

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.06.2013
Date of Reporting : 08.06.2013

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
36824	2113	38937	50.07	33773	-400	33373	50.26	867.4	40.02

* 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	32.54	10.90		43.44	103.91	103.41	-0.50	146.85	0.00
Haryana	41.57	0.69		42.25	76.59	77.25	0.66	119.51	0.32
Rajasthan	78.21	0.00	24.25	102.46	69.25	63.14	-6.11	165.60	1.12
Delhi	24.21			24.21	79.46	80.18	0.72	104.39	0.00
UP	115.11	11.88	5.40	132.39	106.50	107.59	1.09	239.98	36.88
Uttarakhand		16.03		16.03	15.60	12.29	-3.31	28.31	0.00
HP		22.20		22.20	4.68	3.86	-0.83	26.06	0.00
J & K		13.42	0.00	13.42	17.24	17.59	0.36	31.02	1.70
Chandigarh				0.00	5.95	5.69	-0.26	5.69	0.00
Total	291.63	75.12	29.65	396.40	479.18	471.00	-8.18	867.40	40.02

* 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	6640	0	105	1091	5598	0	-3	1052	32.95
Haryana	5736	33	405	884	4544	0	-388	1094	20.80
Rajasthan	6382	0	-567	468	6299	0	-720	488	11.16
Delhi	4489	0	-276	364	3834	0	220	92	6.41
UP	9389	1980	237	120	10240	-400	-37	1081	16.69
Uttarakhand	1588	0	138	155	997	0	-422	143	3.05
HP	979	0	-176	-1132	963	0	24	-1164	-25.35
J&K	1350	100	8	-417	1112	0	-109	-417	-10.07
Chandigarh	271	0	11	0	185	0	-23	0	0.52
Total	36824	2113	-115	1533	33773	-400	-1458	2370	56.16

* 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	1901	2089	1406	42.02	1751	41.62	0.39
	Rihand I STPS	1000	915	840	703	18.73	780	19.32	-0.60
	Rihand II STPS	1000	965	974	711	19.66	819	20.15	-0.49
	Rihand III STPS	500	475	508	353	9.72	405	10.08	-0.36
	Dadri I STPS	840	809	714	658	15.60	650	15.27	0.34
	Dadri II STPS	980	973	767	718	17.46	728	17.81	-0.35
	Unchahar I TPS	420	401	339	308	7.17	299	7.10	0.06
	Unchahar II TPS	420	199	184	155	3.48	145	3.47	0.01
	Unchahar III TPS	210	200	183	158	3.54	148	3.47	0.07
	ISTPP (Jhajhar)	1500	402	301	300	6.82	284	7.45	-0.63
	Dadri GPS	830	796	285	292	6.81	284	6.72	0.08
	Anta GPS	419	392	193	180	4.77	199	4.92	-0.15
	Auraiva GPS	663	616	142	143	3.37	140	3.37	0.00
	Sub Total (A)	10782	9043	7519	6085	159.13	6631	160.76	-1.63
B. NPC	NAPS	440	299	331	335	7.02	292	7.18	-0.16
	RAPS- B	440	387	434	428	9.23	385	9.29	-0.06
	RAPS- C	440	430	456	456	9.69	404	10.32	-0.64
	Sub Total (B)	1320	1116	1221	1219	25.93	1081	26.78	-0.85
C. NHPC	Chamera I HPS	540	540	540	540	13.01	542	12.96	0.05
	Chamera II HPS	300	310	311	311	7.40	308	7.40	-0.01
	Chamera III HPS	231	231	233	233	5.55	231	5.55	0.00
	Bairasul HPS	180	179	179	40	2.50	104	2.67	-0.17
	Salal-HPS	690	651	662	662	15.67	653	15.63	0.03
	Tanakpur-HPS	94	86	85	85	1.96	82	1.90	0.06
	Uri-HPS	480	476	472	468	11.40	475	11.47	-0.07
	Dhauliganga-HPS	280	280	280	238	6.65	277	6.58	0.08
	Dulhasti-HPS	390	387	404	399	9.27	386	9.39	-0.13
	Sewa-II HPS	120	119	121	0	1.06	44	1.08	-0.02
	Sub Total (C)	3305	3259	3287	2976	74.46	3102	74.63	-0.17
D. NJPC	Nathpa Jhakri	1500	1605	1619	1623	38.44	1602	38.52	-0.08
	Sub Total (D)	1500	1605	1619	1623	38.44	1602	38.52	-0.08
E. THDC	Tehri HPS	1000	555	552	556	12.43	518	12.50	-0.07
	Sub Total (E)	400	292	298	171	6.19	258	6.20	-0.01
F. BBMB	Bhakra HPS	1480	1098	1253	942	26.96	1123	26.36	0.60
	Dehar HPS	990	592	825	660	15.22	634	14.20	1.02
	Pong HPS	396	71	296	0	1.81	75	1.71	0.10
	Sub Total (F)	2866	1761	2374	1602	43.99	1833	42.27	1.72
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	232	218	4.84	202	4.61	0.23
	KWHEP HPS(IPP)	1000	0	1150	1163	28.45	1185	28.51	-0.06
	Malana Stg-II HPS	100	0	86	101	2.21	92	2.05	0.16
	Shree Cement TPS	300	0	256	262	6.27	261	6.41	-0.14
	Budhil HPS(IPP)	70	0	34	34	0.82	34	0.72	0.10
	Sub Total (G)	1662	0	1758	1778	42.59	1775	42.30	0.29
H. Total Regional Entities (A-G)	22836	17632	18628	16010	403.17	16799	403.96	-0.79	

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	740	730	15.61	650
	Guru Nanak Dev TPS(Bhatinda)	440	185	185	4.07	170
	Guru Hargobind Singh TPS(L.mbt)	920	693	469	12.86	536
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1618	1384	32.54	1356
	Total Hydro	1148	660	346	10.90	454
	Total Punjab	3768	2278	1730	43.44	1810
Haryana	Panipat TPS	1367	731	735	17.88	745
	DCRTPP (Yamuna nagar)	600	281	261	6.46	269
	Faridabad GPS (NTPC)	432	171	178	4.15	173
	RGTPP (khedar) (IPP)	1200	551	461	11.82	492
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	359	0	1.25	52
	Thermal (Total)	4944	2093	1635	41.57	1732
	Total Hydro	62	28	29	0.69	29
	Total Haryana	5006	2121	1664	42.25	1761
	Rajasthan	kota TPS	1240	805	866	20.68
suratgarh TPS		1500	1133	1086	28.09	1170
Chabra TPS		500	200	189	4.91	205
Dholpur GPS		330	128	119	2.68	112
Ramgarh GPS		111	60	18	1.28	53
RAPS A (NPC)		300	179	179	4.29	179
Barsingsar (NLC)		250	179	179	4.29	179
Giral LTPS		250	44	70	1.38	58
Rajwest LTPS (IPP)		1080	396	382	10.24	427
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	0	0	0.36	15
Thermal (Total)		6956	3124	3088	78.21	3259
Total Hydro		550	0	0	0.00	0
Wind power		2191	772	1396	21.95	915
Biomass		91	22	22	0.52	22
Solar		201	0	0	1.78	74
Renewable/Others (Total)		2483	794	1418	24.25	1010
Total Rajasthan	9989	3918	4506	102.46	4269	
UP	Anpara TPS	1630	1146	1139	27.20	1133
	Obra TPS	1288	481	446	11.10	463
	Paricha TPS	1140	807	811	18.50	771
	Panki TPS	210	68	68	1.60	67
	Harduaganj TPS	665	384	383	8.80	367
	Tanda TPS (NTPC)	440	292	290	6.84	285
	Roza TPS (IPP)	1200	796	815	19.49	812
	Anpara-C (IPP)	1200	551	673	14.18	591
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	315	315	7.41	309
	Thermal (Total)	8223	4840	4940	115.11	4796
	Vishnuparyag HPS (IPP)	400	0	436	8.55	356
	Other Hydro	527	188	140	3.33	139
	Cogeneration	981	225	225	5.40	225
	Total UP	10131	5253	5741	132.39	5160
	Uttarakhand	Total Hydro	1303	152	755	16.03
Total Uttarakhand		1303	152	755	16.03	668
Delhi	Rajghat TPS	135	107	51	1.60	67
	Delhi Gas Turbine	282	152	76	2.65	110
	Pragati Gas Turbine	330	283	259	6.60	275
	Rithala GPS	95	94	0	0.22	9
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	590	585	13.14	548
	Thermal (Total)	2232	1226	971	24.21	1009
	Total Delhi	2232	1226	971	24.21	1009
HP	Baspa HPS (IPP)	330	304	304	7.61	317
	Malana HPS (IPP)	86	81	88	1.96	82
	Other Hydro	589	543	511	12.63	526
	Total HP	1005	928	903	22.20	925
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	16422	16834	396.40	16160
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3350	2073	81.71	3404
Total Regional Availability(Gross)		57226	38400	34917	881.27	36363

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9598	8410	211.01	8792
State Control Area Hydro	5368	2502	2737	75.12	2774
Total Regional Hydro	15731	12100	11147	286.12	11566

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	150	300	500	0	4.97	0.00	4.97
Gwalior-Agra (D/C)	1452	845	1834	0	29.28	0.00	29.28
Zerda-Kankroli	1	-294	98	339	0.00	3.09	-3.09
Zerda-Bhinmal	20	-251	222	313	0.00	1.80	-1.80
Malanpur-Auraiya	-38	25	60	77	0.01	0.00	0.01
Badod-Kota/Morak	-13	-149	0	174	0.00	1.03	-1.03
Mundra-Mohindergarh(HVDC)	0	433	604	0	9.16	0.00	9.16
Sub Total WR	1572	909			43.42	5.92	37.49
Pusauli Bypass	400	100	400	0	6.33	0.00	6.33
MZP- GKP (D/C)	504	418	834	0	14.06	0.00	14.06
Patna-Balia(D/C)	585	448	817	0	13.90	0.00	13.90
B Sharif-Balia (D/C)	221	226	388	0	6.42	0.00	6.42
Pusauli-Balia	-91	-20	0	95	0.00	-1.18	-1.18
Gaya-Fatehpur (765 Kv)	12	-87	130	104	0.34	0.00	0.34
Pusauli-Sahupuri	141	166	176	0	3.89	0.00	3.89
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)	44	-47	182	69	1.34	0.00	1.34
Sub Total ER	1778	1164			46.28	2.07	44.21
Total IR Exch	3350	2073			89.70	7.99	81.71

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
33.87	3.68	37.56	-0.71	16.66	3.29	-1.27	-1.19	1.19
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
38.95	51.46	90.41	44.21	37.49	81.71	5.26	-13.97	-8.70

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	0.70	87.40	3.60	86.90	65.00	12.60

←----- 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					
50.39	17.05	49.60	22.11	50.05	0.20	0.13	50.34	49.87

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	414	02:41	400	23:13	0.0	0.0	0.0	0.0
Gorakhpur	400	425	07:53	401	23:52	0.0	0.0	21.7	0.0
Bareilly	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kanpur	400	425	04:02	400	23:20	0.0	0.0	11.4	0.0
Dadri	400	414	03:33	394	12:14	0.0	0.0	0.0	0.0
Ballabgarh	400	420	03:20	394	12:19	0.0	0.0	0.0	0.0
Bawana	400	415	03:34	394	12:23	0.0	0.0	0.0	0.0
Bassi	400	426	03:34	394	12:19	0.0	0.0	12.5	0.0
Hissar	400	407	20:26	387	12:14	0.0	1.1	0.0	0.0
Moga	400	415	19:03	398	09:26	0.0	0.0	0.0	0.0
Abdullapur	400	412	17:03	282	10:01	0.0	0.0	0.0	0.0
Nalagarh	400	410	02:59	394	12:19	0.0	0.0	0.0	0.0
Kishenpur	400	410	19:06	398	09:09	0.0	0.0	0.0	0.0
Wagoora	400	409	17:02	396	21:36	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	761	13:20	739	12:19	0.0	5.6	0.0	0.0
Balia	765	758	07:49	717	23:19	9.4	48.4	0.0	0.0
Moga	765	782	16:18	743	09:31	0.0	0.0	0.0	0.0
Agra	765	802	19:19	753	10:48	0.0	0.0	0.1	0.0
Bhiwani	765	778	19:06	751	23:25	0.0	0.0	0.0	0.0
Unnao	765	773	04:02	728	23:27	0.0	11.0	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	481.46	495.33	469.45	257.12	1396.56	967.59
Pong	426.72	384.05	399.98	216.87	399.06	197.21	312.87	126.77
Tehri	829.79	740.04	746.80	32.00	818.65	982.26	394.06	425.00
Koteshwar	612.50	598.50	607.90	3.98	NA	NA	437.00	417.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	369.91	353.19
Rihand	268.22	252.98	255.64	101.60	255.85	110.20	NA	NA
RPS	352.80	343.81	347.51	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	NA
RSD	527.91	487.91	510.33	NA	501.56	NA	320.21	230.41

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 07.06.2013 :

1. Hot & Humid weather in NR.

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 :

Report for : 07.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER