

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.06.2013
Date of Reporting : 24.06.2013

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
38689	1660	40349	50.01	39780	1386	41166	50.17	938.0	53.41

* 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:

UI [OD:(+ve), UD:(-ve)]

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	48.54	19.18		67.73	125.26	125.98	0.73	193.71	5.27
Haryana	46.00	0.63		46.63	107.91	107.50	-0.41	154.13	2.20
Rajasthan	68.69	0.00	28.79	97.48	65.52	63.94	-1.58	161.42	1.98
Delhi	26.21			26.21	80.29	76.70	-3.59	102.91	0.91
UP	117.10	2.32	3.60	123.01	113.24	110.75	-2.49	233.77	40.19
Uttarakhand		10.75		10.75	19.63	21.45	1.82	32.20	1.14
HP		22.55		22.55	3.95	2.08	-1.87	24.63	0.01
J & K		13.42	0.00	13.42	17.02	16.29	-0.74	29.71	1.70
Chandigarh				0.00	5.58	5.51	-0.08	5.51	0.00
Total	306.53	68.86	32.39	407.78	538.39	530.19	-8.21	937.97	53.41

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX IOD/Import: (+ve), UD/Export: (-ve)

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	STOA/PX transaction	
Punjab	8037	180	-149	1921	8123	150	-121	1913	46.23	
Haryana	6606	0	20	1062	6181	256	-327	1064	24.73	
Rajasthan	6160	0	-26	347	6893	0	-82	305	6.69	
Delhi	4515	20	-36	97	4379	50	-259	46	4.86	
UP	9457	1360	-205	103	10631	830	-188	1564	14.23	
Uttarakhand	1512	0	55	396	1326	100	118	231	7.08	
HP	893	0	-325	-885	975	0	-84	-1041	-22.33	
J&K	1267	100	-69	-285	1034	0	-98	-305	-6.29	
Chandigarh	243	0	-31	0	239	0	20	0	0.00	
Total	38689	1660	-767	2758	39780	1386	-1020	3777	75.20	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG:(-ve)]

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	Net MU
A. NTPC	Singrauli STPS	2000	1819	2091	1574	43.38	1807	43.67	-0.29
	Rihand I STPS	1000	408	517	323	9.74	406	9.69	0.05
	Rihand II STPS	1000	945	1039	1048	22.21	925	22.51	-0.30
	Rihand III STPS	500	470	508	505	11.12	463	11.19	-0.07
	Dadri I STPS	840	810	648	835	16.60	692	17.20	-0.60
	Dadri II STPS	980	971	976	905	20.41	851	21.15	-0.74
	Unchahar I TPS	420	399	394	434	8.50	354	9.21	-0.71
	Unchahar II TPS	420	201	208	212	4.29	179	4.52	-0.24
	Unchahar III TPS	210	200	199	210	4.27	178	4.40	-0.13
	ISTPP (Jhajjar)	1500	1410	812	847	17.88	745	18.27	-0.39
	Dadri GPS	830	800	515	507	11.19	466	11.45	-0.26
	Anta GPS	419	398	250	198	4.95	206	5.88	-0.92
	Auraiva GPS	663	627	282	272	6.42	267	6.43	-0.01
	Sub Total (A)	10782	9456	8439	7870	180.95	7539	185.55	-4.61
B. NPC	INAPS	440	290	324	337	6.97	290	6.96	0.01
	RAPS- B	440	385	429	433	9.31	388	9.24	0.07
	RAPS- C	440	400	451	461	9.83	410	9.60	0.23
	Sub Total (B)	1320	1075	1204	1231	26.11	1088	25.80	0.31
C. NHPC	Chamera I HPS	540	540	540	540	13.03	543	12.96	0.07
	Chamera II HPS	300	306	310	306	7.32	305	7.34	-0.02
	Chamera III HPS	231	222	233	77	4.93	206	5.32	-0.39
	Bairasul HPS	180	179	179	120	2.38	99	2.11	0.28
	Salal-HPS	690	662	672	672	16.08	670	15.89	0.19
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	474	470	465	11.23	468	11.38	-0.16
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	410	386	9.19	383	8.08	1.12
	Sewa-II HPS	120	119	122	0	1.05	44	1.06	0.00
	Sub Total (C)	3305	2889	2936	2566	65.21	2717	64.13	1.09
D. NJPC	Nathpa Jhakri	1500	1605	1607	1607	38.31	1596	38.51	-0.21
	Sub Total (D)	1500	1605	1607	1607	38.31	1596	38.51	-0.21
E. THDC	Tehri HPS	1000	780	786	789	18.43	768	18.50	-0.07
	Koteshwar HPS	400	384	382	384	7.55	315	7.60	-0.05
	Sub Total (E)	1400	1164	1168	1173	25.99	1083	26.10	-0.11
F. BBMB	Bhakra HPS	1480	1132	1258	1102	27.42	1143	27.16	0.26
	Dehar HPS	990	605	825	620	15.06	628	14.53	0.53
	Pong HPS	396	128	246	63	3.25	135	3.08	0.17
	Sub Total (F)	2866	1865	2329	1785	45.73	1905	44.77	0.96
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	169	4.92	205	4.61	0.31
	KWHEP HPS(IPP)	1000	0	1200	1197	28.46	1186	28.51	-0.05
	Malana Stg-II HPS	100	0	99	89	2.14	89	1.83	0.31
	Shree Cement TPS	300	0	264	262	6.34	264	6.37	-0.03
	Budhil HPS(IPP)	70	0	69	69	1.36	57	1.46	-0.10
	Sub Total (G)	1662	0	1862	1786	43.23	1801	42.78	0.44
	H. Total Regional Entities (A-G)	22836	18054	19545	18018	425.52	17730	427.65	-2.13

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	1188	1050	23.51	980
	Guru Nanak Dev TPS(Bhatinda)	440	207	210	4.41	184
	Guru Hargobind Singh TPS(L.mbt)	920	940	942	20.62	859
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2335	2202	48.54	2023
	Total Hydro	1148	644	782	19.18	799
	Total Punjab	3768	2979	2984	67.73	2822
Haryana	Panipat TPS	1367	621	621	14.81	617
	DCRTPP (Yamuna nagar)	600	278	282	6.56	273
	Faridabad GPS (NTPC)	432	170	178	4.24	177
	RGTPP (khedar) (IPP)	1200	555	993	20.40	850
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	0	0.00	0
	Thermal (Total)	4944	1624	2074	46.00	1917
	Total Hydro	62	23	27	0.63	26
	Total Haryana	5006	1647	2101	46.63	1943
	Rajasthan	kota TPS	1240	728	772	17.66
suratgarh TPS		1500	959	881	22.18	924
Chabra TPS		500	203	228	5.25	219
Dholpur GPS		330	0	0	0.00	0
Ramgarh GPS		111	63	67	1.65	69
RAPS A (NPC)		300	179	174	4.27	178
Barsingar (NLC)		250	107	108	2.48	103
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	596	717	15.20	634
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	0	0	0.00	0
Thermal (Total)		6956	2835	2947	68.69	2862
Total Hydro		550	0	0	0.00	0
Wind power		2191	902	1293	26.74	1114
Biomass		91	14	14	0.33	14
Solar		201	0	0	1.72	72
Renewable/Others (Total)		2483	916	1307	28.79	1200
Total Rajasthan		9989	3751	4254	97.48	4062
UP	Anpara TPS	1630	1195	1179	28.20	1175
	Obra TPS	1288	421	434	10.60	442
	Paricha TPS	1140	943	776	16.80	700
	Panki TPS	210	59	72	1.00	42
	Harduaganj TPS	665	374	410	8.50	354
	Tanda TPS (NTPC)	440	294	293	7.29	304
	Roza TPS (IPP)	1200	1022	999	24.15	1006
	Anpara-C (IPP)	1200	491	496	11.53	480
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	399	401	9.03	376
	Thermal (Total)	8223	5198	5060	117.10	4879
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	79	59	2.32	97
	Cogeneration	981	150	150	3.60	150
	Total UP	10131	5427	5269	123.01	5126
	Uttarakhand	Total Hydro	1303	514	477	10.75
Total Uttarakhand		1303	514	477	10.75	448
Delhi	Rajghat TPS	135	42	42	0.89	37
	Delhi Gas Turbine	282	188	188	4.36	181
	Pragati Gas Turbine	330	137	142	3.33	139
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	206	208	4.78	199
	Badarpur TPS (NTPC)	705	590	580	12.85	536
	Thermal (Total)	2232	1163	1160	26.21	1092
	Total Delhi	2232	1163	1160	26.21	1092
HP	Baspa HPS (IPP)	330	302	333	7.61	317
	Malana HPS (IPP)	86	85	66	1.65	69
	Other Hydro	589	583	593	13.29	554
	Total HP	1005	970	992	22.55	940
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436
	Other Hydro	323	110	128	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	546	564	13.42	559
Total State Control Area Generation		34390	16997	17801	407.78	16991
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4571	5615	118.38	4932
Total Regional Availability(Gross)		57226	41113	41434	951.68	39653

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9569	8586	210.76	8782
State Control Area Hydro	5368	2776	2901	68.86	2869
Total Regional Hydro	15731	12345	11487	279.61	11651

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	500	500	0	11.56	0.00	11.56
Gwalior-Agra (D/C)	1627	1983	1987	0	37.94	0.00	37.94
Zerda-Kankroli	3	-37	70	212	0.00	1.66	-1.66
Zerda-Bhinmal	-3	-67	107	279	0.00	1.69	-1.69
Malanpur-Auraiya	-96	0	0	97	0.00	1.26	-1.26
Badod-Kota/Morak	-17	-30	40	90	0.00	0.34	-0.34
Mundra-Mohindergarh(HVDC)	999	974	1001	0	24.09	0.00	24.09
Sub Total WR	2813	3323			73.59	4.95	68.64
Pusaali Bypass	-214	-220	0	342	0.00	4.82	-4.82
MZP- GKP (D/C)	584	740	806	0	16.74	0.00	16.74
Patna-Balia(D/C)	570	824	840	0	16.57	0.00	16.57
B Sharif-Balia (D/C)	301	525	552	0	10.37	0.00	10.37
Pusaali-Balia	-27	81	88	27	0.87	0.00	0.87
Gaya-Fatehpur (765 Kv)	120	33	120	0	1.02	0.00	1.02
Pusaali-Sahupuri	140	163	168	0	3.52	0.00	3.52
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	322	186	345	0	6.36	0.00	6.36
Sub Total ER	1758	2292			55.45	5.72	49.74
Total IR Exch	4571	5615			129.04	10.66	118.38

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
43.61	3.02	46.63	6.86	20.22	-0.08	9.95	3.75	-3.75

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
57.15	71.53	128.68	49.74	68.64	118.38	-7.42	-2.89	-10.30

VI. Frequency Profile ←----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	83.00	2.60	83.00	66.50	17.00

←----- 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					
50.50	6.03	49.72	19.43	50.06	0.23	0.14	50.49	49.90

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	408	05:59	396	00:19	0.0	0.0	0.0	0.0
Gorakhpur	400	424	07:50	399	00:00	0.0	0.0	15.0	0.0
Bareilly	400	418	18:08	396	22:10	0.0	0.0	0.0	0.0
Kanpur	400	421	18:05	399	20:46	0.0	0.0	0.2	0.0
Dadri	400	414	06:01	395	22:33	0.0	0.0	0.0	0.0
Ballabgarh	400	422	06:03	401	20:44	0.0	0.0	0.8	0.0
Bawana	400	416	06:06	397	22:05	0.0	0.0	0.0	0.0
Bassi	400	425	18:07	400	09:52	0.0	0.0	6.0	0.0
Hissar	400	407	06:05	388	20:47	0.0	1.2	0.0	0.0
Moga	400	412	18:02	397	20:44	0.0	0.0	0.0	0.0
Abdullapur	400	413	06:02	398	22:10	0.0	0.0	0.0	0.0
Nalagarh	400	408	06:02	397	20:47	0.0	0.0	0.0	0.0
Kishenpur	400	412	17:54	402	20:41	0.0	0.0	0.0	0.0
Wagoora	400	411	17:53	399	20:42	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	790	18:04	741	20:45	0.0	0.2	0.0	0.0
Balia	765	773	17:34	721	22:10	11.2	45.5	0.0	0.0
Moga	765	787	18:02	756	20:49	0.0	0.0	0.0	0.0
Agra	765	805	18:08	753	22:10	0.0	0.0	0.4	0.0
Bhiwani	765	786	06:02	749	20:49	0.0	0.0	0.0	0.0
Unnao	765	772	18:05	735	22:10	0.0	11.1	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	487.12	644.48	466.22	212.85	173.70	922.82
Pong	426.72	384.05	402.31	273.51	395.25	131.24	111.48	223.28
Tehri	829.79	740.04	777.75	297.05	818.65	982.26	459.80	512.00
Koteshwar	612.50	598.50	908.95	3.98	NA	NA	512.00	501.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	365.69	352.49
Rihand	268.22	252.98	254.81	69.00	254.63	61.90	NA	NA
RPS	352.80	343.81	348.32	NA	NA	NA	NA	18.58
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	17.92
RSD	527.91	487.91	513.10	NA	499.28	NA	285.89	415.83

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 23.06.2013 :

1. Hot and humid weather.

XIII. Synchronisation of new generating units :

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 :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.

1. Tanakpur (120 MW) closed down due to high silt level in river water.

Report for : 23.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER