

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 07.07.2014
Date of Reporting : 08.07.2014

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
44005	2391	46396	49.80	42752	2190	44942	50.00	1031.0	79.49

* 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	73.70	23.31		97.01	122.05	121.52	-0.53	218.54	0.00
Haryana	58.86	0.58		59.44	110.30	108.39	-1.91	167.83	0.00
Rajasthan	105.19	0.00	24.83	130.02	58.73	61.66	2.93	191.68	34.62
Delhi	30.59			30.59	80.10	77.34	-2.76	107.93	0.61
UP	113.85	14.46	1.20	129.51	115.52	114.44	-1.08	243.95	41.88
Uttarakhand		21.88		21.88	12.57	13.95	1.37	35.83	0.67
HP		25.07		25.07	-0.16	0.76	0.92	25.82	0.00
J & K		14.84	0.00	14.84	17.15	18.17	1.03	33.01	1.70
Chandigarh				0.00	5.53	6.41	0.88	6.41	0.00
Total	382.19	100.14	26.03	508.36	521.79	522.64	0.85	1031.00	79.49

* 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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	9387	0	-171	1569	9413	0	-10	1817	9666
Haryana	7383	0	-569	1227	6892	0	-70	1597	7756
Rajasthan	7710	0	105	-678	7982	0	60	-384	8585
Delhi	4618	11	-27	343	4119	0	-158	218	5252
UP	10265	2205	-28	624	10310	2190	-3	944	11030
Uttarakhand	1666	75	128	0	1412	0	66	-25	1703
HP	1042	0	-9	-1254	888	0	24	-1483	1222
J&K	1657	100	150	-230	1505	0	134	-353	1719
Chandigarh	277	0	46	0	232	0	29	0	332
Total	44005	2391	-375	1600	42752	2190	72	2330	45687

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1637	1544	2062	41.02	1709	39.30	1.72
	Rihand I STPS	1000	834	924	878	20.75	865	20.03	0.72
	Rihand II STPS	1000	890	1038	894	22.09	920	21.36	0.72
	Rihand III STPS	1000	450	494	487	11.08	462	10.80	0.28
	Dadri I STPS	840	813	746	621	15.06	628	15.53	-0.46
	Dadri II STPS	980	966	995	742	20.71	863	21.20	-0.49
	Unchahar I TPS	420	395	433	435	9.44	393	9.40	0.03
	Unchahar II TPS	420	393	430	415	9.32	388	9.28	0.04
	Unchahar III TPS	210	198	219	220	4.67	194	4.69	-0.03
	ISTPP (Jhajhar)	1500	1410	1009	951	20.91	871	21.40	-0.48
	Dadri GPS	830	602	173	372	6.25	260	6.73	-0.48
	Anta GPS	419	367	248	254	5.45	227	5.33	0.12
	Auraiya GPS	663	629	148	151	3.47	145	3.55	-0.08
	Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
	Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
	Sub Total (A)	11297	9589	8401	8482	190	7927	189	2
B. NPC	NAPS	440	269	308	312	6.52	272	6.46	0.06
	RAPS- B	440	393	437	439	9.88	412	9.43	0.45
	RAPS- C	440	205	220	224	4.61	192	6.14	-1.53
	Sub Total (B)	1320	867	965	975	21.00	875	22.03	-1.02
C. NHPC	Chamera I HPS	540	535	548	543	13.08	545	12.84	0.24
	Chamera II HPS	300	301	308	306	7.32	305	7.22	0.10
	Chamera III HPS	231	225	241	240	5.51	230	5.40	0.11
	Bairasui HPS	180	179	182	130	2.97	124	2.72	0.25
	Salal-HPS	690	663	675	678	16.24	677	15.91	0.33
	Tanakpur-HPS	94	73	82	70	1.79	75	1.75	0.03
	Uri-HPS	480	475	477	476	11.53	481	11.40	0.13
	Uri-II HPS	240	234	245	245	5.57	232	5.61	-0.05
	Dhauliganga-HPS	280	112	140	70	2.89	121	2.61	0.28
	Dulhasti-HPS	390	258	276	269	6.22	259	6.19	0.02
	Sewa-II HPS	120	119	128	0	1.39	58	1.20	0.19
	Parbati 3	390	260	269	263	4.86	203	4.71	0.15
	Sub Total ©	3935	3434	3571	3290	79	3307	78	2
D.SJVNL	NJPC	1500	1605	1620	1617	38.59	1608	38.52	0.07
	Rampur HEP	275	280	289	290	6.94	289	6.72	0.22
	Sub Total (D)	1775	1885	1909	1907	45.53	1897	45.24	0.29
E. THDC	Tehri HPS	1000	584	590	263	6.40	267	6.20	0.20
	Koteshwar HPS	400	129	102	92	3.18	132	3.10	0.08
	Sub Total (E)	1400	713	692	355	9.58	399	9.30	0.28
F. BBMB	Bhakra HPS	1514	884	1332	913	21.97	915	21.23	0.74
	Dehar HPS	990	568	825	610	13.97	582	13.63	0.34
	Pong HPS	396	248	360	180	5.93	247	5.96	-0.02
	Sub Total (F)	2900	1701	2517	1703	41.87	1745	40.81	1.06
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	231	5.46	227	5.30	0.16
	KWHEP HPS(IPP)	1000	0	1200	1200	28.72	1196	28.46	0.26
	Malana Stg-II HPS	100	0	113	113	2.67	111	2.51	0.16
	Shree Cement TPS	300	0	248	249	6.20	258	6.16	0.04
	Budhil HPS(IPP)	70	0	14	14	1.68	70	1.68	0.01
	Sub Total (G)	1662	0	1806	1807	44.73	1864	44.11	0.62
H. Total Regional Entities (A-G)		24289	18188	19861	18519	432.32	18013	427.73	4.59

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	1235	1190	26.94	1123
	Guru Nanak Dev TPS(Bhatinda)	440	333	280	6.87	286
	Guru Hargobind Singh TPS(L.mbt)	920	715	539	14.36	598
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	1062	1238	25.52	1064
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	3345	3247	73.70	3071
	Total Hydro	1148	985	954	23.31	971
	Total Punjab	5128	4330	4201	97.01	4042
	Haryana	Panipat TPS	1367	222	215	5.21
DCRTPP (Yamuna nagar)		600	520	499	12.11	505
Faridabad GPS (NTPC)		432	0	0	0.00	0
RGTPP (khedar) (IPP)		1200	1088	798	20.46	852
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	1080	739	21.08	878
Thermal (Total)		4944	2910	2251	58.86	2452
Total Hydro		62	25	25	0.58	24
Total Haryana		5006	2935	2276	59.44	2477
Rajasthan		kota TPS	1240	937	961	22.32
	suratgarh TPS	1500	1093	1094	25.89	1079
	Chabra TPS	750	392	358	9.47	395
	Dholpur GPS	330	115	124	2.91	121
	Ramgarh GPS	271	163	157	3.66	152
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	98	2.15	90
	Giral LTPS	250	84	84	1.26	52
	Rajwest LTPS (IPP)	1080	829	837	20.47	853
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	927	600	17.06	711
	Thermal (Total)	8026	4638	4313	105	4383
	Total Hydro	550	0	0	0.00	0
	Wind power	2798	0	1091	23.69	987
	Biomass	99	27	27	0.64	27
	Solar	730	0	0	0.49	21
	Renewable/Others (Total)	3627	27	1118	24.83	1035
	Total Rajasthan	12203	4665	5431	130.02	5418
	UP	Anpara TPS	1630	871	881	20.70
Obra TPS		1288	465	311	9.18	383
Paricha TPS		1140	760	770	18.00	750
Panki TPS		210	153	149	3.60	150
Harduaganj TPS		665	183	192	4.50	188
Tanda TPS (NTPC)		440	276	265	6.84	285
Roza TPS (IPP)		1200	1080	1004	26.01	1084
Anpara-C (IPP)		1200	1002	536	17.46	728
Bajaj Energy Pvt.Ltd(IPP) TPS		450	281	281	7.56	315
Thermal (Total)		8223	5071	4389	113.85	4744
Vishnuparyag HPS (IPP)		400	436	436	10.50	438
Other Hydro		527	143	118	3.96	165
Cogeneration		981	50	50	1.20	50
Total UP		10131	5700	4993	129.51	4959
Uttarakhand	Total Hydro	1303	951	826	21.88	912
	Total Uttarakhand	1303	951	826	21.88	912
Delhi	Rajghat TPS	135	45	42	1.25	52
	Delhi Gas Turbine	282	174	150	3.79	158
	Pragati Gas Turbine	330	281	286	7.08	295
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	286	228	7.32	305
	Badarpur TPS (NTPC)	705	384	464	11.16	465
	Thermal (Total)	2917	1170	1170	30.59	1275
	Total Delhi	2917	1170	1170	30.59	1275
HP	Baspa HPS (IPP)	300	330	301	7.78	324
	Malana HPS (IPP)	86	103	103	2.47	103
	Other Hydro	728	622	633	14.82	617
	Total HP	1114	1055	1037	25.07	1044
J & K	Baqilhar HPS (IPP)	450	442	442	10.62	442
	Other Hydro/IPP	436	163	173	4.22	176
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	605	615	14.84	618
Total State Control Area Generation		38896	21411	20549	508.36	20744
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4518	4970	123.30	5137
Total Regional Availability(Gross)		63186	45790	44038	1063.97	43895

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10233	8799	213.20	8883
State Control Area Hydro	5589	3764	3575	100.14	3735
Total Regional Hydro	16891	13997	12374	313.33	12618

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	50	-250	350	50	4.65	0.38	4.27
Gwalior-Agra (D/C)	1456	1770	1971	0	38.17	0.00	38.17
Zerda-Kankroli	-167	-166	238	238	0.00	4.62	-4.62
Zerda-Bhinmal	-190	-197	0	300	0.00	4.84	-4.84
Malanpur-Auraiya	-52	-31	0	90	0.00	0.99	-0.99
Badod-Kota/Morak	-44	-42	0	54	0.00	0.71	-0.71
Mundra-Mohindergarh(HVDC)	2002	1998	2014	0	48.39	0.00	48.39
Vindhychal - Rihand	500	500	512	0	12.06	0.00	12.06
Sub Total WR	3555	3582			103.27	11.53	91.74
Pusaui Bypass	400	400	400	0	9.73	0.00	9.73
MZP- GKP (D/C)	200	480	630	0	10.08	0.00	10.08
Patna-Balia(D/C)	61	162	271	0	3.70	0.00	3.70
B'Sharif-Balia (D/C)	165	221	296	0	4.43	0.00	4.43
Pusaui-Balia	-80	-58	-108	108	0.00	1.76	-1.76
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	114	126	149	0	3.07	0.00	3.07
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-30	-36	0	36	0.00	0.67	-0.67
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	133	93	247	1	2.98	0.00	2.98
Sub Total ER	963	1388			33.99	2.44	31.55
Total IR Exch	4518	4970			137.26	13.97	123.30

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
25.00	3.77	28.77	20.97	6.82	-1.38	-12.30	-0.19	0.19

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
48.17	65.10	113.27	31.55	91.74	123.30	-16.61	26.64	10.03

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

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	8.14	29.57	61.30	86.99	33.62	4.64	0.51	0.03	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.13	8.01	49.52	14.38	49.86	0.32	0.12	50.11	0.00

VII. Voltage profile 400 kV

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	18:00	399	21:15	0.0	0.0	0.0	0.0
Gorakhpur	400	413	18:00	399	22:04	0.0	0.0	0.0	0.0
Bareilly	400	413	18:15	379	16:32	0.1	0.1	0.0	0.0
Kanpur	400	412	18:15	399	20:04	0.0	0.0	0.0	0.0
Dadri	400	409	18:16	396	15:47	0.0	0.0	0.0	0.0
Ballabgarh	400	414	18:16	398	15:53	0.0	0.0	0.0	0.0
Bawana	400	412	18:17	399	15:43	0.0	0.0	0.0	0.0
Bassi	400	423	18:16	401	22:08	0.0	0.0	3.3	0.0
Hissar	400	407	18:17	393	20:04	0.0	0.0	0.0	0.0
Moga	400	405	17:35	397	22:06	0.0	0.0	0.0	0.0
Abdullapur	400	413	18:14	396	16:23	0.0	0.0	0.0	0.0
Nalagarh	400	407	21:03	396	15:43	0.0	0.0	0.0	0.0
Kishenpur	400	411	17:34	402	20:04	0.0	0.0	0.0	0.0
Wagoora	400	406	16:17	390	20:06	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	765	18:16	737	22:08	0.0	5.5	0.0	0.0
Balia	765	759	18:51	739	22:08	0.0	2.4	0.0	0.0
Moga	765	783	17:36	763	20:06	0.0	0.0	0.0	0.0
Agra	765	784	18:16	728	16:27	0.0	0.1	0.0	0.0
Bhiwani	765	786	18:16	762	22:08	0.0	0.0	0.0	0.0
Unnao	765	747	18:17	727	20:05	0.6	41.0	0.0	0.0

IX. 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	487.48	652.97	491.45	778.28	1057.52	746.49
Pong	426.72	384.05	400.80	237.89	404.34	328.16	215.09	376.70
Tehri	829.79	740.04	748.65	42.00	NA	NA	301.26	205.00
Koteshwar	612.50	598.50	610.77	4.95	608.40	3.76	208.00	207.00
Chamera-I	760.00	748.75	757.00	12.82	NA	NA	505.02	347.40
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1618	199	0	1569	0	0	38.04	3.15	41.20
Delhi	320	-82	-20	359	4	-20	11.00	-2.38	8.63
Haryana	1530	67	0	1484	-257	0	33.05	-3.51	29.54
HP	-926	-557	0	-774	-481	0	-19.23	-11.68	-30.90
J&K	-334	-19	0	-334	104	0	-10.07	-2.16	-12.23
CHD	0	0	0	0	0	0	0.33	0.30	0.63
Rajasthan	-633	244	5	-756	78	0	-12.75	7.87	-4.87
UP	387	541	15	279	345	0	7.70	3.81	11.51
Uttarakhand	0	-25	0	0	0	0	0.00	-0.41	-0.41
Total	1963	368	-1	1827	-207	-20	48.08	-4.99	43.09

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1618	1569	461	0	0	0
Delhi	763	271	180	-568	0	-20
Haryana	1530	1013	187	-310	0	0
HP	-723	-926	-386	-557	0	0
J&K	-334	-536	104	-273	0	0
CHD	42	0	44	0	0	0
Rajasthan	77	-756	1496	13	5	0
UP	467	232	541	0	20	0
Uttarakhand	0	0	21	-25	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 07.07.2014 :**

1. Scattered rain in NR.

XIV. Synchronisation of new generating units :

0.00

XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**