

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.07.2012

Date of Reporting : 13.07.2012

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
36042	4058	40100	49.68	36621	2174	38795	49.70	868.2	77.53

* 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	53.67	16.53		70.20	120.45	124.25	3.79	194.45	17.33
Haryana	49.46	0.86		50.32	69.17	84.74	15.57	135.06	3.17
Rajasthan	64.60	0.33	18.36	83.29	46.60	40.90	-5.69	124.19	0.00
Delhi	24.91			24.91	83.77	71.98	-11.79	96.89	0.04
UP	82.79	13.94	2.40	99.12	98.02	129.81	31.78	228.93	52.23
Uttarakhand		20.53		20.53	9.41	12.13	2.72	32.66	1.82
HP		21.73		21.73	1.77	0.44	-1.33	22.18	0.00
J & K		15.15	0.00	15.15	14.05	12.95	-1.10	28.10	2.95
Chandigarh				0.00	6.65	5.75	-0.90	5.75	0.00
Total	275.43	89.07	20.76	385.26	449.88	482.95	33.06	868.20	77.53

* 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 (Net MU)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	8217	1373	44	2191	7844	500	-154	1904	49.12	
Haryana	5829	0	857	725	5637	124	747	725	17.41	
Rajasthan	5347	0	-67	-457	5210	0	-159	-481	-11.26	
Delhi	4159	0	-233	605	3811	0	-830	615	15.50	
UP	8744	2385	722	-85	10847	1450	2567	15	-0.08	
Uttarakhand	1454	150	145	-116	1297	0	106	-116	-2.78	
HP	785	0	-242	-1473	827	0	-112	-1470	-34.90	
J&K	1245	150	-72	-462	944	100	-187	-462	-11.34	
Chandigarh	261	0	-44	40	203	0	-40	0	1.07	
Total	36042	4058	1111	968	36621	2174	1938	731	22.74	

* 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	1912	2060	2066	46.38	1933	45.89	0.49
Rihand I STPS	1000	870	954	948	21.09	879	20.88	0.21
Rihand II STPS	1000	965	1033	1038	23.37	974	23.16	0.21
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	713	727	651	16.66	694	15.87	0.79
Dadri II STPS	980	963	1032	1026	22.83	951	22.61	0.22
Unchahar I TPS	420	392	430	435	9.47	395	9.40	0.07
Unchahar II TPS	420	402	440	438	9.70	404	9.65	0.05
Unchahar III TPS	210	200	220	221	4.83	201	4.80	0.03
ISTPP (Jhajjar)	1000	818	724	808	16.36	682	16.03	0.34
Dadri GPS	830	593	500	521	11.28	470	11.33	-0.05
Anta GPS	419	388	343	398	7.21	300	7.11	0.09
Auraiya GPS	663	412	295	301	6.76	282	6.75	0.01
Sub Total (A)	10282	8628	8758	8851	195.94	8164	193.47	2.46
B. NPC								
NAPS	440	263	293	296	6.20	258	6.31	-0.11
RAPS- B	440	394	439	440	9.51	396	9.46	0.06
RAPS- C	440	400	350	358	7.39	308	9.60	-2.21
Sub Total (B)	1320	1057	1082	1094	23.10	963	25.37	-2.27
C. NHPC								
Chamera I HPS	540	535	540	540	12.70	529	12.33	0.37
Chamera II HPS	300	300	303	303	7.21	300	7.27	-0.06
Chamera III HPS	231	231	237	231	5.49	229	5.59	-0.10
Bairasuil HPS	180	182	182	140	3.06	128	2.83	0.23
Salal-HPS	690	663	661	661	15.80	658	15.90	-0.10
Tanakpur-HPS	94	93	94	94	2.25	94	2.22	0.03
Uri-HPS	480	479	480	479	11.62	484	11.52	0.10
Dhauliganga-HPS	280	277	280	276	6.67	278	6.68	-0.01
Dulhasi-HPS	390	387	0	378	2.87	119	9.24	-6.37
Sewa-II HPS	120	80	40	40	0.65	27	0.63	0.02
Sub Total (C)	3305	3226	2817	3142	68.31	2846	74.20	-5.89
D. NJPC								
Nathpa Jhakri	1500	1600	1615	1618	38.70	1613	38.39	0.31
Sub Total (D)	1500	1600	1615	1618	38.70	1613	38.39	0.31
E. THDC								
Tehri HPS	1000	433	645	155	6.10	254	6.00	0.10
Koteshwar HPS	400	230	84	162	2.31	96	2.38	-0.07
Sub Total (E)	1400	663	729	317	8.41	351	8.38	0.04
F. BBMB								
Bhakra HPS	1480	857	1140	675	20.70	863	20.56	0.14
Dehar HPS	990	541	660	495	13.48	562	12.98	0.50
Pong HPS	396	193	258	108	4.70	196	5.01	-0.31
Sub Total (F)	2866	1590	2058	1278	38.88	1620	38.55	0.33
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	230	5.51	230	4.90	0.61
KWHEP HPS(IPP)	1000	0	1200	1200	28.54	1189	28.63	-0.09
Malana Stg-II HPS	100	0	110	108	2.62	109	0.00	2.62
Shree Cement TPS	300	0	276	262	6.31	263	5.53	0.78
Budhil HPS(IPP)	70	0	69	69	1.11	46		1.11
Sub Total (G)	1662	0	1816	1869	44.09	1837	39.07	5.03
H. Total Regional Entities (A-G)	22336	16764	18875	18169	417.44	17393	417.43	0.01

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	1242	1250	27.99	1166	
	Guru Nanak Dev TPS(Bhatinda)	440	207	204	4.43	185	
	Guru Hargobind Singh TPS(L.mbt)	920	917	920	21.25	885	
	Thermal (Total)	2620	2366	2374	53.67	2236	
	Total Hydro	1148	782	623	16.53	689	
	Total Punjab	3768	3148	2997	70.20	2925	
Haryana	Panipat TPS	1367	1116	1099	26.72	1113	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	383	388	9.26	386	
	RGTPP (kheadar) (IPP)	1200	59	549	13.49	562	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1558	2036	49.46	2061	
	Total Hydro	62	34	35	0.86	36	
	Total Haryana	5006	1592	2071	50.32	2097	
Rajasthan	kota TPS	1240	878	873	20.76	865	
	suratgarh TPS	1500	181	1077	26.11	1088	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	136	92	2.64	110	
	Ramgarh GPS	111	53	57	1.37	57	
	RAPS A (NPC)	300	177	177	4.29	179	
	Barsingsar (NLC)	250	185	177	4.69	196	
	Giral LTPS	250	42	0	0.59	24	
	Rajwest LTPS (IPP)	540	211	168	4.15	173	
	VSPL LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	1863	2621	64.60	2692	
	Total Hydro	550	0	0	0.33	14	
	Wind power	1843	812	672	17.01	709	
	Biomass	91	32	32	0.76	32	
	Solar	128	0	0	0.26	11	
	Renewable/Others (Total)	2062	844	704	18.36	765	
	Total Rajasthan	7767	2707	3325	83.29	3470	
	UP	Anpara TPS	1630	974	998	24.40	1017
		Obra TPS	1382	476	356	9.80	408
Paricha TPS		890	437	475	10.70	446	
Panki TPS		210	122	117	2.90	121	
Harduaganj TPS		665	29	27	0.70	29	
Tanda TPS (NTPC)		440	289	292	7.23	301	
Roza TPS (IPP)		1200	549	550	13.15	548	
Anpara-C (IPP)		1200	300	293	10.45	435	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	158	113	3.45	144	
Thermal (Total)		8067	3334	3221	82.79	3450	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	147	0	3.48	145	
Cogeneration		981	100	100	2.40	100	
Total UP		9975	4017	3757	99.12	3695	
Uttarakhand	Total Hydro	1303	921	789	20.53	856	
	Total Uttarakhand	1303	921	789	20.53	856	
Delhi	Rajghat TPS	135	26	30	0.82	34	
	Delhi Gas Turbine	282	145	147	3.69	154	
	Pragati Gas Turbine	330	289	289	7.19	300	
	Rithala GPS	108	0	19	0.23	10	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	610	650	12.98	541	
	Thermal (Total)	2237	1070	1135	24.91	1038	
	Total Delhi	2237	1070	1135	24.91	1038	
HP	Baspa HPS (IPP)	330	330	330	7.87	328	
	Malana HPS (IPP)	86	106	106	2.46	103	
	Other Hydro	589	501	484	11.40	475	
	Total HP	1005	937	920	22	906	
J & K	Baglihar HPS (IPP)	450	440	436	10.61	442	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	618	633	15.15	631	
Total State Control Area Generation		32017	15010	15627	385.26	15617	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3444	4100	87.74	3656	
Total Regional Availability(Gross)		54353	37329	37896	890.43	36666	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8759	7893	190.98	7957
State Control Area Hydro	5368	3439	3000	89.07	3276
Total Regional Hydro	15731	12198	10893	280.05	11233

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	-200	0	0	200	0.00	2.32	-2.32
Gwalior-Agra (D/C)	858	1057	1134	0	22.52	0.00	22.52
Zerda-Kankroli	53	60	103	168	0.00	0.64	-0.64
Zerda-Bhinmal	12	32	136	119	0.03	0.00	0.03
Malanpur-Auraiya	-120	-88	0	140	0.00	0.05	-0.05
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	310	121	310	0	4.83	0.00	4.83
Sub Total WR	913	1182			27.37	3.01	24.36
Pusauli Bypass	250	250	250	0	6.07	0.00	6.07
MZP- GKP (D/C)	896	1064	1264	0	23.51	0.00	23.51
Patna-Balia(D/C)	744	384	747	0	11.86	0.00	11.86
B'Sharif-Balia (D/C)	268	455	501	0	8.31	0.00	8.31
Barh - Balia(D/C)	0	383	471	0	3.97	0.00	3.97
Pusauli-Balia	31	45	289	0	0.83	0.00	0.83
Maya-Fatehpur (765 Kv)	236	268	377	0	6.61	0.00	6.61
Pusauli-Sahupuri	146	94	167	0	2.94	0.00	2.94
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	2531	2918			64.10	0.72	63.38
Total IR Exch	3444	4100			91.47	3.73	87.74

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
31.62	3.01	34.63	0.42	20.78	-2.19	-4.57	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
32.86	11.28	44.14	63.38	24.36	87.74	30.52	13.08	43.60

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	0.00	6.60	38.00	93.30	61.90	3.30	0.10

<----- 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				
50.25	8.01	49.31	0.31	49.74	0.92	0.15	50.12	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	407	23:57	397	21:18	0.0	0.0	0.0	0.0
Gorakhpur	400	428	18:45	414	21:26	0.0	0.0	56.1	0.0
Bareilly	400	417	18:44	396	22:08	0.0	0.0	0.0	0.0
Kanpur	400	413	14:17	402	21:24	0.0	0.0	0.0	0.0
Dadri	400	412	18:39	400	14:42	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:39	402	21:26	0.0	0.0	0.0	0.0
Bawana	400	416	18:37	403	21:24	0.0	0.0	0.0	0.0
Bassi	400	420	18:37	403	21:28	0.0	0.0	0.0	0.0
Hissar	400	408	14:17	408	14:17	0.0	0.0	0.0	0.0
Moga	400	415	17:47	403	16:31	0.0	0.0	0.0	0.0
Abdullapur	400	417	18:37	286	21:52	0.1	0.1	0.0	0.0
Nalagarh	400	412	19:23	397	14:39	0.0	0.0	0.0	0.0
Kishenpur	400	414	22:23	403	14:36	0.0	0.0	0.0	0.0
Wagoora	400	407	17:46	395	21:23	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	471.71	298.24	489.81	729.19	985.91	765.23
Pong	426.72	384.05	393.93	106.94	412.44	577.87	490.93	382.48
Tehri	829.79	740.04	757.15	98.32	818.65	982.26	455.43	194.00
Koteswar	612.50	598.50	601.00	0.98	NA	NA	194.00	153.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	413.12	345.50
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 12.07.2012 :

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 :

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 12.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER