

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.05.2013
Date of Reporting : 19.05.2013

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
36708	1505	38213	50.15	36506	1070	37576	50.23	872.7	42.25

* 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	32.23	9.88		42.11	91.20	93.27	2.06	135.38	0.29
Haryana	43.06	0.60		43.66	84.54	88.46	3.91	132.12	1.52
Rajasthan	90.13	0.00	22.33	112.47	55.07	50.13	-4.93	162.60	0.36
Delhi	31.11			31.11	67.43	62.57	-4.85	93.68	0.82
UP	131.64	11.15	8.40	151.19	103.12	101.76	-1.36	252.95	36.32
Uttarakhand		15.36		15.36	19.06	19.43	0.37	34.79	1.24
HP		18.97		18.97	7.80	5.41	-2.39	24.38	0.00
J & K		13.21	0.00	13.21	20.53	18.29	-2.24	31.50	1.70
Chandigarh				0.00	4.94	5.29	0.35	5.29	0.00
Total	328.18	69.17	30.73	428.08	453.69	444.61	-9.08	872.69	42.25

* 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				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	6504	0	38	888	5625	0	57	955	27.43
Haryana	5378	0	178	278	5297	0	-24	238	5.91
Rajasthan	6318	0	-902	127	6928	0	-33	129	2.75
Delhi	3984	15	-158	-490	3825	0	-391	-372	-5.68
UP	10280	1390	-158	107	11246	1070	61	1325	11.10
Uttarakhand	1666	0	46	409	1437	0	68	407	7.75
HP	942	0	-303	-714	856	0	-160	-566	-14.97
J&K	1397	100	-82	-117	1100	0	-105	-220	-4.04
Chandigarh	239		-9	0	193	0	28	10	0.30
Total	36708	1505	-1351	488	36506	1070	-499	1905	30.55

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

III. Regional Entities :

Entity	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
A. NTPC	Singrauli STPS	2000	1727	1686	1852	41.08	1712	40.79	0.29
	Rihand I STPS	1000	915	866	915	20.74	864	20.99	-0.25
	Rihand II STPS	1000	965	975	966	21.89	912	22.14	-0.25
	Rihand III STPS	500	260	0	488	5.27	220	6.04	-0.76
	Dadri I STPS	840	807	825	648	16.56	690	17.56	-1.00
	Dadri II STPS	980	969	910	810	19.56	815	21.39	-1.83
	Unchahar I TPS	420	397	413	382	8.94	373	9.16	-0.22
	Unchahar II TPS	420	400	391	380	8.60	358	8.80	-0.20
	Unchahar III TPS	210	200	184	189	4.19	174	4.31	-0.13
	ISTPP (Jhajjar)	1500	470	328	402	7.82	326	10.28	-2.46
	Dadri GPS	830	798	374	355	8.08	337	8.29	-0.21
	Anta GPS	419	390	205	221	5.45	227	5.67	-0.22
	Auraiva GPS	663	620	147	154	3.47	145	3.61	-0.14
	Sub Total (A)	10782	8916	7304	7762	171.65	1752	179.02	-7.38
	B. NPC	NAPS	440	297	334	344	7.15	298	7.13
RAPS- B		440	399	439	443	9.55	398	9.58	-0.03
RAPS- C		440	430	461	467	9.95	415	10.32	-0.37
Sub Total (B)		1320	1126	1234	1254	26.64	1110	27.02	-0.38
C. NHPC	Chamera I HPS	540	540	540	0	7.08	295	6.30	0.78
	Chamera II HPS	300	303	305	302	6.29	262	7.24	-0.95
	Chamera III HPS	231	231	224	219	5.13	214	4.81	0.32
	Bairasuil HPS	180	182	182	70	2.86	119	2.64	0.22
	Salal-HPS	690	642	674	615	15.49	646	15.26	0.24
	Tanakpur-HPS	94	43	50	35	1.04	43	1.04	0.00
	Uri-HPS	480	480	478	476	11.56	482	11.43	0.13
	Dhauliganga-HPS	280	280	278	0	3.69	154	3.76	-0.07
	Dulhasti-HPS	390	387	401	403	9.35	389	9.33	0.02
	Sewa-II HPS	120	119	123	0	1.61	67	1.68	-0.07
	Sub Total (C)	3305	3208	3255	2120	64.08	2670	63.48	0.61
	D. NJPC	Nathpa Jhakri	1500	1605	1608	1591	37.54	1564	37.14
Sub Total (D)		1500	1605	1608	1591	37.54	1564	37.14	0.40
E. THDC	Tehri HPS	1000	480	482	0	6.52	272	6.60	-0.08
	Koteshwar HPS	400	266	268	0	2.62	109	2.64	-0.02
	Sub Total (E)	1400	746	750	0	9.15	381	9.24	-0.09
F. BBMB	Bhakra HPS	1480	712	1196	513	17.41	725	17.09	0.32
	Dehar HPS	990	451	825	330	11.72	488	10.83	0.89
	Pong HPS	396	158	296	120	3.83	160	0.25	3.58
	Sub Total (F)	2866	1321	2317	963	32.96	1373	28.17	4.79
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	208	157	3.08	128	2.18	0.90
	KWHEP HPS(IPP)	1000	0	929	737	22.59	941	22.20	0.39
	Malana Stg-II HPS	100	0	45	70	0.75	31	0.70	0.06
	Shree Cement TPS	300	0	254	262	6.09	254	6.24	-0.15
	Budhil HPS(IPP)	70	0	0	69	1.06	44	0.83	0.23
	Sub Total (G)	1662	0	1436	1295	33.57	1399	32.15	1.43
H. Total Regional Entities (A-G)	22836	16922	17904	14985	375.60	15650	376.23	-0.63	

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	1041	690	21.33	889
	Guru Nanak Dev TPS(Bhatinda)	440	120	225	6.62	276
	Guru Hargobind Singh TPS(L.mbt)	920	932	950	4.28	178
	Thermal (Total)	2620	2093	1865	32.23	1343
	Total Hydro	1148	453	363	9.88	412
	Total Punjab	3768	2546	2228	42.11	1755
Haryana	Panipat TPS	1367	861	932	21.18	882
	DCRTPP (Yamuna nagar)	600	277	281	6.62	276
	Faridabad GPS (NTPC)	432	193	181	4.28	178
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	0	584	10.98	458
	Thermal (Total)	4944	1331	1978	43.06	1794
	Total Hydro	62	24	23	0.60	25
	Total Haryana	5006	1355	2001	43.66	1819
	Rajasthan	kota TPS	1240	1141	1155	27.08
suratgarh TPS		1500	935	945	24.08	1003
Chabra TPS		500	198	223	5.19	216
Dholpur GPS		330	116	110	2.88	120
Ramgarh GPS		111	144	143	3.62	151
RAPS A (NPC)		300	180	180	4.30	179
Barsingsar (NLC)		250	186	109	3.00	125
Giral LTPS		250	95	34	1.57	65
Rajwest LTPS (IPP)		1080	758	808	18.42	767
VSLP LTPS (IPP)		135	0		0.00	0
Thermal (Total)		5696	3753	3707	90.13	3756
Total Hydro		550	0	0	0.00	0
Wind power		2191	1109	871	20.30	846
Biomass		91	31	31	0.75	31
Solar		201	0	0	1.29	54
Renewable/Others (Total)		2483	1140	902	22.33	931
Total Rajasthan		8729	4893	4609	112.47	4686
UP	Anpara TPS	1630	1301	1353	29.80	1242
	Obra TPS	1288	502	500	10.90	454
	Paricha TPS	1140	940	862	18.10	754
	Panki TPS	210	155	120	3.00	125
	Harduaganj TPS	665	405	360	8.00	333
	Tanda TPS (NTPC)	440	396	398	9.73	405
	Roza TPS (IPP)	1200	1008	995	24.03	1001
	Anpara-C (IPP)	1200	779	806	18.98	791
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	400	400	9.11	379
	Thermal (Total)	8223	5886	5794	131.64	5485
	Vishnuparyag HPS (IPP)	400	356	278	6.74	281
	Other Hydro	527	163	253	4.41	184
	Cogeneration	981	350	350	8.40	350
	Total UP	10131	6755	6675	151.19	6019
Uttarakhand	Total Hydro	1303	656	579	15.36	640
	Total Uttarakhand	1303	656	579	15.36	640
Delhi	Rajghat TPS	135	101	105	2.72	113
	Delhi Gas Turbine	282	112	113	2.77	115
	Pragati Gas Turbine	330	280	293	6.94	289
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	211	213	5.50	229
	Badarpur TPS (NTPC)	705	665	580	13.18	549
	Thermal (Total)	2232	1369	1304	31.11	1296
	Total Delhi	2232	1369	1304	31.11	1296
HP	Baspa HPS (IPP)	330	328	238	6.02	251
	Malana HPS (IPP)	86	42	87	0.88	37
	Other Hydro	589	504	497	12.07	503
	Total HP	1005	874	822	18.97	790
J & K	Baglihar HPS (IPP)	450	438	436	10.49	437
	Other Hydro	323	95	118	2.72	114
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	533	554	13.21	550
Total State Control Area Generation		33130	18981	18772	428.08	17556
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3063	4014	94.26	3927
Total Regional Availability(Gross)		55966	39948	37771	897.93	37133

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9112	5638	170.16	7090
State Control Area Hydro	5368	2703	2594	69.17	2601
Total Regional Hydro	15731	11815	8232	239.32	9691

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	-50	400	50	2.46	0.88	1.58
Gwalior-Agra (D/C)	998	1155	1424	0	22.77	0.00	22.77
Zerda-Kankroli	-218	-123	0	243	0.00	3.86	-3.86
Zerda-Bhinmal	-145	-113	34	-316	0.00	3.40	-3.40
Malanpur-Auraiya	0	0	0	0	0.00	0.00	0.00
Badod-Kota/Morak	-126	-51	0	141	0.00	2.56	-2.56
Mundra-Mohindergarh(HVDC)	1431	1436	1437	0	34.71	0.00	34.71
Sub Total WR	2340	2254			59.95	10.70	49.25
Pusauli Bypass	-100	-100	0	100	0.00	2.42	-2.42
MZP- GKP (D/C)	458	760	830	0	15.09	0.00	15.09
Patna-Balia(D/C)	200	563	600	0	19.14	0.00	19.14
B'Sharif-Balia (D/C)	30	330	429	0	8.44	0.00	8.44
Pusauli-Balia	-56	36	87	56	0.56	0.00	0.56
Gaya-Fatehpur (765 Kv)	86	40	186	25	1.65	0.00	1.65
Pusauli-Sahupuri	141	171	181	0	3.62	0.00	3.62
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-40	0	44	0.00	1.07	-1.07
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	723	1760			48.49	3.49	45.01
Total IR Exch	3063	4014			108.44	14.19	94.26

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdi (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.53	0.85	34.38	-1.97	4.54	3.29	-4.95	-0.93	0.93

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
34.77	54.31	89.09	45.01	49.25	94.26	10.23	-5.07	5.17

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.10	81.40	81.30	74.50	18.60

<----- 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				
50.62	6.03	49.68	22.37	50.08	0.25	0.13	50.47	49.92

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	17:16	399	14:13	0.0	0.0	0.0	0.0
Gorakhpur	400	424	4:09	404	13:12	0.0	0.0	12.5	0.0
Bareilly	400	423	4:00	402	13:15	0.0	0.0	0.0	0.0
Kanpur	400	416	4:02	400	11:12	0.0	0.0	0.0	0.0
Dadri	400	415	4:03	398	11:12	0.0	0.0	0.0	0.0
Balabhgarh	400	423	4:04	386	16:43	0.0	0.0	3.7	0.0
Bawana	400	419	4:03	401	11:42	0.0	0.0	0.0	0.0
Bassi	400	427	4:02	402	11:42	0.0	0.0	8.4	0.0
Hissar	400	412	4:05	393	11:41	0.0	0.0	0.0	0.0
Moga	400	420	4:06	400	10:39	0.0	0.0	0.0	0.0
Abdullapur	400	415	4:04	249	11:49	0.1	0.1	0.0	0.0
Nalagarh	400	415	4:04	395	16:37	0.0	0.0	0.0	0.0
Kishenpur	400	414	4:05	399	11:40	0.0	0.0	0.0	0.0
Wagoora	400	414	4:04	394	6:19	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	755	18:21	720	11:19	0.0	0.0	100.0	100.0
Balia	765	766	19:25	717	8:42	0.0	0.0	100.0	100.0
Moga	765	786	4:05	638	15:27	0.0	0.0	100.0	100.0
Agra	765	781	18:02	745	5:42	0.0	0.0	0.0	0.0
Bhiwani	765	793	13:29	762	5:40	0.0	0.0	0.0	0.0
Unnao	765	758	18:17	730	5:42	0.0	37.1	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	474.66	345.61	470.04	267.71	297.48	590.38
Pong	426.72	384.05	399.66	209.93	402.47	273.51	46.67	271.93
Tehri	829.79	740.04	754.85	80.00	818.65	982.26	211.00	213.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	221.56	170.54	160.11
Rihand	268.22	252.98	256.46	135.00	256.98	156.80	NA	NA
RPS	352.80	343.81	347.13	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.00	NA	NA	NA	NA	NA
RSD	527.91	487.91	507.20	NA	500.00	NA	160.39	209.69

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.05.2013 :

1. Hot weather

XIII. Synchronisation of new generating units :

0.00

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

1. 765/400 kv ICT-2 at Unnao first time charged 18.18 hrs.

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Report for : 18.05.2013

पारी प्रभाती अश्विनी / SHIFT CHARGE ENGINEER