

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 21.05.2012
Date of Reporting : 22.05.2012

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
33525	2545	36070	49.94	32973	2092	35065	49.90	798.0	67.75

* 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	46.83	11.30		58.13	69.57	71.04	1.47	129.17	2.65
Haryana	56.86	0.76		57.62	43.37	48.29	4.92	105.91	13.22
Rajasthan	75.82	0.08	11.83	87.73	44.23	53.79	9.57	141.52	5.38
Delhi	27.21			27.21	77.96	68.41	-9.55	95.62	0.07
UP	92.82	9.04	7.20	109.05	98.14	127.83	29.69	236.88	41.19
Uttarakhand		17.22		17.22	13.39	14.44	1.06	31.66	2.28
HP		13.57		13.57	9.14	9.55	0.40	23.12	0.00
J & K		14.25	0.00	14.25	16.14	14.52	-1.62	28.77	2.95
Chandigarh				0.00	5.49	5.38	-0.12	5.38	0.00
Total	299.53	66.23	19.03	384.80	377.42	413.24	35.82	798.04	67.75

* 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	5264	450	-195	593	4990	0	-33	592	14.21
Haryana	4688	277		205	4439	452	386	205	4.91
Rajasthan	6097	0	-134	-396	5777	0	181	-396	-9.50
Delhi	4073	3	-435	597	3597	0	-544	581	14.15
UP	9308	1585	666	70	10911	1540	1531	75	1.71
Uttarakhand	1528	80	220	27	1223	0	83	27	0.66
HP	970	0	-51	-559	797	0	355	-341	-11.46
J&K	1350	150	-101	-408	1054	100	-194	-428	-10.18
Chandigarh	247	0	-12	0	185	0	-7	0	0.57
Total	33525	2545	187	129	32973	2092	1758	315	5.07

* 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	1814	2068	2059	44.13	1839	43.54	0.59
	Rihand I STPS	1000	881	979	981	21.32	888	21.14	0.18
	Rihand II STPS	1000	965	1031	1035	23.30	971	23.16	0.14
	Dadri I STPS	840	598	645	657	14.31	596	14.36	-0.04
	Dadri II STPS	980	813	1012	514	19.38	808	19.50	-0.12
	Unchahar I TPS	420	402	439	441	9.64	402	9.65	-0.01
	Unchahar II TPS	420	404	439	440	9.71	405	9.70	0.02
	Unchahar III TPS	210	201	219	220	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	470	389	490	9.97	415	10.13	-0.16
	Dadri GPS	830	773	566	564	14.17	590	14.16	0.00
	Anta GPS	419	380	261	257	6.69	279	6.58	0.11
	Auraiya GPS	663	608	450	483	11.76	490	11.28	0.47
	Sub Total (A)	9782	8310	8498	8141	189.22	7884	188.02	1.20
	B. NPC	NAPS	440	127	147	149	2.97	124	3.04
RAPS- B		440	370	433	415	8.94	373	8.87	0.07
RAPS- C		440	232	233	235	5.01	209	5.57	-0.56
Sub Total (B)		1320	728	813	799	16.92	705	17.48	-0.56
C. NHPC	Chamera I HPS	540	534	540	540	9.64	402	9.56	0.08
	Chamera II HPS	300	297	300	300	6.27	261	6.35	-0.08
	Bairasuil HPS	180	182	150	181	3.30	137	3.31	-0.01
	Salal-HPS	690	517	547	539	12.21	509	12.46	-0.25
	Tanakpur-HPS	94	37	52	34	1.07	44	1.19	-0.13
	Uri-HPS	480	474	480	479	11.44	477	11.59	-0.15
	Dhauliganga-HPS	280	277	278	144	2.94	122	2.98	-0.04
	Dulhasti-HPS	390	388	413	411	9.31	388	9.35	-0.04
	Sewa-II HPS	120	76	85	84	1.72	72	1.87	-0.15
	Sub Total (C)	3074	2782	2845	2712	57.90	2412	58.66	-0.76
D. NJPC	Nathpa Jhakri	1500	1217	1607	0	21.18	882	20.93	0.25
	Sub Total (D)	1500	1217	1607	0	21.18	882	20.93	0.25
E. THDC	Tehri HPS	1000	530	401	530	5.09	212	5.00	0.09
	Koteshwar HPS	400	400	287	171	2.54	106	2.50	0.04
	Sub Total (E)	1400	930	688	701	7.63	318	7.50	0.13
F. BBMB	Bhakra HPS	1480	702	1040	535	17.08	712	16.86	0.22
	Dehar HPS	990	450	660	420	10.75	448	10.80	-0.05
	Pong HPS	396	215	300	180	5.35	223	5.16	0.19
	Sub Total (F)	2866	1367	2000	1135	33.18	1383	32.82	0.36
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	197	0	1.84	77	1.76	0.08
	KWHEP HPS(IPP)	1000	0	852	360	12.46	519	12.49	-0.03
	Malana Stg-II HPS	100	0	35	40	0.87	36	0.00	0.87
	Shree Cement TPS	300	0	127	135	3.32	138	3.02	0.30
	Sub Total (G)	1592	0	1211	535	18.49	771	17.27	1.22
H. Total Regional Entities (A-G)	21535	15334	17662	14023	344.52	14355	342.68	1.85	

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	1020	1050	23.42	976	
	Guru Nanak Dev TPS(Bhatinda)	440	170	75	2.11	88	
	Guru Hargobind Singh TPS(L.mbt)	920	962	961	21.31	888	
	Thermal (Total)	2620	2152	2086	46.83	1951	
	Total Hydro	1148	423	370	11.30	471	
	Total Punjab	3768	2575	2456	58.13	2422	
Haryana	Panipat TPS	1367	1024	1027	24.60	1025	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	371	382	9.01	375	
	RGTPP (kheldar) (IPP)	1200	488	482	11.67	486	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	554	561	11.59	483	
	Thermal (Total)	4944	2437	2452	56.86	2369	
	Total Hydro	62	23	22	0.76	32	
	Total Haryana	5006	2460	2474	57.62	2401	
	Rajasthan	kota TPS	1240	1144	1152	27.50	1146
suratgarh TPS		1500	1342	1355	32.18	1341	
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	180	181	3.21	134	
Ramgarh GPS		111	39	27	0.89	37	
RAPS A (NPC)		300	180	166	4.12	172	
Barsingsar (NLC)		250	93	0	1.16	48	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	381	246	6.76	282	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3359	3127	75.82	3159	
Total Hydro		550	0	0	0.08	4	
Wind power		1843	310	890	10.68	445	
Biomass		91	45	45	1.07	45	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	355	935	11.83	493	
Total Rajasthan		7767	3714	4062	87.73	3656	
UP		Anpara TPS	1630	1160	1173	25.20	1050
		Obra TPS	1382	296	175	6.20	258
	Paricha TPS	640	338	412	7.70	321	
	Panki TPS	210	155	170	3.30	138	
	Harduaganj TPS	665	230	211	5.60	233	
	Tanda TPS (NTPC)	440	290	289	7.18	299	
	Roza TPS (IPP)	1200	819	828	19.72	822	
	Anpara-C (IPP)	1200	360	352	8.59	358	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	391	385	9.33	389	
	Thermal (Total)	7817	4039	3995	92.82	3867	
	Vishnuparyag HPS (IPP)	400	278	278	6.04	252	
	Other Hydro	527	142	30	2.99	125	
	Cogeneration	981	300	300	7.20	300	
	Total UP	9725	4759	4603	109.05	4292	
	Uttarakhand	Total Hydro	1303	727	571	17.22	718
Total Uttarakhand		1303	727	571	17.22	718	
Delhi	Rajghat TPS	135	103	106	2.65	110	
	Delhi Gas Turbine	282	224	228	5.48	228	
	Pragati Gas Turbine	330	271	282	6.98	291	
	Rithala GPS	108	33	35	0.83	34	
	Bawana GPS	677	0	200	2.33	97	
	Badarpur TPS (NTPC)	705	380	415	8.95	373	
	Thermal (Total)	2237	1011	1266	27.21	1134	
	Total Delhi	2237	1011	1266	27.21	1134	
HP	Baspa HPS (IPP)	330	31	62	2.86	119	
	Malana HPS (IPP)	86	38	14	0.89	37	
	Other Hydro	589	380	406	9.83	409	
	Total HP	1005	449	482	14	566	
J & K	Baglihar HPS (IPP)	450	436	438	10.50	437	
	Other Hydro	323	166	155	3.76	156	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	602	593	14.25	594	
Total State Control Area Generation		31767	16297	16507	384.80	15781	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1884	3693	77.47	3228	
Total Regional Availability(Gross)		53302	35843	34223	806.79	33365	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8224	4948	135.06	5627
State Control Area Hydro	5368	2366	2068	60.19	2508
Total Regional Hydro	15500	10590	7016	195.25	8135

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	300	200	300	0	5.37	0.00	5.37
Gwalior-Agra (D/C)	383	906	1132	0	19.75	0.00	19.75
Zerda-Kankroli	-42	59	143	121	0.70	0.00	0.70
Zerda-Bhinmal	-12	55	262	135	1.76	0.00	1.76
Malanpur-Auraiya	-90	-47	0	146	0.00	1.51	-1.51
Badod-Kota/Morak	43	21	70	22	1.07	0.00	1.07
Sub Total WR	582	1194			28.65	1.51	27.14
Pusauli Bypass	-147	114	263	235	2.56	0.37	2.19
MZP- GKP (D/C)	488	838	964	0	18.20	0.00	18.20
Patna-Balia(D/C)	480	473	604	0	10.16	0.00	10.16
B'Sharif-Balia (D/C)	331	477	597	0	10.39	0.00	10.39
Barh - Balia(D/C)	0	380	424	0	7.10	0.00	7.10
Pusauli-Balia	0	50	71	0	0.10	0.00	0.10
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	142	139	157	0	3.07	0.00	3.07
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-40	-32	0	47	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1302	2499			51.67	1.34	50.33
Total IR Exch	1884	3693			80.32	2.85	77.47

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	
33.07	0.89	33.95	0.17	7.57	-0.54	6.25	2.99	-2.99	

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
36.57	11.35	47.92	50.33	27.14	77.47	13.76	15.80	29.56

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	0.30	7.80	32.30	91.30	66.80	8.50	0.90

<----- Frequency (Hz) ----->				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	49.77	0.87	0.19	50.29	49.51
50.40	18.04	49.14	14.19					

VII. Voltage profile

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	404	18:48	397	02:06	0.0	0.0	0.0	0.0
Gorakhpur	400	422	18:00	402	01:00	0.0	0.0	0.0	0.0
Bareilly	400	415	18:57	388	14:18	0.0	0.2	0.0	0.0
Kanpur	400	411	06:05	394	16:48	0.0	0.0	0.0	0.0
Dadri	400	412	05:43	392	14:14	0.0	0.0	0.0	0.0
Ballabgarh	400	416	06:02	394	14:13	0.0	0.0	0.0	0.0
Bawana	400	415	06:09	392	14:16	0.0	0.0	0.0	0.0
Bassi	400	423	05:41	401	14:12	0.0	0.0	0.7	0.0
Hissar	400	409	18:04	384	14:15	0.0	3.3	0.0	0.0
Moga	400	421	18:05	398	14:16	0.0	0.0	0.1	0.0
Abdullapur	400	422	18:07	383	12:07	0.0	0.0	0.1	0.0
Nalagarh	400	424	06:02	397	14:16	0.0	0.0	6.7	0.0
Kishenpur	400	416	18:05	398	13:50	0.0	0.0	0.0	0.0
Wagoora	400	409	03:36	387	21:13	0.0	4.1	0.0	0.0

VIII. 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	469.89	267.31	479.69	454.47	505.23	616.77
Pong	426.72	384.05	402.36	275.31	411.20	534.70	64.73	254.31
Tehri	829.79	740.04	748.80	38.00	818.65	982.26	113.80	174.00
Koteshwar	612.50	598.50	611.20	5.20	NA	NA	176.00	186.00
Chamera-I	760.00	748.75	754.76	NA	NA	NA	261.30	245.46
Rihand	268.22	252.98	256.89	152.90	254.23	46.70	NA	NA
RPS	352.80	343.81	349.36	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.03	NA	NA	NA	NA	NA
RSD	527.91	487.91	500.39	NA	510.23	NA	227.24	315.65

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 21.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

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

1: 400kV Fatehabad (PG) - Nuhiawali (HVPN) first time test charged at 20.06 hrs of dt 21.05.12 after LILO of 400kV Fatehabad (PG) - Khedar (HVPN) ckt.-2 at Nuhiawali (HVPN).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 21.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER