

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.07.2013
Date of Reporting : 20.07.2013

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
41069	2444	43513	49.99	40751	2000	42751	50.09	963.6	51.59

* 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)] Consumption Shortages *	
	Thermal	Hydro	Renewable/others \$	Total				(Net MU)	(MU)
Punjab	51.56	17.17		68.73	124.92	125.46	0.54	194.19	22.26
Haryana	60.50	0.66		61.16	112.32	110.89	-1.43	172.05	0.19
Rajasthan	77.43	0.72	31.36	109.51	46.99	40.91	-6.08	150.42	0.00
Delhi	21.29			21.29	85.46	82.66	-2.79	103.95	0.00
UP	115.65	4.23	1.20	121.08	128.18	125.54	-2.64	246.62	27.35
Uttarakhand		17.16		17.16	16.93	16.67	-0.27	33.82	0.00
HP		23.56		23.56	1.78	1.93	0.15	25.49	0.10
J & K		13.91	0.00	13.91	18.40	17.24	-1.16	31.15	1.70
Chandigarh				0.00	5.96	5.90	-0.06	5.90	0.00
Total	326.44	77.40	32.56	436.40	540.93	527.20	-13.73	963.59	51.59

* 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	8592	940	85	1883	8015	600	3	1920	45.91	
Haryana	7338	64	-521	1657	7502	0	-75	1125	35.40	
Rajasthan	6095	0	-350	-113	6307	0	-311	-90	-2.47	
Delhi	4510	0	-10	269	4048	0	23	-105	6.94	
UP	10098	1340	-232	642	10974	1400	14	1851	22.47	
Uttarakhand	1621	0	156	258	1440	0	-10	116	4.20	
HP	997	0	-15	-1097	930	0	26	-1219	-25.01	
J&K	1550	100	-47	-144	1325	0	-93	-136	-7.56	
Chandigarh	268	0	-3	0	211	0	-18	0	0.15	
Total	41069	2444	-937	3355	40751	2000	-441	3462	80.02	

* 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	1727	1882	1871	41.30	1721	41.21	0.09	
	Rihand I STPS	1000	915	948	961	20.36	849	20.75	-0.39	
	Rihand II STPS	1000	919	869	962	20.12	838	20.49	-0.37	
	Rihand III STPS	500	480	508	414	10.15	423	10.33	-0.18	
	Dadri I STPS	840	810	863	836	17.27	720	17.43	-0.15	
	Dadri II STPS	980	970	952	918	20.34	847	20.75	-0.41	
	Unchahar I TPS	420	399	396	355	8.35	348	8.52	-0.17	
	Unchahar II TPS	420	403	321	311	7.53	314	7.61	-0.08	
	Unchahar III TPS	210	201	163	156	3.55	148	3.59	-0.04	
	ISTPP (Jhajihar)	1500	1465	683	900	15.53	647	16.00	-0.47	
	Dadri GPS	830	781	418	387	9.10	379	9.42	-0.32	
	Anta GPS	419	398	395	393	9.12	380	9.27	-0.15	
	Auraiya GPS	663	606	308	305	7.17	299	7.18	-0.01	
	Sub Total (A)	10782	10073	8706	8769	189.89	7912	192.55	-2.66	
	B. NPC	NAPS	440	157	178	177	3.76	156	3.77	-0.01
		RAPS- B	440	391	435	434	9.37	390	9.38	-0.01
		RAPS- C	440	210	233	234	4.90	204	5.04	-0.14
Sub Total (B)		1320	758	846	845	18.03	751	18.19	-0.16	
C. NHPC	Chamera I HPS	540	534	540	540	10.18	424	10.23	-0.05	
	Chamera II HPS	300	300	305	306	7.27	303	7.31	-0.04	
	Chamera III HPS	231	231	230	220	5.47	228	5.47	0.00	
	Bairasuil HPS	180	179	179	60	1.77	74	1.75	0.02	
	Salal-HPS	690	650	652	667	15.56	648	15.57	-0.01	
	Tanakpur-HPS	94	78	85	80	1.83	76	1.88	-0.04	
	Uri-HPS	480	375	392	362	8.69	362	9.06	-0.37	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	387	407	404	9.38	391	9.38	-0.01	
	Sewa-II HPS	120	119	41	0	0.52	22	0.54	-0.02	
Sub Total (C)	3305	2853	2831	2639	60.67	2528	61.19	-0.51		
D. NJPC	Natpaa Jhakri	1500	1605	1624	1620	38.69	1612	38.48	0.21	
	Sub Total (D)	1500	1605	1624	1620	38.69	1612	38.48	0.21	
E. THDC	Tehri HPS	1000	920	927	758	18.99	791	18.70	0.29	
	Sub Total (E)	1400	1215	1212	1028	25.89	1079	25.78	0.11	
F. BBMB	Bhakra HPS	1480	1344	1361	1359	32.87	1370	32.26	0.61	
	Dehar HPS	990	369	825	600	9.37	390	8.86	0.51	
	Pong HPS	396	197	372	66	4.99	208	4.73	0.26	
	Sub Total (F)	2866	1911	2558	2025	47.23	1968	45.85	1.38	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	219	231	5.00	208	4.44	0.56	
	KWHEP HPS(IPP)	1000	0	1199	1197	28.46	1186	28.51	-0.06	
	Malana Stg-II HPS	100	0	113	113	2.72	113	2.53	0.19	
	Shree Cement TPS	300	0	175	200	4.14	172	4.07	0.07	
	Budhil HPS(IPP)	70	0	0	65	1.41	59	1.64	-0.22	
	Sub Total (G)	1662	0	1706	1806	41.72	1738	41.19	0.54	
H. Total Regional Entities (A-G)	22836	18415	19483	18732	422.12	17588	423.23	-1.10		

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	1160	26.98	1124	
	Guru Nanak Dev TPS(Bhatinda)	440	202	207	4.32	180	
	Guru Hargobind Singh TPS(L.mbt)	920	937	867	20.27	845	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2394	2234	51.56	2149	
	Total Hydro	1148	826	632	17.17	715	
	Total Punjab	3768	3220	2866	68.73	2864	
Haryana	Panipat TPS	1367	501	513	12.70	529	
	DCRTPP (Yamuna nagar)	600	273	277	6.22	259	
	Faridabad GPS (NTPC)	432	348	359	8.18	341	
	RGTPP (khedar) (IPP)	1200	410	355	10.00	417	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	1086	1114	23.40	975	
	Thermal (Total)	4944	2618	2618	60.50	2521	
	Total Hydro	62	23	26	0.66	27	
		Total Haryana	5006	2641	2644	61.16	2548
	Rajasthan	kota TPS	1240	804	804	19.27	803
suratgarh TPS		1500	771	772	18.26	761	
Chabra TPS		500	193	199	4.67	194	
Dholpur GPS		330	123	118	2.72	113	
Ramgarh GPS		111	133	66	2.34	97	
RAPS A (NPC)		300	176	176	4.23	176	
Barsingar (NLC)		250	149	152	3.57	149	
Giral LTSPS		250	62	62	1.21	50	
Rajwest LTSPS (IPP)		1080	383	467	9.54	398	
VSLP LTSPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	486	489	11.63	485	
Thermal (Total)		6956	3280	3305	77.43	3226	
Total Hydro		550	0	111	0.72	30	
Wind power		2191	1099	1242	28.93	1205	
Biomass		91	31	31	0.73	31	
Solar		201	0	0	1.70	71	
Renewable/Others (Total)		2483	1130	1273	31.36	1307	
		Total Rajasthan	9989	4410	4689	109.51	4563
UP		Anpara TPS	1630	1206	1183	28.50	1188
	Obra TPS	1288	446	434	11.00	458	
	Paricha TPS	1140	453	445	10.70	446	
	Panki TPS	210	135	126	2.70	113	
	Harduaganj TPS	665	205	214	5.20	217	
	Tanda TPS (NTPC)	440	394	395	9.34	389	
	Roza TPS (IPP)	1200	1004	990	24.03	1001	
	Anpara-C (IPP)	1200	821	365	16.33	680	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	365	7.86	327	
	Thermal (Total)	8223	5029	4517	115.65	4819	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	146	213	4.23	176	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5225	4780	121.08	5045
	Uttarakhand	Total Hydro	1303	692	767	17.16	715
Total Uttarakhand		1303	692	767	17.16	715	
Delhi	Rajghat TPS	135	38	39	0.86	36	
	Delhi Gas Turbine	282	190	181	4.50	188	
	Pragati Gas Turbine	330	260	26	6.53	272	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	420	435	9.40	392	
	Thermal (Total)	2232	908	681	21.29	887	
	Total Delhi	2232	908	681	21.29	887	
HP	Baspa HPS (IPP)	330	332	332	13.37	557	
	Malana HPS (IPP)	86	105	106	2.54	106	
	Other Hydro	589	579	559	7.65	319	
		Total HP	1005	1016	997	23.56	982
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	18688	18003	436.40	18183	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4638	4635	110.60	4608	
Total Regional Availability(Gross)		57226	42809	41370	969.12	40380	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9756	8853	208.66	8694
State Control Area Hydro	5368	3279	3325	77.40	3225
Total Regional Hydro	15731	13035	12178	286.06	11919

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	6.05	0.00	6.05
Gwalior-Agra (D/C)	1439	1515	1926	0	35.70	0.00	35.70
Zerda-Kankroli	-30	-58	38	204	0.00	2.53	-2.53
Zerda-Bhinmal	-44	-70	86	222	0.00	2.56	-2.56
Malanpur-Auraiya	-44	-39	0	71	0.00	1.00	-1.00
Badod-Kota/Morak	-68	-38	0	113	0.00	1.16	-1.16
Mundra-Mohindergarh(HVDC)	1448	1401	1449	0	30.54	0.00	30.54
Sub Total WR	2851	3011			72.29	7.24	65.05
Pusauli Bypass	-326	-164	0	370	0.00	5.29	-5.29
MZP- GKP (D/C)	630	649	942	0	17.88	0.00	17.88
Patna-Balia(D/C)	534	449	689	0	12.03	0.00	12.03
B'Sharif-Balia (D/C)	383	300	524	0	8.49	0.00	8.49
Pusauli-Balia	44	-27	73	36	0.20	0.00	0.20
Gaya-Fatehpur (765 Kv)	42	50	150	0	2.13	0.00	2.13
Pusauli-Sahupuri	197	197	204	0	4.82	0.00	4.82
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)	321	210	322	0	6.18	0.00	6.18
Sub Total ER	1787	1624			51.73	6.18	45.55
Total IR Exch	4638	4635			124.02	13.43	110.60

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
36.37	3.71	40.08	7.14	42.85	0.43	-6.29	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
50.14	84.94	135.08	45.55	65.05	110.60	-4.59	-19.89	-24.48

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	0.03	96.60	0.80	96.30	47.40	3.40

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					
50.34	6.06	49.62	19.54	49.98	0.15	0.12	50.41	49.92

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	06:47	398	00:27	0.0	0.0	0.0	0.0
Gorakhpur	400	423	08:08	397	13:22	0.0	0.0	12.2	0.0
Bareilly	400	422	06:08	396	14:31	0.0	0.0	0.1	0.0
Kanpur	400	412	23:45	405	22:34	0.0	0.0	0.0	0.0
Dadri	400	416	06:09	391	14:28	0.0	0.0	0.0	0.0
Ballabgarh	400	425	06:03	398	14:29	0.0	0.0	12.9	0.0
Bawana	400	419	06:07	394	14:28	0.0	0.0	0.0	0.0
Bassi	400	427	06:06	401	14:30	0.0	0.0	13.3	0.0
Hissar	400	410	06:04	386	14:28	0.0	3.2	0.0	0.0
Moga	400	417	06:05	397	14:27	0.0	0.0	0.0	0.0
Abdullapur	400	417	06:06	399	14:28	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:04	397	14:28	0.0	0.0	0.0	0.0
Kishenpur	400	420	06:13	406	12:23	0.0	0.0	0.0	0.0
Wagoora	400	416	06:05	397	20:44	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	776	06:06	733	14:32	0.0	13.6	0.0	0.0
Balia	765	779	06:07	718	12:25	12.2	48.3	0.0	0.0
Moga	765	799	06:04	764	23:53	0.0	0.0	0.0	0.0
Agra	765	810	06:05	759	14:29	0.0	0.0	4.4	0.0
Bhiwani	765	793	23:45	747	14:29	0.0	0.0	0.0	0.0
Unnao	765	774	06:07	736	14:29	0.0	13.1	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	499.51	1076.64	473.64	329.69	1431.13	1043.22
Pong	426.72	384.05	410.42	504.32	393.06	97.37	1225.44	315.82
Tehri	829.79	740.04	796.35	550.00	818.65	982.26	855.00	475.00
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	275.76	290.72
Rihand	268.22	252.98	254.69	64.30	254.02	38.60	NA	NA
RPS	352.80	343.81	349.71	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	296.57	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.59	150.00	501.49	144.00	281.02	343.03

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 19.07.2013 :

1.Hot & Humid 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 : 19.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER