

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.05.2012
Date of Reporting : 29.05.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
34430	3826	38256	49.80	35543	2018	37561	49.90	835.6	70.65

* 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	49.05	13.50		62.56	78.33	81.40	3.07	143.95	2.01
Haryana	48.42	0.86		49.28	46.57	57.18	10.61	106.45	20.16
Rajasthan	85.08	0.00	10.61	95.69	46.74	51.12	4.38	146.81	1.76
Delhi	30.76			30.76	83.92	68.60	-15.32	99.36	0.23
UP	96.55	15.44	7.20	119.19	98.77	126.91	28.13	246.09	42.09
Uttarakhand		19.07		19.07	12.53	14.23	1.71	33.30	1.45
HP		16.51		16.51	9.25	7.97	-1.28	24.48	0.00
J & K		14.20	0.00	14.20	19.07	15.25	-3.82	29.45	2.95
Chandigarh				0.00	5.88	5.68	-0.20	5.68	0.00
Total	309.86	79.57	17.81	407.23	401.05	428.33	27.28	835.56	70.65

* 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	5557	513	-97	593	5991	0	5	593	14.22
Haryana	4509	1073	213	107	4451	745	226	307	3.36
Rajasthan	6407	113	662	-431	6414	0	-78	-431	-10.34
Delhi	4156	0	-656	571	3915	8	-1056	563	15.66
UP	9649	1897	1002	70	11357	1130	1923	75	1.71
Uttarakhand	1576	80	225	27	1256	35	-42	27	0.66
HP	960	0	-213	-709	850	0	-154	-491	-15.06
J&K	1365	150	-186	-408	1102	100	-330	-428	-10.37
Chandigarh	251	0	-7	0	207	0	-6	0	0.57
Total	34430	3826	943	-180	35543	2018	488	214	0.41

* 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)	UI [OG:(+ve), UG: (-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1649	1652	1864	40.22	1676	39.57	0.65
	Rihand I STPS	1000	880	960	967	21.26	886	21.12	0.14
	Rihand II STPS	1000	935	1012	1006	22.61	942	22.44	0.17
	Dadri I STPS	840	790	877	832	19.38	808	18.96	0.42
	Dadri II STPS	980	958	1013	1025	23.07	961	23.00	0.07
	Unchahar I TPS	420	395	429	424	9.55	398	9.47	0.08
	Unchahar II TPS	420	404	437	442	9.75	406	9.70	0.05
	Unchahar III TPS	210	201	213	219	4.85	202	4.82	0.03
	ISTPP (Jhajjar)	1000	470	499	504	10.84	452	11.05	-0.22
	Dadri GPS	830	734	624	763	15.71	655	15.74	-0.03
	Anta GPS	419	379	313	389	8.21	342	8.11	0.10
	Auraiya GPS	663	584	549	613	13.24	552	12.76	0.49
	Sub Total (A)	9782	8378	8578	9048	198.69	8279	196.74	1.95
B. NPC	NAPS	440	260	289	298	6.17	257	6.24	-0.07
	RAPS- B	440	391	433	434	9.39	391	9.38	0.00
	RAPS- C	440	210	228	237	5.02	209	5.04	-0.02
	Sub Total (B)	1320	861	950	969	20.58	857	20.66	-0.09
C. NHPC	Chamera I HPS	540	534	540	540	10.19	425	10.22	-0.03
	Chamera II HPS	300	297	305	300	7.23	301	7.19	0.03
	Bairasuil HPS	180	182	182	182	3.55	148	3.46	0.09
	Salal-HPS	690	579	655	558	13.70	571	14.00	-0.31
	Tanakpur-HPS	94	55	64	50	1.43	60	1.35	0.08
	Uri-HPS	480	476	480	478	11.58	483	11.60	-0.02
	Dhauliganga-HPS	280	277	282	278	5.74	239	5.79	-0.04
	Dulhasti-HPS	390	388	415	402	9.31	388	9.30	0.01
	Sewa-II HPS	120	80	85	83	1.96	82	1.93	0.02
	Sub Total (C)	3074	2867	3008	2871	64.68	2695	64.84	-0.16
D. NJPC	Nathpa Jhakri	1500	1600	1617	1264	29.50	1229	29.65	-0.16
	Sub Total (D)	1500	1600	1617	1264	29.50	1229	29.65	-0.16
E. THDC	Tehri HPS	1000	520	527	242	5.04	210	5.00	0.04
	Koteshwar HPS	400	342	91	95	2.66	111	2.70	-0.04
	Sub Total (E)	1400	862	618	337	7.70	321	7.70	0.00
F. BBMB	Bhakra HPS	1480	694	1134	534	17.21	717	16.66	0.55
	Dehar HPS	990	603	660	660	15.09	629	14.48	0.62
	Pong HPS	396	245	360	240	5.87	245	5.89	-0.02
	Sub Total (F)	2866	1543	2154	1434	38.17	1590	37.02	1.15
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	200	109	3.28	137	2.71	0.57
	KWHEP HPS(IPP)	1000	0	900	600	16.63	693	16.79	-0.16
	Malana Stg-II HPS	100	0	50	57	1.30	54	0.00	1.30
	Shree Cement TPS	300	0	233	256	5.75	240	5.23	0.52
	Sub Total (G)	1592	0	1383	1022	26.95	1123	24.73	2.23
H. Total Regional Entities (A-G)	21535	16110	18308	16945	386.27	16095	381.35	4.92	

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	23.34	972
	Guru Nanak Dev TPS(Bhatinda)	440	211	211	4.30	179
	Guru Hargobind Singh TPS(L.mbt)	920	956	961	21.41	892
	Thermal (Total)	2620	2212	2222	49.05	2044
	Total Hydro	1148	608	461	13.50	563
	Total Punjab	3768	2820	2683	62.56	2607
Haryana	Panipat TPS	1367	1112	1119	26.48	1103
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	360	376	8.80	367
	RGTPP (kheldar) (IPP)	1200	541	542	13.14	548
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLIP)	1320	0	0	0.00	0
	Thermal (Total)	4944	2013	2037	48.42	2018
	Total Hydro	62	22	21	0.86	36
	Total Haryana	5006	2035	2058	49.28	2053
Rajasthan	kota TPS	1240	946	975	22.76	948
	suratgarh TPS	1500	1361	1368	32.36	1348
	Chabra TPS	500	178	92	3.40	142
	Dholpur GPS	330	92	124	3.03	126
	Ramgarh GPS	111	55	53	1.35	56
	RAPS A (NPC)	300	178	169	4.29	179
	Barsingsar (NLC)	250	153	209	4.80	200
	Giral LTPS	250	96	55	1.59	66
	Rajwest LTPS (IPP)	540	459	460	11.51	479
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3518	3505	85.08	3545
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	253	675	9.58	399
	Biomass	91	43	43	1.02	43
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	296	718	10.61	442
		Total Rajasthan	7767	3814	4223	95.69
UP	Anpara TPS	1630	1128	1258	25.80	1075
	Obra TPS	1382	165	306	5.40	225
	Paricha TPS	640	394	400	13.20	550
	Panki TPS	210	135	150	3.20	133
	Harduaganj TPS	665	224	364	6.50	271
	Tanda TPS (NTPC)	440	289	280	7.02	293
	Roza TPS (IPP)	1200	824	824	19.71	821
	Anpara-C (IPP)	1200	320	311	7.60	317
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	391	324	8.11	338
	Thermal (Total)	7817	3870	4217	96.55	4023
	Vishnuparyag HPS (IPP)	400	436	436	10.28	428
	Other Hydro	527	236	0	5.16	215
	Cogeneration	981	300	300	7.20	300
		Total UP	9725	4842	4953	119.19
Uttarakhand	Total Hydro	1303	778	751	19.07	795
	Total Uttarakhand	1303	778	751	19.07	795
Delhi	Rajghat TPS	135	103	94	2.23	93
	Delhi Gas Turbine	282	215	230	5.43	226
	Pragati Gas Turbine	330	273	284	5.27	220
	Rithala GPS	108	29	32	0.75	31
	Bawana GPS	677	214	297	5.87	245
	Badarpur TPS (NTPC)	705	530	510	11.22	467
	Thermal (Total)	2237	1364	1447	30.76	1282
		Total Delhi	2237	1364	1447	30.76
HP	Baspa HPS (IPP)	330	259	179	5.64	235
	Malana HPS (IPP)	86	52	33	1.12	47
	Other Hydro	589	401	409	9.74	406
		Total HP	1005	712	621	17
J & K	Baglihar HPS (IPP)	450	436	436	10.44	435
	Other Hydro	323	166	155	3.76	156
	Gas/Diesel/Others	183	0	0	0.00	0
		Total J & K	956	602	591	14.20
Total State Control Area Generation		31767	16967	17327	407.23	16540
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1581	2883	57.35	2390
Total Regional Availability(Gross)		53302	36856	37155	850.85	35024

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8547	6672	161.25	6719
State Control Area Hydro	5368	2958	2445	69.30	2887
Total Regional Hydro	15500	11505	9117	230.55	9606

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	-200	200	200	3.15	1.40	1.75
Gwalior-Agra (D/C)	254	881	1265	0	16.46	0.00	16.46
Zerda-Kankroli	-47	-40	21	164	0.00	1.14	-1.14
Zerda-Bhinmal	-36	-56	153	222	0.00	0.92	-0.92
Malanpur-Auraiya	-149	-63	0	187	0.00	2.01	-2.01
Badod-Kota/Morak	63	67	84	57	0.99	0.00	0.99
Sub Total WR	285	589			20.60	5.47	15.13
Pusauli Bypass	-168	108	272	180	1.80	0.76	1.04
MZP- GKP (D/C)	360	692	764	0	12.80	0.00	12.80
Patna-Balia(D/C)	306	548	595	0	10.54	0.00	10.54
B'Sharif-Balia (D/C)	338	443	522	0	8.85	0.00	8.85
Barh - Balia(D/C)	308	335	370	0	6.72	0.00	6.72
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	144	140	154	0	3.11	0.00	3.11
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	1296	2294			43.82	1.60	42.22
Total IR Exch	1581	2883			64.42	7.07	57.35

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
31.54	0.76	32.30	-0.17	3.24	-4.70	2.38	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
30.42	2.62	33.03	42.22	15.13	57.35	11.80	12.52	24.31

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	0.20	0.50	7.30	32.00	91.60	67.00	4.50	1.00

----- 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)	(Hz)	(Hz)
50.31	18.04	48.97	14.52	49.76	0.88	0.17	50.28	0.00

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	407	05:01	400	12:10	0.0	0.0	0.0	0.0
Gorakhpur	400	429	22:48	406	00:16	0.0	0.0	51.5	0.0
Bareilly	400	420	18:47	393	08:15	0.0	0.0	0.0	0.0
Kanpur	400	414	18:47	395	01:33	0.0	0.0	0.0	0.0
Dadri	400	413	18:47	397	10:39	0.0	0.0	0.0	0.0
Ballabgarh	400	416	18:48	396	08:15	0.0	0.0	0.0	0.0
Bawana	400	415	18:48	397	08:15	0.0	0.0	0.0	0.0
Bassi	400	417	18:48	393	08:13	0.0	0.0	0.0	0.0
Hissar	400	411	18:48	387	08:15	0.0	0.8	0.0	0.0
Moga	400	420	18:48	401	08:13	0.0	0.0	0.0	0.0
Abdullapur	400	409	06:02	396	08:15	0.0	0.0	0.0	0.0
Nalagarh	400	417	18:26	395	09:55	0.0	0.0	0.0	0.0
Kishenpur	400	415	18:03	402	22:17	0.0	0.0	0.0	0.0
Wagoora	400	409	17:34	391	20:45	0.0	0.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	468.74	248.16	479.42	447.13	663.35	611.64
Pong	426.72	384.05	400.82	237.89	411.43	544.90	71.13	423.73
Tehri	829.79	740.04	744.70	23.00	818.65	982.26	151.99	175.00
Koteshwar	612.50	598.50	610.35	4.69	NA	NA	176.00	167.00
Chamera-I	760.00	748.75	753.55	NA	NA	NA	250.89	342.37
Rihand	268.22	252.98	256.43	133.70	254.20	45.50	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	500.48	NA	510.70	NA	270.94	212.91

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 28.05.2012 :

Hot weather

XII. Synchronisation of new generating units :

0.00

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

1. 125MVAR new bus reactor - III at Balia test charge at 18.25Hrs/28.05.2012.
2. 765/400KV 1000MVA ICT - II at Bhiwani (PGCIL) test charged at 19.38 Hrs/28.05.2012.
3. 240MVAR bus reactor - I test charged at Bhiwani(PGCIL) 20.34 Hrs/28.05.2012.
4. 765 /400 KV 1500 MVA ICT - II at Moga test charged at 18.01 Hrs /28.05.2012.
5. 765KV bus - I at Moga test charged at 21.06 Hrs/28.05.2012.
6. 765 KV bus - II at Moga test charged at 20.46 Hrs / 28.05.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 28.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER