

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.03.2014
Date of Reporting : 26.03.2014

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
31073	1737	32810	49.98	25975	0	25975	50.12	713.4	27.70

* 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	33.09	9.04		42.13	39.47	39.54	0.08	81.68	0.00
Haryana	33.59	0.57		34.16	54.88	54.67	-0.21	88.82	0.05
Rajasthan	97.90	0.70	5.04	103.64	59.92	60.72	0.81	164.36	0.00
Delhi	15.93			15.93	45.13	44.15	-0.98	60.09	0.09
UP	115.80	3.30	14.40	133.50	95.00	93.67	-1.33	227.17	24.50
Uttarakhand		9.14		9.14	20.16	21.05	0.90	30.19	1.36
HP		10.65		10.65	13.74	13.29	-0.45	23.94	0.00
J & K		9.33	0.00	9.33	26.55	24.48	-2.08	33.80	1.70
Chandigarh				0.00	3.43	3.31	-0.12	3.31	0.00
Total	296.32	42.72	19.44	358.48	358.28	354.89	-3.40	713.36	27.70

* 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	3828	0	-216	-491	2817	0	114	-88	-8.25	
Haryana	4421	0	-90	161	3059	0	70	-352	-5.37	
Rajasthan	6662	0	36	811	6034	0	161	554	21.47	
Delhi	3068	12	67	-752	1644	0	-47	-1038	-20.36	
UP	9015	1550	-493	732	8997	0	-37	661	14.04	
Uttarakhand	1456	75	72	355	1100	0	36	349	8.27	
HP	960	0	-72	-44	775	0	32	99	1.34	
J&K	1489	100	-156	126	1464	0	8	244	4.28	
Chandigarh	174	0	-11	0	86	0	-10	0	0.00	
Total	31073	1737	-863	897	25975	0	327	431	15.43	

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

III. Regional Entities :

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

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	Net MU
A. NTPC									
Singrauli STPS	2000	1435	1354	1192	33.43	1393	33.25	0.18	
Rihand I STPS	1000	945	855	725	19.27	803	19.19	0.08	
Rihand II STPS	1000	975	948	719	20.61	859	20.54	0.06	
Rihand III STPS	1000	377	369	376	7.39	308	7.38	0.01	
Dadri I STPS	840	815	693	599	14.84	619	15.36	-0.52	
Dadri II STPS	980	980	892	734	18.67	778	19.33	-0.66	
Unchahar I TPS	420	408	387	303	7.70	321	7.87	-0.17	
Unchahar II TPS	420	406	339	309	7.31	305	7.37	-0.05	
Unchahar III TPS	210	203	165	152	3.56	148	3.59	-0.04	
ISTPP (Jhajjhar)	1500	1500	396	366	8.84	368	8.22	0.62	
Dadri GPS	830	821	366	198	6.06	252	6.26	-0.20	
Anta GPS	419	336	201	250	5.32	222	5.29	0.03	
Auraiya GPS	663	656	154	161	3.62	151	3.71	-0.09	
Sub Total (A)	11282	9858	7119	6084	156.62	6526	157.37	-0.75	
B. NPC									
NAPS	440	289	320	330	6.93	289	6.00	0.93	
RAPS- B	440	414	457	456	9.90	412	9.94	-0.04	
RAPS- C	440	430	472	474	10.20	425	10.32	-0.12	
Sub Total (B)	1320	1133	1249	1260	27.03	1126	26.26	0.77	
C. NHPC									
Chamera I HPS	540	540	540	0	7.00	292	7.10	-0.10	
Chamera II HPS	300	300	300	0	2.73	114	2.70	0.03	
Chamera III HPS	231	231	220	0	1.37	57	1.35	0.02	
Bairasuil HPS	180	122	122	122	2.96	123	2.93	0.03	
Salal-HPS	690	493	553	567	11.91	496	11.75	0.16	
Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00	
Uri-HPS	480	452	468	470	10.91	455	10.84	0.06	
Uri-II HPS	240	30	0	124	1.36	57	0.72	0.64	
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
Dulhasti-HPS	390	387	397	0	3.14	131	3.00	0.14	
Sewa-II HPS	120	122	127	124	2.99	125	2.93	0.06	
Parbati 3	260	0	0	0	0.72	30	0.72	0.00	
Sub Total (C)	3805	2677	2727	1407	45	1879	43	2	
D.NJPC									
Nathpa Jhakri	1500	1605	790	149	7.96	331	7.79	0.17	
Sub Total (D)	1500	1605	790	149	7.96	331	7.79	0.17	
E. THDC									
Tehri HPS	1000	600	601	0	8.01	334	8.00	0.01	
Koteshwar HPS	400	138	303	91	3.37	140	3.36	0.01	
Sub Total (E)	1400	738	904	91	11.38	474	11.36	0.03	
F. BBMB									
Bhakra HPS	1497	516	993	368	12.91	538	12.39	0.52	
Dehar HPS	990	331	495	165	8.87	370	7.95	0.93	
Pong HPS	396	134	243	0	3.34	139	3.22	0.12	
Sub Total (F)	2883	982	1731	533	25.12	1047	23.56	1.56	
G. IPP(s)/JV(s)									
ADHPL HPS(IPP)	192	0	0	0	0.32	13	0.31	0.01	
KWHEP HPS(IPP)	1000	0	371	0	4.07	170	4.08	0.00	
Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS	300	0	261	226	6.11	255	6.18	-0.06	
Budhil HPS(IPP)	70	0	0	0	0.02	1	0.24	-0.22	
Sub Total (G)	1662	0	632	226	10.53	439	10.80	-0.28	
H. Total Regional Entities (A-G)		23852	16992	15152	9750	283.73	11822	280.45	3.28

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	830	660	16.86	702
	Guru Nanak Dev TPS(Bhatinda)	440	90	90	1.99	83
	Guru Hargobind Singh TPS(L.mbt)	920	483	641	13.32	555
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	0	0	0.93	39
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	3980	1403	1391	33.09	1379
	Total Hydro	1148	267	423	9.04	377
Total Punjab	5128	1670	1814	42.13	1756	
Haryana	Panipat TPS	1367	216	210	5.05	210
	DCRTPP (Yamuna nagar)	600	505	506	11.82	492
	Faridabad GPS (NTPC)	432	358	284	7.46	311
	RGTPP (khedar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	473	370	9.26	386
	Thermal (Total)	4944	1552	1370	33.59	1400
	Total Hydro	62	25	19	0.57	24
	Total Haryana	5006	1577	1389	34.16	1423
	Rajasthan	kota TPS	1240	722	714	17.34
suratgarh TPS		1500	1060	997	24.89	1037
Chabra TPS		750	574	425	13.75	573
Dholpur GPS		330	115	123	3.01	125
Ramgarh GPS		221	102	108	2.59	108
RAPS A (NPC)		300	175	175	4.08	170
Barsingar (NLC)		250	109	201	3.99	166
Giral LTPS		250	75	75	1.22	51
Rajwest LTPS (IPP)		1080	101	67	2.10	87
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		1320	1060	913	24.94	1039
Thermal (Total)		7976	4093	3798	97.90	4079
Total Hydro		550	22	43	0.70	29
Wind power		2191	27	332	4.22	176
Biomass		91	21	21	0.51	21
Solar		201	3	0	0.30	13
Renewable/Others (Total)		2483	48	353	5.04	210
Total Rajasthan	11009	4163	4194	103.64	4318	
UP	Anpara TPS	1630	1571	1566	33.40	1392
	Obra TPS	1288	405	375	8.30	346
	Paricha TPS	1140	664	689	15.40	642
	Panki TPS	210	70	85	1.60	67
	Harduaganj TPS	665	198	233	4.90	204
	Tanda TPS (NTPC)	440	321	314	9.01	376
	Roza TPS (IPP)	1200	756	756	20.49	854
	Anpara-C (IPP)	1200	801	792	18.47	770
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	198	171	4.23	176
	Thermal (Total)	8223	4984	4981	115.80	4825
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	118	148	3.30	137
	Cogeneration	981	600	600	14.40	600
	Total UP	10131	5702	5729	133.50	5563
	Uttarakhand	Total Hydro	1303	464	290	9.14
Total Uttarakhand		1303	464	290	9.14	381
Delhi	Rajghat TPS	135	0	0	0.00	0
	Delhi Gas Turbine	282	75	76	1.79	75
	Pragati Gas Turbine	330	290	268	6.68	279
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	297	299	7.46	311
	Thermal (Total)	2232	662	643	15.93	664
	Total Delhi	2232	662	643	15.93	664
HP	Baspa HPS (IPP)	330	28	0	0.89	37
	Malana HPS (IPP)	86	2	0	0.31	13
	Other Hydro	589	378	289	9.45	394
	Total HP	1005	408	289	10.65	444
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	15015	14772	358.48	14936
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4609	2591	86.60	3608
Total Regional Availability(Gross)		60623	34776	27113	728.80	30367

IV. Total Hydro Generation:

Regional Entities Hydro	10880	6523	2180	93.95	3914
State Control Area Hydro	5368	1673	1636	42.72	1780
Total Regional Hydro	16248	8196	3816	136.66	5694

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	50	-200	400	200	2.44	1.83	0.61
Gwallor-Agra (D/C)	1611	1204	1631	0	31.63	0.00	31.63
Zerda-Kankroli	-43	-400	0	429	0.00	5.51	-5.51
Zerda-Bhinmal	43	-287	76	333	0.00	2.67	-2.67
Malanpur-Auraiya	-52	-44	0	78	0.00	1.20	-1.20
Badod-Kota/Morak	-13	-144	25	168	0.00	1.47	-1.47
Mundra-Mohindergarh(HVDC)	1910	1913	1915	0	46.28	0.00	46.28
Sub Total WR	3506	2042			80.34	12.68	67.66
Pusauli Bypass	300	300	300	0	7.23	0.00	7.23
MZP- GKP (D/C)	160	100	236	0	3.08	0.00	3.08
Patna-Balia(D/C)	434	226	457	0	7.01	0.00	7.01
B'Shafi-Balia (D/C)	174	106	200	0	2.63	0.00	2.63
Pusauli-Balia	-107	-82	0	117	0.00	2.08	-2.08
Gaya-Fatehpur (765 Kv)	-13	-114	41	141	0.00	1.25	-1.25
Pusauli-Sahupuri	103	145	154	0	3.22	0.00	3.22
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)	80	-107	114	148	0.00	0.34	-0.34
Sub Total ER	1103	549			23.17	4.23	18.93
Total IR Exch	4609	2591			103.51	16.91	86.60

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
26.17	0.28	26.45	2.71	6.46	0.40	-2.48	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
29.56	60.66	90.22	18.93	67.66	86.60	-10.63	7.01	-3.62

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	0.20	1.70	10.20	47.70	55.90	13.90	20.00	3.80	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				
50.34	18.04	49.63	21.07	50.01	0.10	0.10	50.28	49.92

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	413	03:01	402	21:16	0.0	0.0	0.0	0.0
Gorakhpur	400	427	05:04	411	16:29	0.0	0.0	27.5	0.0
Bareilly	400	424	04:02	393	14:26	0.0	0.0	18.1	0.0
Kanpur	400	421	01:13	402	19:16	0.0	0.0	0.4	0.0
Dadri	400	427	04:02	408	19:06	0.0	0.0	23.7	0.0
Ballabgarh	400	433	04:01	413	19:11	0.0	0.0	63.9	11.1
Bawana	400	431	04:01	409	18:58	0.0	0.0	53.4	1.1
Bassi	400	431	04:00	404	07:36	0.0	0.0	23.0	0.7
Hissar	400	421	01:18	401	19:07	0.0	0.0	3.3	0.0
Moga	400	424	04:02	402	06:33	0.0	0.0	13.0	0.0
Abdullapur	400	428	00:14	407	06:17	0.0	0.0	53.9	0.0
Nalagarh	400	428	02:59	407	19:06	0.0	0.0	30.6	0.0
Kishenpur	400	421	04:00	397	19:15	0.0	0.0	0.5	0.0
Wagoora	400	405	04:22	360	19:08	26.1	67.8	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	774	01:16	555	11:09	34.4	40.4	0.0	0.0
Balia	765	778	05:04	746	21:07	0.0	0.0	0.0	0.0
Moga	765	804	04:02	763	19:12	0.0	0.0	7.5	0.0
Agra	765	806	01:18	765	19:11	0.0	0.0	4.8	0.0
Bhiwani	765	813	12:58	773	19:11	0.0	0.0	32.7	0.0
Unnao	765	765	01:18	736	21:07	0.0	18.6	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 25.03.2014 :

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 : 25.03.2014

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER