

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.07.2012

Date of Reporting : 20.07.2012

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
37105	6710	43815	49.76	37863	3493	41356	49.73	893.3	114.93

* 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	51.96	17.53		69.49	119.10	122.32	3.22	191.81	30.98
Haryana	58.01	1.05		59.06	60.12	70.65	10.54	129.71	20.66
Rajasthan	64.66	0.00	34.90	99.56	40.47	46.34	5.87	145.90	2.82
Delhi	37.48			37.48	73.53	71.31	-2.22	108.79	1.79
UP	83.40	12.66	2.40	98.46	87.57	131.44	43.87	229.90	51.06
Uttarakhand		18.08		18.08	10.47	12.90	2.43	30.97	3.33
HP		20.69		20.69	2.20	2.63	0.43	23.32	1.34
J & K		15.28	0.00	15.28	12.96	11.03	-1.93	26.31	2.95
Chandigarh				0.00	6.77	6.55	-0.22	6.55	0.00
Total	295.51	85.29	37.30	418.10	413.17	475.16	61.99	893.27	114.93

* 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	UI
Punjab	8181	2440	131	2212	8276	250	214	2212	53.09	
Haryana	5069	1456	64	703	5285	1096	375	703	16.88	
Rajasthan	6100	55	55	-580	6319	61	336	-648	-14.56	
Delhi	4575	0	-69	782	4337	1	-29	792	18.54	
UP	9569	2235	1987	66	10472	1985	2489	166	1.75	
Uttarakhand	1196	365	57	-120	1359	0	197	-120	-2.88	
HP	940	10	-4	-1290	885	0	11	-1447	-32.84	
J&K	1181	150	91	-424	691	100	-433	-474	-10.77	
Chandigarh	293	0	-3	40	240	0	9	0	1.07	
Total	37105	6710	2309	1388	37863	3493	3168	1185	30.27	

* 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	1253	1446	1351	30.51	1271	30.07	0.44
Rihand I STPS	1000	860	947	957	20.83	868	20.64	0.19
Rihand II STPS	1000	970	1042	1044	23.54	981	23.28	0.26
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	576	640	631	14.43	601	13.82	0.61
Dadri II STPS	980	758	971	713	18.37	765	18.18	0.19
Unchahar I TPS	420	394	440	422	9.52	397	9.45	0.07
Unchahar II TPS	420	322	416	183	7.70	321	7.73	-0.03
Unchahar III TPS	210	198	220	213	4.78	199	4.76	0.02
ISTPP (Jhajjar)	1000	484	696	478	11.22	467	11.43	-0.21
Dadri GPS	830	745	721	748	17.03	710	17.07	-0.05
Anta GPS	419	390	388	380	9.03	376	8.84	0.18
Auraiya GPS	663	386	288	292	6.82	284	8.36	-1.54
Sub Total (A)	10282	7336	8215	7412	173.78	7241	173.64	0.14
B. NPC								
NAPS	440	255	291	289	6.06	252	6.12	-0.06
RAPS- B	440	197	221	221	4.74	197	4.73	0.01
RAPS- C	440	200	231	330	4.92	205	4.80	0.12
Sub Total (B)	1320	652	743	840	15.71	655	15.65	0.07
C. NHPC								
Chamera I HPS	540	534	540	540	12.86	536	12.81	0.05
Chamera II HPS	300	300	303	303	7.23	301	7.22	0.01
Chamera III HPS	231	228	79	79	5.35	223	5.50	-0.16
Bairasuil HPS	180	182	120	120	2.42	101	2.11	0.31
Salal-HPS	690	657	660	662	15.73	655	15.77	-0.05
Tanakpur-HPS	94	91	85	94	2.11	88	2.12	-0.02
Uri-HPS	480	469	480	480	11.53	480	11.59	-0.06
Dhauliganga-HPS	280	277	282	280	6.76	282	6.68	0.08
Dulhasi-HPS	390	354	378	998	8.56	357	8.21	0.35
Sewa-II HPS	120	80	41	0	0.43	18	0.53	-0.10
Sub Total (C)	3305	3171	2968	3554	72.97	3041	72.56	0.42
D.NJPC								
Nathpa Jhakri	1500	1605	1613	1607	38.64	1610	38.52	0.12
Sub Total (D)	1500	1605	1613	1607	38.64	1610	38.52	0.12
E. THDC								
Tehri HPS	1000	460	320	330	5.14	214	5.00	0.14
Koteshwar HPS	400	230	0	223	1.97	82	1.95	0.01
Sub Total (E)	1400	690	320	553	7.10	296	6.95	0.15
F. BBMB								
Bhakra HPS	1480	720	1165	526	17.76	740	17.29	0.47
Dehar HPS	990	616	660	625	15.00	625	14.78	0.23
Pong HPS	396	231	306	162	5.69	237	5.01	0.68
Sub Total (F)	2866	1567	2131	1313	38.45	1602	37.07	1.38
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	231	182	4.94	206	4.29	0.65
KWHEP HPS(IPP)	1000	0	1200	1200	28.63	1193	28.63	0.00
Malana Stg-II HPS	100	87	103	108	2.46	102	2.09	0.37
Shree Cement TPS	300	0	142	294	4.94	206	4.67	0.27
Budhil HPS(IPP)	70		35	34	0.78	32		0.78
Sub Total (G)	1662	87	1711	1818	41.74	1739	39.68	2.06
H. Total Regional Entities (A-G)	22336	15108	17701	17097	388.40	16183	384.06	4.34

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	1256	1230	27.73	1155
	Guru Nanak Dev TPS(Bhatinda)	440	210	205	4.48	187
	Guru Hargobind Singh TPS(L.mbt)	920	963	868	19.75	823
	Thermal (Total)	2620	2429	2303	51.96	2165
	Total Hydro	1148	743	768	17.53	730
	Total Punjab	3768	3172	3071	69.49	2895
Haryana	Panipat TPS	1367	1116	1102	26.97	1124
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	363	375	8.92	372
	RGTPP (kheadar) (IPP)	1200	495	535	12.60	525
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	298	409	9.51	396
	Thermal (Total)	4944	2272	2421	58.01	2417
	Total Hydro	62	30	29	1.05	44
	Total Haryana	5006	2302	2450	59.06	2461
Rajasthan	kota TPS	1240	855	865	20.24	843
	suratgarh TPS	1500	879	892	21.39	891
	Chabra TPS	500	196	221	5.05	211
	Dholpur GPS	330	135	155	2.88	120
	Ramgarh GPS	111	52	52	1.38	58
	RAPS A (NPC)	300	170	170	4.32	180
	Barsingsar (NLC)	250	115	114	2.61	109
	Giral LTPS	250	50	59	1.13	47
	Rajwest LTPS (IPP)	540	243	243	5.65	235
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2695	2771	64.66	2694
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	1465	1493	34.02	1417
	Biomass	91	29	29	0.71	29
	Solar	128	0	0	0.18	8
	Renewable/Others (Total)	2062	1494	1522	34.90	1454
	Total Rajasthan	7767	4189	4293	99.56	4148
UP	Anpara TPS	1630	1081	1189	24.60	1025
	Obra TPS	1382	497	490	10.90	454
	Paricha TPS	890	473	602	11.00	458
	Panki TPS	210	155	150	3.10	129
	Harduaganj TPS	665	34	34	0.70	29
	Tanda TPS (NTPC)	440	293	294	7.22	301
	Roza TPS (IPP)	1200	552	549	13.13	547
	Anpara-C (IPP)	1200	315	267	7.24	302
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	249	212	5.51	230
	Thermal (Total)	8067	3649	3787	83.40	3475
	Vishnuparyag HPS (IPP)	400	436	436	9.98	416
	Other Hydro	527	99	0	2.68	112
	Cogeneration	981	100	100	2.40	100
	Total UP	9975	4284	4323	98.46	3687
Uttarakhand	Total Hydro	1303	747	682	18.08	753
	Total Uttarakhand	1303	747	682	18.08	753
Delhi	Rajghat TPS	135	51	46	1.33	55
	Delhi Gas Turbine	282	209	211	5.18	216
	Pragati Gas Turbine	330	271	277	6.85	286
	Rithala GPS	108	28	34	0.66	28
	Bawana GPS	677	441	464	9.77	407
	Badarpur TPS (NTPC)	705	610	590	13.70	571
	Thermal (Total)	2237	1610	1622	37.48	1562
Total Delhi	2237	1610	1622	37.48	1562	
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	86	97	2.32	97
	Other Hydro	589	454	381	10.45	435
	Total HP	1005	870	808	21	862
J & K	Baglihar HPS (IPP)	450	440	438	10.55	440
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	625	648	15.28	637
Total State Control Area Generation		32017	17799	17897	418.10	17005
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3468	4719	102.90	4288
Total Regional Availability(Gross)		54353	38968	39713	909.40	37476

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8566	8517	193.19	8049
State Control Area Hydro	5368	3114	2935	85.29	3138
Total Regional Hydro	15731	11680	11452	278.48	11187

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	400	300	400	0	7.82	0.00	7.82
Gwalior-Agra (D/C)	750	1193	1282	0	24.56	0.00	24.56
Zerda-Kankroli	3	248	248	48	1.87	0.00	1.87
Zerda-Bhinmal	-16	23	282	68	0.00	1.52	-1.52
Malanpur-Auraiya	-6	31	0	44	0.00	0.19	-0.19
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	506	306	510	0	12.25	0.00	12.25
Sub Total WR	1637	2101			46.50	1.71	44.79
Pusauli Bypass	250	250	250	0	6.09	0.00	6.09
MZP- GKP (D/C)	626	1000	1044	0	21.09	0.00	21.09
Patna-Balia(D/C)	485	625	671	0	13.87	0.00	13.87
B'Sharif-Balia (D/C)	219	433	459	0	8.61	0.00	8.61
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-43	-4	0	71	0.00	0.13	-0.13
Gayaa-Fatehpur (765 Kv)	156	179	419	0	6.70	0.00	6.70
Pusauli-Sahupuri	183	160	199	0	2.86	0.00	2.86
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1831	2618			59.21	1.10	58.11
Total IR Exch	3468	4719			105.71	2.81	102.90

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
18.07	3.72	21.79	-5.77	39.38	-0.07	-5.41	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
15.95	31.24	47.19	58.11	44.79	102.90	42.16	13.55	55.71

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	1.30	4.80	37.40	79.10	62.60	20.90	0.30	0.00

<----- 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				
50.07	8.06	48.84	18.09	49.55	2.43	0.19	50.01	49.17

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	406	6:35	397	12:17	0.0	0.0	0.0	0.0
Gorakhpur	400	427	23:10	398	1:21	0.0	0.0	12.8	0.0
Bareilly	400	409	17:01	385	15:12	0.0	0.7	0.0	0.0
Kanpur	400	413	19:02	390	12:17	0.0	0.0	0.0	0.0
Dadri	400	412	19:02	383	12:18	0.0	3.2	0.0	0.0
Ballabgarh	400	417	18:56	385	12:17	0.0	2.2	0.0	0.0
Bawana	400	416	18:56	387	12:17	0.0	1.1	0.0	0.0
Bassi	400	421	18:54	389	12:56	0.2	1.2	0.5	0.0
Hissar	400	413	19:53	379	12:18	0.1	5.6	0.0	0.0
Moga	400	416	19:50	386	12:13	0.0	2.0	0.0	0.0
Abdullapur	400	415	18:55	401	1:45	0.1	0.1	0.0	0.0
Nalagarh	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kishenpur	400	414	19:54	398	12:12	0.0	0.0	0.0	0.0
Wagoora	400	409	0:01	393	12:21	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	473.64	329.69	492.08	798.09	920.41	647.86
Pong	426.72	384.05	393.06	97.37	412.54	577.87	233.13	472.10
Tehri	829.79	740.04	762.85	145.79	818.65	982.26	395.00	157.00
Koteshwar	612.50	598.50	599.95	0.80	NA	NA	157.00	130.00
Chamera-I	760.00	748.75	754.24	12.81	NA	NA	353.04	348.64
Rihand	268.22	252.98	254.02	38.60	257.04	160.70	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.21	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.72	NA	509.17	NA	319.44	309.93

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.07.2012 :

1: Normal 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 : 19.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER