

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.05.2012
Date of Reporting : 27.05.2012

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
34290	3357	37647	49.95	35606	1863	37469	49.83	822.7	67.98

* 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	49.35	12.08		61.43	74.36	74.87	0.51	136.30	1.80
Haryana	47.47	0.86		48.33	45.29	61.01	15.71	109.34	15.22
Rajasthan	80.37	0.00	10.82	91.19	52.81	58.23	5.42	149.42	0.95
Delhi	28.52			28.52	79.18	69.55	-9.63	98.06	0.89
UP	87.31	15.20	7.20	109.71	97.40	129.71	32.31	239.41	42.97
Uttarakhand		20.00		20.00	13.76	13.44	-0.32	33.44	0.25
HP		16.47		16.47	11.81	6.26	-5.55	22.73	2.95
J & K		14.10	0.00	14.10	18.08	14.22	-3.87	28.31	2.95
Chandigarh				0.00	6.01	5.66	-0.35	5.66	0.00
Total	293.02	78.70	18.02	389.74	398.69	432.93	34.24	822.67	67.98

* 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	5422	450	-12	510	5595	0	-202	510	12.22
Haryana	4542	690	531	32	4680	668	769	32	0.76
Rajasthan	6458	17	408	-481	6512	0	103	-431	-10.85
Delhi	4186	4	-417	720	4079	5	-559	609	15.79
UP	9614	1925	938	-5	11404	1090	2303	0	-0.09
Uttarakhand	1613	0	110	27	1248	0	-155	27	0.65
HP	774	121	-486	-609	922	0	-328	-391	-12.80
J&K	1439	150	26	-508	954	100	-468	-428	-11.18
Chandigarh	243	0	-27	0	213	0	-9	0	0.57
Total	34290	3357	1071	-314	35606	1863	1454	-72	-4.92

* 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	1500	1982	1560	36.54	1523	36.01	0.54
	Rihand I STPS	1000	898	982	978	21.65	902	21.55	0.10
	Rihand II STPS	1000	935	1024	1010	22.60	942	22.44	0.16
	Dadri I STPS	840	790	872	852	18.52	772	18.96	-0.44
	Dadri II STPS	980	958	1016	1019	23.10	963	23.00	0.11
	Unchahar I TPS	420	398	442	440	9.61	400	9.55	0.06
	Unchahar II TPS	420	404	441	442	9.71	405	9.70	0.02
	Unchahar III TPS	210	201	220	220	4.85	202	4.82	0.02
	ISTPP (Jhajjar)	1000	470	499	499	10.36	432	10.45	-0.09
	Dadri GPS	830	738	581	749	14.73	614	14.84	-0.11
	Anta GPS	419	379	276	367	7.51	313	7.24	0.26
	Auraiya GPS	663	581	470	601	12.50	521	11.95	0.55
	Sub Total (A)	9782	8251	8805	8737	191.68	7987	190.51	1.17
	B. NPC	NAPS	440	260	290	294	6.02	251	6.24
RAPS- B		440	389	431	434	9.78	408	9.34	0.45
RAPS- C		440	210	232	229	5.01	209	5.04	-0.03
Sub Total (B)		1320	859	953	957	20.81	867	20.62	0.20
C. NHPC	Chamera I HPS	540	534	540	540	12.03	501	12.06	-0.03
	Chamera II HPS	300	297	299	288	7.13	297	7.16	-0.04
	Bairasuil HPS	180	182	182	182	3.94	164	4.13	-0.19
	Salal-HPS	690	565	567	567	13.55	565	13.56	-0.01
	Tanakpur-HPS	94	62	75	56	1.53	64	1.57	-0.04
	Uri-HPS	480	476	480	480	11.59	483	11.60	-0.01
	Dhauliganga-HPS	280	277	271	283	5.52	230	5.65	-0.13
	Dulhasti-HPS	390	388	353	410	9.30	387	9.31	-0.01
	Sewa-II HPS	120	80	85	85	1.95	81	1.96	-0.01
	Sub Total (C)	3074	2860	2852	2891	66.53	2772	67.00	-0.47
D. NJPC	Nathpa Jhakri	1500	1600	1618	1613	33.21	1384	32.14	1.07
	Sub Total (D)	1500	1600	1618	1613	33.21	1384	32.14	1.07
E. THDC	Tehri HPS	1000	520	527	263	5.07	211	5.00	0.07
	Koteshwar HPS	400	400	177	90	2.52	105	2.60	-0.08
	Sub Total (E)	1400	920	704	353	7.59	316	7.60	-0.01
F. BBMB	Bhakra HPS	1480	694	1133	536	17.08	712	16.66	0.42
	Dehar HPS	990	602	660	600	14.89	620	14.45	0.45
	Pong HPS	396	227	362	180	5.69	237	5.46	0.23
	Sub Total (F)	2866	1523	2155	1316	37.66	1569	36.56	1.10
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	115	106	3.32	138	3.01	0.31
	KWHEP HPS(IPP)	1000	0	1000	900	19.99	833	18.14	1.85
	Malana Stg-II HPS	100	0	50	57	1.30	54	0.00	1.30
	Shree Cement TPS	300	0	255	219	5.52	230	4.87	0.65
	Sub Total (G)	1592	0	1420	1282	30.13	1255	26.02	4.11
H. Total Regional Entities (A-G)	21535	16014	18507	17149	387.62	16151	380.45	7.17	

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	23.44	977	
	Guru Nanak Dev TPS(Bhatinda)	440	210	212	4.56	190	
	Guru Hargobind Singh TPS(L.mbt)	920	960	964	21.36	890	
	Thermal (Total)	2620	2215	2221	49.35	2056	
	Total Hydro	1148	462	433	12.08	503	
	Total Punjab	3768	2677	2654	61.43	2560	
Haryana	Panipat TPS	1367	1103	1067	26.31	1096	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	359	368	8.10	338	
	RGTPP (khedar) (IPP)	1200	531	538	13.06	544	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1993	1973	47.47	1978	
	Total Hydro	62	22	20	0.86	36	
	Total Haryana	5006	2015	1993	48.33	2014	
Rajasthan	kota TPS	1240	970	960	22.77	949	
	suratgarh TPS	1500	1256	1363	31.29	1304	
	Chabra TPS	500	0	0	0.00	0	
	Dholpur GPS	330	186	137	2.81	117	
	Ramgarh GPS	111	52	55	1.33	55	
	RAPS A (NPC)	300	175	163	4.26	178	
	Barsingsar (NLC)	250	189	189	5.28	220	
	Giral LTPS	250	96	11	1.19	49	
	Rajwest LTPS (IPP)	540	460	460	11.45	477	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3384	3338	80.37	3349	
	Total Hydro	550	0	0	0.00	0	
	Wind power	1843	182	876	9.76	407	
	Biomass	91	44	44	1.06	44	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	226	920	10.82	451	
	Total Rajasthan	7767	3610	4258	91.19	3800	
	UP	Anpara TPS	1630	1031	986	24.20	1008
		Obra TPS	1382	322	306	7.40	308
Paricha TPS		640	856	364	8.60	358	
Panki TPS		210	117	59	2.40	100	
Harduaganj TPS		665	191	222	4.10	171	
Tanda TPS (NTPC)		440	184	186	4.72	197	
Roza TPS (IPP)		1200	819	824	19.64	818	
Anpara-C (IPP)		1200	314	315	7.60	317	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	397	350	8.65	361	
Thermal (Total)		7817	4231	3612	87.31	3638	
Vishnuparyag HPS (IPP)		400	436	436	10.03	418	
Other Hydro		527	250	0	5.16	215	
Cogeneration		981	300	300	7.20	300	
Total UP		9725	5217	4348	109.71	4153	
Uttarakhand		Total Hydro	1303	832	755	20.00	833
	Total Uttarakhand	1303	832	755	20.00	833	
Delhi	Rajghat TPS	135	0	48	0.72	30	
	Delhi Gas Turbine	282	219	216	5.11	213	
	Pragati Gas Turbine	330	268	282	6.71	280	
	Rithala GPS	108	31	30	0.68	28	
	Bawana GPS	677	228	231	5.70	237	
	Badarpur TPS (NTPC)	705	495	600	9.59	400	
	Thermal (Total)	2237	1241	1407	28.52	1188	
	Total Delhi	2237	1241	1407	28.52	1188	
HP	Baspa HPS (IPP)	330	273	202	5.23	218	
	Malana HPS (IPP)	86	52	50	1.22	51	
	Other Hydro	589	438	426	10.02	417	
	Total HP	1005	763	678	16	686	
J & K	Baglihar HPS (IPP)	450	474	437	10.34	431	
	Other Hydro	323	166	155	3.76	156	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	640	592	14.10	587	
Total State Control Area Generation		31767	16995	16685	389.74	15821	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			588	3612	66.77	2782	
Total Regional Availability(Gross)		53302	36090	37446	844.12	34754	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	8494	7236	169.61	7067
State Control Area Hydro	5368	2969	2478	68.67	2861
Total Regional Hydro	15500	11463	9714	238.28	9928

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	0	0	500	0	1.86	0.48	1.38
Gwalior-Agra (D/C)	281	1097	1271	0	22.03	0.00	22.03
Zerda-Kankroli	-87	72	222	87	1.21	0.00	1.21
Zerda-Bhinmal	-59	54	264	86	1.72	0.00	1.72
Malanpur-Auraiya	-114	-11	0	179	0.00	0.89	-0.89
Badod-Kota/Morak	-6	28	106	14	0.97	0.00	0.97
Sub Total WR	15	1240			27.78	1.37	26.42
Pusauli Bypass	-269	189	211	269	2.26	0.72	1.54
MZP- GKP (D/C)	226	836	836	0	14.20	0.00	14.20
Patna-Balia(D/C)	157	295	381	0	6.10	0.00	6.10
B'Sharif-Balia (D/C)	212	591	598	0	10.35	0.00	10.35
Barh - Balia(D/C)	104	296	380	0	6.06	0.00	6.06
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	135	137	154	0	2.94	0.00	2.94
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	573	2372			41.91	1.56	40.35
Total IR Exch	588	3612			69.69	2.92	66.77

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
29.46	0.75	30.20	-3.27	1.01	-1.40	5.19	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
28.53	3.65	32.17	40.35	26.42	66.77	11.82	22.77	34.59

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	1.70	10.20	32.90	88.80	66.10	7.20	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)
50.47	10.02	49.04	23.34	49.75	1.01	0.20	50.21	49.27

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	409	20:23	398	08:13	0.0	0.0	0.0	0.0
Gorakhpur	400	425	20:22	401	03:15	0.0	0.0	9.6	0.0
Bareilly	400	417	18:04	391	01:27	0.0	0.0	0.0	0.0
Kanpur	400	412	08:33	396	16:20	0.0	0.0	0.0	0.0
Dadri	400	413	06:03	394	13:33	0.0	0.0	0.0	0.0
Ballabgarh	400	415	06:01	393	16:21	0.0	0.0	0.0	0.0
Bawana	400	414	06:02	394	14:23	0.0	0.0	0.0	0.0
Bassi	400	419	18:03	395	05:36	0.0	0.0	0.0	0.0
Hissar	400	410	18:05	391	09:49	0.0	0.0	0.0	0.0
Moga	400	417	18:03	400	16:16	0.0	0.0	0.0	0.0
Abdullapur	400	417	18:12	373	10:00	0.0	0.0	0.0	0.0
Nalagarh	400	416	06:05	398	09:50	0.0	0.0	0.0	0.0
Kishenpur	400	413	18:03	397	08:33	0.0	0.0	0.0	0.0
Wagoora	400	407	01:06	385	20:37	0.0	6.5	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	468.66	248.16	479.29	441.00	624.05	611.64
Pong	426.72	384.05	401.04	244.95	411.41	544.90	71.02	394.23
Tehri	829.79	740.04	744.85	23.00	818.65	982.26	163.53	176.00
Koteshwar	612.50	598.50	610.35	4.69	NA	NA	176.00	167.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	311.84	325.92
Rihand	268.22	252.98	256.64	142.50	254.23	46.70	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	499.87	NA	510.40	NA	220.93	221.15

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.05.2012 :

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. Mock trial of 500 kV HVDC Mundra-Mohindergarh pole-I was done successfully on 26.05.2012.
And during mock trial power flow was 600 MW from 16:40 hrs to 20:20 hrs.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 26.05.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER