

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 23.05.2012
Date of Reporting : 24.05.2012

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
32748	3178	35926	49.76	33893	2659	36552	49.48	798.5	92.77

* 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	48.89	13.98		62.87	70.10	71.97	1.87	134.85	1.80
Haryana	61.69	0.73		62.42	43.64	43.83	0.19	106.25	18.08
Rajasthan	77.73	0.03	4.45	82.21	41.27	53.22	11.95	135.43	19.52
Delhi	31.37			31.37	73.06	66.19	-6.86	97.56	0.48
UP	92.86	9.75	7.20	109.81	97.85	125.70	27.85	235.52	45.45
Uttarakhand		15.05		15.05	13.17	14.24	1.07	29.30	3.97
HP		13.18		13.18	9.03	9.53	0.50	22.71	0.52
J & K		14.25	0.00	14.25	15.50	17.28	1.78	31.54	2.95
Chandigarh				0.00	5.28	5.40	0.12	5.40	0.00
Total	312.54	66.99	11.65	391.17	368.90	407.37	38.47	798.54	92.77

* 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	5213	600	-141	592	5503	0	-297	593	14.21
Haryana	4592	172	137	205	4602	1083	86	205	4.91
Rajasthan	5874	778	770	-396	5314	332	78	-396	-8.73
Delhi	4157	0	-347	562	3812	0	-552	552	13.41
UP	9230	1285	427	70	11384	1174	2185	75	1.71
Uttarakhand	1336	320	115	27	1194	70	30	27	0.66
HP	800	23	-71	-559	859	0	-126	-341	-11.46
J&K	1302	0	-86	-408	1027	0	-110	-428	-10.18
Chandigarh	244	0	-17	0	198	0	10	0	0.57
Total	32748	3178	787	94	33893	2659	1304	286	5.10

* 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	2067	2050	46.09	1920	45.84	0.25
	Rihand I STPS	1000	869	980	975	20.98	874	20.85	0.13
	Rihand II STPS	1000	957	1039	1042	23.21	967	22.97	0.24
	Dadri I STPS	840	598	650	657	14.32	597	14.36	-0.03
	Dadri II STPS	980	958	1012	1015	23.15	965	23.00	0.15
	Unchahar I TPS	420	402	441	441	9.71	405	9.64	0.07
	Unchahar II TPS	420	404	440	441	9.77	407	9.70	0.07
	Unchahar III TPS	210	201	218	220	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	539	255	918	12.07	503	12.90	-0.83
	Dadri GPS	830	759	719	756	16.90	704	16.87	0.03
	Anta GPS	419	382	368	388	8.63	359	8.44	0.19
	Auraiya GPS	663	597	575	604	13.49	562	13.15	0.34
	Sub Total (A)	9782	8576	8764	9507	203.16	8465	202.52	0.63
	B. NPC	NAPS	440	127	148	150	2.97	124	3.04
RAPS- B		440	394	428	422	9.71	404	9.46	0.25
RAPS- C		440	232	230	222	4.92	205	5.57	-0.65
Sub Total (B)		1320	753	806	794	17.59	733	18.07	-0.48
C. NHPC	Chamera I HPS	540	534	540	540	8.14	339	7.97	0.17
	Chamera II HPS	300	243	200	200	4.29	179	4.18	0.11
	Bairasuil HPS	180	182	150	182	3.33	139	2.96	0.37
	Salal-HPS	690	448	476	530	10.98	457	10.77	0.20
	Tanakpur-HPS	94	40	52	40	1.04	43	1.03	0.01
	Uri-HPS	480	476	480	480	11.59	483	11.58	0.02
	Dhauliganga-HPS	280	277	277	143	3.24	135	3.29	-0.06
	Dulhasti-HPS	390	388	415	413	9.31	388	8.86	0.45
	Sewa-II HPS	120	80	85	85	1.96	82	1.90	0.05
	Sub Total (C)	3074	2667	2675	2613	53.87	2245	52.55	1.32
D. NJPC	Nathpa Jhakri	1500	1067	1625	539	17.00	709	18.07	-1.07
	Sub Total (D)	1500	1067	1625	539	17.00	709	18.07	-1.07
E. THDC	Tehri HPS	1000	520	240	524	4.62	192	4.50	0.12
	Koteshwar HPS	400	400	188	93	2.74	114	2.60	0.14
	Sub Total (E)	1400	920	428	617	7.36	306	7.10	0.26
F. BBMB	Bhakra HPS	1480	700	1036	533	17.04	710	16.80	0.24
	Dehar HPS	990	353	660	290	8.75	365	8.48	0.27
	Pong HPS	396	200	302	182	4.97	207	4.79	0.18
	Sub Total (F)	2866	1253	1998	1005	30.76	1282	30.07	0.69
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	161	0	2.25	94	1.76	0.49
	KWHEP HPS(IPP)	1000	0	580	370	10.76	449	10.89	-0.13
	Malana Stg-II HPS	100	0	35	34	0.77	32	0.00	0.77
	Shree Cement TPS	300	0	144	143	3.43	143	3.07	0.35
	Sub Total (G)	1592	0	920	547	17.21	717	15.72	1.49
H. Total Regional Entities (A-G)	21535	15236	17216	15622	346.95	14456	344.10	2.85	

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	1045	1050	23.62	984	
	Guru Nanak Dev TPS(Bhatinda)	440	113	216	4.04	168	
	Guru Hargobind Singh TPS(L.mbt)	920	957	963	21.23	884	
	Thermal (Total)	2620	2115	2229	48.89	2037	
	Total Hydro	1148	419	411	13.98	583	
	Total Punjab	3768	2534	2640	62.87	2620	
Haryana	Panipat TPS	1367	1126	1092	26.89	1120	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	369	371	8.67	361	
	RGTPP (kheldar) (IPP)	1200	532	526	13.36	557	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	536	535	12.77	532	
	Thermal (Total)	4944	2563	2524	61.69	2570	
	Total Hydro	62	17	18	0.73	30	
	Total Haryana	5006	2580	2542	62.42	2601	
Rajasthan	kota TPS	1240	970	971	22.96	957	
	suratgarh TPS	1500	1350	1361	32.26	1344	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	96	101	2.75	115	
	Ramgarh GPS	111	52	50	1.29	54	
	RAPS A (NPC)	300	165	167	4.21	175	
	Barsingsar (NLC)	250	116	112	2.82	117	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	430	410	11.44	477	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3179	3172	77.73	3239	
	Total Hydro	550	0	0	0.03	1	
	Wind power	1843	17	112	3.30	138	
	Biomass	91	46	46	1.11	46	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	63	158	4.45	185	
	Total Rajasthan	7767	3242	3330	82.21	3426	
	UP	Anpara TPS	1630	1215	1206	25.70	1071
		Obra TPS	1382	357	368	7.70	321
Paricha TPS		640	476	392	8.60	358	
Panki TPS		210	130	150	2.90	121	
Harduaganj TPS		665	345	295	5.70	238	
Tanda TPS (NTPC)		440	287	190	6.03	251	
Roza TPS (IPP)		1200	819	828	19.71	821	
Anpara-C (IPP)		1200	324	351	7.93	330	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	316	391	8.59	358	
Thermal (Total)		7817	4269	4171	92.86	3869	
Vishnuparyag HPS (IPP)		400	323	278	6.57	274	
Other Hydro		527	158	0	3.18	133	
Cogeneration		981	300	300	7.20	300	
Total UP		9725	5050	4749	109.81	4302	
Uttarakhand		Total Hydro	1303	656	614	15.05	627
	Total Uttarakhand	1303	656	614	15.05	627	
Delhi	Rajghat TPS	135	93	100	2.40	100	
	Delhi Gas Turbine	282	216	222	5.33	222	
	Pragati Gas Turbine	330	273	283	6.92	288	
	Rithala GPS	108	32	33	0.68	28	
	Bawana GPS	677	224	212	5.40	225	
	Badarpur TPS (NTPC)	705	585	445	10.64	443	
	Thermal (Total)	2237	1423	1295	31.37	1307	
	Total Delhi	2237	1423	1295	31.37	1307	
HP	Baspa HPS (IPP)	330	34	30	3.06	127	
	Malana HPS (IPP)	86	81	0	0.73	30	
	Other Hydro	589	384	339	9.40	392	
	Total HP	1005	499	369	13	549	
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	16586	16132	391.17	16025	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2017	3242	75.11	3130	
Total Regional Availability(Gross)		53302	35819	34996	813.24	33611	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7502	5178	122.77	5116
State Control Area Hydro	5368	2351	2005	60.42	2518
Total Regional Hydro	15500	9853	7183	183.19	7633

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	100	350	100	3.22	0.17	3.05
Gwalior-Agra (D/C)	507	937	1301	0	22.17	0.00	22.17
Zerda-Kankroli	43	17	147	114	1.06	0.00	1.06
Zerda-Bhinmal	79	45	277	96	2.13	0.00	2.13
Malanpur-Auraiya	-140	-27	0	140	0.00	1.41	-1.41
Badod-Kota/Morak	38	83	113	30	1.55	0.00	1.55
Sub Total WR	827	1155			30.13	1.57	28.56
Pusauli Bypass	-286	54	213	286	1.11	1.31	-0.20
MZP- GKP (D/C)	348	738	844	0	15.48	0.00	15.48
Patna-Balia(D/C)	293	524	716	0	12.53	0.00	12.53
B'Sharif-Balia (D/C)	344	276	596	0	11.11	0.00	11.11
Barh - Balia(D/C)	294	322	422	0	5.37	0.00	5.37
Pusauli-Balia	41	0	102	0	0.12	0.00	0.12
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	148	145	165	0	2.99	0.00	2.99
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	1190	2087			48.70	2.15	46.56
Total IR Exch	2017	3242			78.83	3.72	75.11

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
29.84	0.74	30.59	1.45	6.31	-2.09	0.62	2.09	-2.09

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
32.04	5.83	37.87	46.56	28.56	75.11	14.52	22.73	37.25

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	0.01	5.97	20.97	45.52	72.78	27.26	5.84	0.28

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.36	9.28	48.81	3.17	49.60	1.90	0.21	50.05	49.13

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	406	05:28	395	00:20	0.0	0.0	0.0	0.0
Gorakhpur	400	429	19:05	408	22:32	0.0	0.0	50.3	0.0
Bareilly	400	418	19:03	390	00:21	0.0	0.0	0.0	0.0
Kanpur	400	414	05:28	397	00:20	0.0	0.0	0.0	0.0
Dadri	400	414	05:29	397	16:51	0.0	0.0	0.0	0.0
Ballabgarh	400	419	05:30	398	12:08	0.0	0.0	0.0	0.0
Bawana	400	418	05:30	400	00:07	0.0	0.0	0.0	0.0
Bassi	400	424	02:55	391	08:16	0.0	0.0	3.6	0.0
Hissar	400	411	05:29	391	08:14	0.0	0.0	0.0	0.0
Moga	400	418	05:32	397	08:16	0.0	0.0	0.0	0.0
Abdullapur	400	421	05:31	400	00:10	0.0	0.0	0.1	0.0
Nalagarh	400	426	05:29	401	08:14	0.0	0.0	2.7	0.0
Kishenpur	400	412	18:02	397	22:08	0.0	0.0	0.0	0.0
Wagoora	400	407	03:44	385	22:08	0.0	8.2	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	469.05	252.64	479.56	447.75	428.38	610.37
Pong	426.72	384.05	401.58	259.17	411.36	544.90	65.44	344.59
Tehri	829.79	740.04	745.40	23.98	818.65	982.26	113.32	160.00
Koteshwar	612.50	598.50	610.05	4.69	NA	NA	160.00	182.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	NA	NA
Rihand	268.22	252.98	256.70	145.10	254.23	46.70	NA	NA
RPS	352.80	343.81	349.71	NA	344.97	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	295.81	NA	NA	NA
RSD	527.91	487.91	500.02	NA	510.40	NA	191.76	213.54

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 23.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 23.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER