

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 11.07.2012
Date of Reporting : 12.07.2012

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
35584	3178	38762	0.00	36236	2422	38658	49.77	859.1	75.51

* 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	51.94	16.24		68.18	117.64	122.07	4.43	190.24	16.05
Haryana	42.68	0.90		43.58	73.79	94.31	20.51	137.89	4.25
Rajasthan	63.54	0.00	9.50	73.04	49.52	53.19	3.67	126.23	0.33
Delhi	24.50			24.50	83.05	73.93	-9.12	98.43	0.04
UP	76.76	14.20	2.40	93.36	97.81	123.94	26.13	217.30	50.07
Uttarakhand		20.20		20.20	9.04	12.03	2.99	32.23	1.82
HP		21.07		21.07	2.07	1.15	-0.92	22.21	0.00
J & K		15.15	0.00	15.15	14.54	13.57	-0.97	28.72	2.95
Chandigarh				0.00	6.60	5.85	-0.74	5.85	0.00
Total	259.41	87.75	11.90	359.07	454.05	500.03	45.98	859.10	75.51

* 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 *	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	UI
Punjab	7890	623	-78	2192	7644	625	-112	1942		50.18
Haryana	5689	250	637	725	5754	327	1061	925		21.11
Rajasthan	5503	0	357	-357	5267	0	99	-481		-11.06
Delhi	4094	0	-348	601	3890	0	-536	611		16.00
UP	8515	2035	572	-85	10409	1370	2450	15		-0.08
Uttarakhand	1435	120	169	-116	1309	0	125	-116		-2.78
HP	870	0	-123	-1524	814	0	-113	-1521		-36.09
J&K	1323	150	-3	-462	943	100	-199	-462		-11.14
Chandigarh	265	0	-26	40	206	0	-26	0		1.07
Total	35584	3178	1157	1014	36236	2422	2749	914		27.21

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1813	2077	1859	43.73	1822	43.52	0.21
Rihand I STPS	1000	822	957	953	19.92	830	19.74	0.18
Rihand II STPS	1000	965	1042	1036	23.36	973	23.16	0.20
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	593	650	622	14.01	584	13.87	0.14
Dadri II STPS	980	963	1020	1027	22.97	957	22.92	0.05
Unchahar I TPS	420	374	431	437	9.04	377	8.97	0.07
Unchahar II TPS	420	381	424	420	9.21	384	9.12	0.09
Unchahar III TPS	210	195	220	221	4.71	196	4.68	0.03
ISTPP (Jhajjar)	1000	933	796	767	18.07	753	18.58	-0.50
Dadri GPS	830	778	560	601	13.33	556	13.86	-0.53
Anta GPS	419	388	311	305	7.12	297	6.89	0.22
Auraiya GPS	663	411	299	304	6.66	277	6.52	0.14
Sub Total (A)	10282	8616	8787	8552	192.12	8005	191.81	0.30
B. NPC								
NAPS	440	263	297	300	6.23	260	6.31	-0.08
RAPS- B	440	394	440	443	9.57	399	9.46	0.12
RAPS- C	440	400	343	398	7.84	327	9.60	-1.76
Sub Total (B)	1320	1057	1080	1141	23.64	985	25.37	-1.73
C. NHPC								
Chamera I HPS	540	534	540	540	12.83	535	12.81	0.02
Chamera II HPS	300	300	302	224	7.07	295	7.25	-0.18
Chamera III HPS	231	231	231	231	5.54	231	5.55	-0.01
Bairasuil HPS	180	182	182	120	2.76	115	2.52	0.24
Salal-HPS	690	663	660	662	15.82	659	15.92	-0.10
Tanakpur-HPS	94	93	93	93	2.21	92	2.22	-0.02
Uri-HPS	480	470	480	480	11.60	483	11.52	0.08
Dhauliganga-HPS	280	277	277	278	6.67	278	6.68	-0.01
Dulhasi-HPS	390	387	410	405	9.29	387	9.22	0.07
Sewa-II HPS	120	80	77	0	0.66	28	0.65	0.01
Sub Total (C)	3305	3216	3252	3033	74.44	3102	74.34	0.10
D.NJPC								
Nathpa Jhakri	1500	1600	1618	1614	38.67	1611	38.40	0.27
Sub Total (D)	1500	1600	1618	1614	38.67	1611	38.40	0.27
E. THDC								
Tehri HPS	1000	423	1635	157	6.09	254	6.00	0.09
Koteshwar HPS	400	230	165	80	2.63	110	2.60	0.03
Sub Total (E)	1400	653	1800	237	8.72	363	8.60	0.12
F. BBMB								
Bhakra HPS	1480	892	1164	678	21.79	908	21.41	0.38
Dehar HPS	990	523	495	495	11.87	495	12.55	-0.68
Pong HPS	396	200	306	108	5.02	209	5.01	0.01
Sub Total (F)	2866	1615	1965	1281	38.68	1612	38.97	-0.29
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	226	223	5.22	217	5.01	0.20
KWHEP HPS(IPP)	1000	0	1200	901	27.75	1156	27.70	0.06
Malana Stg-II HPS	100	0	111	109	2.62	109	0.00	2.62
Shree Cement TPS	300	0	241	147	4.41	184	3.48	0.94
Budhil HPS(IPP)	70	0	70	70	1.68	70		1.68
Sub Total (G)	1662	0	1848	1450	41.69	1737	36.19	5.50
H. Total Regional Entities (A-G)	22336	16757	20350	17308	417.95	17415	413.68	4.27

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	1245	1252	27.85	1161	
	Guru Nanak Dev TPS(Bhatinda)	440	206	211	4.45	185	
	Guru Hargobind Singh TPS(L.mbt)	920	906	887	19.64	818	
	Thermal (Total)	2620	2357	2350	51.94	2164	
	Total Hydro	1148	747	623	16.24	676	
	Total Punjab	3768	3104	2973	68.18	2841	
Haryana	Panipat TPS	1367	1110	927	24.21	1009	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	383	190	6.09	254	
	RGTPP (kheadar) (IPP)	1200	554	482	12.38	516	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2047	1599	42.68	1778	
	Total Hydro	62	28	26	0.90	38	
	Total Haryana	5006	2075	1625	43.58	1816	
Rajasthan	kota TPS	1240	814	863	19.22	801	
	suratgarh TPS	1500	1105	1117	26.24	1093	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	95	85	2.65	111	
	Ramgarh GPS	111	57	56	1.38	57	
	RAPS A (NPC)	300	175	175	4.30	179	
	Barsingsar (NLC)	250	190	200	4.76	198	
	Giral LTPS	250	33	29	0.57	24	
	Rajwest LTPS (IPP)	540	90	243	4.42	184	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2559	2768	63.54	2647	
	Total Hydro	550	40	0	0.00	0	
	Wind power	1843	832	84	8.86	369	
	Biomass	91	18	18	0.44	18	
	Solar	128	0	0	0.20	8	
	Renewable/Others (Total)	2062	850	102	9.50	396	
	Total Rajasthan	7767	3449	2870	73.04	3043	
	UP	Anpara TPS	1630	1067	995	23.00	958
		Obra TPS	1382	384	384	8.30	346
Paricha TPS		890	530	482	11.00	458	
Panki TPS		210	140	130	2.80	117	
Harduaganj TPS		665	32	34	0.70	29	
Tanda TPS (NTPC)		440	293	265	6.99	291	
Roza TPS (IPP)		1200	549	550	13.15	548	
Anpara-C (IPP)		1200	296	293	7.16	298	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	149	165	3.67	153	
Thermal (Total)		8067	3440	3298	76.76	3198	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	126	0	3.74	156	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4102	3834	93.36	3454	
Uttarakhand	Total Hydro	1303	891	804	20.20	842	
	Total Uttarakhand	1303	891	804	20.20	842	
Delhi	Rajghat TPS	135	35	29	0.76	32	
	Delhi Gas Turbine	282	144	148	3.70	154	
	Pragati Gas Turbine	330	281	289	7.16	298	
	Rithala GPS	108	19	19	0.50	21	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	585	605	12.37	516	
	Thermal (Total)	2237	1064	1090	24.50	1021	
	Total Delhi	2237	1064	1090	24.50	1021	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	114	116	2.52	105	
	Other Hydro	589	453	454	10.62	442	
	Total HP	1005	897	900	21	878	
J & K	Baglihar HPS (IPP)	450	442	440	10.61	442	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	620	637	15.15	631	
Total State Control Area Generation		32017	16202	14733	359.07	14525	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2993	4861	95.30	3971	
Total Regional Availability(Gross)		54353	39545	36902	872.31	35911	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	10172	7398	196.10	8171
State Control Area Hydro	5368	3349	2990	87.75	3221
Total Regional Hydro	15731	13521	10388	283.85	11392

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	0	350	350	0	6.21	0.00	6.21
Gwalior-Agra (D/C)	747	1184	1373	0	25.42	0.00	25.42
Zerda-Kankroli	-25	264	398	77	2.54	0.00	2.54
Zerda-Bhinmal	47	149	221	8	2.36	0.00	2.36
Malanpur-Auraiya	-44	30	11	0	0.00	0.30	-0.30
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohinderghar(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	725	1977			36.52	0.30	36.22
Pusauli Bypass	250	250	250	0	5.93	0.00	5.93
MZP- GKP (D/C)	881	940	1202	0	22.63	0.00	22.63
Patna-Balia(D/C)	459	563	680	0	8.64	0.00	8.64
B'Sharif-Balia (D/C)	314	470	539	0	7.95	0.00	7.95
Barh - Balia(D/C)	0	345	735	0	5.24	0.00	5.24
Pusauli-Balia	10	20	77	0	0.18	0.00	0.18
Gayaa-Fatehpur (765 Kv)	260	169	382	0	6.35	0.00	6.35
Pusauli-Sahupuri	134	152	155	0	2.89	0.00	2.89
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-25	0	47	0.00	0.72	-0.72
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2268	2884			59.80	0.72	59.08
Total IR Exch	2993	4861			96.32	1.02	95.30

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
31.14	3.72	34.85	6.65	24.84	-2.37	-0.57	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
39.13	18.99	58.13	59.08	36.22	95.30	19.95	17.22	37.17

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.63	3.72	40.87	96.11	58.96	10.41	0.17

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz				
50.37	8.05	49.09	22.06	49.82	0.63	0.15	50.16	0.00

VII. Voltage profile

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	403	4:08	397	0:10	0.0	0.0	0.0	0.0
Gorakhpur	400	426	8:18	400	0:44	0.0	0.0	48.5	0.0
Bareilly	400	413	4:16	396	0:09	0.0	0.0	0.0	0.0
Kanpur	400	412	4:01	396	0:09	0.0	0.0	0.0	0.0
Dadri	400	410	4:00	399	9:56	0.0	0.0	0.0	0.0
Ballabgarh	400	416	4:01	401	0:09	0.0	0.0	0.0	0.0
Bawana	400	415	4:02	402	0:09	0.0	0.0	0.0	0.0
Bassi	400	429	4:03	408	0:10	0.0	0.0	23.6	0.0
Hissar	400	409	3:59	396	0:10	0.0	0.0	0.0	0.0
Moga	400	414	3:59	401	0:10	0.0	0.0	0.0	0.0
Abdullapur	400	414	4:01	402	9:21	0.0	0.0	0.0	0.0
Nalagarh	400	411	2:57	395	9:21	0.0	0.0	0.0	0.0
Kishenpur	400	410	3:59	401	9:15	0.0	0.0	0.0	0.0
Wagoora	400	407	0:59	394	6:49	0.0	0.0	0.0	0.0

VIII. 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	471.43	293.05	489.65	719.44	1014.96	799.04
Pong	426.72	384.05	393.83	106.94	412.43	577.87	406.83	406.89
Tehri	829.79	740.04	755.10	91.10	818.65	982.26	401.74	195.00
Koteshwar	612.50	598.50	600.50	0.80	NA	NA	195.00	174.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	376.53	347.50
Rihand	268.22	252.98	254.26	47.90	256.70	145.10	NA	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	500.51	NA	509.44	NA	315.48	233.84

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 11.07.2012 :

1. Cloudy weather in NR.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

1. 400kv Fatehpur-Mainpuri-II first time charged at 18:36 hrs after LILO of Mainpuri-Allahabad-II at Fatehpur s/s.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 11.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER