

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.08.2013
Date of Reporting : 22.08.2013

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
35185	2140	37325	50.01	32382	940	33322	50.51	803.0	33.72

* 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)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	22.28	20.71		43.00	117.66	117.55	-0.11	160.55	0.00
Haryana	51.55	0.66		52.21	68.99	69.50	0.52	121.71	0.00
Rajasthan	51.28	7.79	16.63	75.70	51.24	47.80	-3.43	123.50	0.00
Delhi	19.28			19.28	67.70	66.78	-0.91	86.06	0.08
UP	99.77	4.00	0.96	104.74	122.94	119.47	-3.47	224.21	29.71
Uttarakhand		16.62		16.62	12.74	13.51	0.77	30.14	2.23
HP		22.92		22.92	-0.12	-0.13	-0.01	22.80	0.00
J & K		13.68	0.00	13.68	15.32	14.96	-0.37	28.63	1.70
Chandigarh				0.00	5.42	5.40	-0.02	5.40	0.00
Total	244.16	86.39	17.59	348.14	461.88	454.85	-7.03	802.99	33.72

* 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	6976	0	-20	1745	6213	0	-74	2001	46.30	
Haryana	5963	0	56	584	4644	0	-126	552	6.95	
Rajasthan	5582	60	84	31	4747	0	-384	97	1.77	
Delhi	3933	0	-87	162	2930	0	-67	-36	-0.26	
UP	8634	1830	-398	629	10912	940	62	957	16.87	
Uttarakhand	1413	150	17	19	1206	0	93	-135	-2.18	
HP	994	0	-14	-1168	737	0	-90	-1229	-27.52	
J&K	1435	100	116	-333	824	0	-159	-565	-9.30	
Chandigarh	254	0	9	-10	170	0	-8	-30	-0.04	
Total	35185	2140	-237	1658	32382	940	-752	1612	32.57	

* 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	1888	1870	1956	43.98	1833	44.81	-0.83
	Rihand I STPS	1000	920	997	924	19.47	811	20.15	-0.69
	Rihand II STPS	1000	378	0	473	7.14	297	7.96	-0.83
	Rihand III STPS	500	485	521	466	11.29	470	10.99	0.30
	Dadri I STPS	840	600	645	466	12.24	510	12.59	-0.35
	Dadri II STPS	980	975	968	706	19.18	799	19.25	-0.07
	Unchahar I TPS	420	391	433	419	7.84	327	7.85	-0.01
	Unchahar II TPS	420	404	437	411	7.82	326	7.84	-0.03
	Unchahar III TPS	210	201	214	153	3.72	155	3.75	-0.03
	ISTPP (Jhajjar)	1500	1470	360	316	7.01	292	7.15	-0.14
	Dadri GPS	830	523	387	194	5.92	247	6.25	-0.32
	Anta GPS	419	405	259	238	5.94	247	6.11	-0.18
	Auraiya GPS	663	625	311	155	4.61	192	4.82	-0.22
	Sub Total (A)	10782	9263	7402	6877	156.15	6506	159.54	-3.39
	B. NPC	NAPS	440	292	332	336	7.00	292	7.01
RAPS- B		440	400	440	445	9.58	399	9.60	-0.02
RAPS- C		440	410	467	474	9.97	415	9.84	0.13
Sub Total (B)		1320	1102	1239	1255	26.55	1106	26.45	0.10
C. NHPC	Chamera I HPS	540	429	540	540	10.43	435	10.29	0.14
	Chamera II HPS	300	300	302	302	7.21	300	7.06	0.15
	Chamera III HPS	231	231	238	199	5.50	229	5.42	0.08
	Bairasuil HPS	180	179	179	179	4.30	179	4.33	-0.03
	Salal-HPS	690	655	667	668	15.59	650	15.69	-0.10
	Tanakpur-HPS	94	94	93	94	2.23	93	2.19	0.03
	Uri-HPS	480	265	255	247	6.20	258	5.55	0.65
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	409	159	8.71	363	8.67	0.04
	Sewa-II HPS	120	119	126	120	2.93	122	2.87	0.06
	Sub Total (C)	3305	2658	2809	2508	63.11	2629	62.08	1.02
D. NJPC	Natpura Jhakri	1500	1605	1624	1613	38.63	1610	38.51	0.12
	Sub Total (D)	1500	1605	1624	1613	38.63	1610	38.51	0.12
E. THDC	Tehri HPS	1000	1060	1064	1022	25.28	1053	25.25	0.02
	Koteshwar HPS	400	355	380	363	8.50	354	8.51	-0.01
	Sub Total (E)	1400	1415	1444	1385	33.77	1407	33.76	0.02
F. BBMB	Bhakra HPS	1480	1188	1337	1096	29.03	1210	28.51	0.52
	Dehar HPS	990	634	635	635	15.20	633	15.22	-0.02
	Pong HPS	396	366	372	372	9.03	376	8.78	0.25
	Sub Total (F)	2866	2188	2344	2103	53.26	2219	52.52	0.74
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	230	5.49	229	4.99	0.49
	KWHEP HPS(IPP)	1000	0	1200	1092	28.33	1181	28.51	-0.18
	Malana Stg-II HPS	100	0	113	113	2.71	113	2.52	0.18
	Shree Cement TPS	300	0	124	120	2.93	122	2.99	-0.06
	Budhil HPS(IPP)	70	0	60	45	1.26	52	0.82	0.44
	Sub Total (G)	1662	0	1727	1600	40.72	1696	39.83	0.89
H. Total Regional Entities (A-G)	22836	18232	18589	17341	412.19	17175	412.68	-0.50	

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	340	380	8.21	342	
	Guru Nanak Dev TPS(Bhatinda)	440	90	85	1.83	76	
	Guru Hargobind Singh TPS(L.mbt)	920	715	461	12.23	510	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1145	926	22.28	928	
	Total Hydro	1148	864	865	20.71	863	
	Total Punjab	3768	2009	1791	43.00	1792	
Haryana	Panipat TPS	1367	383	208	7.19	300	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	72	161	3.69	154	
	RGTPP (khedar) (IPP)	1200	970	743	19.77	824	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	972	665	20.90	871	
	Thermal (Total)	4944	2397	1777	51.55	2148	
	Total Hydro	62	25	26	0.66	28	
		Total Haryana	5006	2422	1803	52.21	2176
	Rajasthan	kota TPS	1240	463	436	10.96	457
suratgarh TPS		1500	820	738	18.39	766	
Chabra TPS		500	219	193	4.87	203	
Dholpur GPS		330	68	93	1.89	79	
Ramgarh GPS		111	133	48	2.24	93	
RAPS A (NPC)		300	176	176	3.98	166	
Barsingsar (NLC)		250	91	91	2.08	87	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	332	258	6.88	287	
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	2302	2033	51.28	2137	
Total Hydro		550	368	298	7.79	324	
Wind power		2191	463	980	15.26	636	
Biomass		91	31	31	0.74	31	
Solar		201	0	0	0.63	26	
Renewable/Others (Total)		2483	494	1011	16.63	693	
		Total Rajasthan	9989	3164	3342	75.70	3154
UP		Anpara TPS	1630	1237	1276	27.70	1154
	Obra TPS	1288	455	368	8.20	342	
	Paricha TPS	1140	786	762	16.50	688	
	Panki TPS	210	125	135	2.20	92	
	Harduaganj TPS	665	146	147	3.30	138	
	Tanda TPS (NTPC)	440	390	390	9.43	393	
	Roza TPS (IPP)	1200	787	1004	21.37	890	
	Anpara-C (IPP)	1200	531	438	11.07	461	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0	
	Thermal (Total)	8223	4457	4520	99.77	4157	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	130	276	4.00	167	
	Cogeneration	981	40	40	0.96	40	
		Total UP	10131	4627	4836	104.74	4364
	Uttarakhand	Total Hydro	1303	806	628	16.62	693
Total Uttarakhand		1303	806	628	16.62	693	
Delhi	Raighat TPS	135	29	45	0.76	32	
	Delhi Gas Turbine	282	79	82	1.89	79	
	Pragati Gas Turbine	330	292	266	6.72	280	
	Riithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	450	425	9.92	413	
	Thermal (Total)	2232	850	818	19.28	803	
		Total Delhi	2232	850	818	19.28	803
HP	Baspa HPS (IPP)	330	335	305	7.58	316	
	Malana HPS (IPP)	86	68	55	1.43	59	
	Other Hydro	589	593	597	13.92	580	
		Total HP	1005	996	957	22.92	955
J & K	Baglihar HPS (IPP)	450	436	438	10.47	436	
	Other Hydro	323	132	137	3.21	134	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	568	575	13.68	570
Total State Control Area Generation		34390	15442	14750	348.14	14506	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2636	1510	48.64	2027	
Total Regional Availability(Gross)		57226	36667	33601	808.97	33707	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9764	9044	225.30	9387
State Control Area Hydro	5368	3757	3625	86.39	3600
Total Regional Hydro	15731	13521	12669	311.69	12987

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	-500	0	500	0.00	8.76	-8.76
Gwalior-Agra (D/C)	1062	852	1142	0	19.99	0.00	19.99
Zerda-Kankroli	-89	-275	0	282	0.00	4.91	-4.91
Zerda-Bhinmal	-34	-293	4	325	0.00	4.19	-4.19
Malanpur-Auraiya	-37	-36	0	90	0.00	1.17	-1.17
Badod-Kota/Morak	-6	-91	13	98	0.00	0.96	-0.96
Mundra-Mohindergarh(HVDC)	961	697	1000	0	19.22	0.00	19.22
Sub Total WR	1557	354			39.21	19.99	19.22
Pusauli Bypass	100	100	100	0	2.41	0.00	2.41
MZP- GKP (D/C)	351	474	646	0	11.84	0.00	11.84
Patna-Balia(D/C)	287	327	349	0	7.53	0.00	7.53
B'Sharif-Balia (D/C)	152	203	261	0	4.56	0.00	4.56
Pusauli-Balia	-66	-43	0	73	0.00	1.21	-1.21
Gaya-Fatehpur (765 Kv)	47	-53	193	53	0.00	1.07	-1.07
Pusauli-Sahupuri	106	162	172	0	2.98	0.00	2.98
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-38	0	45	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	139	24	268	0	3.18	0.00	3.18
Sub Total ER	1079	1156			32.50	3.08	29.42
Total IR Exch	2636	1510			71.71	23.08	48.64

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
32.16	3.79	35.95	-11.41	32.70	-4.48	-19.30	3.30	-3.30

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
23.36	40.58	63.93	29.42	19.22	48.64	6.06	-21.36	-15.30

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	1.08	81.25	0.49	80.17	84.34	18.75

<----- 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	Hz	Index			
50.59	3.06	49.51	18.54	50.15	0.51	0.14	50.53	49.75

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	416	07:59	409	02:11	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Barilly	400	425	08:15	402	14:22	0.0	0.0	2.5	0.0
Kanpur	400	423	08:04	404	14:22	0.0	0.0	2.1	0.0
Dadri	400	421	08:04	402	14:25	0.0	0.0	0.3	0.0
Ballabgarh	400	428	04:03	407	14:22	0.0	0.0	36.5	0.0
Bawana	400	424	08:05	404	14:30	0.0	0.0	6.7	0.0
Bassi	400	431	23:54	410	09:20	0.0	0.0	63.0	0.1
Hissar	400	414	08:05	395	14:29	0.0	0.0	0.0	0.0
Moga	400	413	02:43	400	19:27	0.0	0.0	0.0	0.0
Abdullapur	400	417	08:05	399	14:30	0.0	0.0	0.0	0.0
Nalagarh	400	414	03:04	394	14:22	0.0	0.0	0.0	0.0
Kishenpur	400	421	02:42	406	19:16	0.0	0.0	0.6	0.0
Wagoora	400	424	02:43	398	19:13	0.0	0.0	4.1	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	780	08:05	746	14:22	0.0	0.0	0.0	0.0
Balia	765	767	08:05	737	18:53	0.0	1.7	0.0	0.0
Moga	765	781	02:47	755	19:17	0.0	0.0	0.0	0.0
Agra	765	809	08:07	764	14:23	0.0	0.0	4.2	0.0
Bhiwani	765	800	08:05	767	14:29	0.0	0.0	0.0	0.0
Unnao	765	762	07:59	744	00:00	0.0	0.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	508.50	1170.42	490.70	758.57	1457.78	879.15
Pong	426.72	384.05	421.69	961.02	410.86	524.57	1171.01	507.01
Tehri	829.79	740.04	819.15	982.26	818.65	982.26	670.95	562.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	482.23	282.56
Rihand	268.22	252.98	257.89	196.40	260.12	311.30	NA	NA
RPS	352.80	343.81	345.25	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	521.67	144.00	502.54	144.00	926.24	134.45

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 21.08.2013 :

1. NORMAL

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.

Report for : 21.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER