

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.04.2012
Date of Reporting : 01.05.2012

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
30009	2449	32458	50.17	25882	1050	26932	50.14	670.1	40.19

* 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	37.12	3.11		40.23	40.93	39.81	-1.12	80.04	1.80
Haryana	36.51	0.70		37.21	42.29	47.20	4.91	84.41	1.17
Rajasthan	74.36	0.02	10.62	85.00	40.50	51.99	11.49	136.98	0.00
Delhi	24.19			24.19	57.71	48.94	-8.77	73.13	0.17
UP	98.50	6.61	7.20	112.31	94.31	104.07	9.76	216.37	32.60
Uttarakhand		11.87		11.87	12.47	12.42	-0.05	24.28	2.56
HP		11.12		11.12	11.99	11.05	-0.94	22.17	0.00
J & K		13.79	0.00	13.79	17.03	14.94	-2.08	28.73	1.90
Chandigarh				0.00	4.82	3.94	-0.88	3.94	0.00
Total	270.67	47.21	17.82	335.70	322.03	334.35	12.32	670.05	40.19

* 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	4180	450		-94	2635	0	-311	-94	-2.24
Haryana	4510	237	851	108	2759	0	-390	108	2.58
Rajasthan	5609	0	-58	-366	5681	0	910	-366	-8.78
Delhi	3278	0	-710	446	2589	0	83	246	8.91
UP	8827	1360	220	465	9613	1050	154	265	7.36
Uttarakhand	1030	300	-167	47	789	0	-116	47	1.14
HP	980	2	-184	-680	651	0	-144	-42	-7.16
J&K	1400	100	-108	-321	1053	0	-162	-361	-8.11
Chandigarh	195	0	-54	27	112	0	-49	0	0.61
Total	30009	2449	-180	-367	25882	1050	-25	-196	-5.69

* 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	1450	1582	1515	34.82	1451	34.49	0.32
	Rihand I STPS	1000	915	989	810	21.15	881	21.09	0.07
	Rihand II STPS	1000	975	1042	943	22.64	943	22.54	0.10
	Dadri I STPS	840	792	825	624	16.28	678	16.59	-0.32
	Dadri II STPS	980	470	485	359	10.13	422	10.59	-0.46
	Unchahar I TPS	420	386	421	353	8.69	362	8.80	-0.11
	Unchahar II TPS	420	395	427	312	8.64	360	8.65	-0.01
	Unchahar III TPS	210	199	217	152	4.40	183	4.43	-0.03
	ISTPP (Jhajjar)	1000	960	747	755	16.66	694	16.41	0.25
	Dadri GPS	830	665	421	428	10.94	456	10.99	-0.05
	Anta GPS	419	389	223	228	5.34	223	5.40	-0.06
	Auraiya GPS	663	616	248	268	6.18	257	6.00	0.17
	Sub Total (A)	9782	8211	7627	6747	165.87	6911	165.99	-0.12
	B. NPC	NAPS	440	272	315	313	6.53	272	6.53
RAPS- B		440	374	416	418	9.00	375	8.98	0.02
RAPS- C		440	420	468	473	10.09	420	10.08	0.01
Sub Total (B)		1320	1066	1199	1204	25.62	1067	25.58	0.03
C. NHPC	Chamera I HPS	540	534	540	0	8.25	344	8.40	-0.15
	Chamera II HPS	300	297	298	190	4.24	177	4.60	-0.36
	Bairasuil HPS	180	182	182	110	3.29	137	3.43	-0.14
	Salal-HPS	690	441	490	458	10.20	425	10.19	0.01
	Tanakpur-HPS	94	21	35	26	0.63	26	0.62	0.00
	Uri-HPS	480	476	479	476	11.56	482	11.59	-0.03
	Dhauliganga-HPS	280	277	237	0	1.89	79	2.00	-0.11
	Dulhasti-HPS	390	388	408	256	7.18	299	7.40	-0.21
	Sewa-II HPS	120	80	82	78	1.92	80	1.92	0.01
	Sub Total (C)	3074	2696	2751	1594	49.16	2048	50.14	-0.98
D. NJPC	Nathpa Jhakri	1500	1600	1578	0	13.14	547	13.62	-0.48
	Sub Total (D)	1500	1600	1578	0	13.14	547	13.62	-0.48
E. THDC	Tehri HPS	1000	460	458	138	6.85	286	7.00	-0.15
	Koteshwar HPS	400	300	304	0	3.06	128	3.00	0.06
	Sub Total (E)	1400	760	762	138	9.92	413	10.00	-0.08
F. BBMB	Bhakra HPS	1480	516	892	385	12.80	533	12.38	0.42
	Dehar HPS	990	344	495	290	7.98	333	8.26	-0.28
	Pong HPS	396	78	240	0	2.00	83	1.87	0.13
	Sub Total (F)	2866	938	1627	675	22.78	949	22.51	0.27
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	111	0	1.08	45	1.23	-0.15
	KWHEP HPS(IPP)	1000	0	500	250	7.26	302	7.92	-0.66
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	212	212	5.15	215	4.84	0.31
	Sub Total (G)	1592	0	823	462	13.48	562	13.99	-0.50
H. Total Regional Entities (A-G)	21535	15270	16367	10820	299.97	12499	301.83	-1.86	

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	690	640	16.24	676	
	Guru Nanak Dev TPS(Bhatinda)	440	111	200	3.46	144	
	Guru Hargobind Singh TPS(L.mbt)	920	748	754	17.42	726	
	Thermal (Total)	2620	1549	1594	37.12	1547	
	Total Hydro	1148	252	110	3.11	130	
	Total Punjab	3768	1801	1704	40.23	1676	
Haryana	Panipat TPS	1367	1071	890	22.81	950	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	387	303	8.61	359	
	RGTPP (khedar) (IPP)	1200	0	549	5.08	212	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1458	1742	36.51	1521	
	Total Hydro	62	29	31	0.70	29	
	Total Haryana	5006	1487	1773	37.21	1550	
Rajasthan	kota TPS	1240	1105	1064	26.19	1091	
	suratgarh TPS	1500	1226	1186	30.64	1277	
	Chabra TPS	500	181	187	4.31	180	
	Dholpur GPS	330	101	94	2.34	98	
	Ramgarh GPS	111	0	0	0.00	0	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	0	0	0.00	0	
	Giral LTPS	250	101	50	1.88	78	
	Rajwest LTPS (IPP)	540	373	348	8.99	375	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3087	2929	74.36	3098	
	Total Hydro	550	0	0	0.02	1	
	Wind power	1843	253	483	9.33	389	
	Biomass	91	53	53	1.27	53	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	306	536	10.62	442	
	Total Rajasthan	7767	3393	3465	85.00	3541	
	UP	Anpara TPS	1630	710	1043	20.30	846
		Obra TPS	1382	479	501	11.90	496
Paricha TPS		640	381	395	9.20	383	
Panki TPS		210	135	104	2.70	113	
Harduaganj TPS		415	201	235	5.50	229	
Tanda TPS (NTPC)		440	193	195	4.80	200	
Roza TPS (IPP)		1200	1121	1112	26.80	1117	
Anpara-C (IPP)		1200	480	495	11.57	482	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	275	284	5.72	238	
Thermal (Total)		7567	3975	4364	98.50	4104	
Vishnuparyag HPS (IPP)		400	114	109	2.70	113	
Other Hydro		527	248	0	3.91	163	
Cogeneration		981	300	300	7.20	300	
Total UP		9475	4637	4773	112.31	4567	
Uttarakhand		Total Hydro	1303	585	420	11.87	494
	Total Uttarakhand	1303	585	420	11.87	494	
Delhi	Rajghat TPS	135	93	90	2.20	92	
	Delhi Gas Turbine	282	117	141	2.79	116	
	Pragati Gas Turbine	330	284	300	7.08	295	
	Rithala GPS	108	32	33	0.74	31	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	555	380	11.39	475	
	Thermal (Total)	2237	1081	944	24.19	1008	
	Total Delhi	2237	1081	944	24.19	1008	
HP	Baspa HPS (IPP)	330	31	0	1.54	64	
	Malana HPS (IPP)	86	65	0	0.44	18	
	Other Hydro	589	378	360	9.14	381	
	Total HP	1005	474	360	11	463	
J & K	Baglihar HPS (IPP)	450	438	434	10.48	437	
	Other Hydro	323	140	132	3.31	138	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	578	566	13.79	574	
Total State Control Area Generation		31517	14036	14005	335.70	13875	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1230	1597	39.27	1636	
Total Regional Availability(Gross)		53052	31633	26422	674.94	28010	

IV. Total Hydro Generation:

Regional Entities Hydro	10133	7329	2657	103.33	4305
State Control Area Hydro	5368	2166	1487	44.51	1855
Total Regional Hydro	15500	9495	4144	147.84	6160

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	150	-100	400	100	1.36	1.58	-0.23
Gwalior-Agra (D/C)	511	614	1246	0	16.62	0.00	16.62
Zerda-Kankroli	-45	-174	0	195	0.00	2.73	-2.73
Zerda-Bhinmal	-27	-144	60	188	0.00	1.81	-1.81
Malanpur-Auraiya	-52	-46	0	119	0.00	0.85	-0.85
Badod-Kota/Morak	45	22	62	0	0.78	0.00	0.78
Sub Total WR	582	172			18.76	6.97	11.79
Pusauli Bypass	-242	-92	45	242	0.16	2.52	-2.36
MZP- GKP (D/C)	300	560	700	0	11.55	0.00	11.55
Patna-Balia(D/C)	283	513	541	0	10.34	0.00	10.34
B'Sharif-Balia (D/C)	153	303	421	0	7.23	0.00	7.23
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
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	148	115	158	0	1.56	0.00	1.56
K'nasa-Sahupuri	48	60	60	0	0.10	0.00	0.10
Son Ngr-Rihand	-42	-34	0	49	0.00	0.95	-0.95
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	648	1425			30.94	3.47	27.48
Total IR Exch	1230	1597			49.70	10.43	39.27

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	
29.37	1.24	30.61	-8.83	2.38	2.53	6.09	1.68	-1.68	

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
25.99	6.58	32.57	27.48	11.79	39.27	1.49	5.22	6.70

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	0.00	0.70	8.20	96.70	89.20	38.60	2.60

<----- 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	49.94	0.27	0.15	50.35	49.67
50.35	18.03	49.38	23.19					

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	414	02:24	401	23:15	0.0	0.0	0.0	0.0
Gorakhpur	400	432	19:03	413	23:18	0.0	0.0	87.3	3.8
Bareilly	400	424	02:44	406	11:16	0.0	0.0	9.6	0.0
Kanpur	400	420	02:32	404	05:46	0.0	0.0	0.0	0.0
Dadri	400	426	02:33	407	08:20	0.0	0.0	31.5	0.0
Ballabgarh	400	429	02:33	409	08:19	0.0	0.0	26.2	0.0
Bawana	400	428	02:36	410	08:19	0.0	0.0	21.6	0.0
Bassi	400	430	02:34	404	08:21	0.0	0.0	41.3	0.0
Hissar	400	420	02:35	403	05:49	0.0	0.0	0.0	0.0
Moga	400	430	03:26	413	19:25	0.0	0.0	36.5	0.0
Abdullapur	400	430	02:37	410	05:46	0.0	0.0	47.7	0.0
Nalagarh	400	428	01:44	410	05:45	0.0	0.0	25.0	0.0
Kishenpur	400	424	03:38	402	20:33	0.0	0.0	6.7	0.0
Wagoora	400	412	03:39	383	22:01	0.0	13.4	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	474.55	345.61	482.88	527.87	343.11	404.28
Pong	426.72	384.05	403.47	304.55	411.10	534.70	117.32	13.12
Tehri	829.79	740.04	754.55	84.00	818.65	982.26	83.56	221.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	201.17	224.92
Rihand	268.22	252.98	258.07	205.10	254.66	63.10	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	498.05	NA	509.03	NA	219.00	24.18

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.04.2012 :

1. Normal weather in NR.

XII. Synchronisation of new generating units :

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

1. 125 MVAR bus reactor first time charged at 19:57 hrs of 30.04.2012 at Nallagarh s/s.
2. 125 MVAR bus reactor first time charged at 18:36 hrs of 30.04.2012 at Hisar s/s.
3. 400kv Bhiwani(PG)-Mohindergarh first time charged at 22:28 hrs of 30.04.2012.
4. 220kv Sikar(PG)-Sikar(Raj)-2 first time charged at 22:48 hrs of 30.04.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.04.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER