

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.05.2012
Date of Reporting : 23.05.2012

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
34089	3266	37355	49.81	34536	2146	36682	49.94	817.3	73.04

* 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	49.21	15.15		64.37	72.32	74.88	2.55	139.24	2.45
Haryana	61.11	0.77		61.89	48.66	49.44	0.78	111.33	14.08
Rajasthan	77.60	0.07	5.57	83.23	45.25	57.51	12.27	140.74	8.14
Delhi	29.46			29.46	74.98	67.58	-7.40	97.04	0.06
UP	92.83	9.24	7.20	109.27	99.56	129.27	29.72	238.54	41.83
Uttarakhand		15.12		15.12	13.43	15.04	1.61	30.16	3.02
HP		12.99		12.99	9.82	11.47	1.65	24.46	0.52
J & K		14.25	0.00	14.25	16.12	16.14	0.02	30.39	2.95
Chandigarh				0.00	5.45	5.43	-0.02	5.43	0.00
Total	310.21	67.60	12.77	390.57	385.59	426.76	41.18	817.33	73.04

* 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	5402	450	-227	593	5714	0	119	593	14.22
Haryana	4655	656	33	205	4664	898	153	205	4.91
Rajasthan	6121	162	557	-396	6077	0	640	-396	-8.50
Delhi	4181	0	-134	585	3792	0	-514	521	13.31
UP	9705	1698	971	70	10986	1113	1803	75	1.71
Uttarakhand	1278	150	123	26	1189	35	-14	27	0.65
HP	977	0	43	-559	941	0	62	-341	-11.46
J&K	1527	150	119	-408	965	100	-266	-428	-10.18
Chandigarh	243	0	3	0	208	0	11	0	0.57
Total	34089	3266	1488	116	34536	2146	1994	256	5.22

* 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	1910	2063	2062	46.22	1926	45.84	0.38
	Rihand I STPS	1000	876	971	973	21.24	885	21.03	0.21
	Rihand II STPS	1000	965	1033	1041	23.26	969	23.16	0.10
	Dadri I STPS	840	598	649	652	14.41	601	14.36	0.06
	Dadri II STPS	980	960	1009	972	22.95	956	22.50	0.45
	Unchahar I TPS	420	403	442	413	9.66	403	9.68	-0.02
	Unchahar II TPS	420	404	441	440	9.75	406	9.70	0.05
	Unchahar III TPS	210	201	219	219	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	906	678	727	17.66	736	17.47	0.19
	Dadri GPS	830	772	662	703	15.91	663	16.04	-0.13
	Anta GPS	419	380	319	341	7.75	323	7.58	0.17
	Auraiya GPS	663	608	526	560	12.84	535	12.14	0.70
	Sub Total (A)	9782	8983	9012	9103	206.48	8603	204.32	2.16
	B. NPC	NAPS	440	127	146	150	2.98	124	3.04
RAPS- B		440	387	429	438	9.33	389	9.29	0.04
RAPS- C		440	232	235	229	4.97	207	5.57	-0.60
Sub Total (B)		1320	746	810	817	17.28	720	17.90	-0.62
C. NHPC	Chamera I HPS	540	534	540	540	9.33	389	9.09	0.24
	Chamera II HPS	300	297	294	250	5.35	223	5.48	-0.14
	Bairasuil HPS	180	182	150	182	3.33	139	3.11	0.23
	Salal-HPS	690	525	543	542	12.29	512	12.63	-0.34
	Tanakpur-HPS	94	46	30	22	0.98	41	1.18	-0.21
	Uri-HPS	480	476	480	480	11.59	483	11.61	-0.01
	Dhauliganga-HPS	280	277	280	140	3.14	131	3.08	0.06
	Dulhasti-HPS	390	388	413	393	9.41	392	9.30	0.11
	Sewa-II HPS	120	77	43	85	1.89	79	1.88	0.00
	Sub Total (C)	3074	2802	2773	2634	57.30	2387	57.37	-0.07
D. NJPC	Nathpa Jhakri	1500	1300	1547	0	20.23	843	19.71	0.53
	Sub Total (D)	1500	1300	1547	0	20.23	843	19.71	0.53
E. THDC	Tehri HPS	1000	525	392	525	5.15	215	5.00	0.15
	Koteshwar HPS	400	400	186	184	2.55	106	2.50	0.05
	Sub Total (E)	1400	925	578	709	7.70	321	7.50	0.20
F. BBMB	Bhakra HPS	1480	700	1012	536	17.08	712	16.80	0.28
	Dehar HPS	990	392	660	420	9.73	405	9.42	0.31
	Pong HPS	396	245	302	300	6.47	270	5.87	0.60
	Sub Total (F)	2866	1337	1974	1256	33.28	1387	32.08	1.20
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	157	72	1.89	79	1.68	0.21
	KWHEP HPS(IPP)	1000	0	900	370	10.91	455	12.01	-1.10
	Malana Stg-II HPS	100	0	35	34	0.77	32	0.00	0.77
	Shree Cement TPS	300	0	142	145	3.44	143	3.02	0.42
	Sub Total (G)	1592	0	1234	621	17.01	709	16.70	0.30
H. Total Regional Entities (A-G)	21535	16093	17928	15140	359.27	14970	355.58	3.70	

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	1050	1050	23.55	981
	Guru Nanak Dev TPS(Bhatinda)	440	215	190	4.31	180
	Guru Hargobind Singh TPS(L.mbt)	920	962	961	21.36	890
	Thermal (Total)	2620	2227	2201	49.21	2051
	Total Hydro	1148	422	546	15.15	631
	Total Punjab	3768	2649	2747	64.37	2682
Haryana	Panipat TPS	1367	1036	1108	25.78	1074
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	368	375	9.01	376
	RGTPP (khedar) (IPP)	1200	451	529	12.66	528
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	530	552	13.66	569
	Thermal (Total)	4944	2385	2564	61.11	2546
	Total Hydro	62	23	21	0.77	32
	Total Haryana	5006	2408	2585	61.89	2579
Rajasthan	kota TPS	1240	973	1158	24.67	1028
	suratgarh TPS	1500	1358	1354	32.25	1344
	Chabra TPS	500	0	0	0.92	38
	Dholpur GPS	330	88	95	2.80	117
	Ramgarh GPS	111	43	48	1.26	52
	RAPS A (NPC)	300	175	170	4.22	176
	Barsingsar (NLC)	250	108	108	2.54	106
	Giral LTPS	250	0	0	0.00	0
	Rajwest LTPS (IPP)	540	380	345	8.94	372
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3125	3278	77.60	3233
	Total Hydro	550	0	0	0.07	3
	Wind power	1843	129	307	4.44	185
	Biomass	91	44	44	1.07	44
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	173	351	5.57	232
	Total Rajasthan	7767	3298	3629	83.23	3468
	UP	Anpara TPS	1630	1066	1009	25.80
Obra TPS		1382	330	293	7.40	308
Paricha TPS		640	354	306	7.90	329
Panki TPS		210	140	117	3.20	133
Harduaganj TPS		665	204	130	4.90	204
Tanda TPS (NTPC)		440	291	295	6.94	289
Roza TPS (IPP)		1200	819	828	19.73	822
Anpara-C (IPP)		1200	360	356	8.58	357
Bajaj Energy Pvt.Ltd(IPP) TPS		450	324	359	8.38	349
Thermal (Total)		7817	3888	3693	92.83	3868
Vishnuparyag HPS (IPP)		400	278	253	6.01	250
Other Hydro		527	151	32	3.23	135
Cogeneration		981	300	300	7.20	300
Total UP		9725	4617	4278	109.27	4302
Uttarakhand	Total Hydro	1303	600	611	15.12	630
	Total Uttarakhand	1303	600	611	15.12	630
Delhi	Rajghat TPS	135	105	102	2.28	95
	Delhi Gas Turbine	282	178	223	4.87	203
	Pragati Gas Turbine	330	272	286	6.75	281
	Rithala GPS	108	33	34	0.78	32
	Bawana GPS	677	212	266	5.64	235
	Badarpur TPS (NTPC)	705	445	425	9.14	381
	Thermal (Total)	2237	1245	1336	29.46	1227
	Total Delhi	2237	1245	1336	29.46	1227
HP	Baspa HPS (IPP)	330	30	80	2.68	112
	Malana HPS (IPP)	86	34	7	0.76	32
	Other Hydro	589	407	389	9.56	398
	Total HP	1005	471	476	13	541
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	15890	16255	390.57	16023
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2123	4061	77.20	3217
Total Regional Availability(Gross)		53302	35941	35456	827.05	34210

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7964	5075	132.08	5503
State Control Area Hydro	5368	2269	2279	61.59	2566
Total Regional Hydro	15500	10233	7354	193.67	8069

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	350	100	350	0	4.77	0.00	4.77
Gwalior-Agra (D/C)	520	1057	1141	0	20.79	0.00	20.79
Zerda-Kankroli	67	87	119	110	0.56	0.00	0.56
Zerda-Bhinmal	108	126	222	76	1.82	0.00	1.82
Malanpur-Auraiya	-150	-33	0	150	0.00	1.47	-1.47
Badod-Kota/Morak	54	65	112	0	1.65	0.00	1.65
Sub Total WR	949	1402			29.59	1.47	28.12
Pusauli Bypass	-239	85	133	239	0.84	1.05	-0.22
MZP- GKP (D/C)	390	854	886	0	16.60	0.00	16.60
Patna-Balia(D/C)	476	523	606	0	10.59	0.00	10.59
B'Sharif-Balia (D/C)	406	606	626	0	12.36	0.00	12.36
Barh - Balia(D/C)	0	424	435	0	7.66	0.00	7.66
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	133	139	146	0	2.93	0.00	2.93
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-40	-32	0	47	0.00	0.84	-0.84
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1174	2659			50.98	1.89	49.09
Total IR Exch	2123	4061			80.56	3.36	77.20

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

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdli (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
33.16	1.09	34.26	0.82	6.66	0.07	3.45	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
38.14	5.37	43.51	49.09	28.12	77.20	10.95	22.75	33.69

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	0.30	1.70	18.00	53.20	81.60	56.40	3.00	0.40

<----- 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	49.67	1.50	0.19	50.23	49.23
50.34	8.03	48.91	23.07					

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	405	08:00	395	17:56	0.0	0.0	0.0	0.0
Gorakhpur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Bareilly	400	415	08:04	389	16:50	0.0	0.0	0.0	0.0
Kanpur	400	412	08:02	389	16:49	0.0	0.1	0.0	0.0
Dadri	400	411	08:04	394	14:17	0.0	0.0	0.0	0.0
Ballabgarh	400	415	08:04	393	16:49	0.0	0.0	0.0	0.0
Bawana	400	413	08:01	395	16:49	0.0	0.0	0.0	0.0
Bassi	400	416	03:39	392	16:49	0.0	0.0	0.0	0.0
Hissar	400	410	18:31	387	10:13	0.0	0.6	0.0	0.0
Moga	400	417	18:30	398	10:11	0.0	0.0	0.0	0.0
Abdullapur	400	418	02:47	399	16:49	0.0	0.0	0.0	0.0
Nalagarh	400	421	02:44	402	14:53	0.0	0.0	1.5	0.0
Kishenpur	400	412	08:01	395	22:14	0.0	0.0	0.0	0.0
Wagoora	400	408	02:45	383	21:38	0.0	11.5	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 22.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

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

1: 400kV Khedar (HVPN) - Nuhiawali (HVPN) first time test charged at 20.19 hrs of dt 22.05.12 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 : 22.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER