

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.05.2014
Date of Reporting : 21.05.2014

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
38442	2398	40840	50.00	34650	3016	37667	50.02	863.3	75.85

* 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	35.35	15.10		50.45	68.79	67.86	-0.93	118.31	7.80
Haryana	37.77	0.19		37.96	85.71	87.56	1.86	125.52	6.23
Rajasthan	122.28	0.03	3.01	125.32	49.88	51.02	1.14	176.34	0.39
Delhi	20.87			20.87	72.96	70.96	-2.00	91.83	0.10
UP	131.48	9.53	2.40	143.41	109.11	111.51	2.39	254.91	59.41
Uttarakhand		13.13		13.13	22.60	23.25	0.65	36.38	0.23
HP		17.08		17.08	7.60	7.80	0.20	24.88	0.00
J & K		13.66	0.00	13.66	17.30	16.37	-0.93	30.03	1.70
Chandigarh				0.00	4.49	5.11	0.61	5.11	0.00
Total	347.75	68.71	5.41	421.87	438.43	441.44	3.00	863.31	75.85

* 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	6088	0	48	173	4523	425	84	98	4.03	
Haryana	6184	288	80	292	5077	501	166	89	3.87	
Rajasthan	7035	0	-188	-183	7049	0	-12	2	-4.49	
Delhi	4053	0	-28	424	3478	0	-218	240	8.41	
UP	10757	1935	-456	567	10887	2090	240	1076	15.97	
Uttarakhand	1650	75	30	496	1468	0	108	401	11.01	
HP	1042	0	120	-1074	860	0	1	-586	-14.57	
J&K	1402	100	68	-392	1132	0	-29	-487	-10.22	
Chandigarh	231	0	9	0	176	0	5	0	0.24	
Total	38442	2398	-317	302	34650	3016	345	834	14.26	

* 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	1336	1784	1348	32.03	1335	32.05	-0.02	
Rihand I STPS	1000	827	891	921	20.40	850	19.64	0.75	
Rihand II STPS	1000	844	735	1008	20.30	846	20.15	0.14	
Rihand III STPS	1000	762	909	480	18.27	761	18.19	0.08	
Dadri I STPS	840	813	813	880	18.64	777	19.03	-0.39	
Dadri II STPS	980	980	927	955	21.77	907	22.49	-0.73	
Unchahar I TPS	420	405	403	422	9.07	378	9.53	-0.47	
Unchahar II TPS	420	359	395	213	7.86	328	8.29	-0.43	
Unchahar III TPS	210	204	196	208	4.51	188	4.66	-0.16	
ISTPP (Jhajjar)	1500	1000	952	953	22.09	920	22.32	-0.23	
Dadri GPS	830	798	173	154	4.08	170	4.37	-0.29	
Anta GPS	419	391	0	0	0.00	0	0.05	-0.05	
Auraiya GPS	663	428	131	153	3.37	141	3.41	-0.04	
Dadri Solar	5	1	0	0	0.03	1	0.03	0.00	
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07	
Sub Total (A)	11297	9150	8309	7695	182	7601	184	-2	
B. NPC									
NAPS	440	140	165	170	3.46	144	3.36	0.10	
RAPS- B	440	404	445	447	9.67	403	9.70	-0.03	
RAPS- C	440	210	229	231	4.96	207	5.04	-0.08	
Sub Total (B)	1320	754	839	848	18.09	754	18.10	-0.01	
C. NHPC									
Chamera I HPS	540	535	540	360	9.41	392	9.40	0.00	
Chamera II HPS	300	300	303	202	6.59	274	6.50	0.09	
Chamera III HPS	231	229	229	154	4.17	174	4.05	0.12	
Bairasui HPS	180	180	180	180	4.08	170	3.97	0.11	
Salal-HPS	690	565	660	500	13.52	563	13.56	-0.04	
Tanakpur-HPS	94	40	60	41	1.02	42	0.97	0.04	
Uri-HPS	480	475	472	477	11.50	479	11.40	0.10	
Uri-II HPS	240	240	248	249	5.89	245	5.76	0.13	
Dhauliganga-HPS	280	133	140	132	3.19	133	3.20	-0.01	
Dulhasti-HPS	390	387	409	405	9.55	398	9.30	0.25	
Sewa-II HPS	120	122	131	130	3.09	129	2.93	0.16	
Parbati 3	390	260	260	0	1.85	77	1.73	0.12	
Sub Total ©	3935	3467	3632	2830	74	3077	73	1	
D. SJVNL									
NJPC	1500	1605	1620	649	22.70	946	22.44	0.27	
Rampur HEP	206		213	168	2.75	115	2	0.45	
Sub Total (D)	1706	1605	1833	817	25.45	1060	24.74	0.71	
E. THDC									
Tehri HPS	1000	399	400	125	6.04	252	6.00	0.04	
Koteshwar HPS	400	125	301	91	2.84	118	2.80	0.04	
Sub Total (E)	1400	524	701	216	8.87	370	8.80	0.07	
F. BBMB									
Bhakra HPS	1514	686	1317	483	16.86	703	16.46	0.40	
Dehar HPS	990	442	660	495	11.56	482	10.61	0.95	
Pong HPS	396	33	252	0	0.84	35	0.78	0.06	
Sub Total (F)	2900	1160	2229	978	29.26	1219	27.85	1.41	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	143	64	1.50	63	1.48	0.03	
KWHEP HPS(IPP)	1000	0	1002	270	12.88	537	11.99	0.89	
Malana Stg-II HPS	100	0	112	0	0.82	34	0.75	0.07	
Shree Cement TPS	300	0	267	274	6.58	274	6.43	0.15	
Budhil HPS(IPP)	70	0	68	68	1.14	47	0.95	0.18	
Sub Total (G)	1662	0	1592	676	22.92	955	21.60	1.32	
H. Total Regional Entities (A-G)	24221	16660	19135	14060	360.84	15035	358.15	2.69	

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	1260	840	23	956
	Guru Nanak Dev TPS(Bhatinda)	440	110	120	2	102
	Guru Hargobind Singh TPS(L.mbt)	920	464	432	10	416
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1834	1392	35	1473
	Total Hydro	1148	765	618	15.10	629
Total Punjab	5128	2599	2010	50.45	2102	
Haryana	Panipat TPS	1367	238	165	4.94	206
	DCRTPP (Yamuna nagar)	600	276	278	6.61	275
	Faridabad GPS (NTPC)	432	346	338	8.07	336
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1111	543	18.16	757
	Thermal (Total)	4944	1971	1324	38	1574
	Total Hydro	62	7	10	0.19	8
	Total Haryana	5006	1978	1334	37.96	1582
Rajasthan	kota TPS	1240	857	863	19.92	830
	suratgarh TPS	1500	1216	1104	27.09	1129
	Chabra TPS	750	380	432	10.04	418
	Dholpur GPS	330	128	132	3.22	134
	Ramgarh GPS	221	89	101	2.34	97
	RAPS A (NPC)	300	206	206	4.09	170
	Barsingsar (NLC)	250	154	154	3.85	161
	Giral LTPS	250	36	0	0.51	21
	Rajwest LTPS (IPP)	1080	791	955	22.44	935
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1096	1161	28.78	1199
	Thermal (Total)	7976	4953	5108	122	5095
	Total Hydro	550	0	0	0.03	1
	Wind power	2191	36	214	2.03	85
	Biomass	91	32	32	0.77	32
	Solar	201	0	0	0.20	8
	Renewable/Others (Total)	2483	68	246	3.01	125
Total Rajasthan	11009	5021	5354	125.32	5222	
UP	Anpara TPS	1630	1495	1559	32.50	1354
	Obra TPS	1288	367	360	7.80	325
	Paricha TPS	1140	814	834	18.10	754
	Panki TPS	210	150	80	2.20	92
	Harduaganj TPS	665	209	0	3.20	133
	Tanda TPS (NTPC)	440	377	366	9.29	387
	Roza TPS (IPP)	1200	1125	1098	26.57	1107
	Anpara-C (IPP)	1200	994	1044	24.64	1027
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	321	320	7.18	299
	Thermal (Total)	8223	5852	5661	131	5478
	Vishnuparyag HPS (IPP)	400	208	217	4.94	206
	Other Hydro	527	155	212	4.59	191
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	6315	6190	143.41	5770
Uttarakhand	Total Hydro	1303	571	513	13.13	547
	Total Uttarakhand	1303	571	513	13.13	547
Delhi	Rajghat TPS	135	107	109	2.55	106
	Delhi Gas Turbine	282	104	110	2.58	107
	Pragati Gas Turbine	330	133	137	3.34	139
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	516	501	12.40	517
	Thermal (Total)	2917	860	857	20.87	870
	Total Delhi	2917	860	857	20.87	870
HP	Baspa HPS (IPP)	300	62	164	3.34	139
	Malana HPS (IPP)	86	86	0	0.93	39
	Other Hydro	728	514	533	12.81	534
	Total HP	1114	662	697	17.08	712
J & K	Baglihar HPS (IPP)	450	438	438	10.52	439
	Other Hydro/IPP	436	128	132	3.14	131
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	566	570	13.66	569
Total State Control Area Generation		37702	18572	17525	421.87	17372
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3257	4959	100.82	4201
Total Regional Availability(Gross)		61923	40964	36544	883.53	36608

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9652	5175	152.63	6360
State Control Area Hydro	5589	2726	2620	68.71	2657
Total Regional Hydro	16823	12378	7795	221.34	9017

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	150	250	250	0	5.56	0.00	5.56
Gwalior-Agra (D/C)	1169	1892	1892	0	36.71	0.00	36.71
Zerda-Kankroli	-104	-107	0	224	0.00	3.16	-3.16
Zerda-Bhinmal	-76	-69	0	172	0.00	2.00	-2.00
Malanpur-Auraiya	-79	-35	0	82	0.00	1.08	-1.08
Badod-Kota/Morak	-88	-96	0	116	0.00	1.46	-1.46
Mundra-Mohindergarh(HVDC)	2002	2003	2006	0	48.32	0.00	48.32
Sub Total WR	2974	3838			90.59	7.70	82.89
Pusauli Bypass	400	400	400	0	9.48	0.00	9.48
MZP- GKP (D/C)	60	118	188	0	0.48	0.00	0.48
Patna-Balia(D/C)	35	364	364	0	5.79	0.00	5.79
B'Sharif-Balia (D/C)	1	271	271	0	3.39	0.00	3.39
Pusauli-Balia	-112	-30	0	112	0.00	1.44	-1.44
Gaya-Fatehpur (765 Kv)	-145	-87	13	149	0.00	1.62	-1.62
Pusauli-Sahupuri	162	179	184	0	3.24	0.00	3.24
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)	-118	-94	26	183	0.00	1.39	-1.39
Sub Total ER	283	1121			22.38	4.45	17.93
Total IR Exch	3257	4959			112.97	12.15	100.82

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
30.63	0.33	30.96	4.98	-0.55	-7.34	-0.19	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
28.60	67.95	96.55	17.93	82.89	100.82	-10.66	14.94	4.27

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	>50.50
0.00	1.28	11.93	44.06	81.64	49.24	3.96	2.74	0.49	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	Index	0.10	50.22	0.00
50.28	6.04	49.41	0.05	49.91	0.17			

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	02:54	404	23:27	0.0	0.0	0.0	0.0
Gorakhpur	400	435	01:23	419	23:27	0.0	0.0	99.0	27.2
Bareilly	400	416	06:04	397	22:10	0.0	0.0	0.0	0.0
Kanpur	400	418	06:06	403	22:08	0.0	0.0	0.0	0.0
Dadri	400	413	00:00	398	16:18	0.0	0.0	0.0	0.0
Ballabgarh	400	427	06:09	406	14:41	0.0	0.0	7.7	0.0
Bawana	400	420	06:04	401	09:42	20.4	20.4	0.0	0.0
Bassi	400	426	03:26	405	09:56	0.0	0.0	23.6	0.0
Hissar	400	403	18:19	389	16:21	0.0	0.1	0.0	0.0
Moga	400	413	06:04	393	14:36	7.1	7.1	0.0	0.0
Abdullapur	400	425	06:08	399	16:21	0.0	0.0	1.7	0.0
Nalagarh	400	407	18:05	390	14:35	0.0	0.0	0.0	0.0
Kishenpur	400	412	03:41	398	19:57	0.0	0.0	0.0	0.0
Wagoora	400	409	03:39	391	20:27	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	774	12:01	744	22:08	0.0	0.0	0.0	0.0
Balia	765	777	13:51	751	22:08	0.0	0.0	0.0	0.0
Moga	765	786	06:04	746	16:19	0.0	0.0	0.0	0.0
Agra	765	793	12:04	760	16:19	0.0	0.0	0.0	0.0
Bhiwani	765	801	06:04	760	16:19	0.0	0.0	0.4	0.0
Unnao	765	760	06:05	735	22:46	0.0	8.9	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	480.26	468.02	475.12	356.29	445.54	595.42
Pong	426.72	384.05	403.33	296.79	399.38	203.01	77.90	56.83
Tehri	829.79	740.04	745.75	29.00	NA	NA	114.04	208.00
Koteshwar	612.50	598.50	610.55	4.95	604.70	2.15	208.00	188.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	206.25	230.88
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 20.05.2014 :
Normal weather.

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 : 20.05.2014

पारी प्रभासी अभियंता / SHIFT CHARGE ENGINEER