पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.04.2014
Date of Reporting : 25.04.2014

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
35950	2962	38913	50.04	32117	1410	33527	50.00	785.8	52.72

* 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	Actual Drawal	UI	Consumption	Shortages *
	Thermal	Hydro	Renewable/others $	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)
Punjab	31.62	9.07		40.68	60.92	61.72	0.80	102.41	2.18
Haryana	50.99	0.56		51.56	51.73	52.04	0.32	103.60	0.84
Rajasthan	107.97	0.00	0.38	108.35	45.57	44.44	-1.13	152.79	0.53
Delhi	15.42			15.42	61.86	63.04	1.18	78.46	0.20
UP	138.94	5.63	7.20	151.76	102.13	105.20	3.07	256.96	46.66
Uttarakhand		9.15		9.15	21.97	23.13	1.16	32.28	0.63
HP		12.01		12.01	11.15	12.14	0.99	24.14	0.00
J & K		13.58	0.00	13.58	18.80	17.60	-1.20	31.18	1.70
Chandigarh				0.00	3.33	4.00	0.67	4.00	0.00
Total	**344.94**	**49.99**	**7.58**	**402.51**	**377.44**	**383.31**	**5.86**	**785.82**	**52.72**

*** 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 (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transactio	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction
Punjab	4952	0	40	169	4642	0	113	425	3.74
Haryana	5354	226	115	299	4357	0	-27	-392	-3.70
Rajasthan	6794	0	-116	5	6190	0	-78	-49	0.11
Delhi	3712	31	72	-37	2623	0	-58	-524	-4.80
UP	10964	2395	90	662	10947	1375	178	1252	19.16
Uttarakhand	1429	210	68	386	1272	35	140	418	10.62
HP	1065	0	-138	-386	811	0	44	-108	-4.14
J&K	1478	100	-93	-282	1159	0	8	-281	-6.50
Chandigarh	202	0	13	0	115	0	2	0	0.00
Total	**35950**	**2962**	**50**	**816**	**32117**	**1410**	**323**	**742**	**14.49**

* 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
A. NTPC	Singrauli STPS	2000	1610	1857	1667	38.76	1615	38.64	0.13
	Rihand I STPS	1000	850	929	925	20.66	861	20.40	0.26
	Rihand II STPS	1000	929	1026	1022	22.98	957	22.30	0.68
	Rihand III STPS	1000	721	485	905	17.28	720	17.30	-0.03
	Dadri I STPS	840	813	868	842	18.77	782	19.27	-0.50
	Dadri II STPS	980	473	451	338	10.52	438	11.17	-0.64
	Unchahar I TPS	420	408	399	430	9.16	382	9.77	-0.61
	Unchahar II TPS	420	204	204	210	4.49	187	4.87	-0.38
	Unchahar III TPS	210	204	208	209	4.58	191	4.87	-0.29
	ISTPP (Jhajjhar)	1500	1000	378	378	10.68	445	10.80	-0.12
	Dadri GPS	830	804	185	167	4.15	173	4.53	-0.38
	Anta GPS	419	393	246	219	5.35	223	5.28	0.07
	Auraiya GPS	663	646	156	148	3.50	146	3.61	-0.11
	Dadri Solar	5		0	0	0.00	0		0.00
	Unchahar Solar	10		0	0	0.00	0		0.00
	Sub Total (A)	**11297**	**9055**	**7392**	**7460**	**171**	**7120**	**173**	**-2**
B. NPC	NAPS	440	148	175	169	3.40	142	3.55	-0.15
	RAPS- B	440	410	451	450	9.73	406	9.84	-0.11
	RAPS- C	440	420	461	458	9.95	415	10.08	-0.13
	Sub Total (B)	**1320**	**978**	**1087**	**1077**	**23.08**	**962**	**23.47**	**-0.39**
C. NHPC	Chamera I HPS	540	540	0	540	7.61	317	7.50	0.11
	Chamera II HPS	300	300	0	301	4.01	167	3.90	0.11
	Chamera III HPS	231	231	0	223	2.30	96	2.25	0.05
	Bairasuil HPS	180	122	122	122	2.86	119	2.83	0.03
	Salal-HPS	690	419	440	520	10.37	432	10.06	0.32
	Tanakpur-HPS	94	24	23	31	0.58	24	0.57	0.02
	Uri-HPS	480	475	474	478	11.53	481	11.40	0.13
	Uri-II HPS	240	180	191	195	4.52	188	4.32	0.20
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	0	396	4.68	195	4.50	0.18
	Sewa-II HPS	120	122	130	129	3.06	128	2.93	0.13
	Parbati 3	390	257	0	0	1.25	52	1.20	0.05
	Sub Total ©	**3935**	**3057**	**1380**	**2935**	**53**	**2199**	**51**	**1**
D.SJVNL	NJPC	1500	1605	268	904	11.04	460	10.76	0.28
	Rampur HEP	206		90	80	0.76	32		0.76
	Sub Total (D)	1706	1605	358	984	11.80	492	10.76	1.04
E. THDC	Tehri HPS	1000	500	0	507	8.14	339	8.00	0.14
	Koteshwar HPS	400	150	0	303	3.66	152	3.60	0.06
	Sub Total (E)	**1400**	**650**	**0**	**810**	**11.80**	**492**	**11.60**	**0.20**
F. BBMB	Bhakra HPS	1514	276	280	279	6.71	280	6.62	0.09
	Dehar HPS	990	328	280	495	8.82	368	7.88	0.95
	Pong HPS	396	23	0	186	0.63	26	0.54	0.09
	Sub Total (F)	**2900**	**627**	**560**	**960**	**16.16**	**673**	**15.04**	**1.12**
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	52	93	0.65	27	0.60	0.05
	KWHEP HPS(IPP)	1000	0	150	727	5.59	233	5.43	0.16
	Malana Stg-II HPS	100	0	0	111	0.40	17	0.37	0.03
	Shree Cement TPS	300	0	285	280	6.95	290	6.90	0.05
	Budhil HPS(IPP)	70	0	0	0	0.05	2	0.91	-0.86
	Sub Total (G)	1662	0	487	1211	13.64	568	14.21	-0.57
H. Total Regional Entities (A-G)		**24221**	**15972**	**11264**	**15437**	**300.14**	**12506**	**299.34**	**0.79**

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	630	630	13.41	559
	Guru Nanak Dev TPS(Bhatinda)	440	120	120	2.45	102
	Guru Hargobind Singh TPS(L.mbt)	920	423	421	9.09	379
	Goindwal(GVK)		0	0	0.00	0
	Rajpura	700	327	305	6.67	278
	Talwandi Saboo	660	0	0	0.00	0
	Thermal (Total)	**3980**	**1500**	**1476**	**32**	**1317**
	Total Hydro	1148	405	446	9.07	378
	Total Punjab	**5128**	**1905**	**1922**	**40.68**	**1695**
Haryana	Panipat TPS	1367	409	408	9.14	381
	DCRTPP (Yamuna nagar)	600	555	552	12.69	529
	Faridabad GPS (NTPC)	432	193	160	4.03	168
	RGTPP (khedar) (IPP)	1200	590	581	13.06	544
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	615	612	12.08	503
	Thermal (Total)	4944	2362	2313	51	2125
	Total Hydro	62	23	24	0.56	23
	Total Haryana	**5006**	**2385**	**2337**	**51.56**	**2148**
Rajasthan	kota TPS	1240	1087	1132	26.80	1117
	suratgarh TPS	1500	1009	1069	25.60	1067
	Chabra TPS	750	282	433	10.25	427
	Dholpur GPS	330	135	129	3.28	137
	Ramgarh GPS	221	60	73	1.69	70
	RAPS A (NPC)	300	175	0	1.20	50
	Barsingsar (NLC)	250	0	0	0.00	0
	Giral LTPS	250	71	71	1.66	69
	Rajwest LTPS (IPP)	1080	943	954	22.96	957
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Kalisindh Thermal	600	0	0	0.00	0
	Kawai(Adani)	1320	606	600	14.53	606
	Thermal (Total)	7976	4368	4461	108	4499
	Total Hydro	550	0	0	0.00	0
	Wind power	2191	100	89	2.87	120
	Biomass	91	25	25	0.59	25
	Solar	201	0	0	0.35	15
	Renewable/Others (Total)	2483	125	114	0.38	16
	Total Rajasthan	**11009**	**4493**	**4575**	**108.35**	**4515**
UP	Anpara TPS	1630	1401	1324	32.70	1363
	Obra TPS	1288	402	425	9.60	400
	Paricha TPS	1140	793	763	18.20	758
	Panki TPS	210	41	77	1.80	75
	Harduaganj TPS	665	363	356	7.90	329
	Tanda TPS (NTPC)	440	285	276	7.06	294
	Roza TPS (IPP)	1200	1116	1134	27.06	1127
	Anpara-C (IPP)	1200	1076	1071	25.70	1071
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	401	401	8.92	372
	Thermal (Total)	8223	5878	5827	139	5789
	Vishnuparyag HPS (IPP)	400	89	98	2.28	95
	Other Hydro	527	152	152	3.35	140
	Cogeneration	981	300	300	7.20	300
	Total UP	**10131**	**6419**	**6377**	**151.76**	**6229**
Uttarakhand	Total Hydro	1303	349	499	9	381
	Total Uttarakhand	**1303**	**349**	**499**	**9.15**	**381**
Delhi	Rajghat TPS	135	106	105	3	108
	Delhi Gas Turbine	282	141	146	4	148
	Pragati Gas Turbine	330	100	0	2	72
	Rithala GPS	95	0	0	0	0
	Bawana GPS	1370	0	0	0	0
	Badarpur TPS (NTPC)	705	360	325	8	315
	Thermal (Total)	2917	707	576	15	643
	Total Delhi	**2917**	**707**	**576**	**15.42**	**643**
HP	Baspa HPS (IPP)	300	30	89	1	57
	Malana HPS (IPP)	86	15	96	0	18
	Other Hydro	728	382	461	10	425
	Total HP	**1114**	**427**	**646**	**12.01**	**500**
J & K	Baglihar HPS (IPP)	450	436	438	10	435
	Other Hydro/IPP	436	132	128	3	131
	Gas/Diesel/Others	209	0	0	0	0
	Total J & K	**1094**	**568**	**566**	**13.58**	566
Total State Control Area Generation		**37702**	**17253**	**17498**	**402.51**	**16676**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**4663**	**4589**	**105.79**	**4408**
Total Regional Availability(Gross)		**61923**	**33180**	**37524**	**808.44**	**33590**

IV. Total Hydro Generation:

Regional Entities Hydro	**11233**	**2500**	**6620**	**99.18**	**4132**
State Control Area Hydro	**5589**	**1924**	**2333**	**49.99**	**1988**
Total Regional Hydro	**16823**	**4424**	**8953**	**149.17**	**6121**

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
	MW	MW	Import	Export	Import	Export	MU
Vindhychal B/B	350	350	500	0	9	0	8.62
Gwalior-Agra (D/C)	1801	1858	2032	0	39	0	39.23
Zerda-Kankroli	-94	-231	0	280	0	5	-5.03
Zerda-Bhinmal	-54	-183	0	236	0	4	-3.62
Malanpur-Auraiya	-49	-15	0	50	0	1	-0.60
Badod-Kota/Morak	-57	-181	0	231	0	4	-3.59
Mundra-Mohindergarh(HVDC)	1999	2002	2005	0	48	0	48.33
Sub Total WR	**3896**	**3600**			**96.18**	**12.84**	**83.34**
Pusauli Bypass	400	400	400	0	10	0	9.64
MZP- GKP (D/C)	30	164	294	0	2	0	2.44
Patna-Balia(D/C)	424	338	470	0	8	0	8.47
B'Sharif-Balia (D/C)	34	128	223	0	2	0	1.69
Pusauli-Balia	-167	-118	0	167	0	3	-2.97
Gaya-Fatehpur (765 Kv)	-77	-60	94	170	0	1	-0.72
Pusauli-Sahupuri	141	172	177	0	4	0	3.74
K'nasa-Sahupuri	0	0	0	0	0	0	0.00
Son Ngr-Rihand	0	0	0	0	0	0	0.00
Garhwa-Rihand	0	0	0	0	0	0	0.00
Sasaram - Fatehpur(765 KV)	-18	-35	160	90	0	0	0.16
Sub Total ER	**767**	**989**			**26.14**	**3.69**	**22.45**
Total IR Exch	**4663**	**4589**			**122.32**	**16.53**	**105.79**

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
37.60	0.30	37.90	3.70	0.36	-8.61	7.26	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
32.99	60.23	93.22	22.45	83.34	105.79	-10.54	23.11	12.58

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	2.16	14.12	50.30	86.10	43.83	4.06	1.85	0.09	0.00

<---------- 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)
50.21	18.01	49.59	4.13	49.90	0.19	0.10	50.13	49.78

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	402	07:08	398	01:11	0.0	0.0	0.0	0.0
Gorakhpur	400	436	13:03	417	01:29	0.0	0.0	90.2	14.5
Bareilly	400	413	07:04	400	14:23	0.0	0.0	0.0	0.0
Kanpur	400	413	07:04	400	19:38	0.0	0.0	0.0	0.0
Dadri	400	416	02:28	401	14:23	0.0	0.0	0.0	0.0
Ballabhgarh	400	425	02:29	409	14:27	0.0	0.0	21.4	0.0
Bawana	400	422	02:30	405	19:13	0.0	0.0	5.2	0.0
Bassi	400	427	03:32	411	09:27	0.0	0.0	20.8	0.0
Hissar	400	412	02:26	396	19:11	0.0	0.0	0.0	0.0
Moga	400	415	02:29	395	19:30	0.0	0.0	0.0	0.0
Abdullapur	400	422	02:26	404	19:13	0.0	0.0	9.6	0.0
Nalagarh	400	421	02:59	400	14:51	0.0	0.0	0.1	0.0
Kishenpur	400	420	02:27	397	19:19	0.0	0.0	0.0	0.0
Wagoora	400	412	02:29	386	19:36	0.0	6.1	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	771	13:03	736	19:36	0.0	5.4	0.0	0.0
Balia	765	784	13:03	745	22:06	0.0	0.0	0.0	0.0
Moga	765	790	02:29	754	19:20	0.0	0.0	0.0	0.0
Agra	765	799	13:03	769	19:13	0.0	0.0	0.0	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	754	13:03	732	19:13	0.0	36.6	0.0	0.0

IX. Reservior Parameters:

Name of Reservior	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	482.85	527.87	479.45	447.73	306.95	222.15
Pong	426.72	384.05	402.41	273.51	400.34	223.85	83.25	20.08
Tehri	829.79	740.04	763.85	154.42	0.00	0.00	82.39	244.00
Koteshwar	612.50	598.50	610.98	4.95	601.50	0.98	244.00	243.00
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	206.25	230.88
Rihand	268.22	252.98	0.00	0.00	257.13	163.30	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

*** NA: Not Available**

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.04.2014 :
Normal

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 :
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
Dhauliganga expected by April, 2014 .

Report for : 24.04.2014 **पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER**