

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.05.2014
Date of Reporting : 23.05.2014

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
38508	2590	41098	50.01	38230	2090	40320	50.09	904.4	57.60

* 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	47.58	15.34		62.92	70.03	69.94	-0.09	132.86	0.00
Haryana	56.76	0.16		56.92	85.48	83.74	-1.74	140.66	0.03
Rajasthan	115.57	0.00	11.91	127.49	53.63	53.19	-0.44	180.68	0.00
Delhi	20.21			20.21	78.14	77.00	-1.14	97.21	0.06
UP	123.84	10.49	2.40	136.73	120.35	122.51	2.16	259.24	55.07
Uttarakhand		13.12		13.12	22.36	22.84	0.48	35.96	0.74
HP		17.47		17.47	6.55	7.52	0.97	24.99	0.00
J & K		10.52	0.00	10.52	16.92	17.03	0.11	27.55	1.70
Chandigarh				0.00	4.49	5.30	0.81	5.30	0.00
Total	363.97	67.09	14.31	445.37	457.94	459.07	1.13	904.45	57.60

* 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	5887	0	-84	98	5689	0	-31	197	6.34
Haryana	6416	0	-163	320	5989	0	-27	164	4.08
Rajasthan	7098	0	35	-288	7426	0	-219	-140	1.95
Delhi	4267	0	-50	303	3760	0	-138	-155	3.53
UP	10368	2415	-506	1040	11700	2090	242	2057	28.51
Uttarakhand	1716	75	242	276	1453	0	4	436	9.55
HP	1031	0	-99	-910	894	0	88	-653	-15.70
J&K	1484	100	37	-432	1139	0	-11	-596	-11.81
Chandigarh	241	0	22	0	180	0	13	0	0.29
Total	38508	2590	-566	408	38230	2090	-79	1309	26.75

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

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	1725	1865	1856	41.80	1741	41.40	0.40
Rihand I STPS	1000	800	881	902	19.65	819	19.06	0.59
Rihand II STPS	1000	745	803	815	17.93	747	17.85	0.09
Rihand III STPS	1000	900	954	961	21.84	910	21.60	0.24
Dadri I STPS	840	813	754	829	18.00	750	18.74	-0.74
Dadri II STPS	980	980	902	927	21.35	890	22.40	-1.05
Unchahar I TPS	420	399	391	401	9.03	376	9.47	-0.45
Unchahar II TPS	420	404	420	430	9.13	380	9.44	-0.31
Unchahar III TPS	210	202	217	215	4.54	189	4.68	-0.14
ISTPP (Jhajjhar)	1500	1000	665	867	15.68	653	15.95	-0.27
Dadri GPS	830	798	175	164	4.04	169	4.21	-0.17
Anta GPS	419	391	0	0	0.00	0	0.03	-0.03
Auraiya GPS	663	420	144	141	3.31	138	3.38	-0.07
Dadri Solar	5	1	0	0	0.00	0	0.03	-0.03
Unchahar Solar	10	3	0	0	0.00	0	0.07	-0.07
Sub Total (A)	11297	9582	8171	8508	186	7762	188	-2
B. NPC								
NAPS	440	144	168	165	3.57	149	3.46	0.12
RAPS- B	440	402	438	450	9.57	399	9.65	-0.07
RAPS- C	440	210	229	230	4.95	206	5.04	-0.09
Sub Total (B)	1320	756	835	845	18.09	754	18.14	-0.05
C. NHPC								
Chamera I HPS	540	535	552	552	9.57	399	9.50	0.07
Chamera II HPS	300	300	300	200	6.36	265	6.30	0.06
Chamera III HPS	231	229	232	138	4.23	176	4.15	0.08
Bairasui HPS	180	180	180	180	4.25	177	4.22	0.03
Salal-HPS	690	601	652	603	14.65	610	14.37	0.28
Tanakpur-HPS	94	35	58	36	0.92	38	0.84	0.08
Uri-HPS	480	475	476	473	11.51	480	11.40	0.11
Uri-II HPS	240	240	244	248	5.87	245	5.76	0.11
Dhauliganga-HPS	280	133	138	132	3.13	130	3.19	-0.06
Dulhasti-HPS	390	387	405	398	9.43	393	9.30	0.13
Sewa-II HPS	120	122	131	130	3.10	129	2.93	0.17
Parbati 3	390	260	270	100	1.86	78	1.77	0.09
Sub Total ©	3935	3497	3638	3190	75	3120	74	1
D. SJVNL								
NJPC	1500	1605	1621	756	22.01	917	21.98	0.02
Rampur HEP	206		207	197	2.75	114	2	0.45
Sub Total (D)	1706	1605	1828	953	24.75	1031	24.28	0.47
E. THDC								
Tehri HPS	1000	390	390	0	5.18	216	5.10	0.08
Koteshwar HPS	400	116	303	90	2.82	118	2.80	0.02
Sub Total (E)	1400	506	693	90	8.00	333	7.90	0.10
F. BBMB								
Bhakra HPS	1514	699	1322	481	17.17	715	16.78	0.39
Dehar HPS	990	464	660	440	12.01	500	11.13	0.88
Pong HPS	396	88	309	63	2.25	94	2.10	0.15
Sub Total (F)	2900	1251	2291	984	31.43	1310	30.02	1.41
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	107	77	1.63	68	1.56	0.07
KWHEP HPS(IPP)	1000	0	702	485	12.30	513	12.69	-0.39
Malana Stg-II HPS	100	0	112	0	0.73	31	0.70	0.03
Shree Cement TPS	300	0	280	282	6.80	283	6.83	-0.03
Budhil HPS(IPP)	70	0	68	68	1.14	47	1.06	0.07
Sub Total (G)	1662	0	1269	912	22.60	942	22.84	-0.24
H. Total Regional Entities (A-G)	24221	17197	18725	15482	366.05	15252	365.23	0.82

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	950	1050	23	952
	Guru Nanak Dev TPS(Bhatinda)	440	250	210	5	194
	Guru Hargobind Singh TPS(L.mbt)	920	940	892	20	836
	Goindwal(GVK)		0	0	0	0
	Rajpura	700	0	0	0	0
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	2140	2152	48	1983
	Total Punjab	5128	2839	2730	62.92	2622
Haryana	Panipat TPS	1367	420	478	10.42	434
	DCRTPP (Yamuna nagar)	600	544	547	12.83	535
	Faridabad GPS (NTPC)	432	376	322	8.13	339
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1098	1194	25.39	1058
	Thermal (Total)	4944	2438	2541	57	2365
	Total Hydro	62	7	7	0.16	7
	Total Haryana	5006	2445	2548	56.92	2372
Rajasthan	kota TPS	1240	705	664	15.68	653
	suratgarh TPS	1500	878	1231	26.69	1112
	Chabra TPS	750	434	385	10.57	440
	Dholpur GPS	330	127	133	3.19	133
	Ramgarh GPS	221	49	122	1.76	73
	RAPS A (NPC)	300	201	201	3.96	165
	Barsingsar (NLC)	250	177	177	4.04	168
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	1080	940	740	21.33	889
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	1164	1169	28.36	1182
	Thermal (Total)	7976	4675	4822	116	4816
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	289	520	10.90	454
	Biomass	91	34	34	0.82	34
	Solar	201	0	0	0.20	8
Renewable/Others (Total)	2483	323	554	11.91	496	
Total Rajasthan	11009	4998	5376	127.49	5312	
UP	Anpara TPS	1630	1294	1200	29.50	1229
	Obra TPS	1288	342	366	8.70	363
	Paricha TPS	1140	545	552	13.20	550
	Panki TPS	210	149	144	3.50	146
	Harduaganj TPS	665	203	70	3.30	138
	Tanda TPS (NTPC)	440	371	378	9.12	380
	Roza TPS (IPP)	1200	1125	1116	26.87	1120
	Anpara-C (IPP)	1200	837	857	20.33	847
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	9.32	388
	Thermal (Total)	8223	5267	5084	124	5160
	Vishnuparyag HPS (IPP)	400	258	207	5.15	214
	Other Hydro	527	149	247	5.34	223
	Cogeneration	981	100	100	2.40	100
	Total UP	10131	5774	5638	136.73	5483
Uttarakhand	Total Hydro	1303	544	504	13.12	547
	Total Uttarakhand	1303	544	504	13.12	547
Delhi	Rajghat TPS	135	104	110	2.36	98
	Delhi Gas Turbine	282	140	110	2.89	120
	Pragati Gas Turbine	330	135	140	3.39	141
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	1370	0	0	0.00	0
	Badarpur TPS (NTPC)	705	505	575	11.58	482
	Thermal (Total)	2917	884	935	20.21	842
Total Delhi	2917	884	935	20.21	842	
HP	Baspa HPS (IPP)	300	30	129	3.81	159
	Malana HPS (IPP)	86	48	0	0.82	34
	Other Hydro	728	577	544	12.84	535
	Total HP	1114	655	673	17.47	728
J & K	Baglihar HPS (IPP)	450	440	410	10.52	438
	Other Hydro/IPP	436	0	0	0.00	0
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	440	410	10.52	438
Total State Control Area Generation		37702	18579	18814	445.37	18343
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3941	5563	115.11	4796
Total Regional Availability(Gross)		61923	41245	39859	926.54	38391

IV. Total Hydro Generation:

Regional Entities Hydro	11233	9371	5779	153.73	6405
State Control Area Hydro	5589	2494	2419	67.09	2581
Total Regional Hydro	16823	11865	8198	220.82	8986

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	400	500	0	6.77	0.00	6.77
Gwalior-Agra (D/C)	1434	1994	2208	0	40.72	0.00	40.72
Zerda-Kankroli	-116	-125	0	252	0.00	3.91	-3.91
Zerda-Bhinmal	-104	-83	0	230	0.00	2.96	-2.96
Malanpur-Auraiya	-76	-29	0	76	0.00	0.58	-0.58
Badod-Kota/Morak	-48	-23	0	72	0.00	0.86	-0.86
Mundra-Mohindergarh(HVDC)	2003	2000	2005	0	48.32	0.00	48.32
Sub Total WR	3293	4134			95.81	8.31	87.50
Pusauli Bypass	400	400	400	0	9.54	0.00	9.54
MZP- GKP (D/C)	144	270	362	0	3.61	0.00	3.61
Patna-Balia(D/C)	127	428	428	0	7.81	0.00	7.81
B'Sharif-Balia (D/C)	53	361	372	0	5.77	0.00	5.77
Pusauli-Balia	-108	-10	0	108	0.00	0.95	-0.95
Gaya-Fatehpur (765 Kv)	-63	-74	25	201	0.00	0.99	-0.99
Pusauli-Sahupuri	94	132	193	0	3.09	0.00	3.09
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)	1	-78	68	209	0.00	0.27	-0.27
Sub Total ER	648	1429			29.82	2.21	27.61
Total IR Exch	3941	5563			125.63	10.52	115.11

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
33.35	0.36	33.71	8.27	-0.21	-3.98	4.06	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
38.00	71.49	109.49	27.61	87.50	115.11	-10.39	16.01	5.62

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	>50.50
0.00	0.36	6.28	26.34	65.18	57.07	9.99	6.66	1.09	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				
50.30	6.08	49.66	14.37	49.96	0.12	0.10	50.31	49.84

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	409	06:15	400	22:19	0.0	0.0	0.0	0.0
Gorakhpur	400	442	06:08	416	23:04	0.0	0.0	80.4	29.8
Bareilly	400	418	06:06	396	09:22	0.0	0.0	0.0	0.0
Kanpur	400	420	06:05	399	22:32	0.0	0.0	0.0	0.0
Dadri	400	418	06:15	395	14:37	0.0	0.0	0.0	0.0
Ballabgarh	400	427	06:05	401	22:53	0.0	0.0	3.6	0.0
Bawana	400	422	06:05	398	14:38	0.0	0.0	1.0	0.0
Bassi	400	425	05:03	397	22:33	0.0	0.0	10.0	0.0
Hissar	400	416	06:06	391	23:06	0.0	0.0	0.0	0.0
Moga	400	413	06:06	392	14:37	2.0	2.0	0.0	0.0
Abdullapur	400	424	06:06	401	14:37	0.0	0.0	1.0	0.0
Nalagarh	400	420	06:07	389	14:37	0.0	0.3	0.0	0.0
Kishenpur	400	412	06:09	399	14:36	0.0	0.0	0.0	0.0
Wagoora	400	408	03:01	390	19:49	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	777	06:07	733	22:49	0.0	6.0	0.0	0.0
Balia	765	790	06:08	746	22:49	0.0	0.0	0.0	0.0
Moga	765	786	06:06	746	14:37	0.0	0.0	0.0	0.0
Agra	765	795	06:07	752	22:34	0.0	0.0	0.0	0.0
Bhiwani	765	802	06:08	758	23:07	0.0	0.0	0.4	0.0
Unnao	765	765	06:06	732	22:51	0.0	13.0	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	480.26	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 22.05.2014 :
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 : 22.05.2014

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER