

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 16.07.2013
Date of Reporting : 17.07.2013

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
40936	2647	43583	49.83	39306	1650	40956	50.08	951.1	58.61

* 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	50.09	15.56		65.65	124.99	125.30	0.32	190.95	19.26
Haryana	69.17	0.22		69.39	98.97	98.63	-0.34	168.02	0.00
Rajasthan	83.47	0.79	15.53	99.79	49.08	46.51	-2.56	146.30	0.00
Delhi	23.91			23.91	82.87	79.77	-3.11	103.67	0.19
UP	119.13	4.41	1.20	124.74	124.81	121.83	-2.98	246.57	37.14
Uttarakhand		17.31		17.31	16.43	16.92	0.49	34.22	0.32
HP		24.16		24.16	1.00	0.02	-0.98	24.18	0.01
J & K		13.91	0.00	13.91	18.59	17.55	-1.03	31.47	1.70
Chandigarh				0.00	5.97	5.75	-0.23	5.75	0.00
Total	345.77	76.35	16.73	438.85	522.70	512.28	-10.42	951.13	58.61

* 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	STOA/PX transaction
Punjab	8234	865	21	1923	7872	600	9	1923	46.16	
Haryana	7429	0	-12	1621	7040	0	114	1041	34.98	
Rajasthan	6138	0	-161	-130	5620	0	-176	-81	-4.10	
Delhi	4512	2	53	452	3998	0	-277	194	9.77	
UP	10251	1680	-241	1036	10886	1050	-269	1640	19.76	
Uttarakhand	1558	0	86	156	1435	0	43	133	3.39	
HP	978	0	-41	-1206	910	0	10	-1226	-25.73	
J&K	1574	100	-34	-148	1349	0	-74	-141	-8.23	
Chandigarh	261	0	-13	0	196	0	-32	0	0.00	
Total	40936	2647	-341	3703	39306	1650	-652	3483	75.99	

* 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	UI Net MU
A. NTPC	Singrauli STPS	2000	1758	1867	1968	41.67	1736	41.22	0.45
	Rihand I STPS	1000	915	978	970	20.95	873	20.72	0.23
	Rihand II STPS	1000	970	1040	975	22.01	917	21.74	0.27
	Rihand III STPS	500	479	515	483	9.34	389	10.78	-1.44
	Dadri I STPS	840	810	658	628	15.25	636	15.36	-0.10
	Dadri II STPS	980	907	910	640	17.53	731	17.64	-0.11
	Unchahar I TPS	420	399	413	381	8.56	357	8.58	-0.02
	Unchahar II TPS	420	403	383	324	7.83	326	7.74	0.10
	Unchahar III TPS	210	201	176	153	3.74	156	3.80	-0.06
	ISTPP (Jhajjar)	1500	1425	706	664	14.88	620	15.09	-0.21
	Dadri GPS	830	781	383	385	9.03	376	9.50	-0.48
	Anta GPS	419	398	252	258	6.06	253	6.14	-0.08
	Auraiya GPS	663	611	303	308	7.08	295	7.19	-0.11
	Sub Total (A)	10782	10056	8584	8137	183.94	7664	185.50	-1.56
B. NPC	INAPS	440	156	179	182	3.72	155	3.74	-0.02
	RAPS- B	440	390	433	437	9.40	391	9.36	0.04
	RAPS- C	440	210	232	234	4.90	204	5.04	-0.14
	Sub Total (B)	1320	756	844	853	18.01	751	18.14	-0.13
C. NHPC	Chamera I HPS	540	534	540	180	10.88	453	10.80	0.08
	Chamera II HPS	300	300	304	304	7.23	301	7.21	0.02
	Chamera III HPS	231	231	140	230	5.46	227	5.54	-0.08
	Bairasul HPS	180	179	179	60	1.99	83	1.85	0.14
	Salal-HPS	690	656	656	656	15.66	653	15.75	-0.09
	Tanakpur-HPS	94	44	0	56	1.15	48	1.03	0.12
	Uri-HPS	480	450	455	444	10.76	448	10.71	0.04
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	378	9.38	391	9.34	0.04
	Sewa-II HPS	120	119	41	0	0.62	26	0.59	0.03
	Sub Total (C)	3305	2900	2719	2308	63.13	2630	62.82	0.30
D. NJPC	Nathpa Jhakri	1500	1605	1621	1622	38.42	1601	38.26	0.16
	Sub Total (D)	1500	1605	1621	1622	38.42	1601	38.26	0.16
E. THDC	Tehri HPS	1000	890	912	900	21.66	903	21.36	0.30
	Koteswar HPS	400	380	392	273	8.23	343	8.20	0.03
	Sub Total (E)	1400	1270	1304	1173	29.90	1246	29.56	0.34
F. BBMB	Bhakra HPS	1480	1347	1356	1361	32.70	1363	32.33	0.37
	Dehar HPS	990	611	825	600	15.09	629	14.66	0.43
	Pong HPS	396	175	312	66	4.47	186	4.20	0.27
	Sub Total (F)	2866	2133	2493	2027	52.26	2178	51.19	1.08
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	202	204	4.98	208	4.81	0.17
	KWHEP HPS(IPP)	1000	0	1197	1198	28.37	1182	28.48	-0.11
	Malana Stg-II HPS	100	0	113	113	2.69	112	2.50	0.19
	Shree Cement TPS	300	0	233	201	4.47	186	4.38	0.09
	Budhil HPS(IPP)	70	0	70	69	1.65	69	1.66	-0.01
	Sub Total (G)	1662	0	1815	1785	42.16	1757	41.84	0.33
H. Total Regional Entities (A-G)	22836	18719	19380	17905	427.82	17826	427.30	0.52	

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	1260	1060	26.98	1124
	Guru Nanak Dev TPS(Bhatinda)	440	187	195	4.15	173
	Guru Hargobind Singh TPS(L.mbt)	920	669	935	18.96	790
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2116	2190	50.09	2087
	Total Hydro	1148	885	510	15.56	648
	Total Punjab	3768	3001	2700	65.65	2735
Haryana	Panipat TPS	1367	400	382	9.32	388
	DCRTPP (Yamuna nagar)	600	278	264	6.27	261
	Faridabad GPS (NTPC)	432	304	379	7.46	311
	RGTPP (khedar) (IPP)	1200	1012	887	22.80	950
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	885	986	23.34	972
	Thermal (Total)	4944	2879	2898	69.17	2882
	Total Hydro	62	11	5	0.22	9
	Total Haryana	5006	2890	2903	69.39	2891
	Rajasthan	kota TPS	1240	831	797	20.05
suratgarh TPS		1500	804	759	18.97	790
Chabra TPS		500	188	182	4.67	195
Dholpur GPS		330	118	118	2.74	114
Ramgarh GPS		111	60	31	1.13	47
RAPS A (NPC)		300	176	176	4.25	177
Barsingar (NLC)		250	183	149	4.07	170
Giral LTPS		250	62	0	0.93	39
Rajwest LTPS (IPP)		1080	463	463	13.72	572
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	622	468	12.93	539
Thermal (Total)		6956	3507	3143	83.47	3478
Total Hydro		550	7	31	0.79	33
Wind power		2191	472	803	13.44	560
Biomass		91	29	29	0.69	29
Solar		201	0	0	1.40	58
Renewable/Others (Total)		2483	501	832	15.53	647
Total Rajasthan		9989	4015	4006	99.79	4158
UP		Anpara TPS	1630	1322	1378	28.80
	Obra TPS	1288	438	356	7.70	321
	Paricha TPS	1140	523	546	12.20	508
	Panki TPS	210	70	140	1.90	79
	Harduaganj TPS	665	395	405	8.60	358
	Tanda TPS (NTPC)	440	391	397	9.67	403
	Roza TPS (IPP)	1200	1053	999	24.17	1007
	Anpara-C (IPP)	1200	815	770	19.05	794
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	283	7.04	293
	Thermal (Total)	8223	5331	5274	119.13	4964
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	199	203	4.41	184
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5580	5527	124.74	5198
	Uttarakhand	Total Hydro	1303	775	728	17.31
Total Uttarakhand		1303	775	728	17.31	721
Delhi	Rajghat TPS	135	38	78	1.24	52
	Delhi Gas Turbine	282	186	189	4.48	187
	Pragati Gas Turbine	330	272	295	6.83	285
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	530	536	11.36	473
	Thermal (Total)	2232	1026	1098	23.91	996
	Total Delhi	2232	1026	1098	23.91	996
HP	Baspa HPS (IPP)	330	301	331	7.76	323
	Malana HPS (IPP)	86	104	100	2.40	100
	Other Hydro	589	607	570	13.99	583
	Total HP	1005	1012	1001	24.16	1007
J & K	Baglihar HPS (IPP)	450	436	440	10.57	440
	Other Hydro	323	140	139	3.34	139
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	576	579	13.91	580
Total State Control Area Generation		34390	18875	18542	438.85	18286
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5100	3247	91.01	3792
Total Regional Availability(Gross)		57226	43355	39694	957.68	39903

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9649	8645	219.75	9156
State Control Area Hydro	5368	3465	3057	76.35	3181
Total Regional Hydro	15731	13114	11702	296.10	12337

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	500	300	500	0	5.09	0.00	5.09
Gwalior-Agra (D/C)	1707	1260	1707	0	31.04	0.00	31.04
Zerda-Kankroli	-51	-111	0	214	0.00	2.81	-2.81
Zerda-Bhinmal	-25	-106	53	180	0.00	2.10	-2.10
Malanpur-Auraiya	-23	-63	0	98	0.00	1.32	-1.32
Badod-Kota/Morak	31	-22	35	81	0.00	1.03	-1.03
Mundra-Mohindergarh(HVDC)	994	693	996	0	20.40	0.00	20.40
Sub Total WR	3133	1951			56.53	7.27	49.27
Pusaui Bypass	-225	-376	0	376	0.00	6.22	-6.22
MZP- GKP (D/C)	700	586	888	0	16.76	0.00	16.76
Patna-Balia(D/C)	556	408	576	0	10.97	0.00	10.97
B Sharif-Balia (D/C)	367	263	451	0	7.78	0.00	7.78
Pusaui-Balia	-4	3	80	47	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	126	39	163	0	2.35	0.00	2.35
Pusaui-Sahupuri	185	196	197	0	4.58	0.00	4.58
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)	300	217	362	0	6.42	0.00	6.42
Sub Total ER	1967	1296			48.86	7.12	41.74
Total IR Exch	5100	3247			105.39	14.38	91.01

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
37.27	3.67	40.94	7.93	42.00	-0.80	-9.74	2.33	-2.33

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
50.40	61.92	112.32	41.74	49.27	91.01	-8.66	-12.65	-21.31

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	1.20	97.60	1.00	97.60	39.70	2.40

←----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.28	13.01	49.57	19.49	49.98	0.13	0.11	50.29	49.80

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	07:40	395	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	417	06:39	396	22:54	0.0	0.0	0.0	0.0
Bareilly	400	417	07:17	395	22:12	0.0	0.0	0.0	0.0
Kanpur	400	417	06:57	403	13:51	0.0	0.0	0.0	0.0
Dadri	400	413	06:57	397	13:51	0.0	0.0	0.0	0.0
Ballabgarh	400	421	06:05	403	13:51	0.0	0.0	0.9	0.0
Bawana	400	412	18:00	400	22:12	0.0	0.0	0.0	0.0
Bassi	400	424	04:01	405	19:47	0.0	0.0	18.5	0.0
Hissar	400	407	06:57	393	13:48	0.0	0.0	0.0	0.0
Moga	400	414	06:57	401	13:42	0.0	0.0	0.0	0.0
Abdullapur	400	411	16:12	400	00:12	0.0	0.0	0.0	0.0
Nalagarh	400	409	15:20	402	12:40	0.0	0.0	0.0	0.0
Kishenpur	400	418	06:09	406	13:51	0.0	0.0	0.0	0.0
Wagoora	400	419	06:05	395	20:36	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	768	07:32	737	13:40	0.0	6.5	0.0	0.0
Balia	765	762	23:47	726	22:24	0.8	17.6	0.0	0.0
Moga	765	791	06:07	765	13:51	0.0	0.0	0.0	0.0
Agra	765	800	06:07	759	19:49	0.0	0.0	0.0	0.0
Bhiwani	765	761	06:10	732	16:23	0.0	0.0	0.0	0.0
Unnao	765	765	07:17	729	22:21	0.0	17.1	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	498.09	1018.16	472.50	308.66	1367.22	1047.72
Pong	426.72	384.05	409.62	464.36	394.03	111.75	417.36	278.38
Tehri	829.79	740.04	790.10	454.00	818.65	982.26	798.15	551.00
Koteshwar	612.50	598.50	608.90	3.93	NA	NA	549.00	518.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	283.29	258.66
Rihand	268.22	252.98	254.51	57.30	254.17	44.30	NA	NA
RPS	352.80	343.81	349.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.72	144.00	501.50	144.00	322.70	428.12

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 16.07.2013 :

1.Normal 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.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.
3. MANERI BHALI STG-1(90MW)/Utrakhand closed down due to flush flooding.

Report for : 16.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER