

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.07.2012

Date of Reporting : 19.07.2012

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
36702	7570	44273	49.68	37676	3851	41527	49.72	884.1	131.88

* 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	52.10	19.31		71.40	111.10	111.68	0.58	183.08	40.82
Haryana	61.35	1.05		62.40	60.61	65.61	5.00	128.01	19.25
Rajasthan	63.90	0.00	26.53	90.43	48.12	53.71	5.59	144.13	2.59
Delhi	32.80			32.80	75.45	73.25	-2.20	106.05	0.00
UP	86.42	10.79	2.40	99.61	92.57	136.07	43.50	235.67	59.50
Uttarakhand		17.68		17.68	9.11	12.22	3.12	29.90	3.97
HP		20.97		20.97	0.97	1.69	0.72	22.66	2.81
J & K		15.28	0.00	15.28	13.27	12.78	-0.49	28.06	2.95
Chandigarh				0.00	6.68	6.53	-0.15	6.53	0.00
Total	296.56	85.07	28.93	410.55	417.87	473.54	55.67	884.09	131.88

* 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	7865	3028	120	2164	7943	1248	35	2164	51.94	
Haryana	5142	913	123	653	5321	783	56	653	15.68	
Rajasthan	5996	3	20	-555	5827	150	95	-548	-13.21	
Delhi	4823	0	342	782	4106	0	-134	792	18.55	
UP	9051	3200	1436	66	10994	1450	2607	166	1.75	
Uttarakhand	1297	221	142	-116	1347	0	277	-116	-2.78	
HP	936	55	-4	-1244	847	120	5	-1401	-31.74	
J&K	1312	150	75	-424	1058	100	-29	-499	-10.95	
Chandigarh	281	0	-9	40	233	0	-4	0	1.07	
Total	36702	7570	2245	1366	37676	3851	2907	1212	30.30	

* 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	1731	1343	2085	41.60	1733	41.53	0.07
Rihand I STPS	1000	806	899	703	19.51	813	19.35	0.16
Rihand II STPS	1000	970	1040	1040	23.53	980	23.28	0.25
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	576	628	640	14.99	624	13.82	1.16
Dadri II STPS	980	758	695	700	18.32	763	18.18	0.14
Unchahar I TPS	420	361	416	415	8.40	350	8.67	-0.26
Unchahar II TPS	420	383	425	421	9.27	386	9.19	0.08
Unchahar III TPS	210	201	220	220	4.85	202	4.82	0.02
ISTPP (Jhajjar)	1000	573	501	965	12.46	519	12.62	-0.16
Dadri GPS	830	722	684	559	16.16	673	16.22	-0.07
Anta GPS	419	390	372	386	9.07	378	8.72	0.35
Auraiya GPS	663	401	290	299	6.83	285	8.34	-1.51
Sub Total (A)	10282	7872	7513	8433	184.98	7708	184.75	0.23
B. NPC								
NAPS	440	257	287	295	6.06	253	6.17	-0.11
RAPS- B	440	197	218	218	4.71	196	4.73	-0.02
RAPS- C	440	200	230	230	4.93	205	4.80	0.13
Sub Total (B)	1320	654	735	743	15.69	654	15.70	0.00
C. NHPC								
Chamera I HPS	540	534	540	540	12.83	535	12.74	0.09
Chamera II HPS	300	300	302	302	7.19	300	7.21	-0.02
Chamera III HPS	231	231	77	79	5.56	232	5.56	0.00
Bairasuil HPS	180	182	100	120	2.38	99	2.03	0.34
Salal-HPS	690	663	662	662	15.84	660	15.91	-0.07
Tanakpur-HPS	94	94	93	94	2.23	93	2.24	-0.01
Uri-HPS	480	475	480	480	11.62	484	11.57	0.04
Dhauliganga-HPS	280	277	209	277	6.17	257	6.10	0.07
Dulhasi-HPS	390	387	397	404	8.98	374	9.14	-0.17
Sewa-II HPS	120	80	41	0	0.43	18	0.39	0.04
Sub Total (C)	3305	3222	2901	2958	73.23	3051	72.90	0.33
D.NJPC								
Nathpa Jhakri	1500	1605	1609	1611	38.62	1609	38.52	0.10
Sub Total (D)	1500	1605	1609	1611	38.62	1609	38.52	0.10
E. THDC								
Tehri HPS	1000	453	0	321	5.08	212	5.00	0.08
Koteshwar HPS	400	230	0	224	1.92	80	1.90	0.01
Sub Total (E)	1400	683	0	545	7.00	292	6.90	0.10
F. BBMB								
Bhakra HPS	1480	712	1163	527	17.41	725	17.08	0.33
Dehar HPS	990	616	825	600	15.02	626	14.78	0.24
Pong HPS	396	231	306	162	5.84	243	5.01	0.83
Sub Total (F)	2866	1559	2294	1289	38.27	1595	36.86	1.41
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	209	177	4.42	184	4.29	0.13
KWHPEP HPS(IPP)	1000	0	1200	1200	28.64	1193	26.88	1.76
Malana Stg-II HPS	100	82	107	103	2.37	99	2.30	0.07
Shree Cement TPS	300	0	271	262	6.50	271	5.33	1.17
Budhil HPS(IPP)	70		35	35	0.81	34		0.81
Sub Total (G)	1662	82	1822	1777	42.73	1781	38.80	3.94
H. Total Regional Entities (A-G)	22336	15677	16874	17356	400.52	16688	394.42	6.10

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	1233	1252	27.56	1148
	Guru Nanak Dev TPS(Bhatinda)	440	205	211	4.37	182
	Guru Hargobind Singh TPS(L.mbt)	920	932	925	20.17	841
	Thermal (Total)	2620	2370	2388	52.10	2171
	Total Hydro	1148	818	803	19.31	804
	Total Punjab	3768	3188	3191	71.40	2975
Haryana	Panipat TPS	1367	1098	1103	26.59	1108
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	366	377	8.92	372
	RGTPP (kheadar) (IPP)	1200	512	472	12.92	538
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	447	578	12.92	538
	Thermal (Total)	4944	2423	2530	61.35	2556
	Total Hydro	62	30	30	1.05	44
	Total Haryana	5006	2453	2560	62.40	2600
Rajasthan	kota TPS	1240	857	866	20.62	859
	suratgarh TPS	1500	887	873	21.09	879
	Chabra TPS	500	223	224	5.23	218
	Dholpur GPS	330	146	84	2.16	90
	Ramgarh GPS	111	53	55	1.39	58
	RAPS A (NPC)	300	170	185	4.31	180
	Barsingsar (NLC)	250	114	102	2.61	109
	Giral LTPS	250	57	43	1.18	49
	Rajwest LTPS (IPP)	540	243	176	5.31	221
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2750	2608	63.90	2662
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	1368	966	25.81	1075
	Biomass	91	22	22	0.54	22
	Solar	128	0	0	0.18	8
	Renewable/Others (Total)	2062	1390	988	26.53	1105
	Total Rajasthan	7767	4140	3596	90.43	3768
UP	Anpara TPS	1630	1169	1194	25.90	1079
	Obra TPS	1382	498	489	10.60	442
	Paricha TPS	890	570	605	12.70	529
	Panki TPS	210	150	150	3.20	133
	Harduaganj TPS	665	36	151	1.20	50
	Tanda TPS (NTPC)	440	294	292	7.24	302
	Roza TPS (IPP)	1200	549	549	13.14	547
	Anpara-C (IPP)	1200	266	270	6.42	267
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	202	212	6.03	251
	Thermal (Total)	8067	3734	3912	86.42	3601
	Vishnuparyag HPS (IPP)	400	436	436	8.94	372
	Other Hydro	527	40	0	1.85	77
	Cogeneration	981	100	100	2.40	100
	Total UP	9975	4310	4448	99.61	3778
Uttarakhand	Total Hydro	1303	838	651	17.68	736
	Total Uttarakhand	1303	838	651	17.68	736
Delhi	Rajghat TPS	135	50	36	1.13	47
	Delhi Gas Turbine	282	213	179	4.86	202
	Pragati Gas Turbine	330	271	280	6.68	278
	Rithala GPS	108	34	0	0.60	25
	Bawana GPS	677	299	0	5.54	231
	Badarpur TPS (NTPC)	705	620	625	13.98	582
	Thermal (Total)	2237	1487	1120	32.80	1366
Total Delhi	2237	1487	1120	32.80	1366	
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	87	73	2.10	87
	Other Hydro	589	453	460	10.95	456
	Total HP	1005	870	863	21	874
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	17911	17077	410.55	16734
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2641	4210	86.41	3600
Total Regional Availability(Gross)		54353	37426	38643	897.49	37023

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8320	7883	192.54	8022
State Control Area Hydro	5368	3221	2995	85.07	3172
Total Regional Hydro	15731	11541	10878	277.60	11194

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	Import	Export	
Vindhychal B/B	300	100	300	0	4.23	0.00	4.23	0.00	4.23
Gwalior-Agra (D/C)	475	1128	1192	0	22.76	0.00	22.76	0.00	22.76
Zerda-Kankroli	-81	184	323	119	2.16	0.00	2.16	0.00	2.16
Zerda-Bhinmal	0	-183	297	69	0.00	1.70	0.00	1.70	-1.70
Malanpur-Auraiya	-91	15	0	91	0.00	0.17	0.00	0.17	-0.17
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	444	594	629	0	9.37	0.00	9.37	0.00	9.37
Sub Total WR	1047	1838			38.52	1.88			36.65
Pusauli Bypass	250	250	250	0	6.05	0.00	6.05	0.00	6.05
MZP- GKP (D/C)	512	892	1048	0	19.69	0.00	19.69	0.00	19.69
Patna-Balia(D/C)	446	591	674	0	12.55	0.00	12.55	0.00	12.55
B'Sharif-Balia (D/C)	220	426	533	0	8.03	0.00	8.03	0.00	8.03
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Pusauli-Balia	59	-9	59	99	0.00	0.59	0.00	0.59	-0.59
Gayaa-Fatehpur (765 Kv)	0	77	206	3	1.78	0.00	1.78	0.00	1.78
Pusauli-Sahupuri	152	170	201	0	3.22	0.00	3.22	0.00	3.22
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.97	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	1594	2372			51.32	1.56			49.77
Total IR Exch	2641	4210			89.84	3.43			86.41

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
22.44	3.72	26.16	-5.91	36.00	-1.68	-7.83	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
18.57	24.73	43.30	49.77	36.65	86.41	31.20	11.91	43.11

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	2.40	10.20	40.70	79.30	59.30	20.70	0.40	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	8.03	48.79	22.06	49.52	2.80	0.22	49.93	49.12

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	408	20:52	396	15:40	0.0	0.0	0.0	0.0
Gorakhpur	400	427	6:05	400	15:35	0.0	0.0	25.6	0.0
Bareilly	400	417	19:59	380	10:09	0.0	7.6	0.0	0.0
Kanpur	400	415	20:49	385	14:11	0.0	1.6	0.0	0.0
Dadri	400	414	18:32	386	10:12	0.0	0.9	0.0	0.0
Ballabgarh	400	419	17:34	390	10:12	0.0	0.0	0.0	0.0
Bawana	400	423	10:05	389	10:10	8.9	8.9	0.9	0.0
Bassi	400	427	17:33	397	8:10	0.0	0.0	4.9	0.0
Hissar	400	415	18:34	388	14:11	0.0	0.3	0.0	0.0
Moga	400	420	17:33	390	11:20	0.0	0.0	0.0	0.0
Abdullapur	400	414	19:04	400	14:03	0.0	0.0	0.0	0.0
Nalagarh	400	411	20:00	400	14:00	0.0	0.0	0.0	0.0
Kishenpur	400	415	23:18	400	10:10	0.0	0.0	0.0	0.0
Wagoora	400	411	23:18	395	22:05	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	473.29	324.41	491.75	788.17	846.36	639.88
Pong	426.72	384.05	393.27	97.37	412.52	577.87	125.05	479.32
Tehri	829.79	740.04	761.95	137.00	818.65	982.26	337.30	156.00
Koteshwar	612.50	598.50	600.66	0.80	NA	NA	156.00	127.00
Chamera-I	760.00	748.75	754.24	12.81	NA	NA	287.55	346.48
Rihand	268.22	252.98	254.05	39.80	256.95	155.50	NA	NA
RPS	352.80	343.81	349.95	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.19	NA	NA	NA	NA	NA
RSD	527.91	487.91	501.81	NA	509.20	NA	294.40	346.94

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.07.2012 :

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 : 18.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER