

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.07.2012

Date of Reporting : 18.07.2012

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
36623	5173	41796	49.71	37322	3715	41037	49.78	875.1	111.32

* 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	52.71	18.25		70.96	116.55	115.84	-0.71	186.80	27.77
Haryana	63.67	1.05		64.72	66.37	69.85	3.48	134.57	11.96
Rajasthan	63.07	0.00	8.77	71.83	41.89	60.40	18.51	132.23	9.82
Delhi	30.87			30.87	81.09	72.60	-8.49	103.47	0.47
UP	86.36	11.99	2.40	100.75	95.89	128.13	32.24	228.88	53.59
Uttarakhand		17.95		17.95	9.18	11.58	2.40	29.54	3.55
HP		20.77		20.77	1.56	2.76	1.19	23.52	1.22
J & K		15.28	0.00	15.28	16.63	14.50	-2.13	29.78	2.95
Chandigarh				0.00	6.69	6.29	-0.40	6.29	0.00
Total	296.67	85.29	11.17	393.12	435.84	481.94	46.10	875.07	111.32

* 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	7803	1469	-402	2196	7957	1010	113	2137	51.82	
Haryana	5439	553	-52	653	5619	807	266	653	15.68	
Rajasthan	5312	381	934	-705	5722	272	502	-698	-16.81	
Delhi	4449	0	-185	755	3911	0	-730	765	17.88	
UP	9706	2460	1600	66	10660	1485	2301	166	1.75	
Uttarakhand	1325	160	210	-116	1295	0	215	-116	-2.78	
HP	943	0	-8	-1280	893	41	21	-1328	-30.97	
J&K	1362	150	-7	-424	1048	100	-230	-449	-10.60	
Chandigarh	284	0	9	40	216	0	-16	0	1.07	
Total	36623	5173	2099	1184	37322	3715	2442	1130	27.04	

* 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	1920	2078	2079	46.69	1945	46.08	0.61
Rihand I STPS	1000	861	959	961	20.90	871	20.66	0.24
Rihand II STPS	1000	970	1043	1040	23.49	979	23.28	0.21
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	695	632	846	16.12	672	15.37	0.75
Dadri II STPS	980	763	984	702	18.52	772	18.30	0.22
Unchahar I TPS	420	361	423	343	8.74	364	8.67	0.07
Unchahar II TPS	420	361	421	343	8.74	364	8.67	0.07
Unchahar III TPS	210	183	216	176	4.43	185	4.40	0.03
ISTPP (Jhajjar)	1000	940	1003	769	20.11	838	19.95	0.17
Dadri GPS	830	576	541	563	12.64	526	12.87	-0.23
Anta GPS	419	390	369	323	8.76	365	8.24	0.52
Auraiya GPS	663	405	295	304	6.92	288	8.10	-1.18
Sub Total (A)	10282	8424	8964	8449	196.04	8168	194.57	1.47
B. NPC								
NAPS	440	258	289	300	6.12	255	6.19	-0.07
RAPS- B	440	200	218	220	4.72	197	4.80	-0.08
RAPS- C	440	200	229	233	5.02	209	4.80	0.22
Sub Total (B)	1320	658	736	753	15.86	661	15.79	0.06
C. NHPC								
Chamera I HPS	540	534	540	540	12.87	536	12.82	0.06
Chamera II HPS	300	300	303	303	7.23	301	7.26	-0.02
Chamera III HPS	231	231	236	235	5.53	231	5.47	0.06
Bairasuil HPS	180	182	120	120	2.26	94	1.86	0.40
Salal-HPS	690	663	662	662	15.80	658	15.91	-0.11
Tanakpur-HPS	94	93	93	93	2.21	92	2.20	0.01
Uri-HPS	480	467	480	480	11.60	483	11.57	0.03
Dhauliganga-HPS	280	277	279	277	6.70	279	6.65	0.05
Dulhasi-HPS	390	387	390	395	9.26	386	9.28	-0.02
Sewa-II HPS	120	80	0	0	0.35	15	0.34	0.01
Sub Total (C)	3305	3213	3103	3105	73.81	3075	73.35	0.46
D.NJPC								
Nathpa Jhakri	1500	1605	1608	1610	38.68	1612	38.52	0.16
Sub Total (D)	1500	1605	1608	1610	38.68	1612	38.52	0.16
E. THDC								
Tehri HPS	1000	453	0	321	5.10	212	5.00	0.10
Koteshwar HPS	400	230	0	163	2.08	87	2.05	0.03
Sub Total (E)	1400	683	0	484	7.18	299	7.05	0.13
F. BBMB								
Bhakra HPS	1480	731	1160	523	17.86	744	17.55	0.31
Dehar HPS	990	616	825	620	15.14	631	14.78	0.37
Pong HPS	396	240	306	306	5.93	247	5.01	0.92
Sub Total (F)	2866	1587	2291	1449	38.93	1622	37.33	1.60
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	226	176	4.08	170	4.29	-0.21
KWHEP HPS(IPP)	1000	0	1200	952	24.97	1041	23.80	1.17
Malana Stg-II HPS	100	84	97	92	2.26	94	2.04	0.22
Shree Cement TPS	300	0	274	270	6.50	271	5.08	1.41
Budhil HPS(IPP)	70		35	35	0.83	34		0.83
Sub Total (G)	1662	84	1832	1525	38.63	1610	35.21	3.42
H. Total Regional Entities (A-G)	22336	16254	18534	17375	409.13	17047	401.83	7.30

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	1254	1245	28.16	1173
	Guru Nanak Dev TPS(Bhatinda)	440	211	210	4.28	178
	Guru Hargobind Singh TPS(L.mbt)	920	912	935	20.26	844
	Thermal (Total)	2620	2377	2390	52.71	2196
	Total Hydro	1148	816	798	18.25	760
	Total Punjab	3768	3193	3188	70.96	2957
Haryana	Panipat TPS	1367	1094	1119	26.70	1112
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	369	382	9.07	378
	RGTPP (kheadar) (IPP)	1200	509	482	13.11	546
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar (CLP)	1320	574	584	14.79	616
	Thermal (Total)	4944	2546	2567	63.67	2653
	Total Hydro	62	30	31	1.05	44
	Total Haryana	5006	2576	2598	64.72	2697
	Rajasthan	kota TPS	1240	877	880	20.74
suratgarh TPS		1500	877	885	21.13	881
Chabra TPS		500	224	218	4.94	206
Dholpur GPS		330	90	70	2.19	91
Ramgarh GPS		111	55	55	1.38	58
RAPS A (NPC)		300	185	185	4.32	180
Barsingsar (NLC)		250	103	104	2.60	108
Giral LTPS		250	51	59	1.16	48
Rajwest LTPS (IPP)		540	162	243	4.60	192
VSLLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	2624	2699	63.07	2628
Total Hydro		550	0	0	0.00	0
Wind power		1843	202	582	8.14	339
Biomass		91	19	19	0.45	19
Solar		128	0	0	0.18	8
Renewable/Others (Total)		2062	221	601	8.77	365
Total Rajasthan		7767	2845	3300	71.83	2993
UP		Anpara TPS	1630	1071	851	23.60
	Obra TPS	1382	444	411	10.20	425
	Paricha TPS	890	548	540	12.70	529
	Panki TPS	210	126	140	3.10	129
	Harduaganj TPS	665	199	173	4.50	188
	Tanda TPS (NTPC)	440	294	296	7.23	301
	Roza TPS (IPP)	1200	549	549	13.13	547
	Anpara-C (IPP)	1200	268	365	7.53	314
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	174	188	4.36	182
	Thermal (Total)	8067	3673	3513	86.36	3598
	Vishnuparyag HPS (IPP)	400	436	436	10.21	425
	Other Hydro	527	40	0	1.79	74
	Cogeneration	981	100	100	2.40	100
	Total UP	9975	4249	4049	100.75	3773
	Uttarakhand	Total Hydro	1303	776	668	17.95
Total Uttarakhand		1303	776	668	17.95	748
Delhi	Rajghat TPS	135	15	41	0.66	28
	Delhi Gas Turbine	282	173	210	4.78	199
	Pragati Gas Turbine	330	278	276	6.80	283
	Rithala GPS	108	0	0	0.05	2
	Bawana GPS	677	274	219	4.42	184
	Badarpur TPS (NTPC)	705	585	645	14.16	590
	Thermal (Total)	2237	1325	1391	30.87	1286
	Total Delhi	2237	1325	1391	30.87	1286
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	81	60	1.88	78
	Other Hydro	589	462	457	10.96	457
	Total HP	1005	873	847	21	865
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	16462	16689	393.12	15955
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3177	4321	89.70	3738
Total Regional Availability(Gross)		54353	38173	38385	891.95	36739

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8525	7868	189.91	7913
State Control Area Hydro	5368	3160	2992	85.29	3129
Total Regional Hydro	15731	11685	10860	275.20	11041

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	100	100	500	0	5.10	0.00	5.10
Gwalior-Agra (D/C)	648	1050	1050	0	19.69	0.00	19.69
Zerda-Kankroli	109	192	215	28	2.78	0.00	2.78
Zerda-Bhinmal	169	228	309	0	4.27	0.00	4.27
Malanpur-Auraiya	-83	-7	0	85	0.00	0.65	-0.65
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	589	505	603	0	12.88	0.00	12.88
Sub Total WR	1532	2068			44.73	0.65	44.08
Pusauli Bypass	250	250	250	0	6.00	0.00	6.00
MZP- GKP (D/C)	560	888	1022	0	18.19	0.00	18.19
Patna-Balia(D/C)	214	249	412	0	6.98	0.00	6.98
B'Sharif-Balia (D/C)	246	325	447	0	7.84	0.00	7.84
Barh - Balia(D/C)	257	300	323	0	3.65	0.00	3.65
Pusauli-Balia	-1	-3	32	75	0.00	0.63	-0.63
Gayaa-Fatehpur (765 Kv)	0	105	187	4	1.65	0.00	1.65
Pusauli-Sahupuri	164	164	170	0	2.91	0.00	2.91
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	1645	2253			47.22	1.60	45.62
Total IR Exch	3177	4321			91.94	2.24	89.70

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
32.92	3.72	36.63	-4.19	34.42	-1.77	-6.38	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
30.67	22.89	53.56	45.62	44.08	89.70	14.95	21.19	36.14

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	0.60	3.10	35.00	74.70	65.00	25.30	1.30	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				
50.15	18.33	48.80	22.08	49.57	2.25	0.20	49.98	49.10

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	404	20:31	394	12:08	0.0	0.0	0.0	0.0
Gorakhpur	400	430	5:28	401	22:23	0.0	0.0	37.7	0.0
Bareilly	400	415	6:01	387	12:11	0.0	0.7	0.0	0.0
Kanpur	400	413	19:59	389	12:11	0.0	0.0	0.0	0.0
Dadri	400	411	18:35	392	12:11	0.0	0.0	0.0	0.0
Ballabgarh	400	416	5:33	393	12:11	0.0	0.0	0.0	0.0
Bawana	400	415	5:34	396	15:00	0.0	0.0	0.0	0.0
Bassi	400	426	18:33	402	12:11	0.0	0.0	20.0	0.0
Hissar	400	406	13:02	393	12:11	0.0	0.0	0.0	0.0
Moga	400	415	17:01	394	15:04	0.0	0.0	0.0	0.0
Abdullapur	400	415	5:32	287	10:02	0.0	0.0	0.0	0.0
Nalagarh	400	413	5:59	394	15:01	0.0	0.0	0.0	0.0
Kishenpur	400	411	5:30	398	15:00	0.0	0.0	0.0	0.0
Wagoora	400	409	2:52	392	11:06	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	472.73	313.90	490.81	758.57	931.76	749.09
Pong	426.72	384.05	393.97	111.75	331.65	407.56	442.48	406.23
Tehri	829.79	740.04	759.95	120.54	818.65	982.26	330.22	184.00
Koteshwar	612.50	598.50	600.65	0.80	NA	NA	187.00	165.00
Chamera-I	760.00	748.75	754.24	12.81	NA	NA	287.55	346.48
Rihand	268.22	252.98	254.14	43.20	256.82	150.30	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 17.07.2012 :

1: Scattered Rain 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 : 17.07.2012

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER