

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(एयरलिड की पूर्ण स्वामित्व प्राप्त सहस्रक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.06.2014
Date of Reporting : 26.06.2014

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
42798	1740	44538	49.98	42946	2200	45146	49.97	1013.3	44.79

* Half hourly (two 15 minutes block-one block before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

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	Renewables/other's \$	Total					
Punjab	56.52	22.33		78.85	124.96	123.60	-1.35	202.45	0.00
Haryana	45.94	0.56		46.50	112.64	110.18	-2.46	156.68	0.00
Rajasthan	108.96	0.00	30.25	139.21	43.93	42.36	-1.57	181.57	0.00
Delhi	30.60			30.60	76.82	74.67	-2.16	105.26	0.55
UP	129.93	14.48	1.20	145.61	125.06	125.15	0.09	270.76	42.49
Uttarakhand		16.96		16.96	20.24	20.70	0.46	37.66	0.05
HP		23.74		23.74	2.24	1.30	-0.94	25.03	0.00
J & K		11.91	0.00	11.91	16.16	15.93	-0.23	27.83	1.70
Chandigarh				0.00	5.62	6.02	0.39	6.02	0.00
Total	371.94	89.97	31.45	493.36	527.67	519.89	-7.77	1013.25	44.79

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	8780	0	-25	1424	8765	0	-50	1684	9109
Haryana	7215	0	-144	1499	6867	0	-407	1714	7569
Rajasthan	7064	0	-135	-996	7376	0	-23	-547	8182
Delhi	4393	0	-79	239	4403	0	-183	221	5003
UP	11298	1630	-21	542	11948	2200	-36	719	12127
Uttarakhand	1677	10	-34	314	1525	0	82	246	1747
HP	888	0	-200	-1190	961	0	33	-1274	1194
J&K	1227	100	5	-515	891	0	-38	-775	1436
Chandigarh	256	0	14	0	211	0	5	0	313
Total	42798	1740	-618	1317	42946	2200	-618	1988	44994

*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 :

UI [OG:(+ve), UG: (-ve)]

Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC								
Singrauli STPS	2000	1469	1644	1520	34.45	1435	33.92	0.53
Rihand I STPS	1000	873	932	906	20.13	839	19.79	0.34
Rihand II STPS	1000	965	1024	965	22.05	919	21.72	0.33
Rihand III STPS	1000	876	936	850	19.47	811	19.24	0.23
Dadri I STPS	840	813	661	716	14.60	608	14.87	-0.28
Dadri II STPS	980	966	960	827	20.02	834	20.80	-0.79
Unchahar I TPS	420	406	380	388	8.48	353	8.95	-0.47
Unchahar II TPS	420	406	361	384	7.86	328	8.11	-0.25
Unchahar III TPS	210	202	193	165	3.81	159	3.90	-0.09
ISTPP (Jhajjar)	1500	1410	799	797	15.05	627	15.59	-0.54
Dadri GPS	830	795	175	321	5.19	216	5.62	-0.43
Anta GPS	419	377	242	224	5.43	226	5.36	0.07
Auraiya GPS	663	627	150	305	4.38	183	4.47	-0.09
Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
Unchahar Solar	10	3	0	0	0.03	1	0.07	-0.04
Sub Total (A)	11297	10189	8457	8368	181	7540	182	-1
B. NPC								
NAPS	440	272	309	315	6.55	273	6.53	0.03
RAPS- B	440	394	436	438	9.45	394	9.46	0.00
RAPS- C	440	330	409	414	8.90	371	7.92	0.98
Sub Total (B)	1320	996	1154	1167	24.91	1038	23.90	1.00
C. NHPC								
Chamera I HPS	540	535	540	540	13.02	542	12.84	0.18
Chamera II HPS	300	301	311	310	7.31	305	7.22	0.09
Chamera III HPS	231	229	242	239	5.65	235	5.50	0.15
Bairasui HPS	180	175	120	130	3.05	127	2.90	0.15
Salal-HPS	690	663	682	680	16.41	684	15.91	0.50
Tanakpur-HPS	94	63	72	59	1.58	66	1.50	0.08
Uri-HPS	480	475	480	475	11.56	482	11.40	0.16
Uri-II HPS	240	240	244	243	5.79	241	5.76	0.03
Dhauliganga-HPS	280	190	210	208	4.49	187	4.57	-0.08
Dulhasti-HPS	390	258	270	272	6.38	266	6.19	0.19
Sewa-II HPS	120	119	120	97	1.43	59	1.30	0.13
Parbati 3	390	260	250	130	3.44	144	3.38	0.06
Sub Total (C)	3935	3508	3541	3383	80	3337	78	2
D.SJVNL								
NJPC	1500	1605	1619	1618	38.62	1609	38.46	0.17
Rampur HEP	275	280	287	286	6.88	287	6.72	0.16
Sub Total (D)	1775	1885	1906	1904	45.50	1896	45.18	0.33
E. THDC								
Tehri HPS	1000	411	416	237	6.09	254	6.00	0.09
Koteshwar HPS	400	141	303	92	3.10	129	3.20	-0.10
Sub Total (E)	1400	552	719	329	9.19	383	9.20	-0.01
F. BBMB								
Bakra HPS	1514	853	1067	773	21.00	875	20.48	0.52
Dehar HPS	990	619	660	630	15.25	635	14.87	0.39
Pong HPS	396	237	364	122	5.81	242	5.69	0.13
Sub Total (F)	2900	1710	2091	1525	42.06	1753	41.03	1.03
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	229	179	4.09	170	4.14	-0.05
KWHEP HPS(IPP)	1000	0	1200	1199	27.61	1150	27.56	0.05
Malana Stq-II HPS	100	0	113	70	1.88	78	1.81	0.07
Shree Cement TPS	300	0	288	283	6.89	287	6.91	-0.03
Budhil HPS(IPP)	70	0	14	14	1.52	64	1.64	-0.12
Sub Total (G)	1662	0	1844	1745	41.99	1750	42.06	-0.07
H. Total Regional Entities (A-G)	24289	18840	19712	18421	424.71	17696	422.27	2.44

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	1250	27	1129	
	Guru Nanak Dev TPS(Bhatinda)	440	327	237	6	250	
	Guru Hargobind Singh TPS(L.mbt)	920	593	672	15	635	
	Goindwal(GVK)		0	0	0	0	
	Rajpura	700	363	367	8	341	
	Talwandi Saboo	660	0	0	0.00	0	
	Thermal (Total)	3980	2533	2526	57	2355	
	Total Hydro	1148	950	950	22.33	930	
	Total Punjab	5128	3483	3476	78.85	3285	
	Haryana	Panipat TPS	1367	215	223	5.13	214
DCRTPP (Yamuna nagar)		600	510	515	12.18	508	
Faridabad GPS (NTPC)		432	374	314	8.02	334	
RGTPP (khedar) (IPP)		1200	462	538	10.64	444	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP)		1320	369	555	9.97	415	
Thermal (Total)		4944	1930	2145	46	1914	
Total Hydro		62	23	26	0.56	23	
Total Haryana		5006	1953	2171	46.50	1937	
Rajasthan		kota TPS	1240	756	949	20.51	855
	suratgarh TPS	1500	1261	1277	29.94	1247	
	Chabra TPS	750	521	569	13.72	572	
	Dholpur GPS	330	102	98	2.49	104	
	Ramgarh GPS	221	126	104	3.31	138	
	RAPS A (NPC)	300	170	170	4.04	168	
	Barsingsar (NLC)	250	98	98	2.06	86	
	Giral LTPS	250	70	70	1.51	63	
	Rajwest LTPS (IPP)	1080	617	763	17.93	747	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Kalisindh Thermal	600	0	0	0.00	0	
	Kawai(Adani)	1320	540	588	13.44	560	
	Thermal (Total)	7976	4261	4686	109	4540	
	Total Hydro	550	0	0	0.00	0	
	Wind power	2798	1222	1314	28.85	1202	
	Biomass	99	37	37	0.90	37	
	Solar	730	0	0	0.51	21	
	Renewable/Others (Total)	3627	1259	1351	30	1261	
	Total Rajasthan	12153	5520	6037	139.21	5800	
	UP	Anpara TPS	1630	1289	1356	28.20	1175
Obra TPS		1288	429	417	9.10	379	
Paricha TPS		1140	826	847	18.20	758	
Panki TPS		210	80	135	2.40	100	
Harduaganj TPS		665	447	440	8.80	367	
Tanda TPS (NTPC)		440	275	285	6.87	286	
Roza TPS (IPP)		1200	1116	1107	25.16	1048	
Anpara-C (IPP)		1200	951	954	22.52	938	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	404	403	8.68	362	
Thermal (Total)		8223	5817	5944	130	5414	
Vishnuparyag HPS (IPP)		400	436	436	10.46	436	
Other Hydro		527	198	186	4.02	168	
Cogeneration		981	50	50	1.20	50	
Total UP		10131	6501	6616	145.61	5631	
Uttarakhand		Total Hydro	1303	738	651	16.96	707
		Total Uttarakhand	1303	738	651	16.96	707
Delhi	Rajghat TPS	135	103	99	1.95	81	
	Delhi Gas Turbine	282	117	142	2.29	95	
	Pragati Gas Turbine	330	266	266	6.19	258	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	1370	284	285	6.00	250	
	Badarpur TPS (NTPC)	705	655	660	14.18	591	
	Thermal (Total)	2917	1425	1452	30.60	1275	
	Total Delhi	2917	1425	1452	30.60	1275	
HP	Baspa HPS (IPP)	300	304	335	7.54	314	
	Malana HPS (IPP)	86	97	22	1.67	70	
	Other Hydro	728	606	596	14.53	605	
	Total HP	1114	1007	953	23.74	989	
J & K	Baglihar HPS (IPP)	450	438	438	10.51	438	
	Other Hydro/IPP	436	94	44	1.39	58	
	Gas/Diesel/Others	209	0	0	0.00	0	
	Total J & K	1094	532	482	11.91	496	
Total State Control Area Generation		38846	21159	21838	493.36	20121	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4773	4787	122.78	5116	
Total Regional Availability(Gross)		63136	45644	45046	1040.85	42933	

IV. Total Hydro Generation:

Regional Entities Hydro	11302	9799	8589	210.43	8768
State Control Area Hydro	5589	3448	3248	89.97	3313
Total Regional Hydro	16891	13247	11837	300.40	12081

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	450	500	500	0	9.32	0.00	9.32
Gwalior-Agra (D/C)	1899	1748	2340	0	44.31	0.00	44.31
Zerda-Kankroll	-263	-337	0	421	0.00	7.45	-7.45
Zerda-Bhinmal	-285	-345	0	441	0.00	7.31	-7.31
Malanpur-Auraiya	-16	-64	0	102	0.00	0.62	-0.62
Badod-Kota/Morak	-123	-183	0	227	0.00	3.24	-3.24
Mundra-Mohindergarh(HVDC)	2098	2000	2309	0	52.29	0.00	52.29
Sub Total WR	3760	3319			105.91	18.62	87.29
Pusauli Bypass	300	300	300	0	7.21	0.00	7.21
MZP- GKP (D/C)	228	500	558	0	10.91	0.00	10.91
Patna-Balia(D/C)	188	241	577	0	6.41	0.00	6.41
B'Sharif-Balia (D/C)	165	243	435	0	5.69	0.00	5.69
Pusauli-Balia	-65	-44	0	83	0.00	1.16	-1.16
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	157	184	200	0	4.44	0.00	4.44
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Nar-Rihand	-30	-34	0	36	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	70	78	315	109	2.87	0.00	2.87
Sub Total ER	1013	1468			37.53	2.04	35.49
Total IR Exch	4773	4787			143.44	20.66	122.78

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

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange ShdI (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
29.76	3.83	33.59	17.79	7.42	-7.97	2.51	-0.25	0.25

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
43.15	81.63	124.78	35.49	87.29	122.78	-7.66	5.66	-2.00

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	3.44	13.76	38.33	71.54	46.83	9.38	4.71	1.13	0.00

<----- Maximum Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Freq	Time	Freq	Time				MAX (Hz)	MIN (Hz)
50.28	18.06	49.46	22.06	49.93	3.09	0.12	50.28	49.67

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	408	07:08	396	22:40	0.0	0.0	0.0	0.0
Gorakhpur	400	430	05:06	383	16:13	0.0	0.0	34.2	0.0
Bareilly	400	416	05:12	377	13:38	0.0	0.0	0.0	0.0
Kanpur	400	422	05:13	397	22:09	0.0	0.0	0.6	0.0
Dadri	400	421	05:16	393	14:20	0.0	0.0	0.2	0.0
Ballabhgarh	400	428	05:12	398	14:28	0.0	0.0	8.0	0.0
Bawana	400	420	04:51	397	14:34	0.0	0.0	0.0	0.0
Bassi	400	429	05:05	401	22:11	0.0	0.0	17.9	0.0
Hissar	400	416	05:06	387	14:18	0.0	3.2	0.0	0.0
Moga	400	415	05:06	397	14:18	0.0	0.0	0.0	0.0
Abdullapur	400	420	05:06	396	14:18	0.0	0.0	0.0	0.0
Nalagarh	400	412	04:57	395	15:54	0.0	0.0	0.0	0.0
Kishenpur	400	414	04:59	406	14:17	0.0	0.0	0.0	0.0
Wagoora	400	408	03:21	398	06:11	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	781	18:47	740	22:15	0.0	2.7	0.0	0.0
Balia	765	784	05:12	739	22:23	0.0	0.9	0.0	0.0
Moga	765	803	05:04	763	14:31	0.0	0.0	1.4	0.0
Agra	765	798	05:13	747	14:19	0.0	0.0	0.0	0.0
Bhiwani	765	808	05:10	761	00:19	0.0	0.0	1.8	0.0
Unnao	765	764	05:14	721	22:15	2.3	39.9	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	260	0	1424	0	0	34.18	4.51	38.68
Delhi	414	-173	-20	522	-272	-12	11.71	-6.14	5.57
Haryana	1538	176	0	1325	174	0	34.12	3.63	37.76
HP	-866	-408	0	-714	-476	0	-18.21	-10.01	-28.22
J&K	-547	-228	0	-547	32	0	-13.62	-0.86	-14.49
CHD	0	0	0	0	0	0	0.41	0.15	0.56
Rajasthan	-714	161	6	-714	-287	5	-17.14	5.06	-12.08
UP	719	0	0	542	0	0	13.99	0.00	13.99
Uttarakhand	105	129	12	105	209	0	2.52	3.40	5.92
Total	2073	-83	-3	1944	-620	-7	47.96	-0.26	47.70

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 25.06.2014 :**

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 :**