

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.05.2012
Date of Reporting : 31.05.2012

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
34318	3395	37713	49.73	36431	3351	39782	49.76	849.2	72.68

* 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	46.77	17.43		64.20	79.80	82.48	2.68	146.68	2.69
Haryana	43.86	0.84		44.69	47.97	58.96	10.99	103.65	25.75
Rajasthan	83.21	0.00	20.96	104.17	49.67	48.83	-0.84	153.00	0.79
Delhi	30.80			30.80	84.59	71.62	-12.97	102.42	0.29
UP	97.34	15.53	7.20	120.07	97.97	128.48	30.51	248.55	38.45
Uttarakhand		19.58		19.58	12.28	13.89	1.61	33.46	1.76
HP		17.93		17.93	12.19	6.49	-5.70	24.42	0.00
J & K		15.16	0.00	15.16	19.45	15.92	-3.52	31.09	2.95
Chandigarh				0.00	6.17	5.93	-0.24	5.93	0.00
Total	301.98	86.47	28.16	416.61	410.08	432.59	22.51	849.19	72.68

* 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	5683	450	-53	593	6349	0	64	593	16.02
Haryana	4207	1048	165	107	4078	1482	168	107	2.56
Rajasthan	6675	116	48	-431	6745	0	-49	-431	-10.34
Delhi	4359	1	-332	574	4058	0	-867	564	15.72
UP	9322	1550	198	70	11579	1769	2515	75	2.91
Uttarakhand	1529	80	150	26	1336	0	21	26	0.65
HP	894	0	-432	-784	907	0	-182	-491	-15.36
J&K	1390	150	-145	-458	1156	100	-253	-428	-10.89
Chandigarh	259	0	-3	0	223	0	8	0	0.57
Total	34318	3395	-404	-302	36431	3351	1425	16	1.84

* 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	1453	1338	1656	35.47	1478	34.86	0.61
	Rihand I STPS	1000	889	973	978	21.43	893	21.35	0.08
	Rihand II STPS	1000	965	1031	1039	23.35	973	23.16	0.18
	Dadri I STPS	840	797	862	880	19.07	795	19.12	-0.04
	Dadri II STPS	980	938	1010	1014	22.54	939	22.52	0.02
	Unchahar I TPS	420	393	439	391	9.50	396	9.43	0.07
	Unchahar II TPS	420	404	439	440	9.72	405	9.70	0.02
	Unchahar III TPS	210	201	219	219	4.84	202	4.82	0.02
	ISTPP (Jhajjar)	1000	466	457	519	9.91	413	10.10	-0.18
	Dadri GPS	830	757	657	623	14.83	618	14.75	0.09
	Anta GPS	419	380	344	298	7.42	309	7.21	0.21
	Auraiya GPS	663	585	432	607	11.02	459	10.53	0.49
	Sub Total (A)	9782	8227	8201	8664	189.10	7879	187.53	1.57
B. NPC	NAPS	440	257	281	296	6.10	254	6.17	-0.07
	RAPS- B	440	390	422	432	9.25	386	9.36	-0.11
	RAPS- C	440	210	230	232	4.97	207	5.04	-0.08
	Sub Total (B)	1320	857	933	960	20.32	847	20.57	-0.25
C. NHPC	Chamera I HPS	540	534	540	540	12.80	533	12.82	-0.01
	Chamera II HPS	300	297	303	301	7.17	299	7.20	-0.03
	Bairasuil HPS	180	182	182	182	3.77	157	3.67	0.09
	Salal-HPS	690	661	662	661	15.86	661	15.85	0.00
	Tanakpur-HPS	94	50	62	60	1.47	61	1.44	0.03
	Uri-HPS	480	476	480	480	11.59	483	11.60	0.00
	Dhauliganga-HPS	280	277	284	284	5.48	228	5.44	0.04
	Dulhasti-HPS	390	388	411	413	9.07	378	9.13	-0.07
	Sewa-II HPS	120	80	85	85	1.71	71	1.90	-0.19
	Sub Total (C)	3074	2943	3009	3006	68.92	2872	69.06	-0.14
D. NJPC	Nathpa Jhakri	1500	1583	1615	1568	37.88	1578	37.83	0.05
	Sub Total (D)	1500	1583	1615	1568	37.88	1578	37.83	0.05
E. THDC	Tehri HPS	1000	520	525	262	5.35	223	5.50	-0.15
	Koteshwar HPS	400	300	300	90	2.96	123	3.00	-0.04
Sub Total (E)	1400	820	825	352	8.31	346	8.50	-0.19	
F. BBMB	Bhakra HPS	1480	695	1133	534	17.16	715	16.68	0.48
	Dehar HPS	990	590	660	630	14.95	623	14.15	0.80
	Pong HPS	396	208	360	240	5.19	216	4.99	0.20
	Sub Total (F)	2866	1492	2153	1404	37.30	1554	35.82	1.48
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	220	190	4.08	170	3.80	0.28
	KWHEP HPS(IPP)	1000	0	1080	1000	21.86	911	24.00	-2.14
	Malana Stg-II HPS	100	0	55	55	1.31	55	0.00	1.31
	Shree Cement TPS	300	0	236	265	5.97	249	5.28	0.70
	Sub Total (G)	1592	0	1591	1510	33.23	1384	33.08	0.15
H. Total Regional Entities (A-G)	21535	15924	18327	17464	395.06	16461	392.38	2.67	

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	1045	23.32	972	
	Guru Nanak Dev TPS(Bhatinda)	440	105	105	2.20	92	
	Guru Hargobind Singh TPS(L.mbt)	920	960	963	21.25	885	
	Thermal (Total)	2620	2110	2113	46.77	1949	
	Total Hydro	1148	744	750	17.43	726	
	Total Punjab	3768	2854	2863	64.20	2675	
Haryana	Panipat TPS	1367	1040	966	24.42	1017	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	356	372	8.75	365	
	RGTPP (kheldar) (IPP)	1200	504	478	10.69	445	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1900	1816	43.86	1827	
	Total Hydro	62	21	22	0.84	35	
	Total Haryana	5006	1921	1838	44.69	1862	
	Rajasthan	kota TPS	1240	957	970	22.78	949
suratgarh TPS		1500	1331	1119	28.22	1176	
Chabra TPS		500	197	199	4.77	199	
Dholpur GPS		330	174	96	3.02	126	
Ramgarh GPS		111	46	47	1.17	49	
RAPS A (NPC)		300	184	173	4.31	180	
Barsingsar (NLC)		250	162	202	4.48	187	
Giral LTPS		250	99	136	2.64	110	
Rajwest LTPS (IPP)		540	460	460	11.82	492	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3610	3402	83.21	3467	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	639	946	19.75	823	
Biomass		91	50	50	1.21	50	
Solar		128	0	0	0.00	0	
Renewable/Others (Total)		2062	689	996	20.96	873	
Total Rajasthan		7767	4299	4398	104.17	4341	
UP		Anpara TPS	1630	1132	1069	26.60	1108
		Obra TPS	1382	234	129	4.50	188
	Paricha TPS	640	509	509	11.90	496	
	Panki TPS	210	153	131	3.40	142	
	Harduaganj TPS	665	256	247	6.00	250	
	Tanda TPS (NTPC)	440	289	292	7.19	299	
	Roza TPS (IPP)	1200	819	824	19.69	820	
	Anpara-C (IPP)	1200	360	356	8.81	367	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	393	391	9.26	386	
	Thermal (Total)	7817	4145	3948	97.34	4056	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	236	51	5.07	211	
	Cogeneration	981	300	300	7.20	300	
	Total UP	9725	5117	4735	120.07	4567	
	Uttarakhand	Total Hydro	1303	840	773	19.58	816
		Total Uttarakhand	1303	840	773	19.58	816
Delhi	Rajghat TPS	135	104	106	2.45	102	
	Delhi Gas Turbine	282	215	216	4.64	193	
	Pragati Gas Turbine	330	269	285	6.76	282	
	Rithala GPS	108	30	37	0.62	26	
	Bawana GPS	677	132	220	4.32	180	
	Badarpur TPS (NTPC)	705	560	655	12.00	500	
	Thermal (Total)	2237	1310	1519	30.80	1283	
	Total Delhi	2237	1310	1519	30.80	1283	
HP	Baspa HPS (IPP)	330	330	250	6.58	274	
	Malana HPS (IPP)	86	68	51	1.42	59	
	Other Hydro	589	431	402	9.93	414	
	Total HP	1005	829	703	18	747	
J & K	Baglihar HPS (IPP)	450	442	438	10.62	442	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	620	635	15.16	632	
Total State Control Area Generation		31767	17790	17464	416.61	16923	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			817	2732	47.85	1994	
Total Regional Availability(Gross)		53302	36934	37660	859.52	35378	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8957	7575	179.66	7486
State Control Area Hydro	5368	3290	2934	76.01	3167
Total Regional Hydro	15500	12247	10509	255.67	10653

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	100	0	300	0	1.93	0.00	1.93
Gwalior-Agra (D/C)	272	898	1164	0	19.34	0.00	19.34
Zerda-Kankroli	-23	44	68	75	0.09	0.00	0.09
Zerda-Bhinmal	-39	18	79	145	0.00	0.47	-0.47
Malanpur-Auraiya	-95	-42	0	165	0.00	0.97	-0.97
Badod-Kota/Morak	24	92	95	0	1.43	0.00	1.43
Sub Total WR	239	1010			22.79	1.44	21.35
Pusauli Bypass	-189	-3	56	366	0.16	1.79	-1.63
MZP- GKP (D/C)	22	532	540	0	7.28	0.00	7.28
Patna-Balia(D/C)	441	358	672	0	11.66	0.00	11.66
B'Sharif-Balia (D/C)	96	252	252	0	4.50	0.00	4.50
Barh - Balia(D/C)	0	357	357	0	2.43	0.00	2.43
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	55	68	87	0	0.00	0.00	0.00
Pusauli-Sahupuri	147	127	164	0	3.17	0.00	3.17
K'nasa-Sahupuri	48	60	60	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	0.91	-0.91
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	578	1722			29.20	2.70	26.50
Total IR Exch	817	2732			51.99	4.14	47.85

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
32.62	0.67	33.30	-0.94	4.61	-3.47	-2.57	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
31.88	-0.59	31.29	26.50	21.35	47.85	-5.38	21.94	16.56

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	0.76	6.50	45.85	92.63	53.28	19.50	0.87

<----- 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)
50.50	18.03	49.09	22.53	49.82	0.80	0.19	50.29	49.25

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	413	07:01	402	22:21	0.0	0.0	0.0	0.0
Gorakhpur	400	431	06:07	402	13:10	0.0	0.0	36.1	2.2
Bareilly	400	417	06:05	393	12:22	0.0	0.0	0.0	0.0
Kanpur	400	417	07:02	398	12:21	0.0	0.0	0.0	0.0
Dadri	400	411	06:00	397	00:05	0.0	0.0	0.0	0.0
Ballabgarh	400	416	05:59	400	00:09	0.0	0.0	0.0	0.0
Bawana	400	413	05:59	397	00:05	0.0	0.0	0.0	0.0
Bassi	400	420	07:06	400	00:05	0.0	0.0	0.0	0.0
Hissar	400	405	05:04	388	08:12	0.0	2.1	0.0	0.0
Moga	400	416	05:04	400	17:17	0.0	0.0	0.0	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	410	05:05	394	09:21	0.0	0.0	0.0	0.0
Kishenpur	400	412	05:05	400	22:02	0.0	0.0	0.0	0.0
Wagoora	400	408	03:28	389	22:02	0.0	0.7	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 30.05.2012 :

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. 765kV BUS REACTOR -1 (3*80 MVAR) FIRST TIME TEST CHARGED AT 13:30 Hrs of Dt. 30.05.2012 at MOGA(PG).
2. 765kV BUS REACTOR - 2 (3*80 MVAR) FIRST TIME TEST CHARGED AT 12:32 Hrs of Dt. 30.05.2012 at MOGA(PG).
3. 765kV LINE REACTOR (3*110 MVAR) FIRST TIME TEST CHARGED from 17:01 Hrs to 17:20 Hrs of Dt. 30.05.2012 at FATEHPUR(PG).
4. 765/400kV ICT -1 (1500 MVA) FIRST TIME TEST CHARGED AT 21:55 Hrs of Dt. 30.05.2012 at AGRA(PG).

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER