

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.06.2014
Date of Reporting : 30.06.2014

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
43016	1995	45011	50.03	42637	3270	45907	50.10	1017.6	52.16

* 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	67.22	20.01		87.23	111.18	110.28	-0.90	197.51	0.00
Haryana	50.98	0.53		51.51	113.31	111.18	-2.13	162.69	0.05
Rajasthan	111.22	0.00	33.26	144.48	47.37	47.08	-0.29	191.57	0.00
Delhi	29.28			29.28	75.50	75.43	-0.08	104.70	0.10
UP	117.54	15.12	1.20	133.86	133.12	136.38	3.26	270.24	49.65
Uttarakhand		18.63		18.63	17.20	16.29	-0.91	34.92	0.67
HP		24.58		24.58	0.03	-1.26	-1.29	23.31	0.00
J & K		11.90	0.00	11.90	18.21	15.60	-2.61	27.50	1.70
Chandigarh				0.00	5.37	5.19	-0.18	5.19	0.00
Total	376.23	90.76	34.46	501.46	521.30	516.18	-5.12	1017.64	52.16

* 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	8827	0	-48	1438	7449	0	-149	1475	9444
Haryana	7339	0	-240	1568	7312	0	-147	1476	7763
Rajasthan	6983	0	-103	-644	7803	0	-74	-658	8699
Delhi	4448	0	108	25	4589	0	152	246	4951
UP	11305	1895	113	595	12067	3270	427	985	12067
Uttarakhand	1641	0	12	120	1446	0	-54	108	1643
HP	835	0	-126	-1267	901	0	-92	-1326	1062
J&K	1417	100	-168	-239	834	0	-631	-288	1582
Chandigarh	222	0	-17	0	236	0	27	0	261
Total	43016	1995	-470	1596	42637	3270	-542	2020	45300

* 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
		Singrauli STPS	2000	1921	1952	2072	44.29	1846	44.04
	Rihand I STPS	1000	892	851	973	20.14	839	20.09	0.05
	Rihand II STPS	1000	950	868	1025	21.16	882	21.25	-0.09
	Rihand III STPS	1000	881	762	949	19.46	811	19.61	-0.15
	Dadri I STPS	840	813	835	805	17.27	719	18.20	-0.93
	Dadri II STPS	980	966	733	791	18.58	774	19.72	-1.14
	Unchahar I TPS	420	397	398	415	8.41	351	8.80	-0.38
	Unchahar II TPS	420	402	350	425	8.10	337	8.49	-0.40
	Unchahar III TPS	210	200	153	207	3.94	164	4.08	-0.13
	ISTPP (Jhajjar)	1500	1410	636	965	16.78	699	17.19	-0.41
	Dadri GPS	830	794	176	180	3.98	166	4.22	-0.23
	Anta GPS	419	378	226	221	5.35	223	5.44	-0.09
	Auraiya GPS	663	628	133	153	3.15	131	3.09	0.06
	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	10635	8073	9181	191	7943	194	-4
B. NPC	NAPS	440	270	304	313	6.46	269	6.48	-0.02
	RAPS- B	440	410	437	440	9.47	394	9.84	-0.37
	RAPS- C	440	330	396	412	8.79	366	7.92	0.87
	Sub Total (B)	1320	1010	1137	1165	24.72	1030	24.24	0.48
C. NHPC	Chamera I HPS	540	535	540	540	12.93	539	12.84	0.09
	Chamera II HPS	300	301	302	309	7.30	304	7.22	0.08
	Chamera III HPS	231	229	232	231	5.55	231	5.50	0.05
	Bairasui HPS	180	179	182	140	3.45	144	3.34	0.11
	Salal-HPS	690	669	680	680	16.29	679	16.04	0.25
	Tanakpur-HPS	94	71	80	61	1.73	72	1.71	0.01
	Uri-HPS	480	475	478	476	11.54	481	11.40	0.14
	Uri-II HPS	240	240	245	249	5.80	242	5.76	0.04
	Dhauliganga-HPS	280	208	208	208	5.00	208	4.99	0.00
	Dulhasti-HPS	390	339	393	270	9.14	381	8.14	1.01
	Sewa-II HPS	120	119	125	55	1.64	68	1.50	0.14
	Parbati 3	390	221	260	260	5.20	216	5.16	0.04
	Sub Total ©	3935	3585	3725	3479	86	3565	84	2
D.SJVNL	NJPC	1500	1605	1617	1612	38.48	1604	38.46	0.03
	Rampur HEP	275	280	286	285	6.84	285	6.72	0.12
	Sub Total (D)	1775	1885	1903	1897	45.33	1889	45.18	0.15
E. THDC	Tehri HPS	1000	536	544	261	6.07	253	6.00	0.06
	Koteshwar HPS	400	129	300	90	3.12	130	3.10	0.02
	Sub Total (E)	1400	665	844	351	9.18	383	9.10	0.08
F. BBMB	Bhakra HPS	1514	885	1330	811	21.90	913	21.25	0.65
	Dehar HPS	990	604	660	635	15.43	643	14.49	0.95
	Pong HPS	396	221	360	120	5.36	223	5.31	0.05
	Sub Total (F)	2900	1710	2350	1566	42.69	1779	41.04	1.65
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	200	230	5.15	215	4.88	0.27
	KWHEP HPS(IPP)	1000	0	900	900	21.43	893	21.03	0.40
	Malana Stg-II HPS	100	0	112	106	2.42	101	2.24	0.18
	Shree Cement TPS	300	0	134	138	3.35	140	3.39	-0.04
	Budhil HPS(IPP)	70	0	70	69	1.66	69	1.64	0.02
	Sub Total (G)	1662	0	1416	1443	34.01	1417	33.18	0.83
H. Total Regional Entities (A-G)		24289	19490	19448	19082	432.13	18005	430.65	1.49

