Renewable/Others (Total)		2483	658	656	12.89	537	
		Total Rajasthan	8729	4420	4746	104.76	4365
UP	Anpara TPS	1630	1225	1432	31.30	1304	
	Obra TPS	1288	494	464	11.80	492	
	Paricha TPS	1140	542	595	14.20	592	
	Panki TPS	210	77	153	2.80	117	
	Harduaganj TPS	665	376	390	9.20	383	
	Tanda TPS (NTPC)	440	398	402	9.77	407	
	Roza TPS (IPP)	1200	999	1022	24.11	1005	
	Anpara-C (IPP)	1200	522	509	12.39	516	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	363	364	8.51	355	
	Thermal (Total)	8223	4996	5331	124.09	5170	
	Vishnuparyag HPS (IPP)	400	208	188	4.37	182	
	Other Hydro	527	152	48	1.89	79	
	Cogeneration	981	400	400	9.60	400	
		Total UP	10131	5756	5967	139.94	5649
Uttarakhand	Total Hydro	1303	699	622	15.66	652	
	Total Uttarakhand	1303	699	622	15.66	652	
Delhi	Rajghat TPS	135	100	84	2.23	93	
	Delhi Gas Turbine	282	152	158	3.62	151	
	Pragati Gas Turbine	330	282	291	6.93	289	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	282	264	6.29	262	
	Badarpur TPS (NTPC)	705	665	470	11.62	484	
	Thermal (Total)	2232	1481	1267	30.69	1279	
		Total Delhi	2232	1481	1267	30.69	1279
HP	Baspa HPS (IPP)	330	155	155	3.64	152	
	Malana HPS (IPP)	86	32	89	0.73	30	
	Other Hydro	589	457	451	10.17	424	
		Total HP	1005	644	695	14.54	606
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436	
	Other Hydro	323	125	156	3.03	126	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	561	592	13.49	562
Total State Control Area Generation		33130	18387	18772	431.80	17810	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3748	4687	99.19	4133	
Total Regional Availability(Gross)		55966	39550	36787	869.49	36047	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8080	4083	137.07	5711
State Control Area Hydro	5368	2459	2447	61.10	2364
Total Regional Hydro	15731	10539	6530	198.17	8075

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	400	300	400	150	4.64	0.83	3.81
Gwalior-Agra (D/C)	1137	1132	1426	0	25.35	0.00	25.35
Zerda-Kankroli	-161	-196	0	316	0.00	2.51	-2.51
Zerda-Bhinmal	-100	-146	13	329	0.00	2.49	-2.49
Malanpur-Auraiya	-259	-62	0	311	0.00	2.49	-2.49
Badod-Kota/Morak	-115	-131	0	162	0.00	3.06	-3.06
Mundra-Mohindergarh(HVDC)	1433	1399	1436	0	34.17	0.00	34.17
Sub Total WR	2335	2296			64.16	11.36	52.80
Pusauli Bypass	-250	-150	0	250	0.00	5.08	-5.08
MZP- GKP (D/C)	380	718	908	0	15.70	0.00	15.70
Patna-Balia(D/C)	649	941	941	0	17.76	0.00	17.76
B'Sharif-Balia (D/C)	417	538	584	0	11.66	0.00	11.66
Pusauli-Balia	101	106	220	0	3.08	0.00	3.08
Gaya-Fatehpur (765 Kv)	0	146	201	6	1.24	0.00	1.24
Pusauli-Sahupuri	152	132	153	0	3.10	0.00	3.10
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.07	-1.07
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1413	2391			52.54	6.15	46.39
Total IR Exch	3748	4687			116.70	17.51	99.19

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.26	0.95	38.21	-0.23	4.20	7.69	2.96	-1.72	1.72

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
43.95	59.21	103.16	46.39	52.80	99.19	2.44	-6.41	-3.98

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	0.00	0.80	89.20	88.40	56.50	10.80

<----- 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				
50.47	6.03	49.58	16.25	50.03	0.19	0.13	50.44	49.82

VII. Voltage profile 400 kV

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	09:08	399	22:26	0.0	0.0	0.0	0.0
Gorakhpur	400	422	23:23	405	02:37	0.0	0.0	2.7	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	416	04:00	400	15:12	0.0	0.0	0.0	0.0
Dadri	400	415	04:00	397	11:18	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:00	401	15:13	0.0	0.0	2.2	0.0
Bawana	400	420	04:03	400	11:19	0.0	0.0	0.0	0.0
Bassi	400	428	03:59	404	12:48	0.0	0.0	14.8	0.0
Hissar	400	410	04:00	393	11:27	0.0	0.0	0.0	0.0
Moga	400	421	04:01	402	11:28	0.0	0.0	0.2	0.0
Abdullapur	400	412	01:58	283	15:52	0.1	0.1	0.0	0.0
Nalagarh	400	419	04:02	401	11:16	0.0	0.0	0.0	0.0
Kishenpur	400	416	04:01	400	09:54	0.0	0.0	0.0	0.0
Wagoora	400	416	04:00	394	20:15	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	767	22:13	724	15:23	0.0	0.0	100.0	100.0
Balia	765	775	20:44	715	07:38	0.0	0.0	100.0	100.0
Moga	765	802	04:01	767	11:27	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	05:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	05:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	05:42	0.0	37.1	0.0	0.0

IX. 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	476.13	347.70	471.82	298.24	417.45	767.10
Pong	426.72	384.05	400.37	230.85	403.05	288.96	42.96	18.46
Tehri	829.79	740.04	758.70	110.00	818.65	982.26	92.35	206.00
Koteshwar	612.50	598.50	600.75	0.63	NA	NA	209.00	171.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	174.49	169.21
Rihand	268.22	252.98	256.92	154.20	257.71	188.40	NA	NA
RPS	352.80	343.81	346.16	NA	348.64	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.03	NA	298.31	NA	NA	NA
RSD	527.91	487.91	507.20	NA	498.84	NA	174.35	164.78

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 09.05.2013 :

1.Hot & Dry weather.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 09.05.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER