

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.05.2013

Date of Reporting : 18.05.2013

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
37801	1525	39326	50.11	35962	1070	37032	50.05	879.2	39.92

* 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	45.44	10.00		55.43	87.16	88.72	1.56	144.15	0.00
Haryana	48.25	0.54		48.79	83.48	84.72	1.24	133.50	0.70
Rajasthan	85.77	0.00	26.82	112.60	54.87	47.81	-7.06	160.41	0.00
Delhi	29.93			29.93	67.93	65.52	-2.41	95.46	0.02
UP	126.04	9.42	8.40	143.86	106.26	105.31	-0.95	249.17	35.97
Uttarakhand		14.59		14.59	19.31	19.69	0.39	34.29	1.54
HP		17.21		17.21	8.83	7.46	-1.37	24.66	0.00
J & K		13.21	0.00	13.21	19.81	19.08	-0.73	32.29	1.70
Chandigarh				0.00	5.02	5.31	0.29	5.31	0.00
Total	335.43	64.96	35.22	435.61	452.66	443.62	-9.05	879.23	39.92

* 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	6401	0	295	925	5298		672	1109	26.28
Haryana	5814	0	67	278	5271	0	426	226	5.49
Rajasthan	6680	0	-593	125	6963	0	-456	99	4.11
Delhi	4162	0	-20	-253	3676	0	-35	-235	-4.27
UP	10512	1390	183	107	11214	1070	702	1265	10.45
Uttarakhand	1604	35	13	423	1360	0	-20	339	6.94
HP	969	0	-348	-699	852	0	-65	-347	-13.61
J&K	1419	100	-60	-115	1140	0	86	-220	-4.00
Chandigarh	242		-6	0	189		31	10	0.41
Total	37801	1525	-470	791	35962	1070	1340	2247	31.81

* 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	1913	2055	2073	46.50	1938	45.90	0.60	
	Rihand I STPS	1000	913	990	994	21.40	892	21.47	-0.07	
	Rihand II STPS	1000	965	1026	1038	22.85	952	22.97	-0.12	
	Rihand III STPS	500	480	513	502	11.40	475	11.40	0.00	
	Dadri I STPS	840	807	699	839	16.28	678	17.01	-0.73	
	Dadri II STPS	980	969	923	728	19.36	807	20.56	-1.20	
	Unchahar I TPS	420	397	411	385	8.81	367	8.93	-0.13	
	Unchahar II TPS	420	400	414	359	8.28	345	8.27	0.01	
	Unchahar III TPS	210	200	209	171	4.02	167	4.05	-0.03	
	ISTPP (Jhajjar)	1500	470	402	436	8.84	368	9.75	-0.91	
	Dadri GPS	830	798	367	388	8.52	355	8.77	-0.26	
	Anta GPS	419	390	252	209	5.29	220	5.51	-0.22	
	Auraiva GPS	663	620	147	158	3.50	146	3.67	-0.16	
	Sub Total (A)	10782	9321	8408	8280	185.03	7710	188.25	-3.22	
	B. NPC	NAPS	440	298	333	343	7.16	299	7.15	0.01
		RAPS- B	440	401	437	442	9.50	396	9.62	-0.12
RAPS- C		440	430	465	467	9.96	415	10.32	-0.36	
Sub Total (B)		1320	1129	1235	1252	26.63	1109	27.10	-0.47	
C. NHPC	Chamera I HPS	540	540	540	0	5.91	246	6.00	-0.10	
	Chamera II HPS	300	303	288	167	5.98	249	6.11	-0.13	
	Chamera III HPS	231	231	225	0	4.15	173	4.03	0.12	
	Bairasuil HPS	180	182	150	20	2.27	95	2.18	0.09	
	Salal-HPS	690	582	665	606	13.64	568	13.96	-0.32	
	Tanakpur-HPS	94	38	30	40	0.93	39	0.90	0.02	
	Uri-HPS	480	480	480	480	11.58	483	11.57	0.01	
	Dhauliganga-HPS	280	280	282	0	2.99	125	3.00	-0.01	
	Dulhasti-HPS	390	387	405	400	9.36	390	9.33	0.03	
	Sewa-II HPS	120	119	122	18	1.62	67	1.63	-0.01	
	Sub Total (C)	3305	3142	3187	1731	58.42	2434	58.72	-0.31	
	D.NJPC	Nathpa Jhakri	1500	1605	1593	551	31.00	1292	30.68	0.32
		Sub Total (D)	1500	1605	1593	551	31.00	1292	30.68	0.32
E. THDC	Tehri HPS	1000	485	487	0	6.62	276	6.60	0.02	
	Koteshwar HPS	400	262	266	0	2.76	115	2.75	0.00	
	Sub Total (E)	1400	747	753	0	9.38	391	9.35	0.03	
F. BBMB	Bhakra HPS	1480	756	1090	662	18.34	764	18.14	0.20	
	Dehar HPS	990	420	825	330	10.68	445	10.09	0.59	
	Pong HPS	396	164	296	120	3.98	166	0.25	3.73	
	Sub Total (F)	2866	1340	2211	1112	33.00	1375	28.48	4.52	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	141	107	2.22	92	1.87	0.35	
	KWHEP HPS(IPP)	1000	0	771	600	17.14	714	17.32	-0.18	
	Malana Stg-II HPS	100	0	45	70	0.75	31	0.68	0.07	
	Shree Cement TPS	300	0	254	132	4.29	179	4.48	-0.19	
	Budhil HPS(IPP)	70	0	0	0	0.80	33	0.71	0.09	
	Sub Total (G)	1662	0	1211	909	25.19	1050	25.06	0.13	
H. Total Regional Entities (A-G)	22836	17283	18598	13835	368.65	15360	367.65	1.00		

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	850	21.32	888	
	Guru Nanak Dev TPS(Bhatinda)	440	225	200	4.66	194	
	Guru Hargobind Singh TPS(L.mbt)	920	907	686	19.46	811	
	Thermal (Total)	2620	2182	1736	45.44	1893	
	Total Hydro	1148	373	377	10.00	417	
	Total Punjab	3768	2555	2113	55.43	2310	
Haryana	Panipat TPS	1367	930	949	22.81	950	
	DCRTPP (Yamuna nagar)	600	288	290	6.65	277	
	Faridabad GPS (NTPC)	432	190	178	4.32	180	
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	584	587	14.47	603	
	Thermal (Total)	4944	1992	2004	48.25	2010	
	Total Hydro	62	23	23	0.54	23	
		Total Haryana	5006	2015	2027	48.79	2033
	Rajasthan	kota TPS	1240	1078	1077	26.21	1092
suratgarh TPS		1500	940	1140	25.70	1071	
Chabra TPS		500	189	198	4.94	206	
Dholpur GPS		330	116	110	2.88	120	
Ramgarh GPS		111	117	129	3.38	141	
RAPS A (NPC)		300	180	180	4.27	178	
Barsingsar (NLC)		250	111	91	2.37	99	
Giral LTPS		250	0	0	0.05	2	
Rajwest LTPS (IPP)		1080	714	819	15.98	666	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5696	3445	3744	85.77	3574	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	828	1271	24.91	1038	
Biomass		91	28	28	0.68	28	
Solar		201	0	0	1.24	52	
		Renewable/Others (Total)	2483	856	1299	26.82	1118
		Total Rajasthan	8729	4301	5043	112.60	4692
UP	Anpara TPS	1630	1130	1178	24.70	1029	
	Obra TPS	1288	496	496	11.00	458	
	Paricha TPS	1140	951	864	19.30	804	
	Panki TPS	210	145	155	3.00	125	
	Harduaganj TPS	665	360	399	8.30	346	
	Tanda TPS (NTPC)	440	398	401	9.78	408	
	Roza TPS (IPP)	1200	995	999	24.02	1001	
	Anpara-C (IPP)	1200	805	716	18.13	755	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	320	401	7.81	325	
	Thermal (Total)	8223	5600	5609	126.04	5252	
	Vishnuparyag HPS (IPP)	400	298	227	5.57	232	
	Other Hydro	527	143	142	3.85	160	
	Cogeneration	981	350	350	8.40	350	
		Total UP	10131	6391	6328	143.86	5762
Uttarakhand	Total Hydro	1303	606	586	14.59	608	
	Total Uttarakhand	1303	606	586	14.59	608	
Delhi	Rajghat TPS	135	105	87	2.25	94	
	Delhi Gas Turbine	282	107	105	2.57	107	
	Pragati Gas Turbine	330	281	266	6.71	279	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	217	216	5.29	220	
	Badarpur TPS (NTPC)	705	605	580	13.11	546	
	Thermal (Total)	2232	1315	1254	29.93	1247	
		Total Delhi	2232	1315	1254	29.93	1247
	HP	Baspa HPS (IPP)	330	199	249	5.09	212
Malana HPS (IPP)		86	21	45	0.79	33	
Other Hydro		589	508	524	11.33	472	
		Total HP	1005	728	818	17.21	717
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437	
	Other Hydro	323	95	118	2.72	114	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	533	554	13.21	550
Total State Control Area Generation		33130	18444	18723	435.61	17918	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2825	4373	88.18	3674	
Total Regional Availability(Gross)		55966	39867	36931	892.44	36953	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8701	4171	151.90	6329
State Control Area Hydro	5368	2406	2500	64.96	2475
Total Regional Hydro	15731	11107	6671	216.87	8804

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	300	-150	300	300	1.37	3.08	-1.72
Gwalior-Agra (D/C)	648	1484	1533	0	26.54	0.00	26.54
Zerda-Kankroli	-105	-98	0	275	0.00	3.53	-3.53
Zerda-Bhinmal	-75	-77	34	254	0.00	2.61	-2.61
Malanpur-Auraiya	0	0	0	0	0.00	0.00	0.00
Badod-Kota/Morak	-121	-75	0	145	0.00	2.32	-2.32
Mundra-Mohindergarh(HVDC)	1433	1432	1436	0	34.70	0.00	34.70
Sub Total WR	2080	2516			62.60	11.54	51.06
Pusauli Bypass	-50	-50	0	100	0.00	1.29	-1.29
MZP- GKP (D/C)	344	824	958	0	16.96	0.00	16.96
Patna-Balia(D/C)	326	572	592	0	11.74	0.00	11.74
B'Sharif-Balia (D/C)	88	321	337	0	5.51	0.00	5.51
Pusauli-Balia	-73	27	30	76	0.00	0.26	-0.26
Gaya-Fatehpur (765 Kv)	4	36	317	23	2.01	0.00	2.01
Pusauli-Sahupuri	142	167	177	0	3.52	0.00	3.52
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	745	1857			39.73	2.61	37.12
Total IR Exch	2825	4373			102.33	14.16	88.18

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
32.01	0.98	32.99	0.57	6.75	8.09	-6.32	-0.93	0.93

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
40.72	55.68	96.40	37.12	51.06	88.18	-3.60	-4.62	-8.23

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	0.00	92.81	92.81	88.48	7.19

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.59	18.03	49.82	14.35	50.14	0.33	0.09	50.36	49.89

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	405	4:01	398	16:31	0.0	0.0	0.0	0.0
Gorakhpur	400	428	6:05	400	11:44	0.0	0.0	21.2	0.0
Bareilly	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kanpur	400	416	4:07	399	12:33	0.0	0.0	0.0	0.0
Dadri	400	413	6:02	395	15:10	0.0	0.0	0.0	0.0
Ballabgarh	400	421	6:04	400	15:10	0.0	0.0	0.1	0.0
Bawana	400	417	6:02	400	15:09	0.0	0.0	0.0	0.0
Bassi	400	422	3:43	402	23:07	0.0	0.0	2.3	0.0
Hissar	400	408	3:31	391	11:42	0.0	0.0	0.0	0.0
Moga	400	418	3:39	397	15:08	0.0	0.0	0.0	0.0
Abdullapur	400	415	6:03	398	11:40	0.0	0.0	0.0	0.0
Nalagarh	400	417	3:02	397	15:08	0.0	0.0	0.0	0.0
Kishenpur	400	413	3:39	395	15:09	0.0	0.0	0.0	0.0
Wagoora	400	411	3:39	390	6:27	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	758	4:11	720	9:27	0.0	0.0	100.0	100.0
Balia	765	781	18:48	712	11:43	0.0	0.0	100.0	100.0
Moga	765	781	3:40	745	15:10	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	5:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	5:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	5:42	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	474.65	345.61	470.18	272.43	531.85	640.98
Pong	426.72	384.05	399.80	216.87	402.51	281.22	47.52	282.57
Tehri	829.79	740.04	755.10	84.00	818.65	982.26	145.13	213.00
Koteshwar	612.50	598.50	604.00	1.88	611.20	6.20	200.00	176.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	189.14	160.11
Rihand	268.22	252.98	256.58	140.00	257.10	162.00	NA	NA
RPS	352.80	343.81	346.59	NA	349.12	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.88	NA	298.25	NA	NA	NA
RSD	527.91	487.91	507.38	NA	500.39	NA	186.07	172.02

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 17.05.2013 :

1. Hot 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 : 17.05.2013

पारी प्रभाती अश्विन्ता / SHIFT CHARGE ENGINEER