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	1080	1090	25	1059
	Guru Nanak Dev TPS(Bhatinda)	440	250	250	5	214
	Guru Hargobind Singh TPS(L.mbt)	920	554	656	14	602
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	375	369	12	492
	Talwandi Saboo	660	605	0	10.39	433
	Thermal (Total)	3980	2864	2365	67	2801
	Total Hydro	1148	930	603	20.01	834
	Total Punjab	5128	3794	2968	87.23	3635
	Haryana	Panipat TPS	1367	628	644	14.94
DCRTPP (Yamuna nagar)		600	419	437	10.08	420
Faridabad GPS (NTPC)		432	180	185	4.27	178
RGTPP (khedar) (IPP)		1200	579	522	11.80	492
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP)		1320	515	368	9.89	412
Thermal (Total)		4944	2321	2156	51	2124
Total Hydro		62	20	21	0.53	22
Total Haryana		5006	2341	2177	51.51	2146
Rajasthan		kota TPS	1240	1064	916	22.60
	suratgarh TPS	1500	1245	1229	29.89	1245
	Chabra TPS	750	353	161	7.78	324
	Dholpur GPS	330	101	101	2.52	105
	Ramgarh GPS	271	106	137	2.78	116
	RAPS A (NPC)	300	0	0	0.00	0
	Barsingsar (NLC)	250	98	98	2.13	89
	Giral LTPS	250	64	34	1.52	63
	Rajwest LTPS (IPP)	1080	577	837	16.91	705
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	838	1179	25.10	1046
	Thermal (Total)	8026	4446	4692	111	4634
	Total Hydro	550	0	0	0.00	0
	Wind power	2798	1467	1178	31.83	1326
	Biomass	99	28	28	0.66	28
	Solar	730	8	0	0.77	32
	Renewable/Others (Total)	3627	1503	1206	33	1386
	Total Rajasthan	12203	5949	5898	144.48	6020
	UP	Anpara TPS	1630	1455	1371	29.10
Obra TPS		1288	350	278	7.00	292
Paricha TPS		1140	397	423	8.80	367
Panki TPS		210	75	145	2.40	100
Harduaganj TPS		665	213	402	5.40	225
Tanda TPS (NTPC)		440	277	282	6.92	288
Roza TPS (IPP)		1200	1098	1107	26.39	1100
Anpara-C (IPP)		1200	941	945	22.12	922
Bajaj Energy Pvt.Ltd(IPP) TPS		450	403	401	9.41	392
Thermal (Total)		8223	5209	5354	118	4897
Vishnuparyag HPS (IPP)		400	436	436	10.46	436
Other Hydro		527	223	147	4.65	194
Cogeneration		981	50	50	1.20	50
Total UP		10131	5918	5987	133.86	5141
Uttarakhand		Total Hydro	1303	790	740	18.63
	Total Uttarakhand	1303	790	740	18.63	776
Delhi	Rajghat TPS	135	101	99	2.31	96
	Delhi Gas Turbine	282	70	70	1.59	66
	Pragati Gas Turbine	330	287	291	6.97	290
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	277	220	5.97	249
	Badarpur TPS (NTPC)	705	590	585	12.44	518
	Thermal (Total)	2917	1325	1265	29.28	1220
	Total Delhi	2917	1325	1265	29.28	1220
HP	Baspa HPS (IPP)	300	303	303	7.50	312
	Malana HPS (IPP)	86	87	94	2.14	89
	Other Hydro	728	642	630	14.94	623
	Total HP	1114	1032	1027	24.58	1024
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	11.90	496
Total State Control Area Generation		38896	21680	20544	501.46	20458
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5076	4665	103.70	4321
Total Regional Availability(Gross)		63186	46204	44291	1037.29	42785

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10034	8529	211.77	8824
State Control Area Hydro	5589	3526	3020	90.76	3346
Total Regional Hydro	16891	13560	11549	302.53	12169

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	0	400	400	2.91	1.59	1.32
Gwalior-Agra (D/C)	1893	1626	2190	0	34.95	0.00	34.95
Zerda-Kankroli	-124	-190	0	317	0.00	5.07	-5.07
Zerda-Bhinmal	-140	-202	0	334	0.00	5.15	-5.15
Malanpur-Auraiya	-50	-30	0	87	0.00	0.95	-0.95
Badod-Kota/Morak	-77	-85	0	126	0.00	2.10	-2.10
Mundra-Mohindergarh(HVDC)	1999	2303	2324	0	50.74	0.00	50.74
Sub Total WR	3701	3422			88.60	14.86	73.74
Pusaui Bypass	400	400	400	0	9.68	0.00	9.68
MZP- GKP (D/C)	540	440	820	0	11.73	0.00	11.73
Patna-Balia(D/C)	171	140	298	0	2.85	0.00	2.85
B'Sharif-Balia (D/C)	188	173	324	0	3.59	0.00	3.59
Pusaui-Balia	-69	-68	0	126	0.00	1.63	-1.63
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	145	158	195	0	3.75	0.00	3.75
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	1375	1243			31.60	1.63	29.97
Total IR Exch	5076	4665			120.19	16.49	103.70

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
27.28	3.00	30.28	19.78	8.49	-17.19	1.95	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
32.87	77.45	110.32	29.97	73.74	103.70	-2.91	-3.71	-6.62

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	0.32	4.65	16.41	49.73	54.27	12.55	14.00	3.18	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					
50.37	17.08	49.65	0.20	50.00	0.12	0.11	50.38	49.80

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	06:13	398	00:07	0.0	0.0	0.0	0.0
Gorakhpur	400	419	07:38	393	15:17	0.0	0.0	0.0	0.0
Bareilly	400	418	06:33	392	15:18	0.0	0.0	0.0	0.0
Kanpur	400	419	08:56	397	00:18	0.0	0.0	0.0	0.0
Dadri	400	415	06:24	393	15:19	0.0	0.0	0.0	0.0
Ballabgarh	400	423	08:52	399	15:24	0.0	0.0	9.7	0.0
Bawana	400	419	06:40	398	15:18	0.0	0.0	0.0	0.0
Bassi	400	427	18:35	401	00:12	0.0	0.0	7.3	0.0
Hissar	400	409	06:23	390	15:16	0.0	0.0	0.0	0.0
Moga	400	411	06:30	397	15:07	0.0	0.0	0.0	0.0
Abdullapur	400	416	08:49	396	00:17	0.0	0.0	0.0	0.0
Nalagarh	400	408	19:10	403	20:17	0.0	0.0	0.0	0.0
Kishenpur	400	414	06:26	402	20:36	0.0	0.0	0.0	0.0
Wagoora	400	408	03:03	389	21:20	0.0	1.6	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	781	18:03	735	00:20	0.0	7.3	0.0	0.0
Balia	765	786	06:06	744	00:20	0.0	0.0	0.0	0.0
Moga	765	795	06:31	764	15:19	0.0	0.0	0.0	0.0
Agra	765	796	18:03	751	00:22	0.0	0.0	0.0	0.0
Bhiwani	765	794	05:04	765	00:22	0.0	0.0	0.0	0.0
Unnao	765	763	08:57	723	00:19	7.5	41.5	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	1438	38	0	1438	0	0	34.36	1.69	36.05
Delhi	390	-124	-20	478	-433	-20	10.69	-7.31	3.39
Haryana	1538	-62	0	1462	106	0	34.78	-2.15	32.63
HP	-866	-459	0	-714	-553	0	-18.21	-11.64	-29.85
J&K	-498	210	0	-498	259	0	-12.44	0.49	-11.95
CHD	0	0	0	0	0	0	0.41	0.00	0.41
Rajasthan	-714	54	2	-714	70	0	-17.14	4.64	-12.50
UP	526	442	18	329	245	20	9.22	3.92	13.14
Uttarakhand	114	-6	0	114	6	0	2.74	0.08	2.82
Total	1928	92	0	1896	-300	0	44.42	-10.29	34.13

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 29.06.2014 :**

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 :**