

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.07.2013
Date of Reporting : 12.07.2013

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
39729	2555	42284	50.01	36661	1220	37881	50.08	918.3	49.89

* 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	46.17	16.24		62.41	121.65	121.53	-0.11	183.95	0.00
Haryana	44.49	0.60		45.09	115.15	116.34	1.19	161.43	0.00
Rajasthan	79.43	0.51	11.09	91.03	61.97	59.78	-2.18	150.81	0.00
Delhi	25.85			25.85	75.31	73.32	-1.98	98.97	0.52
UP	111.27	3.53	2.40	117.20	113.13	113.51	0.38	230.70	45.00
Uttarakhand		12.32		12.32	19.01	19.67	0.66	31.99	2.67
HP		22.97		22.97	1.06	1.38	0.32	24.35	0.00
J & K		13.77	0.00	13.77	20.77	16.44	-4.34	30.21	1.70
Chandigarh				0.00	5.71	5.87	0.16	5.87	0.00
Total	307.01	69.95	13.49	390.44	533.75	527.84	-5.91	918.28	49.89

* 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	8388	0	-44	1819	6920	0	-36	1866	44.46	
Haryana	7226	0	-117	1664	6380	0	-258	1560	35.17	
Rajasthan	5705	0	-221	-18	6490	0	-270	-4	-0.24	
Delhi	4488	0	25	90	3534	0	-49	-317	0.31	
UP	9672	2190	-132	340	9647	1220	-10	600	10.39	
Uttarakhand	1508	265	143	294	1332	0	39	263	6.31	
HP	956	0	16	-1223	888	0	38	-1174	-25.61	
J&K	1516	100	-140	-5	1270	0	-51	-253	-5.12	
Chandigarh	270	0	3	0	201	0	-8	-20	-0.12	
Total	39729	2555	-467	2962	36661	1220	-605	2521	65.56	

* 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 [OG:(+ve), UG: (-ve)]	
									Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1935	2102	2090	46.32	1930	46.44	-0.12	
	Rihand I STPS	1000	483	524	460	11.01	459	11.26	-0.25	
	Rihand II STPS	1000	969	1043	858	21.90	912	22.41	-0.51	
	Rihand III STPS	500	480	524	446	11.07	461	11.22	-0.16	
	Dadri I STPS	840	810	878	761	16.33	680	17.08	-0.75	
	Dadri II STPS	980	968	983	727	19.72	822	20.74	-1.01	
	Unchahar I TPS	420	396	415	349	8.64	360	9.00	-0.35	
	Unchahar II TPS	420	401	429	355	8.60	358	8.85	-0.25	
	Unchahar III TPS	210	200	215	155	4.16	173	4.23	-0.07	
	ISTPP (Jhajihar)	1500	1410	921	674	15.24	635	16.02	-0.78	
	Dadri GPS	830	781	381	388	9.02	376	9.78	-0.75	
	Anta GPS	419	332	254	262	6.14	256	6.22	-0.08	
	Auraiya GPS	663	610	302	305	7.11	296	7.08	0.04	
	Sub Total (A)	10782	9774	8971	7830	185.26	7719	190.31	-5.05	
B. NPC	NAPS	440	153	180	182	3.74	156	3.67	0.07	
	RAPS- B	440	380	433	439	9.35	389	9.12	0.23	
	RAPS- C	440	210	235	235	4.93	206	5.04	-0.11	
	Sub Total (B)	1320	743	848	856	18.02	751	17.83	0.19	
C. NHPC	Chamera I HPS	540	540	540	540	12.97	541	12.96	0.01	
	Chamera II HPS	300	300	302	301	6.44	268	5.82	0.61	
	Chamera III HPS	231	231	231	231	4.65	194	4.68	-0.03	
	Bairasuil HPS	180	179	180	30	1.80	75	2.01	-0.21	
	Salal-HPS	690	656	656	659	15.73	655	15.75	-0.02	
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00	
	Uri-HPS	480	450	447	445	10.75	448	10.44	0.31	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	406	404	9.36	390	9.34	0.02	
	Sewa-II HPS	120	119	40	0	0.82	34	0.93	-0.11	
Sub Total (C)	3305	2862	2802	2610	62.51	2605	61.92	0.59		
D. NJPC	Natpaa Jhakri	1500	1605	1624	1621	38.62	1609	38.52	0.10	
	Sub Total (D)	1500	1605	1624	1621	38.62	1609	38.52	0.10	
E. THDC	Tehri HPS	1000	865	873	864	20.80	867	20.70	0.10	
	Sub Total (E)	1400	1241	1258	1135	28.90	1204	28.80	0.10	
F. BBMB	Bhakra HPS	1480	1347	1359	1356	32.61	1359	32.33	0.28	
	Dehar HPS	990	599	825	620	14.73	614	14.38	0.35	
	Pong HPS	396	173	252	132	4.39	183	4.16	0.23	
	Sub Total (F)	2866	2119	2436	2108	51.73	2155	50.86	0.87	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	229	153	3.95	164	4.35	-0.40	
	KWHEP HPS(IPP)	1000	0	1196	1196	28.49	1187	28.51	-0.02	
	Malana Stg-II HPS	100	0	112	90	2.20	92	2.09	0.12	
	Shree Cement TPS	300	0	249	154	5.12	213	5.23	-0.11	
	Budhil HPS(IPP)	70	0	69	70	0.98	41	0.97	0.01	
	Sub Total (G)	1662	0	1855	1663	40.73	1697	41.14	-0.41	
H. Total Regional Entities (A-G)	22836	18344	19794	17823	425.77	17741	429.38	-3.61		

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	1255	810	22.55	939
	Guru Nanak Dev TPS(Bhatinda)	440	205	180	4.05	169
	Guru Hargobind Singh TPS(L.mbt)	920	939	686	19.58	816
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2399	1676	46.17	1924
	Total Hydro	1148	752	579	16.24	677
	Total Punjab	3768	3151	2255	62.41	2601
Haryana	Panipat TPS	1367	413	378	9.73	406
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	381	199	5.83	243
	RGTPP (khedar) (IPP)	1200	465	440	10.97	457
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	501	1005	17.95	748
	Thermal (Total)	4944	1760	2022	44.49	1854
	Total Hydro	62	15	23	0.60	25
		Total Haryana	5006	1775	2045	45.09
Rajasthan	kota TPS	1240	1040	909	23.94	997
	suratgarh TPS	1500	948	943	24.10	1004
	Chabra TPS	500	204	192	4.76	199
	Dholpur GPS	330	131	131	2.83	118
	Ramgarh GPS	111	31	30	0.88	37
	RAPS A (NPC)	300	176	176	4.22	176
	Barsingar (NLC)	250	85	0	0.04	2
	Giral LTPS	250	135	91	2.69	112
	Rajwest LTPS (IPP)	1080	536	686	15.97	666
	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	3286	3158	79.43	3310
	Total Hydro	550	0	0	0.51	21
	Wind power	2191	270	994	8.81	367
	Biomass	91	21	21	0.50	21
	Solar	201	0	0	1.78	74
Renewable/Others (Total)	2483	291	1015	11.09	462	
	Total Rajasthan	9989	3577	4173	91.03	3793
UP	Anpara TPS	1630	1175	1032	27.30	1138
	Obra TPS	1288	417	416	10.10	421
	Paricha TPS	1140	509	556	12.70	529
	Panki TPS	210	63	131	2.10	88
	Harduaganj TPS	665	154	0	2.20	92
	Tanda TPS (NTPC)	440	395	285	8.32	347
	Roza TPS (IPP)	1200	999	725	21.29	887
	Anpara-C (IPP)	1200	817	779	18.59	775
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	365	8.66	361
	Thermal (Total)	8223	4894	4289	111.27	4636
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	218	170	3.53	147
	Cogeneration	981	100	100	2.40	100
		Total UP	10131	5212	4559	117.20
Uttarakhand	Total Hydro	1303	522	522	12.32	514
	Total Uttarakhand	1303	522	522	12.32	514
Delhi	Rajghat TPS	135	0	27	0.31	13
	Delhi Gas Turbine	282	126	108	2.79	116
	Pragati Gas Turbine	330	291	264	6.94	289
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	262	222	6.08	253
	Badarpur TPS (NTPC)	705	425	420	9.53	397
	Thermal (Total)	2232	1104	1041	25.65	1069
	Total Delhi	2232	1104	1041	25.65	1069
HP	Baspa HPS (IPP)	330	333	302	7.56	315
	Malana HPS (IPP)	86	102	53	1.93	80
	Other Hydro	589	562	553	13.48	562
	Total HP	1005	997	908	22.97	957
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	16904	16079	390.44	16268
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5019	3088	98.73	4114
Total Regional Availability(Gross)		57226	41717	36990	914.94	38123

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9657	8913	216.40	9017
State Control Area Hydro	5368	3070	2778	69.95	2914
Total Regional Hydro	15731	12727	11691	286.34	11931

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	Import	Export	
Vindhychal B/B	300	250	500	100	5.59	0.29	5.29		
Gwalior-Agra (D/C)	1580	959	1825	0	29.63	0.00	29.63		
Zerda-Kankroli	144	-56	175	94	0.00	0.48	-0.48		
Zerda-Bhinmal	144	-57	187	57	0.00	1.14	-1.14		
Malanpur-Auraiya	-58	-74	0	94	0.00	1.42	-1.42		
Badod-Kota/Morak	50	-46	65	52	0.00	0.50	-0.50		
Mundra-Mohindergarh(HVDC)	1448	1252	1450	0	31.53	0.00	31.53		
Sub Total WR	3608	2228			66.75	3.84	62.91		
Pusauli Bypass	-379	-446	0	446	0.00	9.10	-9.10		
MZP- GKP (D/C)	630	700	874	0	17.30	0.00	17.30		
Patna-Balia(D/C)	410	305	548	0	9.46	0.00	9.46		
B'Sharif-Balia (D/C)	232	194	390	0	6.16	0.00	6.16		
Pusauli-Balia	-32	-8	14	55	0.00	0.50	-0.50		
Gaya-Fatehpur (765 Kv)	92	7	189	0	2.35	0.00	2.35		
Pusauli-Sahupuri	126	140	153	0	2.99	0.00	2.99		
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)	370	8	413	0	8.06	0.00	8.06		
Sub Total ER	1411	860			46.31	10.49	35.82		
Total IR Exch	5019	3088			113.06	14.32	98.73		

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
37.59	3.77	41.37	2.89	39.47	-4.95	-8.05	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
41.64	81.02	122.66	35.82	62.91	98.73	-5.82	-18.11	-23.93

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	87.90	0.60	87.90	74.10	12.10

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					
50.52	23.03	49.74	19.41	50.07	0.17	0.11	50.41	49.96

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	409	02:08	399	22:07	0.0	0.0	0.0	0.0
Gorakhpur	400	419	17:46	404	22:25	0.0	0.0	0.0	0.0
Bareilly	400	418	23:03	395	14:19	0.0	0.0	0.0	0.0
Kanpur	400	420	04:02	400	12:20	0.0	0.0	0.0	0.0
Dadri	400	415	03:59	394	14:18	0.0	0.0	0.0	0.0
Ballabgarh	400	424	03:59	399	14:37	0.0	0.0	7.3	0.0
Bawana	400	416	03:56	397	14:38	0.0	0.0	0.0	0.0
Bassi	400	426	03:59	405	12:20	0.0	0.0	9.4	0.0
Hissar	400	407	04:03	388	14:36	0.0	1.6	0.0	0.0
Moga	400	415	03:58	398	09:58	0.0	0.0	0.0	0.0
Abdullapur	400	410	23:01	394	14:33	0.0	0.0	0.0	0.0
Nalagarh	400	407	23:02	390	14:34	0.0	0.0	0.0	0.0
Kishenpur	400	416	04:03	377	11:23	0.0	0.0	0.0	0.0
Wagoora	400	415	06:03	394	20:45	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	781	04:03	746	12:20	0.0	0.0	0.0	0.0
Balia	765	766	17:06	727	12:20	0.1	39.2	0.0	0.0
Moga	765	800	23:02	763	12:20	0.0	0.0	0.0	0.0
Agra	765	806	03:58	755	12:23	0.0	0.0	2.4	0.0
Bhiwani	765	793	23:02	762	14:35	0.0	0.0	0.0	0.0
Unnao	765	761	23:05	729	11:58	0.0	39.6	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	497.38	994.96	471.43	293.05	1469.98	1050.07
Pong	426.72	384.05	408.83	454.47	393.83	106.94	455.84	285.29
Tehri	829.79	740.04	787.45	715.00	818.65	982.26	633.13	546.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	248.97	351.88
Rihand	288.22	252.98	254.42	65.50	254.17	44.30	325.13	NA
RPS	352.80	343.81	349.00	NA	NA	NA	NA	54.71
Jawahar Sagar	298.70	295.78	298.12	NA	NA	NA	NA	7.36
RSD	527.91	487.91	512.12	144.00	499.33	124.80	363.98	461.48

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 11.07.2013 :

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)/Utrakhand closed down due to flush flooding.

Report for : 11.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER