

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.07.2013
Date of Reporting : 14.07.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
41062	2825	43887	50.07	39638	1850	41488	49.99	943.9	49.46

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	51.81	17.83		69.64	126.18	126.16	-0.01	195.80	16.54
Haryana	58.37	0.55		58.93	113.53	112.42	-1.12	171.34	0.00
Rajasthan	80.02	0.15	8.83	89.00	55.80	49.62	-6.17	138.63	0.00
Delhi	19.40			19.40	78.28	78.28	-0.34	97.67	0.14
UP	118.36	4.40	1.20	123.96	125.19	121.21	-3.97	245.17	29.75
Uttarakhand		14.14		14.14	20.30	19.76	-0.54	33.90	1.29
HP		23.98		23.98	0.88	1.01	0.14	24.99	0.04
J & K		13.77	0.00	13.77	20.17	16.98	-3.18	30.75	1.70
Chandigarh				0.00	6.02	5.68	-0.34	5.68	0.00
Total	327.95	74.82	10.03	412.80	546.67	531.13	-15.54	943.94	49.46

* 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	STOA/PX transaction	
Punjab	8572	750	39	1819	8013	550	-148	1866	44.46	
Haryana	7531	0	-101	1642	7073	0	-174	1388	35.62	
Rajasthan	5934	0	-622	-62	6131	0	67	-5	-0.53	
Delhi	4314	0	178	114	3751	0	-100	-356	-0.73	
UP	10291	1900	120	635	10813	1220	-185	1634	21.02	
Uttarakhand	1628	75	30	389	1394	80	14	282	7.68	
HP	969	0	-72	-1073	919	0	14	-1248	-26.58	
J&K	1565	100	-124	-50	1331	0	-41	-149	-5.20	
Chandigarh	258	0	-18	0	214	0	-9	-10	0.02	
Total	41062	2825	-569	3415	39638	1850	-560	3402	75.76	

* 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	1904	1988	2094	45.45	1894	45.53	-0.08	
	Rihand I STPS	1000	854	940	763	18.64	777	18.74	-0.09	
	Rihand II STPS	1000	970	958	1037	21.12	880	21.43	-0.31	
	Rihand III STPS	500	480	448	518	10.12	422	10.47	-0.34	
	Dadri I STPS	840	810	852	780	17.37	724	17.78	-0.41	
	Dadri II STPS	980	970	904	784	20.16	840	20.95	-0.79	
	Unchahar I TPS	420	396	357	365	8.04	335	8.20	-0.15	
	Unchahar II TPS	420	403	323	392	7.61	317	7.63	-0.03	
	Unchahar III TPS	210	201	156	161	3.73	155	3.74	-0.02	
	ISTPP (Jhajihar)	1500	1410	619	621	13.29	554	13.67	-0.38	
	Dadri GPS	830	781	379	388	8.98	374	9.57	-0.58	
	Anta GPS	419	323	258	256	6.11	255	6.31	-0.20	
	Auraiya GPS	663	611	301	307	7.13	297	7.23	-0.10	
	Sub Total (A)	10782	10113	8483	8466	187.75	7823	191.24	-3.49	
	B. NPC	NAPS	440	153	177	178	3.80	158	3.67	0.13
		RAPS- B	440	389	435	432	9.31	388	9.34	-0.03
RAPS- C		440	210	233	232	4.92	205	5.04	-0.12	
Sub Total (B)		1320	752	845	842	18.03	751	18.05	-0.02	
C. NHPC	Chamera I HPS	540	534	540	540	12.67	528	12.82	-0.15	
	Chamera II HPS	300	300	305	304	7.25	302	7.20	0.05	
	Chamera III HPS	231	231	233	231	5.53	230	5.47	0.06	
	Bairasuil HPS	180	179	179	70	2.51	105	1.76	0.75	
	Salal-HPS	690	656	659	656	15.75	656	15.75	0.00	
	Tanakpur-HPS	94	10	61	0	0.27	11	0.25	0.02	
	Uri-HPS	480	450	449	443	10.71	446	10.58	0.12	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasi-HPS	390	387	408	406	9.34	389	9.40	-0.07	
	Sewa-II HPS	120	119	0	41	0.81	34	0.83	-0.02	
Sub Total (C)	3305	2867	2834	2691	64.84	2702	64.06	0.78		
D. NJPC	Natpaa Jhakri	1500	1605	1623	1618	38.68	1612	38.40	0.28	
	Sub Total (D)	1500	1605	1623	1618	38.68	1612	38.40	0.28	
E. THDC	Tehri HPS	1000	880	888	885	21.15	881	21.12	0.03	
	Sub Total (E)	1400	1256	1269	1156	28.96	1207	28.92	0.04	
F. BBMB	Bhakra HPS	1480	1347	1360	1365	32.71	1363	32.33	0.38	
	Dehar HPS	990	612	825	610	15.06	628	14.68	0.38	
	Pong HPS	396	180	306	66	4.54	189	4.32	0.22	
	Sub Total (F)	2866	2139	2491	2041	52.31	2180	51.33	0.98	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	115	4.08	170	3.84	0.23	
	KWHEP HPS(IPP)	1000	0	1199	1200	28.43	1185	28.09	0.35	
	Malana Stg-II HPS	100	0	112	112	2.67	111	2.48	0.19	
	Shree Cement TPS	300	0	238	144	4.88	203	5.16	-0.29	
	Budhil HPS(IPP)	70	0	70	70	1.65	69	1.65	0.00	
	Sub Total (G)	1662	0	1849	1641	41.70	1738	41.22	0.48	
H. Total Regional Entities (A-G)	22836	18732	19394	18455	432.27	18011	433.23	-0.96		

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	1200	27.44	1143	
	Guru Nanak Dev TPS(Bhatinda)	440	206	147	3.99	166	
	Guru Hargobind Singh TPS(L.mbt)	920	928	930	20.38	849	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2394	2277	51.81	2159	
	Total Hydro	1148	871	600	17.83	743	
	Total Punjab	3768	3265	2877	69.64	2902	
Haryana	Panipat TPS	1367	389	377	9.19	383	
	DCRTPP (Yamuna nagar)	600	275	258	6.24	260	
	Faridabad GPS (NTPC)	432	337	393	8.53	355	
	RGTPP (khedar) (IPP)	1200	935	862	20.98	874	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	521	527	13.44	560	
	Thermal (Total)	4944	2457	2417	58.37	2432	
	Total Hydro	62	20	20	0.55	23	
		Total Haryana	5006	2477	2437	58.93	2455
Rajasthan	kota TPS	1240	983	1055	24.06	1003	
	suratgarh TPS	1500	930	1073	22.93	955	
	Chabra TPS	500	191	222	4.79	200	
	Dholpur GPS	330	107	131	2.73	114	
	Ramgarh GPS	111	33	85	1.96	82	
	RAPS A (NPC)	300	176	176	4.23	176	
	Barsingar (NLC)	250	157	87	2.92	122	
	Giral LTSPS	250	35	137	1.73	72	
	Rajwest LTSPS (IPP)	1080	561	625	14.68	612	
	VSLP LTSPS (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	3173	3591	80.02	3334	
	Total Hydro	550	0	0	0.15	6	
	Wind power	2191	854	64	7.38	308	
	Biomass	91	17	17	0.41	17	
	Solar	201	0	0	1.04	43	
	Renewable/Others (Total)	2483	871	81	8.83	368	
		Total Rajasthan	9989	4044	3672	89.00	3708
	UP	Anpara TPS	1630	1202	1177	28.60	1192
Obra TPS		1288	320	436	8.60	358	
Paricha TPS		1140	634	603	14.40	600	
Panki TPS		210	140	144	3.30	138	
Harduaganj TPS		665	297	354	7.60	317	
Tanda TPS (NTPC)		440	294	370	8.22	342	
Roza TPS (IPP)		1200	999	806	21.57	899	
Anpara-C (IPP)		1200	807	812	18.50	771	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	365	314	7.57	315	
Thermal (Total)		8223	5058	5016	118.36	4932	
Vishnuparyag HPS (IPP)		400	0	0	0.00	0	
Other Hydro		527	218	204	4.40	183	
Cogeneration		981	50	50	1.20	50	
		Total UP	10131	5326	5270	123.96	5165
Uttarakhand	Total Hydro	1303	679	580	14.14	589	
	Total Uttarakhand	1303	679	580	14.14	589	
Delhi	Rajghat TPS	135	30	18	0.77	32	
	Delhi Gas Turbine	282	72	74	1.77	74	
	Pragati Gas Turbine	330	293	270	7.16	298	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	465	430	9.70	404	
	Thermal (Total)	2232	860	792	19.40	808	
	Total Delhi	2232	860	792	19.40	808	
HP	Baspa HPS (IPP)	330	304	304	7.54	314	
	Malana HPS (IPP)	86	101	103	2.45	102	
	Other Hydro	589	604	566	14.00	583	
		Total HP	1005	1009	973	23.98	999
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436	
	Other Hydro	323	130	140	3.30	137	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	566	576	13.77	574
Total State Control Area Generation		34390	18226	17177	412.80	17200	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4521	4679	106.76	4448	
Total Regional Availability(Gross)		57226	42141	40311	951.84	39660	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9758	8933	219.97	9166
State Control Area Hydro	5368	3363	2953	74.82	3118
Total Regional Hydro	15731	13121	11886	294.80	12283

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	250	500	0	6.68	0.00	6.68
Gwalior-Agra (D/C)	1440	1426	1949	0	31.74	0.00	31.74
Zerda-Kankroli	-71	46	127	164	0.00	0.54	-0.54
Zerda-Bhinmal	63	65	202	162	0.00	0.02	-0.02
Malanpur-Auraiya	-48	-44	0	102	0.00	1.52	-1.52
Badod-Kota/Morak	-50	42	76	107	0.00	0.56	-0.56
Mundra-Mohindergarh(HVDC)	1448	1419	1449	0	32.29	0.00	32.29
Sub Total WR	3082	3204			70.71	2.64	68.07
Pusauli Bypass	-254	-326	0	327	0.00	5.58	-5.58
MZP- GKP (D/C)	652	666	860	0	17.06	0.00	17.06
Patna-Balia(D/C)	439	443	584	0	10.74	0.00	10.74
B'Sharif-Balia (D/C)	261	277	402	0	6.71	0.00	6.71
Pusauli-Balia	-1	7	53	23	0.04	0.00	0.04
Gaya-Fatehpur (765 Kv)	36	45	105	9	1.40	0.00	1.40
Pusauli-Sahupuri	137	163	191	0	3.75	0.00	3.75
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)	207	240	267	0	5.46	0.00	5.46
Sub Total ER	1439	1475			45.16	6.47	38.69
Total IR Exch	4521	4679			115.88	9.11	106.76

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
35.41	3.74	39.16	2.12	41.37	-0.56	-2.89	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
43.05	88.95	132.00	38.69	68.07	106.76	-4.36	-20.87	-25.23

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	82.60	0.10	82.60	77.20	17.40

<----- 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					
50.47	6.06	49.79	20.37	50.09	0.21	0.11	50.45	49.98

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	404	07:48	395	19:56	0.0	0.0	0.0	0.0
Gorakhpur	400	418	07:00	399	22:24	0.0	0.0	0.0	0.0
Bareilly	400	420	06:06	390	13:55	0.0	0.0	0.0	0.0
Kanpur	400	419	06:05	401	09:27	0.0	0.0	0.0	0.0
Dadri	400	414	06:05	394	14:38	0.0	0.0	0.0	0.0
Ballabgarh	400	423	06:05	400	14:36	0.0	0.0	6.6	0.0
Bawana	400	417	06:05	397	12:44	0.0	0.0	0.0	0.0
Bassi	400	428	04:03	406	14:22	0.0	0.0	24.4	0.0
Hissar	400	407	06:05	388	12:39	0.0	3.3	0.0	0.0
Moga	400	413	06:06	395	14:19	0.0	0.0	0.0	0.0
Abdullapur	400	412	06:07	395	12:39	0.0	0.0	0.0	0.0
Nalagarh	400	408	06:05	392	14:29	0.0	0.0	0.0	0.0
Kishenpur	400	419	06:09	401	20:31	0.0	0.0	0.0	0.0
Wagoora	400	416	06:05	392	20:35	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	777	07:00	772	13:00	0.0	0.0	0.0	0.0
Balia	765	766	06:10	727	20:38	0.1	46.5	0.0	0.0
Moga	765	792	06:08	756	14:46	0.0	0.0	0.0	0.0
Agra	765	809	06:04	727	23:34	0.0	0.0	7.7	0.0
Bhiwani	765	791	06:09	753	14:26	0.0	0.0	0.0	0.0
Unnao	765	768	07:10	732	13:52	0.0	30.0	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	497.87	1006.54	472.13	303.45	1419.29	1051.38
Pong	426.72	384.05	408.96	464.36	394.00	111.75	421.75	288.77
Tehri	829.79	740.04	NA	425.58	818.65	982.26	749.00	549.00
Koteswar	612.50	598.50	608.90	3.93	NA	NA	549.00	518.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	271.90	343.15
Rihand	268.22	252.98	254.54	58.40	254.20	45.50	325.13	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.92	144.00	501.32	144.00	322.70	376.27

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.07.2013 :

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(280MW)/Uttarakhand closed down due to flush flooding.

Report for : 13.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER