

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.06.2014
Date of Reporting : 27.06.2014

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
43052	2015	45067	49.91	42508	2160	44668	50.02	1017.2	53.35

* 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	50.20	22.43		72.63	119.53	118.48	-1.06	191.11	0.00
Haryana	48.60	0.54		49.14	109.46	108.82	-0.64	157.96	0.88
Rajasthan	104.80	0.57	23.50	128.87	53.99	55.99	2.00	184.86	1.99
Delhi	31.81			31.81	79.33	77.26	-2.08	109.07	0.50
UP	132.64	14.11	1.20	147.94	129.78	128.72	-1.06	276.67	48.28
Uttarakhand		17.46		17.46	20.51	21.08	0.57	38.54	0.00
HP		24.26		24.26	2.21	1.37	-0.84	25.62	0.00
J & K		11.91	0.00	11.91	16.91	15.53	-1.38	27.43	1.70
Chandigarh				0.00	5.63	5.92	0.29	5.92	0.00
Total	368.05	91.27	24.70	484.02	537.35	533.16	-4.20	1017.18	53.35

* 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	8429	0	-105	1439	8120	0	-38	1765	8476
Haryana	7255	50	-93	1513	6895	0	-153	1684	7355
Rajasthan	7315	0	205	-401	7345	0	-70	-402	8113
Delhi	4536	0	-87	253	4404	0	23	195	5212
UP	11204	1865	-326	582	12228	2160	-46	758	12228
Uttarakhand	1833	0	22	322	1548	0	1	249	1833
HP	1012	0	-64	-1191	901	0	-55	-1291	1187
J&K	1218	100	17	-441	841	0	-127	-732	1568
Chandigarh	251	0	20	0	227	0	24	0	290
Total	43052	2015	-410	2075	42508	2160	-440	2226	44496

* 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	900	989	966	21.62	901	21.17	0.45	
Rihand II STPS	1000	965	994	1039	22.89	954	22.54	0.34	
Rihand III STPS	1000	821	858	883	19.51	813	19.33	0.18	
Dadri I STPS	840	813	708	861	15.70	654	16.10	-0.40	
Dadri II STPS	980	966	985	957	20.78	866	21.07	-0.29	
Unchahar I TPS	420	406	408	387	8.53	356	8.89	-0.36	
Unchahar II TPS	420	406	401	401	8.38	349	8.72	-0.34	
Unchahar III TPS	210	202	201	212	4.15	173	4.25	-0.10	
ISTPP (Jhajjar)	1500	1410	926	813	18.64	777	19.08	-0.44	
Dadri GPS	830	793	175	182	4.13	172	4.46	-0.33	
Anta GPS	419	377	217	249	5.63	235	5.57	0.06	
Auraiya GPS	663	627	154	151	3.44	143	3.52	-0.08	
Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01	
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07	
Sub Total (A)	11297	10610	9096	9168	199	8311	201	-1	
B. NPC	NAPS	440	275	315	317	6.54	273	6.60	-0.06
RAPS- B	440	394	437	437	9.42	393	9.46	-0.03	
RAPS- C	440	330	396	417	8.73	364	7.92	0.81	
Sub Total (B)	1320	999	1148	1171	24.69	1029	23.98	0.71	
C. NHPC	Chamera I HPS	540	535	540	540	13.08	545	12.84	0.24
Chamera II HPS	300	301	310	312	7.37	307	7.22	0.15	
Chamera III HPS	231	229	238	239	5.67	236	5.50	0.17	
Bairasui HPS	180	179	181	182	3.31	138	3.14	0.18	
Salal-HPS	690	663	682	682	16.34	681	15.91	0.43	
Tanakpur-HPS	94	61	75	53	1.57	65	1.44	0.13	
Uri-HPS	480	475	478	476	11.54	481	11.40	0.14	
Uri-II HPS	240	240	249	242	5.83	243	5.76	0.07	
Dhauliganga-HPS	280	170	208	208	4.75	198	4.08	0.67	
Dulhasti-HPS	390	219	272	0	5.39	225	5.26	0.13	
Sewa-II HPS	120	119	118	118	1.79	74	1.60	0.19	
Parbati 3	390	260	160	130	3.69	154	3.54	0.15	
Sub Total ©	3935	3451	3511	3182	80	3347	78	3	
D.SJVNL	NJPC	1500	1605	1620	1617	38.62	1609	38.46	0.17
Rampur HEP	275	273	287	284	6.78	282	6.55	0.23	
Sub Total (D)	1775	1878	1907	1901	45.40	1892	45.01	0.39	
E. THDC	Tehri HPS	1000	486	544	265	9.12	380	9.00	0.12
Koteshwar HPS	400	188	402	101	4.95	206	4.90	0.05	
Sub Total (E)	1400	674	946	366	14.07	586	13.90	0.17	
F. BBMB	Bhakra HPS	1514	868	1174	802	21.30	888	20.84	0.46
Dehar HPS	990	594	660	615	15.27	636	14.26	1.02	
Pong HPS	396	219	364	121	5.48	228	5.25	0.23	
Sub Total (F)	2900	1681	2198	1538	42.05	1752	40.34	1.71	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	194	179	4.07	170	4.24	-0.17
KWHEP HPS(IPP)	1000	0	1200	1200	28.57	1191	28.51	0.07	
Malana Stg-II HPS	100	0	111	75	1.95	81	1.83	0.12	
Shree Cement TPS	300	0	0	0	0.00	0	6.91	-6.91	
Budhil HPS(IPP)	70	0	69	35	1.34	56	1.46	-0.11	
Sub Total (G)	1662	0	1574	1489	35.93	1497	42.95	-7.01	
H. Total Regional Entities (A-G)	24289	19292	20380	18815	441.92	18413	444.42	-2.50	

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	1250	1100	27	1128
	Guru Nanak Dev TPS(Bhatinda)	440	212	230	5	201
	Guru Hargobind Singh TPS(L.mbt)	920	458	485	10	416
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	377	369	8	346
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2297	2184	50	2092
	Total Hydro	1148	938	950	22.43	934
	Total Punjab	5128	3235	3134	72.63	3026
	Haryana	Panipat TPS	1367	228	217	5.26
DCRTPP (Yamuna nagar)		600	543	527	12.14	506
Faridabad GPS (NTPC)		432	366	322	8.30	346
RGTPP (khedar) (IPP)		1200	457	456	11.96	498
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	552	371	10.95	456
Thermal (Total)		4944	2146	1893	49	2025
Total Hydro		62	22	23	0.54	23
Total Haryana		5006	2168	1916	49.14	2048
Rajasthan		kota TPS	1240	747	734	17.70
	suratgarh TPS	1500	1288	1236	30.82	1284
	Chabra TPS	750	545	511	13.35	556
	Dholpur GPS	330	102	101	2.52	105
	Ramgarh GPS	271	110	105	2.97	124
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	98	2.12	88
	Giral LTPS	250	71	70	1.43	60
	Rajwest LTPS (IPP)	1080	788	836	19.71	821
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	580	593	14.17	591
	Thermal (Total)	8026	4329	4284	105	4367
	Total Hydro	550	23	0	0.57	24
	Wind power	2798	620	1265	22.17	924
	Biomass	99	38	38	0.92	38
	Solar	730	0	0	0.42	17
	Renewable/Others (Total)	3627	658	1303	24	979
	Total Rajasthan	12203	5010	5587	128.87	5370
	UP	Anpara TPS	1630	1411	1341	30.00
Obra TPS		1288	392	397	8.30	346
Paricha TPS		1140	888	845	18.40	767
Panki TPS		210	85	80	1.80	75
Harduaganj TPS		665	426	434	9.40	392
Tanda TPS (NTPC)		440	280	274	6.96	290
Roza TPS (IPP)		1200	1080	1107	26.19	1091
Anpara-C (IPP)		1200	936	945	22.46	936
Bajaj Energy Pvt.Ltd(IPP) TPS		450	403	401	9.12	380
Thermal (Total)		8223	5901	5824	133	5527
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	153	131	3.65	152
Cogeneration		981	50	50	1.20	50
Total UP		10131	6540	6441	147.94	5729
Uttarakhand		Total Hydro	1303	825	697	17.46
	Total Uttarakhand	1303	825	697	17.46	728
Delhi	Rajghat TPS	135	103	103	2.66	111
	Delhi Gas Turbine	282	118	70	2.34	98
	Pragati Gas Turbine	330	261	265	6.63	276
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	281	255	6.66	278
	Badarpur TPS (NTPC)	705	645	610	13.51	563
	Thermal (Total)	2917	1408	1303	31.81	1325
	Total Delhi	2917	1408	1303	31.81	1325
HP	Baspa HPS (IPP)	300	331	301	7.69	320
	Malana HPS (IPP)	86	69	54	1.67	69
	Other Hydro	728	628	622	14.90	621
	Total HP	1114	1028	977	24.26	1011
J & K	Baqilhar HPS (IPP)	450	438	438	10.51	438
	Other Hydro/IPP	436	93	44	1.39	58
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	531	482	11.91	496
Total State Control Area Generation		38896	20745	20537	484.02	19732
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5041	4558	116.18	4841
Total Regional Availability(Gross)		63186	46166	43910	1042.12	42986

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10067	8441	216.43	9018
State Control Area Hydro	5589	3520	3260	91.27	3367
Total Regional Hydro	16891	13587	11701	307.70	12385

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	200	-100	400	300	3.26	2.06	1.20
Gwalior-Agra (D/C)	1858	1726	2069	0	38.54	0.00	38.54
Zerda-Kankroli	-154	-327	0	384	0.00	6.00	-6.00
Zerda-Bhinmal	-141	-342	0	442	0.00	5.72	-5.72
Malanpur-Auraiya	-35	-21	0	76	0.00	0.87	-0.87
Badod-Kota/Morak	-59	-98	0	0	0.00	1.38	-1.38
Mundra-Mohindergarh(HVDC)	2002	2199	2317	0	49.54	0.00	49.54
Sub Total WR	3671	3037			91.34	16.03	75.30
Pusaui Bypass	300	300	400	0	7.58	0.00	7.58
MZP- GKP (D/C)	420	464	616	0	12.02	0.00	12.02
Patna-Balia(D/C)	259	275	597	0	7.35	0.00	7.35
B'Sharif-Balia (D/C)	267	311	386	0	6.82	0.00	6.82
Pusaui-Balia	-171	-73	0	221	0.00	1.19	-1.19
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	161	181	184	0	4.14	0.00	4.14
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	134	63	272	0	4.15	0.00	4.15
Sub Total ER	1370	1521			42.06	1.19	40.87
Total IR Exch	5041	4558			133.40	17.22	116.18

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through WR	Through WR
28.83	3.80	32.63	23.10	5.04	-10.62	6.50	0.00	0.00

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
45.11	67.67	112.78	40.87	75.30	116.18	-4.24	7.63	3.40

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	9.85	32.48	63.35	87.98	31.10	4.76	0.78	0.03	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				
50.17	18.01	49.39	22.07	49.85	0.37	0.13	50.15	49.63

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	404	04:21	397	22:04	0.0	0.0	0.0	0.0
Gorakhpur	400	412	07:02	387	22:08	0.0	0.8	0.0	0.0
Bareilly	400	411	19:04	389	15:12	0.0	0.3	0.0	0.0
Kanpur	400	416	04:11	395	22:10	0.0	0.0	0.0	0.0
Dadri	400	413	04:22	394	15:12	0.0	0.0	0.0	0.0
Ballabgarh	400	423	04:25	399	14:21	0.0	0.0	3.5	0.0
Bawana	400	417	04:24	397	15:14	0.0	0.0	0.0	0.0
Bassi	400	428	04:24	402	11:05	0.0	0.0	9.6	0.0
Hissar	400	413	04:23	390	14:23	0.0	0.0	0.0	0.0
Moga	400	416	04:25	397	14:22	0.0	0.0	0.0	0.0
Abdullapur	400	414	04:01	396	13:41	0.0	0.0	0.0	0.0
Nalagarh	400	414	05:15	398	11:04	0.0	0.0	0.0	0.0
Kishenpur	400	417	03:58	403	20:39	0.0	0.0	0.0	0.0
Wagoora	400	412	03:44	395	20:33	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	782	04:14	734	22:09	0.0	1.0	0.0	0.0
Balia	765	782	07:02	725	22:10	0.3	6.5	0.0	0.0
Moga	765	803	04:25	764	22:11	0.0	0.0	2.3	0.0
Agra	765	796	04:23	746	22:08	0.0	0.0	0.0	0.0
Bhiwani	765	803	04:24	763	22:08	0.0	0.0	3.9	0.0
Unnao	765	756	08:33	718	22:11	6.5	63.9	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	485.71	610.73	486.77	636.01	1570.37	736.35
Pong	426.72	384.05	401.78	259.17	402.45	273.51	414.90	365.94
Tehri	829.79	740.04	746.35	32.00	NA	NA	438.59	242.00
Koteshwar	612.50	598.50	610.82	4.95	608.40	3.98	432.00	281.00
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. 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	1424	341	0	1424	15	0	34.18	5.70	39.88
Delhi	411	-171	-45	490	-207	-30	11.14	-5.77	5.37
Haryana	1508	176	0	1342	171	0	32.08	2.48	34.56
HP	-866	-425	0	-714	-477	0	-18.21	-9.96	-28.17
J&K	-504	-228	0	-522	81	0	-13.00	-0.66	-13.66
CHD	0	0	0	0	0	0	0.41	0.15	0.57
Rajasthan	-714	305	6	-714	308	5	-17.14	9.01	-8.12
UP	758	0	0	582	0	0	14.88	1.14	16.02
Uttarakhand	114	134	0	114	208	0	2.74	3.22	5.96
Total	2132	133	-39	2001	99	-25	47.10	5.31	52.41

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 26.06.2014 :**

1. Normal weather 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 :**