

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(कार्पोरेशन की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 13.06.2014
Date of Reporting : 14.06.2014

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
38171	1550	39721	49.85	35188	2355	37543	50.05	909.7	46.29

* 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:

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	Renewable/others \$	Total					
Punjab	56.51	18.42		74.93	116.49	114.97	-1.52	189.90	0.00
Haryana	36.30	0.44		36.74	76.14	69.72	-6.42	106.46	0.04
Rajasthan	107.53	0.04	24.24	131.82	46.12	45.29	-0.84	177.10	0.30
Delhi	24.24			24.24	76.79	72.18	-4.60	96.42	0.28
UP	115.14	13.55	1.20	129.89	114.98	111.68	-3.29	241.57	43.98
Uttarakhand		16.07		16.07	19.91	20.38	0.47	36.45	0.00
HP		23.98		23.98	2.15	2.64	0.49	26.62	0.00
J & K		11.94	0.00	11.94	17.53	17.50	-0.03	29.44	1.70
Chandigarh				0.00	5.45	5.74	0.29	5.74	0.00
Total	339.73	84.43	25.44	449.60	475.55	460.10	-15.45	909.70	46.29

* 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				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	7906	0	-83	1411	7590	0	110	1783	38.26
Haryana	5033	0	-539	473	3633	0	-1088	599	7.58
Rajasthan	6946	0	-147	-357	7008	0	212	-183	-4.83
Delhi	4077	0	-135	452	3763	0	-340	485	14.58
UP	10217	1450	279	478	9495	2355	-383	1328	16.71
Uttarakhand	1455	0	-24	361	1593	0	118	267	7.39
HP	1005	0	-53	-1147	940	0	12	-1289	-27.57
J&K	1349	100	10	-406	935	0	-52	-784	-13.49
Chandigarh	184	0	-36	0	230	0	28	0	0.54
Total	38171	1550	-729	1265	35188	2355	-1383	2206	39.17

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

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

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	Net MU
A. NTPC									
Singrauli STPS	2000	1679	2052	1184	38.74	1614	38.26		0.47
Rihand I STPS	1000	846	857	737	19.22	801	18.77		0.45
Rihand II STPS	1000	470	517	410	10.60	441	10.51		0.08
Rihand III STPS	1000	907	860	760	20.16	840	19.89		0.26
Dadri I STPS	840	813	695	626	14.60	609	14.76		-0.16
Dadri II STPS	980	966	736	728	16.86	703	16.77		0.09
Unchahar I TPS	420	400	364	307	7.59	316	7.72		-0.13
Unchahar II TPS	420	400	334	305	7.41	309	7.57		-0.16
Unchahar III TPS	210	200	157	152	3.71	155	3.77		-0.06
ISTPP (Jhajjhar)	1500	1450	953	932	21.66	903	21.74		-0.08
Dadri GPS	830	793	151	137	3.47	145	3.55		-0.08
Anta GPS	419	384	367	222	5.54	231	5.55		0.00
Auraiya GPS	663	476	149	152	3.35	140	3.33		0.02
Dadri Solar	5	1	0	0	0.02	1	0.02		-0.01
Unchahar Solar	10	3	0	0	0.00	0	0.07		-0.07
Sub Total (A)	11297	9788	8192	6652	173	7205	172		1
B. NPC									
NAPS	440	268	304	318	6.64	276	6.43		0.20
RAPS- B	440	380	434	443	9.50	396	9.12		0.38
RAPS- C	440	200	223	224	4.68	195	4.80		-0.12
Sub Total (B)	1320	848	961	985	20.81	867	20.35		0.46
C. NHPC									
Chamera I HPS	540	537	540	540	13.01	542	12.89		0.12
Chamera II HPS	300	290	314	308	7.12	297	6.97		0.15
Chamera III HPS	231	229	229	229	5.60	233	5.50		0.11
Bairasui HPS	180	180	180	120	2.71	113	3.56		-0.85
Salal-HPS	690	663	674	674	16.07	670	15.84		0.23
Tanakpur-HPS	94	60	64	60	1.48	62	1.44		0.04
Uri-HPS	480	475	476	476	11.52	480	11.40		0.12
Uri-II HPS	240	240	247	246	5.82	242	5.76		0.06
Dhauliganga-HPS	280	67	68	67	1.61	67	1.61		0.00
Dulhasti-HPS	390	387	404	403	9.51	396	9.29		0.22
Sewa-II HPS	120	112	130	123	2.79	116	2.68		0.11
Parbati 3	390	260	200	195	3.27	136	3.21		0.06
Sub Total ©	3935	3500	3526	3441	81	3354	80		0
D. SJVNL									
NJPC	1500	1605	1632	1618	38.73	1614	38.45		0.28
Rampur HEP	206	206	211	210	5.09	212	4.94		0.15
Sub Total (D)	1706	1811	1843	1828	43.82	1826	43.40		0.43
E. THDC									
Tehri HPS	1000	375	376	374	6.83	285	6.80		0.03
Koteshwar HPS	400	163	400	100	3.80	158	3.80		0.00
Sub Total (E)	1400	538	776	474	10.63	443	10.60		0.03
F. BBMB									
Bhakra HPS	1514	848	1216	791	20.46	853	20.35		0.11
Dehar HPS	990	523	495	495	11.82	493	12.54		-0.72
Pong HPS	396	266	368	186	6.62	276	6.38		0.25
Sub Total (F)	2900	1636	2079	1472	38.90	1621	39.27		-0.37
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	206	191	4.34	181	4.61		-0.28
KWHEP HPS(IPP)	1000	0	1092	1170	26.06	1086	26.39		-0.33
Malana Stg-II HPS	100	0	109	60	1.65	69	1.68		-0.03
Shree Cement TPS	300	0	137	139	3.36	140	4.64		-1.28
Budhil HPS(IPP)	70	0	7	14	1.40	58	1.64		-0.24
Sub Total (G)	1662	0	1551	1574	36.81	1534	38.97		-2.16
H. Total Regional Entities (A-G)	24221	18121	18927	16426	404.41	16850	405.00		-0.59

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	1200	950	26	1067
	Guru Nanak Dev TPS(Bhatinda)	440	280	180	5	221
	Guru Hargobind Singh TPS(L.mbt)	920	650	759	18	732
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	272	360	8	335
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2402	2249	57	2355
	Total Hydro	1148	819	597	18.42	768
	Total Punjab	5128	3221	2846	74.93	3122
Haryana	Panipat TPS	1367	447	604	13.45	560
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	148	134	3.96	165
	RGTPP (khedar) (IPP)	1200	418	404	8.63	359
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	372	707	10.27	428
	Thermal (Total)	4944	1385	1849	36	1513
	Total Hydro	62	22	21	0.44	18
	Total Haryana	5006	1407	1870	36.74	1531
Rajasthan	kota TPS	1240	931	925	21.75	906
	suratgarh TPS	1500	1057	1113	24.88	1037
	Chabra TPS	750	562	562	13.78	574
	Dholpur GPS	330	104	1084	2.53	105
	Ramgarh GPS	221	2	120	1.20	50
	RAPS A (NPC)	300	170	170	4.38	183
	Barsingsar (NLC)	250	173	174	3.93	164
	Giral LTPS	250	70	70	1.32	55
	Rajwest LTPS (IPP)	1080	954	682	20.49	854
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	583	479	13.27	553
	Thermal (Total)	7976	4606	5379	108	4480
	Total Hydro	550	0	0	0.04	2
	Wind power	2191	913	809	21.25	886
	Biomass	91	35	35	2.53	105
	Solar	201	0	0	0.46	19
	Renewable/Others (Total)	2483	948	844	24	1010
	Total Rajasthan	11009	5554	6223	131.82	5492
UP	Anpara TPS	1630	1520	1305	32.40	1350
	Obra TPS	1288	596	517	12.60	525
	Paricha TPS	1140	858	747	16.30	679
	Panki TPS	210	165	155	3.40	142
	Harduaganj TPS	665	238	388	8.60	358
	Tanda TPS (NTPC)	440	252	220	6.24	260
	Roza TPS (IPP)	1200	412	410	10.59	441
	Anpara-C (IPP)	1200	882	756	23.94	998
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	159	0	1.07	44
	Thermal (Total)	8223	5082	4498	115	4797
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436
	Other Hydro	527	162	90	3.10	129
	Cogeneration	981	50	50	1.20	50
	Total UP	10131	5730	5074	129.89	4976
Uttarakhand	Total Hydro	1303	693	676	16.07	669
	Total Uttarakhand	1303	693	676	16.07	669
Delhi	Rajghat TPS	135	100	91	2.35	98
	Delhi Gas Turbine	282	176	179	4.29	179
	Pragati Gas Turbine	330	141	93	3.43	143
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	221	2.08	87
	Badarpur TPS (NTPC)	705	494	488	12.10	504
	Thermal (Total)	2917	911	1072	24.24	1010
	Total Delhi	2917	911	1072	24.24	1010
HP	Baspa HPS (IPP)	300	301	331	7.82	326
	Malana HPS (IPP)	86	50	51	1.54	64
	Other Hydro	728	598	611	14.62	609
	Total HP	1114	949	993	23.98	999
J & K	Baglihar HPS (IPP)	450	438	440	10.54	439
	Other Hydro/IPP	436	93	44	1.39	58
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	531	484	11.94	497
Total State Control Area Generation		37702	18996	19238	449.60	18298
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4779	2897	72.90	3037
Total Regional Availability(Gross)		61923	42702	38561	926.90	38185

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9630	8636	205.91	8580
State Control Area Hydro	5589	3176	2861	84.43	3082
Total Regional Hydro	16823	12806	11497	290.34	11662

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	250	-100	500	200	2.70	1.71	0.99
Gwalior-Agra (D/C)	1925	1270	2150	0	34.77	0.00	34.77
Zerda-Kankroli	-116	-201	0	273	0.00	4.62	-4.62
Zerda-Bhinmal	-125	-177	3	334	0.00	4.39	-4.39
Malanpur-Auraiya	-2	3	43	0	0.22	0.00	0.22
Badod-Kota/Morak	-102	-107	0	142	0.00	20.03	-20.03
Mundra-Mohindergarh(HVDC)	2000	1803	2005	0	45.59	0.00	45.59
Sub Total WR	3830	2491			83.28	30.74	52.53
Pusaui Bypass	0	0	0	0	0.00	0.00	0.00
MZP- GKP (D/C)	300	166	550	0	7.09	0.00	7.09
Patna-Balia(D/C)	10	-21	114	0	0.23	0.00	0.23
B'Sharif-Balia (D/C)	253	165	378	0	5.39	0.00	5.39
Pusaui-Balia	51	58	58	0	1.08	0.00	1.08
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusaui-Sahupuri	193	183	193	0	4.04	0.00	4.04
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)	142	-145	288	145	2.53	0.00	2.53
Sub Total ER	949	406			20.36	0.00	20.36
Total IR Exch	4779	2897			103.64	30.74	72.90

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
25.13	1.49	26.62	16.37	2.82	-9.11	4.07	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
33.87	55.34	89.22	20.36	52.53	72.90	-13.51	-2.81	-16.32

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	9.00	21.00	35.00	56.00	36.10	11.00	3.40	1.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN
Freq	Time	Freq	Time	Hz				
50.26	8.03	49.47	14.34	49.90	0.32	0.15	50.27	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	412	03:01	399	22:18	0.5	0.5	0.0	0.0
Gorakhpur	400	432	16:11	413	18:14	0.0	0.0	71.7	3.6
Bareilly	400	414	18:05	391	12:38	0.0	0.0	0.0	0.0
Kanpur	400	412	09:07	395	22:33	0.0	0.0	0.0	0.0
Dadri	400	416	02:26	390	14:58	0.0	0.0	0.0	0.0
Ballabgarh	400	426	03:13	398	14:36	0.0	0.0	22.2	0.0
Bawana	400	415	01:50	394	14:41	0.0	0.0	0.0	0.0
Bassi	400	427	03:27	395	15:48	0.0	0.0	15.7	0.0
Hissar	400	407	18:03	390	22:31	0.0	0.0	0.0	0.0
Moga	400	409	03:23	390	14:47	0.0	0.0	0.0	0.0
Abdullapur	400	414	18:03	396	14:29	0.0	0.0	0.0	0.0
Nalagarh	400	411	06:08	391	15:45	0.0	0.0	0.0	0.0
Kishenpur	400	409	17:33	394	13:55	0.0	0.0	0.0	0.0
Wagoora	400	407	02:56	387	20:59	0.0	2.8	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	774	03:01	729	22:33	0.0	13.5	0.0	0.0
Balia	765	778	17:05	734	12:19	0.0	3.4	0.0	0.0
Moga	765	785	03:40	747	14:47	0.0	0.0	0.0	0.0
Agra	765	790	08:04	744	22:34	0.0	0.0	0.0	0.0
Bhiwani	765	794	01:50	749	14:44	0.0	0.0	0.0	0.0
Unnao	765	765	03:42	725	22:32	0.9	22.4	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	480.09	461.24	480.49	468.02	722.28	640.02
Pong	426.72	384.05	402.33	273.51	399.69	209.93	100.72	131.59
Tehri	829.79	740.04	741.70	9.37	NA	NA	224.93	171.00
Koteshwar	612.50	598.50	610.82	4.95	608.40	3.98	171.00	168.00
Chamera-I	760.00	748.75	755.44	12.77	NA	NA	359.20	351.28
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. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 13.06.2014 :

1. Inclement weather in NR.

XIII. Synchronisation of new generating units :

0.00

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 13.06.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER