

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.07.2013
Date of Reporting : 24.07.2013

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
39861	4223	44084	49.99	37451	1160	38611	50.13	917.5	55.89

* 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	49.03	16.91		65.94	125.90	125.77	-0.13	191.71	11.46
Haryana	45.88	0.75		46.63	108.14	108.41	0.27	155.04	0.00
Rajasthan	78.99	0.28	7.89	87.16	53.60	50.23	-3.38	137.39	0.00
Delhi	19.99			19.99	79.27	76.68	-2.59	96.67	0.05
UP	113.48	4.77	1.20	119.45	126.98	125.55	-1.42	245.00	39.85
Uttarakhand		14.37		14.37	16.23	17.07	0.84	31.44	2.84
HP		23.83		23.83	1.39	-0.96	-2.34	22.87	0.00
J & K		13.91	0.00	13.91	19.02	17.64	-1.38	31.55	1.70
Chandigarh				0.00	6.28	5.86	-0.42	5.86	0.00
Total	307.37	74.81	9.09	391.28	536.80	526.26	-10.55	917.53	55.89

* 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	8135	690	-139	1857	7986	0	-41	1924	45.59	
Haryana	7008	0	-162	1710	6117	0	205	1633	35.82	
Rajasthan	5935	0	-36	-18	5522	0	-123	10	-0.27	
Delhi	4413	8	95	246	3446	0	-207	-65	5.47	
UP	10280	3185	75	346	10643	1160	-197	1359	16.37	
Uttarakhand	1395	240	128	159	1328	0	70	-12	1.36	
HP	899	0	-47	-1126	837	0	-122	-1205	-25.64	
J&K	1518	100	-90	-143	1372	0	-43	-235	-7.81	
Chandigarh	278	0	6	0	201	0	-35	-30	-0.06	
Total	39861	4223	-170	3030	37451	1160	-493	3378	70.83	

* 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
A. NTPC	Singrauli STPS	2000	1735	1866	1463	38.98	1624	38.86	0.12
	Rihand I STPS	1000	920	980	725	19.03	793	18.70	0.32
	Rihand II STPS	1000	970	1036	769	20.54	856	20.58	-0.04
	Rihand III STPS	500	484	516	374	9.94	414	9.93	0.01
	Dadri I STPS	840	810	836	622	15.12	630	15.92	-0.80
	Dadri II STPS	980	975	988	715	19.44	810	19.66	-0.22
	Unchahar I TPS	420	399	405	396	8.42	351	8.68	-0.27
	Unchahar II TPS	420	403	433	352	7.41	309	7.48	-0.07
	Unchahar III TPS	210	201	217	164	3.71	155	3.75	-0.03
	ISTPP (Jhajhar)	1500	1460	649	640	13.94	581	14.46	-0.53
	Dadri GPS	830	786	559	573	13.23	551	13.51	-0.28
	Anta GPS	419	401	391	398	9.28	387	9.40	-0.12
	Auraiya GPS	663	612	300	310	7.10	296	7.20	-0.10
	Sub Total (A)	10782	10154	9176	7501	186.13	7756	188.13	-2.00
B. NPC	NAPS	440	157	174	175	3.70	154	3.77	-0.06
	RAPS- B	440	391	433	442	9.38	391	9.38	0.00
	RAPS- C	440	210	231	246	4.99	208	5.04	-0.05
	Sub Total (B)	1320	758	838	863	18.07	753	18.19	-0.12
C. NHPC	Chamera I HPS	540	534	540	540	12.86	536	12.82	0.05
	Chamera II HPS	300	300	306	304	7.26	303	7.30	-0.04
	Chamera III HPS	231	231	232	232	5.53	230	5.45	0.08
	Bairasuil HPS	180	179	180	120	2.08	87	2.01	0.07
	Salal-HPS	690	663	667	667	15.91	663	15.88	0.03
	Tanakpur-HPS	94	92	90	91	2.19	91	2.23	-0.03
	Uri-HPS	480	318	360	245	7.13	297	6.96	0.17
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	406	409	9.39	391	9.33	0.06
	Sewa-II HPS	120	119	120	0	1.12	47	1.06	0.07
Sub Total (C)	3305	2823	2901	2608	63.47	2645	63.03	0.44	
D. NJPC	Natpaa Jhakri	1500	1605	1623	1625	38.71	1613	38.52	0.19
	Sub Total (D)	1500	1605	1623	1625	38.71	1613	38.52	0.19
E. THDC	Tehri HPS	1000	990	990	995	23.95	998	23.76	0.19
	Sub Total (E)	1400	1361	1370	1365	32.25	1344	32.06	0.19
F. BBMB	Bhakra HPS	1480	1353	1357	1357	32.75	1365	32.47	0.28
	Dehar HPS	990	604	825	610	14.70	613	14.49	0.21
	Pong HPS	396	218	372	123	5.50	229	5.23	0.27
	Sub Total (F)	2866	2175	2554	2090	52.95	2206	52.19	0.76
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	140	4.72	197	4.32	0.39
	KWHEP HPS(IPP)	1000	0	1192	1200	28.54	1189	28.51	0.03
	Malana Stg-II HPS	100	0	113	107	2.62	109	2.41	0.21
	Shree Cement TPS	300	0	193	201	4.37	182	4.24	0.13
	Budhil HPS(IPP)	70	0	73	71	1.70	71	1.63	0.07
	Sub Total (G)	1662	0	1801	1719	41.95	1748	41.12	0.84
H. Total Regional Entities (A-G)	22836	18875	20263	17771	433.55	18064	433.24	0.30	

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	26.75	1114	
	Guru Nanak Dev TPS(Bhatinda)	440	90	102	1.62	67	
	Guru Hargobind Singh TPS(L.mbt)	920	922	934	20.66	861	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2272	2096	49.03	2043	
	Total Hydro	1148	733	675	16.91	705	
	Total Punjab	3768	3005	2771	65.94	2748	
Haryana	Panipat TPS	1367	600	591	14.08	587	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	190	192	4.19	175	
	RGTPP (khedar) (IPP)	1200	375	371	9.12	380	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	739	672	18.49	770	
	Thermal (Total)	4944	1904	1826	45.88	1912	
	Total Hydro	62	30	30	0.75	31	
		Total Haryana	5006	1934	1856	46.63	1943
	Rajasthan	kota TPS	1240	851	782	19.29	804
suratgarh TPS		1500	848	763	18.74	781	
Chabra TPS		500	140	193	4.08	170	
Dholpur GPS		330	126	126	2.78	116	
Ramgarh GPS		111	64	108	2.31	96	
RAPS A (NPC)		300	176	176	4.26	178	
Barsingar (NLC)		250	181	183	4.07	169	
Giral LTPS		250	66	69	1.61	67	
Rajwest LTPS (IPP)		1080	383	383	9.22	384	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	598	482	12.65	527	
Thermal (Total)		6956	3433	3265	78.99	3291	
Total Hydro		550	7	0	0.28	11	
Wind power		2191	241	567	5.26	219	
Biomass		91	30	30	0.71	30	
Solar		201	0	0	1.92	80	
Renewable/Others (Total)		2483	271	597	7.89	329	
		Total Rajasthan	9989	3711	3862	87.16	3632
UP		Anpara TPS	1630	853	1259	21.70	904
	Obra TPS	1288	516	496	11.10	463	
	Paricha TPS	1140	412	693	13.10	546	
	Panki TPS	210	135	160	3.30	138	
	Harduaganj TPS	665	383	393	8.00	333	
	Tanda TPS (NTPC)	440	391	380	9.66	402	
	Roza TPS (IPP)	1200	999	824	21.99	916	
	Anpara-C (IPP)	1200	812	678	18.30	762	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	235	6.34	264	
	Thermal (Total)	8223	4825	5118	113.48	4728	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	196	190	4.77	199	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5071	5358	119.45	4977
	Uttarakhand	Total Hydro	1303	485	658	14.37	599
Total Uttarakhand		1303	485	658	14.37	599	
Delhi	Rajghat TPS	135	0	43	0.72	30	
	Delhi Gas Turbine	282	70	73	1.76	73	
	Pragati Gas Turbine	330	234	263	6.18	258	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	570	495	11.33	472	
	Thermal (Total)	2232	874	874	19.99	833	
		Total Delhi	2232	874	874	19.99	833
HP	Baspa HPS (IPP)	330	333	303	7.50	312	
	Malana HPS (IPP)	86	97	85	2.16	90	
	Other Hydro	589	142	600	14.18	591	
		Total HP	1005	572	988	23.83	993
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	16228	16946	391.28	16303	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5613	4087	102.47	4269	
Total Regional Availability(Gross)		57226	42104	38804	927.29	38637	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9983	9135	223.27	9303
State Control Area Hydro	5368	2599	3120	74.81	3117
Total Regional Hydro	15731	12582	12255	298.08	12420

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	500	500	0	7.29	0.00	7.29
Gwalior-Agra (D/C)	1624	1368	1954	0	34.13	0.00	34.13
Zerda-Kankroli	111	-156	116	245	0.00	1.89	-1.89
Zerda-Bhinmal	147	-147	167	229	0.00	0.80	-0.80
Malanpur-Auraiya	-67	-54	0	79	0.00	1.16	-1.16
Badod-Kota/Morak	33	-81	75	110	0.00	0.61	-0.61
Mundra-Mohindergarh(HVDC)	1449	1052	1449	0	27.79	0.00	27.79
Sub Total WR	3797	2482			69.21	4.47	64.75
Pusauli Bypass	-171	-230	0	341	0.00	5.40	-5.40
MZP- GKP (D/C)	694	678	724	0	15.21	0.00	15.21
Patna-Balia(D/C)	567	466	695	0	11.47	0.00	11.47
B'Sharif-Balia (D/C)	315	316	525	0	7.47	0.00	7.47
Pusauli-Balia	-16	21	84	16	0.54	0.20	0.35
Gaya-Fatehpur (765 Kv)	0	31	75	0	0.21	0.00	0.21
Pusauli-Sahupuri	139	180	185	0	3.85	0.00	3.85
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)	326	183	326	0	5.46	0.00	5.46
Sub Total ER	1816	1605			44.21	6.49	37.72
Total IR Exch	5613	4087			113.43	10.96	102.47

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
31.45	3.73	35.18	6.95	42.29	2.37	-16.92	2.49	-2.49

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
46.99	73.51	120.50	37.72	64.75	102.47	-9.27	-8.76	-18.04

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	89.90	1.30	88.70	64.80	10.10

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					
50.47	6.07	49.53	21.10	50.04	0.17	0.12	50.46	49.82

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	413	07:02	399	21:08	0.0	0.0	0.0	0.0
Gorakhpur	400	419	08:13	397	22:45	0.0	0.0	0.0	0.0
Bareilly	400	417	07:05	394	14:25	0.0	0.0	0.0	0.0
Kanpur	400	420	07:07	399	21:09	0.0	0.0	0.0	0.0
Dadri	400	414	06:07	391	14:40	0.0	0.0	0.0	0.0
Ballabgarh	400	422	04:01	399	14:39	0.0	0.0	7.9	0.0
Bawana	400	415	03:52	395	14:25	0.0	0.0	0.0	0.0
Bassi	400	428	04:01	405	19:44	0.0	0.0	36.6	0.0
Hissar	400	420	00:00	406	00:00	0.0	0.0	0.0	0.0
Moga	400	416	18:08	394	14:12	0.0	0.0	0.0	0.0
Abdullapur	400	410	18:08	397	12:11	0.0	0.0	0.0	0.0
Nalagarh	400	414	04:03	398	14:13	0.0	0.0	0.0	0.0
Kishenpur	400	418	06:07	404	20:15	0.0	0.0	0.0	0.0
Wagoora	400	416	06:05	396	20:30	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	771	06:07	726	21:10	0.3	43.1	0.0	0.0
Balia	765	766	04:04	715	22:31	10.7	51.4	0.0	0.0
Moga	765	780	18:08	740	14:11	0.0	2.0	0.0	0.0
Agra	765	801	06:09	750	12:14	0.0	0.0	0.1	0.0
Bhiwani	765	793	18:08	750	14:43	1.2	1.2	0.0	0.0
Unnao	765	758	07:05	725	21:09	1.2	69.9	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	500.82	1127.29	474.98	350.94	1488.49	1022.95
Pong	426.72	384.05	413.11	600.05	392.21	84.61	1639.49	339.66
Tehri	829.79	740.04	804.15	685.04	818.65	982.26	946.50	574.00
Koteswar	612.50	598.50	609.50	4.21	NA	NA	541.00	551.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	275.60	345.97
Rihand	268.22	252.98	254.72	65.50	254.26	47.90	NA	NA
RPS	352.80	343.81	350.04	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.42	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.32	144.00	500.93	144.00	412.80	298.01

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 23.07.2013 :
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. Vishnuprayag(UPPCL) (400 MW) Closed due to High Silt level in river water.
3. MANERI BHALI STG-1(90MW)/Uttarakhand closed down due to flush flooding.

Report for : 23.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER