

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.03.2014
Date of Reporting : 28.03.2014

I. Regional Availability/Demand:

Evening Peak (19:00 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
31895	1433	33328	49.96	29209	238	29447	50.01	743.2	26.10

* 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:

UI [OD:(+ve), UD: (-ve)]

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	39.34	6.96		46.31	39.38	39.20	-0.17	85.51	0.00
Haryana	34.47	0.60		35.07	56.56	54.64	-1.92	89.71	0.00
Rajasthan	99.49	0.73	7.46	107.68	65.68	63.20	-2.48	170.88	0.00
Delhi	15.29			15.29	46.08	46.47	0.39	61.76	0.23
UP	118.36	2.83	14.40	135.59	107.96	106.58	-1.37	242.17	24.02
Uttarakhand		9.03		9.03	21.36	23.36	2.00	32.40	0.15
HP		10.37		10.37	14.49	14.53	0.04	24.90	0.00
J & K		9.33	0.00	9.33	24.99	23.27	-1.73	32.59	1.70
Chandigarh				0.00	3.33	3.32	-0.01	3.32	0.00
Total	306.95	39.86	21.86	368.67	379.82	374.56	-5.26	743.23	26.10

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 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	STOA/PX transaction	
Punjab	4069	0	-96	-395	3127	0	-15	-150	-8.63	
Haryana	4423	0	-72	-24	3294	0	-57	-232	-0.24	
Rajasthan	6661	0	-405	857	6605	0	-92	393	21.32	
Delhi	3075	0	78	-752	1803	38	150	-1126	-20.92	
UP	9372	1298	-222	776	11005	200	536	1259	19.45	
Uttarakhand	1544	35	137	357	1130	0	83	345	9.09	
HP	1067	0	28	-193	803	0	-1	81	-0.28	
J&K	1511	100	-84	108	1354	0	-28	243	4.16	
Chandigarh	173	0	-17	0	89	0	-1	0	0.00	
Total	31895	1433	-653	735	29209	238	575	814	23.94	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

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	1435	1447	1547	33.71	1404	33.09	0.62
	Rihand I STPS	1000	945	903	985	21.15	881	20.26	0.89
	Rihand II STPS	1000	975	810	1039	21.43	893	21.00	0.43
	Rihand III STPS	1000	853	660	825	16.82	701	16.30	0.51
	Dadri I STPS	840	815	731	627	15.63	651	16.21	-0.58
	Dadri II STPS	980	980	877	722	19.30	804	20.03	-0.73
	Unchahar I TPS	420	408	324	333	7.94	331	7.97	-0.03
	Unchahar II TPS	420	406	320	328	7.27	303	7.27	0.00
	Unchahar III TPS	210	203	164	158	3.63	151	3.64	0.00
	ISTPP (Jhajjhar)	1500	1500	512	368	8.70	363	8.61	0.09
	Dadri GPS	830	817	389	391	9.00	375	9.05	-0.05
	Anta GPS	419	274	210	210	4.98	208	4.82	0.16
	Auraiya GPS	663	656	152	157	3.73	155	3.56	0.17
Sub Total (A)	11282	10267	7499	7690	173.28	7220	171.80	1.48	
B. NPC	NAPS	440	289	322	330	6.89	287	6.00	0.89
	RAPS- B	440	414	454	458	9.87	411	9.94	-0.07
	RAPS- C	440	430	466	476	10.16	423	10.32	-0.16
	Sub Total (B)	1320	1133	1242	1264	26.93	1122	26.26	0.67
C. NHPC	Chamera I HPS	540	540	540	0	8.06	336	8.00	0.06
	Chamera II HPS	300	300	299	0	2.64	110	2.55	0.09
	Chamera III HPS	231	231	224	0	1.42	59	1.40	0.02
	Bairasuil HPS	180	122	122	122	2.85	119	2.93	-0.07
	Salal-HPS	690	376	378	450	9.36	390	9.05	0.30
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	467	479	479	11.37	474	11.22	0.15
	Uri-II HPS	240	120	122	128	2.95	123	2.88	0.07
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	407	0	3.73	155	3.60	0.13
	Sewa-II HPS	120	122	127	128	3.01	125	2.93	0.08
	Parbati 3	260	0	128	0	0.35	15	0.00	0.35
	Sub Total (C)	3805	2665	2826	1307	46	1906	45	1
D.NJPC	Nathpa Jhakri	1500	1605	795	154	7.71	321	7.50	0.21
Sub Total (D)	1500	1605	795	154	7.71	321	7.50	0.21	
E. THDC	Tehri HPS	1000	594	593	0	8.04	335	8.00	0.04
	Koteshwar HPS	400	138	301	91	3.13	130	3.10	0.03
	Sub Total (E)	1400	732	894	91	11.17	466	11.10	0.07
F. BBMB	Bhakra HPS	1497	455	873	384	10.79	450	10.92	-0.13
	Dehar HPS	990	306	495	330	7.96	332	7.35	0.61
	Pong HPS	396	142	246	0	3.57	149	3.41	0.17
	Sub Total (F)	2883	903	1614	714	22.32	930	21.67	0.65
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	0	0	0.30	12	0.29	0.01
	KWHEP HPS(IPP)	1000	0	360	0	4.01	167	3.95	0.06
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	300	0	258	240	6.23	259	6.15	0.08
	Budhil HPS(IPP)	70	0	0	0	0.02	1	0.17	-0.15
	Sub Total (G)	1662	0	618	240	10.56	440	10.57	0.00
H. Total Regional Entities (A-G)	23852	17305	15488	11460	297.71	12405	293.45	4.26	

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	810	810	18.75	781
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.94	81
	Guru Hargobind Singh TPS(L.mbt)	920	526	529	11.84	493
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	329	280	6.81	284
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1755	1709	39.34	1639
	Total Hydro	1148	285	313	6.96	290
	Total Punjab	5128	2040	2022	46.31	1929
Haryana	Panipat TPS	1367	225	209	5.10	212
	DCRTPP (Yamuna nagar)	600	550	572	12.17	507
	Faridabad GPS (NTPC)	432	346	297	7.32	305
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	468	369	9.89	412
	Thermal (Total)	4944	1589	1447	34.47	1436
	Total Hydro	62	22	25	0.60	25
	Total Haryana	5006	1611	1472	35.07	1461
Rajasthan	kota TPS	1240	1072	941	23.91	996
	suratgarh TPS	1500	1224	1122	27.14	1131
	Chabra TPS	750	557	653	14.75	614
	Dholpur GPS	330	119	117	2.93	122
	Ramgarh GPS	221	122	73	2.67	111
	RAPS A (NPC)	300	175	175	4.11	171
	Barsingsar (NLC)	250	93	96	2.14	89
	Giral LTPS	250	53	15	1.21	51
	Rajwest LTPS (IPP)	1080	131	135	4.39	183
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	646	736	16.25	677
	Thermal (Total)	7976	4192	4063	99.49	4146
	Total Hydro	550	22	22	0.73	30
	Wind power	2191	327	186	6.54	272
	Biomass	91	21	21	0.51	21
	Solar	201	3	0	0.41	17
	Renewable/Others (Total)	2483	348	207	7.46	311
Total Rajasthan	11009	4562	4292	107.68	4487	
UP	Anpara TPS	1630	1601	1609	33.80	1408
	Obra TPS	1288	415	374	8.00	333
	Paricha TPS	1140	783	751	16.40	683
	Panki TPS	210	60	65	1.40	58
	Harduaganj TPS	665	411	206	7.00	292
	Tanda TPS (NTPC)	440	319	392	9.55	398
	Roza TPS (IPP)	1200	729	1125	23.02	959
	Anpara-C (IPP)	1200	526	544	12.88	537
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	254	254	6.31	263
	Thermal (Total)	8223	5098	5320	118.36	4931
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	94	133	2.83	118
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5792	6053	135.59	5650
	Uttarakhand	Total Hydro	1303	455	268	9.03
Total Uttarakhand		1303	455	268	9.03	376
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	78	76	1.91	80
	Pragati Gas Turbine	330	285	265	6.81	284
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	360	265	6.58	274
	Thermal (Total)	2232	723	606	15.29	637
	Total Delhi	2232	723	606	15.29	637
HP	Baspa HPS (IPP)	330	59	0	1.04	43
	Malana HPS (IPP)	86	21	0	0.37	16
	Other Hydro	589	389	330	8.96	373
	Total HP	1005	469	330	10.37	432
J & K	Baglihar HPS (IPP)	450	296	292	7.03	293
	Other Hydro	323	73	132	2.30	96
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	369	424	9.33	389
Total State Control Area Generation		36770	16021	15467	368.67	15361
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4251	4222	104.87	4369
Total Regional Availability(Gross)		60623	35760	31149	771.24	32135

IV. Total Hydro Generation:

Regional Entities Hydro	10880	6489	2266	91.25	3802
State Control Area Hydro	5368	1716	1515	39.86	1661
Total Regional Hydro	16248	8205	3781	131.11	5463

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	500	500	500	0	10.03	0.00	10.03
Gwalior-Agra (D/C)	1496	1237	1860	0	36.01	0.00	36.01
Zerda-Kankroli	-189	-275	0	313	0.00	4.99	-4.99
Zerda-Bhinmal	-122	-155	72	274	0.00	2.46	-2.46
Malanpur-Auraiya	-60	-59	0	79	0.00	1.32	-1.32
Badod-Kota/Morak	-98	-127	0	134	0.00	2.08	-2.08
Mundra-Mohindergarh(HVDC)	2002	2002	2016	0	48.35	0.00	48.35
Sub Total WR	3529	3123			94.38	10.85	83.54
Pusauli Bypass	300	300	300	0	7.27	0.00	7.27
MZP- GKP (D/C)	146	208	248	0	2.85	0.00	2.85
Patna-Balia(D/C)	288	410	527	0	8.63	0.00	8.63
B'Shari-Balia (D/C)	113	240	330	0	4.69	0.00	4.69
Pusauli-Balia	-115	-58	0	115	0.00	1.13	-1.13
Gaya-Fatehpur (765 Kv)	-112	-81	0	155	0.00	2.58	-2.58
Pusauli-Sahupuri	174	146	204	0	4.18	0.00	4.18
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-25	0	32	0.00	0.56	-0.56
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	-44	-41	12	140	0.00	2.01	-2.01
Sub Total ER	722	1099			27.62	6.29	21.33
Total IR Exch	4251	4222			122.00	17.13	104.87

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
24.45	0.21	24.67	2.67	6.46	7.86	-1.04	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
35.20	65.02	100.22	21.33	83.54	104.87	-13.87	18.51	4.64

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	>50.10	>50.20	>50.50
0.00	0.40	5.20	27.40	66.60	56.00	9.90	8.90	0.10	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.23	7.02	49.62	0.07	49.96	0.11	0.09	50.18	0.00

VII. Voltage profile 400 kV

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	12:52	398	01:42	0.0	0.0	0.0	0.0
Gorakhpur	400	430	17:32	408	00:05	0.0	0.0	42.4	0.0
Bareilly	400	421	18:03	405	09:45	0.0	0.0	0.1	0.0
Kanpur	400	416	03:49	403	18:52	0.0	0.0	0.0	0.0
Dadri	400	424	04:12	408	18:50	0.0	0.0	12.9	0.0
Ballabgarh	400	432	03:57	414	18:51	0.0	0.0	79.1	5.4
Bawana	400	430	04:03	411	18:49	0.0	0.0	53.7	0.0
Bassi	400	432	04:13	412	10:18	0.0	0.0	66.1	1.6
Hissar	400	420	03:45	401	06:15	0.0	0.0	0.0	0.0
Moga	400	422	03:49	402	18:49	0.0	0.0	6.8	0.0
Abdullapur	400	431	00:12	407	06:15	0.0	0.0	48.2	0.2
Nalagarh	400	427	04:12	404	15:09	0.0	0.0	26.5	0.0
Kishenpur	400	414	00:13	392	19:16	0.0	0.0	0.0	0.0
Wagoora	400	400	04:17	366	19:15	30.6	56.9	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	768	04:13	743	10:18	0.0	0.0	0.0	0.0
Balia	765	767	07:02	738	22:23	0.0	1.8	0.0	0.0
Moga	765	802	04:13	764	18:52	0.0	0.0	0.6	0.0
Agra	765	804	04:10	748	09:44	0.0	0.0	6.2	0.0
Bhiwani	765	812	04:12	721	14:23	11.0	24.8	35.2	0.0
Unnao	765	754	17:44	733	22:23	0.0	40.4	0.0	0.0

IX. 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	482.47	519.70	480.90	481.64	275.13	420.02
Pong	426.72	384.05	402.72	281.22	400.18	223.85	155.52	229.25
Tehri	829.79	740.04	788.45	425.58	818.65	982.26	48.18	195.00
Koteshwar	612.50	598.50	610.35	4.69	609.60	4.21	195.00	198.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	81.53	107.03
Rihand	268.22	252.98	259.45	274.80	258.99	250.70	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	508.60	144.00	508.99	144.00	105.85	120.77

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 27.03.2014 :

XIII. Synchronisation of new generating units :
0.00

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

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :
Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.
Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Mar, 2014 .

Report for : 27.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER