

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.07.2014
Date of Reporting : 27.07.2014

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
43404	3250	46654	49.94	43045	2340	45385	49.93	1022.5	58.90

* 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	65.39	23.10		88.49	120.59	121.27	0.68	209.76	2.50
Haryana	63.75	0.52		64.27	113.73	113.03	-0.70	177.30	0.26
Rajasthan	109.58	0.21	8.76	118.55	51.71	54.25	2.54	172.80	1.67
Delhi	30.72			30.72	72.09	73.08	0.98	103.80	0.20
UP	125.23	14.61	1.20	141.04	123.11	124.93	1.82	265.97	51.05
Uttarakhand		16.98		16.98	14.62	16.36	1.74	33.34	1.95
HP		23.56		23.56	-0.82	-0.35	0.46	23.21	1.26
J & K		14.73	0.00	14.73	17.13	16.15	-0.98	30.88	0.00
Chandigarh				0.00	5.20	5.41	0.21	5.41	0.00
Total	394.67	93.71	9.96	498.35	517.36	524.12	6.76	1022.47	58.90

* 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	8909	0	-63	1422	8873	0	80	1785	9190
Haryana	7951	6	-88	1263	7432	0	-9	1721	8371
Rajasthan	6688	252	-52	-800	7294	0	-30	-319	7644
Delhi	4597	2	333	435	3965	0	-95	252	5032
UP	10792	2745	-133	438	11630	2340	-27	981	11964
Uttarakhand	1631	105	217	96	1398	0	74	85	1631
HP	967	40	41	-1322	890	0	42	-1440	1178
J&K	1623	100	-1	-225	1370	0	86	-430	1660
Chandigarh	246	0	17	0	194	0	5	0	262
Total	43404	3250	271	1305	43045	2340	128	2636	44759

* 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 (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU
Rihand I STPS	1000	850	935	934	22.27	928	20.19	2.08	
Rihand II STPS	1000	465	519	523	12.38	516	11.01	1.36	
Rihand III STPS	1000	861	903	929	21.81	909	20.38	1.43	
Dadri I STPS	840	770	829	617	17.35	723	16.46	0.89	
Dadri II STPS	980	473	490	470	11.44	477	11.21	0.23	
Unchahar I TPS	420	393	433	418	10.16	423	9.32	0.84	
Unchahar II TPS	420	400	440	438	10.32	430	9.44	0.88	
Unchahar III TPS	210	198	217	205	5.15	214	4.68	0.46	
ISTPP (Jhajjar)	1500	950	994	808	21.32	888	21.73	-0.41	
Dadri GPS	830	519	264	376	7.81	326	7.84	-0.02	
Anta GPS	419	386	233	242	5.52	230	5.60	-0.08	
Auraiya GPS	663	632	152	150	3.65	152	3.52	0.13	
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03	
Unchahar Solar	10	3	0	0	0.02	1	0.07	-0.05	
Sub Total (A)	11297	8600	8216	7965	193	8061	182	11	
B. NPC	NAPS	440	272	304	311	6.50	271	6.53	-0.02
RAPS- B	440	396	434	445	9.51	396	9.50	0.00	
RAPS- C	440	390	408	416	8.89	370	9.36	-0.47	
Sub Total (B)	1320	1058	1146	1172	24.90	1037	25.39	-0.49	
C. NHPC	Chamera I HPS	540	534	550	551	13.18	549	12.82	0.37
Chamera II HPS	300	301	310	307	7.34	306	7.22	0.12	
Chamera III HPS	231	224	232	237	5.43	226	5.39	0.04	
Bairasui HPS	180	178	182	120	3.32	139	3.22	0.10	
Salal-HPS	690	663	682	681	16.41	684	15.91	0.51	
Tanakpur-HPS	94	73	87	45	1.86	77	1.75	0.10	
Uri-HPS	480	475	474	474	11.50	479	11.40	0.10	
Uri-II HPS	240	240	242	243	5.79	241	5.76	0.03	
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
Dulhasti-HPS	390	386	396	391	9.31	388	9.26	0.04	
Sewa-II HPS	120	119	129	0	1.15	48	1.00	0.15	
Parbati 3	390	261	271	264	6.37	265	6.26	0.11	
Sub Total ©	3935	3454	3556	3312	82	3402	80	2	
D.SJVNL	NJPC	1500	1605	1605	1605	36.30	1512	36.21	0.09
Rampur HEP	275	225	280	280	5.44	227	5.39	0.05	
Sub Total (D)	1775	1830	1885	1885	41.74	1739	41.60	0.14	
E. THDC	Tehri HPS	1000	820	820	409	13.73	572	13.50	0.23
Koteshwar HPS	400	300	299	92	5.53	230	5.50	0.03	
Sub Total (E)	1400	1120	1119	501	19.26	802	19.00	0.26	
F. BBMB	Bhakra HPS	1514	957	1342	825	23.27	969	22.97	0.29
Dehar HPS	990	568	825	580	13.95	581	13.63	0.32	
Pong HPS	396	223	376	64	5.36	223	5.36	0.00	
Sub Total (F)	2900	1748	2543	1469	42.57	1774	41.96	0.61	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	229	229	5.45	227	5.25	0.20
KWHEP HPS(IPP)	1000	0	1200	1200	28.43	1185	28.51	-0.08	
Malana Stg-II HPS	100	0	113	112	2.68	111	2.51	0.17	
Shree Cement TPS	300	0	142	17	2.65	110	2.96	-0.31	
Budhil HPS(IPP)	70	0	71	71	1.69	71	1.67	0.02	
Sub Total (G)	1662	0	1756	1629	40.90	1704	40.91	-0.01	
H. Total Regional Entities (A-G)	24289	17811	20220	17933	444.49	18521	431.04	13.45	

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	780	710	17.93	747
	Guru Nanak Dev TPS(Bhatinda)	440	212	332	6.35	265
	Guru Hargobind Singh TPS(L.mbt)	920	941	908	20.51	855
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	1106	863	20.60	858
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	3039	2813	65.39	2725
	Total Hydro	1148	975	956	23.10	962
	Total Punjab	5128	4014	3769	88.49	3687
	Haryana	Panipat TPS	1367	499	609	13.30
DCRTPP (Yamuna nagar)		600	442	429	10.61	442
Faridabad GPS (NTPC)		432	192	175	4.39	183
RGTPP (khedar) (IPP)		1200	927	929	21.61	900
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	1059	384	13.84	577
Thermal (Total)		4944	3119	2526	63.75	2656
Total Hydro		62	20	21	0.52	22
Total Haryana		5006	3139	2547	64.27	2678
Rajasthan		kota TPS	1240	711	656	16.32
	suratgarh TPS	1500	1101	1127	26.25	1094
	Chabra TPS	750	338	341	8.50	354
	Dholpur GPS	330	95	92	2.30	96
	Ramgarh GPS	271	140	126	3.43	143
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	98	2.20	92
	Giral LTPS	250	0	0	0.00	0
	Rajwst LTPS (IPP)	1080	836	828	20.39	850
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	400	408	9.88	412
	Kawai(Adani)	1320	604	1186	20.30	846
	Thermal (Total)	8026	4323	4862	110	4566
	Total Hydro	550	0	0	0.21	9
	Wind power	2798	443	349	7.68	320
	Biomass	99	36	36	0.86	36
	Solar	730	0	0	0.22	9
	Renewable/Others (Total)	3627	479	385	8.76	365
	Total Rajasthan	12203	4802	5247	118.55	4940
	UP	Anpara TPS	1630	865	880	20.70
Obra TPS		1288	506	512	12.00	500
Paricha TPS		1140	745	711	18.40	767
Panki TPS		210	0	77	0.60	25
Harduaganj TPS		665	416	410	9.80	408
Tanda TPS (NTPC)		440	371	374	9.21	384
Roza TPS (IPP)		1200	1107	1098	28.35	1181
Anpara-C (IPP)		1200	720	819	18.03	751
Bajaj Energy Pvt.Ltd(IPP) TPS		450	320	363	8.13	339
Thermal (Total)		8223	5050	5244	125.23	5218
Vishnuparyag HPS (IPP)		400	436	436	10.47	436
Other Hydro		527	196	185	4.14	173
Cogeneration		981	50	50	1.20	50
Total UP		10131	5732	5915	141.04	5440
Uttarakhand		Total Hydro	1303	773	848	16.98
	Total Uttarakhand	1303	773	848	16.98	708
Delhi	Rajghat TPS	135	90	96	2.36	98
	Delhi Gas Turbine	282	148	151	3.58	149
	Pragati Gas Turbine	330	278	278	6.97	291
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	297	304	7.45	310
	Badarpur TPS (NTPC)	705	426	416	10.36	432
	Thermal (Total)	2917	1239	1245	30.72	1280
	Total Delhi	2917	1239	1245	30.72	1280
HP	Baspa HPS (IPP)	300	331	331	7.87	328
	Malana HPS (IPP)	86	104	104	2.48	103
	Other Hydro	728	541	553	13.22	551
	Total HP	1114	976	988	23.56	982
J & K	Baqlihar HPS (IPP)	450	438	438	10.51	438
	Other Hydro/IPP	436	163	175	4.22	176
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	601	613	14.73	614
Total State Control Area Generation		38896	21276	21172	498.35	20328
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3897	5857	124.60	5192
Total Regional Availability(Gross)		63186	45393	44962	1067.43	44040

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10645	8708	221.78	9241
State Control Area Hydro	5589	3541	3611	93.71	3469
Total Regional Hydro	16891	14186	12319	315.50	12710

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	150	250	50	1.33	0.75	0.58
Gwalior-Agra (D/C)	1035	1843	2107	0	34.85	0.00	34.85
Zerda-Kankroli	-331	-57	0	337	0.00	4.25	-4.25
Zerda-Bhinmal	-315	-45	7	340	0.00	3.81	-3.81
Malanpur-Auraiya	-35	-1	0	35	0.00	1.33	-1.33
Badod-Kota/Morak	-80	-65	0	104	0.00	1.93	-1.93
Mundra-Mohindergarh(HVDC)	2297	1998	2305	0	51.70	0.00	51.70
Vindhychal - Rihand	500	450	500	0	11.96	0.00	11.96
Sub Total WR	3021	4273			99.84	12.08	87.76
Pusaali Bypass	400	400	400	0	9.78	0.00	9.78
MZP- GKP (D/C)	228	500	684	0	10.86	0.00	10.86
Patna-Balia(D/C)	286	229	500	0	8.49	0.00	8.49
B'Sharif-Balia (D/C)	-11	322	322	53	4.47	0.00	4.47
Pusaali-Balia	-114	-37	0	123	0.00	1.61	-1.61
Gaya-Fatehpur (765 Kv)	-49	-1	102	81	0.27	0.00	0.27
Pusaali-Sahupuri	146	160	195	0	3.45	0.00	3.45
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-33	-38	0	-39	0.00	0.79	-0.79
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	23	49	186	32	1.92	0.00	1.92
Sub Total ER	876	1584			39.23	2.40	36.83
Total IR Exch	3897	5857			139.07	14.48	124.60

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
19.55	3.77	23.33	11.26	5.66	-3.58	14.02	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
31.00	75.21	106.21	36.83	87.76	124.60	5.83	12.56	18.38

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	3.21	18.03	52.10	80.76	38.88	5.88	2.65	0.49	NA

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.24	18.01	49.46	19.38	49.89	0.25	0.12	50.21	49.60

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	405	05:01	400	14:08	0.0	0.0	0.0	0.0
Gorakhpur	400	409	20:02	390	14:02	0.0	0.0	0.0	0.0
Bareilly	400	415	18:00	391	14:54	0.0	0.0	0.0	0.0
Kanpur	400	415	05:02	402	00:20	0.0	0.0	0.0	0.0
Dadri	400	410	06:02	393	14:55	0.0	0.0	0.0	0.0
Ballabgarh	400	418	05:03	400	14:55	0.0	0.0	0.0	0.0
Bawana	400	415	06:03	399	14:54	0.0	0.0	0.0	0.0
Bassi	400	428	05:03	412	22:08	0.0	0.0	38.7	0.0
Hissar	400	408	08:01	393	14:55	0.0	0.0	0.0	0.0
Moga	400	404	13:38	404	13:38	0.0	0.0	0.0	0.0
Abdullapur	400	414	06:02	396	23:07	0.0	0.0	0.0	0.0
Nalagarh	400	413	06:02	397	14:32	0.0	0.0	0.0	0.0
Kishenpur	400	414	06:01	406	20:15	0.0	0.0	0.0	0.0
Wagoora	400	411	06:01	395	19:34	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	775	05:04	745	14:55	0.0	0.0	0.0	0.0
Balia	765	774	05:10	747	00:19	0.0	0.0	0.0	0.0
Moga	765	774	09:04	761	22:32	0.0	0.0	0.0	0.0
Agra	765	790	18:00	759	23:03	0.0	0.0	0.0	0.0
Bhiwani	765	794	08:03	764	23:03	0.0	0.0	0.0	0.0
Unnao	765	759	18:02	725	00:20	1.2	48.0	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	1346	439	0	1282	140	0	31.27	8.91	40.18
Delhi	313	-10	-51	352	123	-41	11.29	-0.30	10.99
Haryana	1528	193	0	1224	39	0	31.83	1.64	33.47
HP	-1143	-297	0	-991	-331	0	-23.03	-8.14	-31.16
J&K	-334	-96	0	-334	109	0	-10.09	-1.84	-11.92
CHD	0	0	0	0	0	0	0.33	0.00	0.33
Rajasthan	-791	469	3	-791	-10	0	-17.29	8.96	-8.33
UP	539	442	0	277	119	41	8.88	8.27	17.15
Uttarakhand	86	-1	0	84	12	0	2.05	0.17	2.22
Total	1543	1140	-48	1104	201	0	35.25	17.67	52.92

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1346	1281	443	140	0	0
Delhi	785	264	357	-338	-3	-51
Haryana	1528	1187	194	-459	0	0
HP	-753	-1143	-264	-424	0	0
J&K	-334	-537	109	-343	0	0
CHD	41	0	0	0	0	0
Rajasthan	-550	-791	714	-10	3	0
UP	603	241	836	0	41	0
Uttarakhand	86	84	31	-1	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 26.07.2014 :**

Normal

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 :**