

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.06.2014
Date of Reporting : 01.07.2014

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
45242	1520	46762	49.94	42883	2190	45073	50.09	1037.0	49.63

* 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	72.08	21.22		93.30	119.80	119.66	-0.14	212.96	0.00
Haryana	51.24	0.53		51.77	115.26	114.64	-0.62	166.41	0.00
Rajasthan	118.69	0.00	32.57	151.26	43.24	43.83	0.59	195.08	0.00
Delhi	31.68			31.68	79.33	78.47	-0.86	110.14	0.56
UP	120.53	14.51	1.20	136.24	123.12	122.72	-0.40	258.96	47.05
Uttarakhand		19.08		19.08	17.47	17.68	0.21	36.75	0.16
HP		24.40		24.40	0.86	-0.10	-0.95	24.30	0.17
J & K		10.52	0.00	10.52	17.96	15.67	-2.30	26.19	1.70
Chandigarh				0.00	5.68	6.16	0.48	6.16	0.00
Total	394.22	90.25	33.77	518.23	522.72	518.73	-3.99	1036.96	49.63

* 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	9478	0	73	1389	8799	0	-68	1591	9636
Haryana	7770	0	46	1516	7025	0	136	1327	8017
Rajasthan	7375	0	-146	-744	7910	0	169	-656	8967
Delhi	4687	0	-19	219	4326	0	-37	343	5273
UP	11598	1380	67	527	10873	2190	-265	1116	11918
Uttarakhand	1662	40	107	120	1475	0	104	108	1662
HP	1003	0	-123	-1245	836	0	-35	-1410	1148
J&K	1397	100	-220	-259	1420	0	-41	-333	1420
Chandigarh	272	0	26	0	219	0	13	0	314
Total	45242	1520	-189	1523	42883	2190	-23	2086	47006

* 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	1487	1610	1630	36.22	1509	35.54	0.68
	Rihand I STPS	1000	900	936	966	21.14	881	21.24	-0.10
	Rihand II STPS	1000	950	1018	989	22.37	932	22.68	-0.31
	Rihand III STPS	1000	878	904	899	20.94	873	20.73	0.21
	Dadri I STPS	840	813	845	594	15.49	645	16.11	-0.63
	Dadri II STPS	980	966	744	696	19.83	826	19.99	-0.17
	Unchahar I TPS	420	397	406	400	8.72	363	9.23	-0.51
	Unchahar II TPS	420	402	402	208	8.33	347	8.78	-0.45
	Unchahar III TPS	210	200	213	155	4.23	176	4.35	-0.12
	ISTPP (Jhajjar)	1500	1410	804	701	16.32	680	16.75	-0.43
	Dadri GPS	830	793	177	153	3.94	164	4.04	-0.10
	Anta GPS	419	378	214	229	5.28	220	5.31	-0.03
	Auraiya GPS	663	628	112	145	3.84	160	3.85	-0.01
	Dadri Solar	5	1	0	0	0.00	0	0.02	-0.02
	Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
	Sub Total (A)	11297	10205	8385	7765	187	7777	189	-2
B. NPC	NAPS	440	270	310	316	6.55	273	6.48	0.07
	RAPS- B	440	410	439	441	9.47	394	9.84	-0.38
	RAPS- C	440	330	409	416	8.85	369	7.92	0.93
	Sub Total (B)	1320	1010	1158	1173	24.86	1036	24.24	0.62
C. NHPC	Chamera I HPS	540	535	540	540	12.98	541	12.84	0.14
	Chamera II HPS	300	301	307	303	7.31	305	7.22	0.09
	Chamera III HPS	231	229	234	231	5.56	232	5.50	0.06
	Bairasui HPS	180	179	180	130	3.53	147	3.36	0.17
	Salal-HPS	690	663	680	678	15.27	636	15.91	-0.64
	Tanakpur-HPS	94	73	79	70	1.78	74	1.75	0.03
	Uri-HPS	480	475	478	475	11.54	481	11.40	0.14
	Uri-II HPS	240	240	248	241	5.85	244	5.76	0.09
	Dhauliganga-HPS	280	203	209	208	4.89	204	4.89	0.00
	Dulhasti-HPS	390	254	391	271	6.29	262	6.11	0.18
	Sewa-II HPS	120	119	129	42	1.88	79	1.70	0.18
	Parbati 3	390	209	260	260	4.69	196	4.78	-0.08
	Sub Total ©	3935	3479	3735	3449	82	3399	81	0
D.SJVNL	NJPC	1500	1605	1617	1618	38.56	1607	38.45	0.10
	Rampur HEP	275	280	289	288	6.84	285	6.72	0.12
	Sub Total (D)	1775	1885	1906	1906	45.40	1892	45.17	0.22
E. THDC	Tehri HPS	1000	540	551	262	6.09	254	6.00	0.09
	Koteshwar HPS	400	129	302	61	3.13	130	3.10	0.02
	Sub Total (E)	1400	669	853	323	9.22	384	9.10	0.12
F. BBMB	Bhakra HPS	1514	896	1230	814	22.14	923	21.51	0.63
	Dehar HPS	990	601	825	620	14.80	617	14.43	0.38
	Pong HPS	396	234	360	120	5.81	242	5.61	0.20
	Sub Total (F)	2900	1731	2415	1554	42.75	1781	41.55	1.20
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	230	5.48	228	5.36	0.12
	KWHEP HPS(IPP)	1000	0	900	900	21.19	883	21.57	-0.38
	Malana Stg-II HPS	100	0	114	75	2.17	91	2.00	0.17
	Shree Cement TPS	300	0	205	138	4.71	196	5.13	-0.42
	Budhil HPS(IPP)	70	0	72	70	1.68	70	1.66	0.02
	Sub Total (G)	1662	0	1522	1413	35.24	1468	35.73	-0.49
H. Total Regional Entities (A-G)		24289	18979	19974	17583	425.68	17737	425.71	-0.03

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	1100	1080	26	1101
	Guru Nanak Dev TPS(Bhatinda)	440	322	250	6	243
	Guru Hargobind Singh TPS(L.mbt)	920	655	516	13	552
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	534	537	12	494
	Talwandi Saboo	660	664	661	14.73	614
	Thermal (Total)	3980	3275	3044	72	3003
	Total Hydro	1148	931	841	21.22	884
	Total Punjab	5128	4206	3885	93.30	3888
	Haryana	Panipat TPS	1367	634	644	14.44
DCRTPP (Yamuna nagar)		600	439	431	10.29	429
Faridabad GPS (NTPC)		432	150	152	3.82	159
RGTPP (khedar) (IPP)		1200	564	472	11.86	494
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	543	372	10.83	451
Thermal (Total)		4944	2330	2071	51	2135
Total Hydro		62	25	22	0.53	22
Total Haryana		5006	2355	2093	51.77	2157
Rajasthan		kota TPS	1240	1110	915	22.52
	suratgarh TPS	1500	1295	1233	30.16	1257
	Chabra TPS	750	491	397	10.46	436
	Dholpur GPS	330	103	101	2.51	104
	Ramgarh GPS	271	115	95	2.69	112
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	98	2.15	90
	Giral LTPS	250	71	71	1.62	68
	Rajwest LTPS (IPP)	1080	692	739	18.62	776
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	925	1168	27.96	1165
	Thermal (Total)	8026	4900	4817	119	4945
	Total Hydro	550	0	0	0.00	0
	Wind power	2798	1346	1286	31.86	1327
	Biomass	99	21	21	0.49	21
	Solar	730	0	0	0.22	9
	Renewable/Others (Total)	3627	1367	1307	33	1357
	Total Rajasthan	12203	6267	6124	151.26	6302
	UP	Anpara TPS	1630	1390	1326	30.70
Obra TPS		1288	519	331	9.60	400
Paricha TPS		1140	603	332	11.20	467
Panki TPS		210	72	72	1.70	71
Harduaganj TPS		665	200	307	4.80	200
Tanda TPS (NTPC)		440	284	276	6.92	288
Roza TPS (IPP)		1200	1098	1107	25.28	1053
Anpara-C (IPP)		1200	915	941	22.46	936
Bajaj Energy Pvt.Ltd(IPP) TPS		450	283	401	7.87	328
Thermal (Total)		8223	5364	5093	121	5022
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	215	137	4.05	169
Cogeneration		981	50	50	1.20	50
Total UP		10131	6065	5716	136.24	5241
Uttarakhand		Total Hydro	1303	800	748	19.08
	Total Uttarakhand	1303	800	748	19.08	795
Delhi	Rajghat TPS	135	87	93	2.52	105
	Delhi Gas Turbine	282	80	70	2.20	92
	Pragati Gas Turbine	330	289	297	7.24	302
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	292	221	6.64	277
	Badarpur TPS (NTPC)	705	665	600	13.07	545
	Thermal (Total)	2917	1413	1281	31.68	1320
	Total Delhi	2917	1413	1281	31.68	1320
HP	Baspa HPS (IPP)	300	334	303	7.48	312
	Malana HPS (IPP)	86	99	57	1.90	79
	Other Hydro	728	639	623	15.03	626
	Total HP	1114	1072	983	24.40	1017
J & K	Baqilhar HPS (IPP)	450	441	440	10.52	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	441	440	10.52	438
Total State Control Area Generation		38896	22619	21270	518.23	21157
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5327	5401	116.80	4867
Total Regional Availability(Gross)		63186	47920	44254	1060.71	43761

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10154	8437	207.78	8658
State Control Area Hydro	5589	3484	3171	90.25	3325
Total Regional Hydro	16891	13638	11608	298.03	11982

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	400	200	400	0	5.64	0.00	5.64
Gwalior-Agra (D/C)	1967	1738	1967	0	33.29	0.00	33.29
Zerda-Kankroli	-147	-203	0	312	0.00	6.12	-6.12
Zerda-Bhinmal	-174	-186	0	341	0.00	1.49	-1.49
Malanpur-Auraiya	-107	-28	0	202	0.00	1.49	-1.49
Badod-Kota/Morak	-92	-79	0	149	0.00	2.38	-2.38
Mundra-Mohindergarh(HVDC)	1999	2198	2206	0	51.48	0.00	51.48
Sub Total WR	3846	3640			90.41	11.49	78.92
Pusaui Bypass	400	400	400	0	9.71	0.00	9.71
MZP- GKP (D/C)	528	640	848	0	13.81	0.00	13.81
Patna-Balia(D/C)	266	282	386	0	5.66	0.00	5.66
B'Sharif-Balia (D/C)	203	293	0	362	5.65	0.00	5.65
Pusaui-Balia	-60	-30	0	109	0.00	1.01	-1.01
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	144	176	192	0	4.06	0.00	4.06
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)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1481	1761			38.89	1.01	37.88
Total IR Exch	5327	5401			129.30	12.50	116.80

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 ER	Through WR
31.04	3.20	34.24	20.40	9.12	-10.73	-7.25	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
43.90	73.35	117.25	37.88	78.92	116.80	-6.02	5.58	-0.44

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	0.34	5.50	25.60	58.42	55.09	17.65	5.08	1.66	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				
50.41	5.05	49.67	22.08	49.97	0.11	0.10	50.39	49.84

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	406	07:41	397	22:07	0.0	0.0	0.0	0.0
Gorakhpur	400	419	05:07	387	22:13	0.0	1.2	0.0	0.0
Bareilly	400	417	05:03	378	15:19	0.1	1.4	0.0	0.0
Kanpur	400	416	05:06	391	22:16	0.0	0.0	0.0	0.0
Dadri	400	412	05:04	389	14:53	0.0	0.6	0.0	0.0
Ballabgarh	400	420	05:04	392	15:13	0.0	0.0	0.0	0.0
Bawana	400	416	06:28	392	15:14	0.0	0.0	0.0	0.0
Bassi	400	422	05:06	391	15:14	0.0	0.0	0.5	0.0
Hissar	400	407	05:02	384	14:49	0.0	9.8	0.0	0.0
Moga	400	407	03:44	392	14:51	0.0	0.0	0.0	0.0
Abdullapur	400	415	05:03	396	14:49	0.0	0.0	0.0	0.0
Nalagarh	400	411	04:20	396	15:13	0.0	0.0	0.0	0.0
Kishenpur	400	412	04:24	404	14:27	0.0	0.0	0.0	0.0
Wagoora	400	408	02:06	394	19:38	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	772	05:06	726	22:12	0.9	23.3	0.0	0.0
Balia	765	787	05:05	731	22:16	0.0	4.3	0.0	0.0
Moga	765	789	05:03	757	14:49	0.0	0.0	0.0	0.0
Agra	765	791	05:06	741	14:51	0.0	0.1	0.0	0.0
Bhiwani	765	792	18:32	753	15:15	0.0	0.0	0.0	0.0
Unnao	765	758	05:08	714	15:14	19.1	65.9	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	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. 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	1389	203	0	1389	0	0	33.33	1.89	35.22
Delhi	434	-71	-20	522	-283	-20	11.92	-4.56	7.35
Haryana	1537	-210	0	1461	55	0	34.52	-3.02	31.49
HP	-867	-543	0	-715	-530	0	-18.22	-11.77	-29.99
J&K	-493	160	0	-493	234	0	-12.50	0.28	-12.21
CHD	0	0	0	0	0	0	0.41	0.15	0.56
Rajasthan	-714	58	0	-714	-30	0	-17.15	2.12	-15.03
UP	574	539	3	455	72	0	11.44	3.47	14.91
Uttarakhand	114	-6	0	114	6	0	2.74	0.16	2.90
Total	1974	130	-18	2019	-476	-20	46.49	-11.29	35.21

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 30.06.2014 :**

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 :**