

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.09.2013
Date of Reporting : 26.09.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
37797	2343	40139	50.10	35331	1220	36551	50.22	851.9	42.75

* 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	41.05	16.71		57.76	103.02	102.25	-0.77	160.00	0.00
Haryana	51.08	0.63		51.70	62.04	61.46	-0.58	113.16	0.56
Rajasthan	75.41	7.92	11.24	94.57	60.61	52.67	-7.94	147.23	0.00
Delhi	27.09			27.09	68.98	66.93	-2.05	94.02	0.05
UP	113.94	4.33	1.70	119.97	127.59	124.08	-3.51	244.05	39.30
Uttarakhand		18.67		18.67	12.80	14.12	1.32	32.79	1.14
HP		18.10		18.10	6.26	5.94	-0.32	24.04	0.00
J & K		13.61	0.00	13.61	17.87	18.02	0.15	31.63	1.70
Chandigarh				0.00	5.11	4.94	-0.17	4.94	0.00
Total	308.56	79.96	12.94	401.46	464.28	450.40	-13.87	851.86	42.75

* 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	STOA/PX transaction	
Punjab	7335	0	-107	1849	6416	0	-21	2206	48.24	
Haryana	5790	73	77	367	4815	0	-91	-84	-4.05	
Rajasthan	6959	0	-423	958	5922	0	-461	576	14.20	
Delhi	4091	0	-261	-68	3567	0	-63	-544	-4.63	
UP	9349	1900	-519	1040	11312	1220	14	2202	40.36	
Uttarakhand	1347	270	74	28	1301	0	7	33	2.04	
HP	1180	0	82	-957	820	0	-87	-608	-12.90	
J&K	1501	100	-34	-82	1025	0	-73	-275	-2.40	
Chandigarh	244	0	-3	-15	153	0	-11	-30	0.15	
Total	37797	2343	-1115	3120	35331	1220	-785	3475	81.01	

* 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	1741	1873	1695	40.62	1692	40.75	-0.13
	Rihand I STPS	1000	920	950	971	19.82	826	20.18	-0.36
	Rihand II STPS	1000	478	516	487	10.10	421	10.20	-0.11
	Rihand III STPS	500	484	505	386	10.38	433	10.63	-0.25
	Dadri I STPS	840	600	533	450	11.83	493	12.02	-0.19
	Dadri II STPS	980	975	929	726	19.72	822	20.02	-0.30
	Unchahar I TPS	420	402	419	347	8.20	342	8.30	-0.10
	Unchahar II TPS	420	403	410	310	7.28	303	7.33	-0.05
	Unchahar III TPS	210	199	196	153	3.58	149	3.64	-0.06
	ISTPP (Jhajjar)	1500	1480	645	636	14.06	586	14.21	-0.15
	Dadri GPS	830	795	583	773	16.49	687	16.67	-0.19
	Anta GPS	419	399	80	0	0.84	35	0.97	-0.12
	Auraiya GPS	663	625	155	155	3.59	149	3.61	-0.03
	Sub Total (A)	10782	9500	7794	7089	166.50	6938	168.52	-2.02
B. NPC	NAPS	440	296	333	333	7.07	295	7.10	-0.03
	RAPS- B	440	193	0	0	0.00	0	4.63	-4.63
	RAPS- C	440	412	464	465	9.90	412	9.89	0.01
	Sub Total (B)	1320	901	797	798	16.97	707	21.62	-4.65
C. NHPC	Chamera I HPS	540	536	360	360	5.48	228	5.50	-0.02
	Chamera II HPS	300	300	299	91	4.17	174	4.25	-0.08
	Chamera III HPS	231	231	226	150	3.03	126	3.12	-0.09
	Bairasuil HPS	180	182	120	40	1.51	63	1.46	0.05
	Salal-HPS	690	453	638	465	10.64	443	10.79	-0.15
	Tanakpur-HPS	94	94	92	92	2.22	92	2.19	0.02
	Uri-HPS	480	270	250	252	6.26	261	6.73	-0.47
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	409	361	9.27	386	9.22	0.06
	Sewa-II HPS	120	119	124	0	0.58	24	0.58	0.00
	Sub Total (C)	3305	2571	2518	1811	43.14	1798	43.83	-0.69
D. NJPC	Nathpa Jhakri	1500	1605	1610	758	23.42	976	23.25	0.17
	Sub Total (D)	1500	1605	1610	758	23.42	976	23.25	0.17
E. THDC	Tehri HPS	1000	1060	500	231	6.62	276	6.50	0.12
	Koteshwar HPS	400	100	101	101	2.39	100	2.40	-0.01
	Sub Total (E)	1400	1160	601	332	9.02	376	8.90	0.12
F. BBMB	Bhakra HPS	1497	960	1354	931	23.99	1000	23.04	0.95
	Dehar HPS	990	508	660	470	12.66	528	12.19	0.48
	Pong HPS	396	353	372	372	8.67	361	8.47	0.20
	Sub Total (F)	2883	1821	2386	1773	45.32	1888	43.70	1.62
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	156	49	1.66	69	1.61	0.05
	KWHEP HPS(IPP)	1000	0	848	440	13.32	555	12.49	0.83
	Malana Stg-II HPS	100	0	102	51	1.16	48	1.07	0.09
	Shree Cement TPS	300	0	261	258	6.15	256	6.23	-0.08
	Budhil HPS(IPP)	70	0	69	26	0.88	37	0.86	0.02
	Sub Total (G)	1662	0	1436	824	23.17	965	22.26	0.91
H. Total Regional Entities (A-G)	22852	17558	17142	13385	327.54	13647	332.09	-4.55	

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	1000	850	20.74	864
	Guru Nanak Dev TPS(Bhatinda)	440	195	200	4.44	185
	Guru Hargobind Singh TPS(L.mbt)	920	683	686	15.87	661
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1878	1736	41.05	1710
	Total Hydro	1148	678	691	16.71	696
	Total Punjab	3768	2556	2427	57.76	2407
Haryana	Panipat TPS	1367	415	419	10.04	418
	DCRTPP (Yamuna nagar)	600	253	250	5.94	247
	Faridabad GPS (NTPC)	432	351	282	7.17	299
	RGTPP (khedar) (IPP)	1200	421	405	10.04	418
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	744	744	17.89	745
	Thermal (Total)	4944	2184	2100	51.08	2128
	Total Hydro	62	16	16	0.63	26
	Total Haryana	5006	2200	2116	51.70	2154
	Rajasthan	kota TPS	1240	906	884	21.48
suratgarh TPS		1500	830	959	20.86	869
Chabra TPS		500	224	182	4.69	196
Dholpur GPS		330	65	73	1.65	69
Ramgarh GPS		111	54	56	1.19	50
RAPS A (NPC)		300	168	168	4.18	174
Barsingsar (NLC)		250	79	73	1.62	68
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	860	669	14.56	607
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	0	452	5.17	216
Thermal (Total)		6956	3186	3516	75.41	3142
Total Hydro		550	348	349	7.92	330
Wind power		2191	589	134	8.67	361
Biomass		91	31	31	0.75	31
Solar		201	0	0	1.82	76
Renewable/Others (Total)		2483	620	165	11.24	468
Total Rajasthan		9989	4154	4030	94.57	3940
UP		Anpara TPS	1630	1322	1325	28.20
	Obra TPS	1288	464	441	9.80	408
	Paricha TPS	1140	577	662	13.20	550
	Panki TPS	210	85	60	1.80	75
	Harduaganj TPS	665	418	392	8.80	367
	Tanda TPS (NTPC)	440	287	297	7.03	293
	Roza TPS (IPP)	1200	603	797	18.61	775
	Anpara-C (IPP)	1200	796	793	18.48	770
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	257	363	8.02	334
	Thermal (Total)	8223	4809	5130	113.94	4747
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	173	263	4.33	180
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5052	5463	119.97	4999
Uttarakhand	Total Hydro	1303	765	786	18.67	778
	Total Uttarakhand	1303	765	786	18.67	778
Delhi	Rajghat TPS	135	92	89	2.02	84
	Delhi Gas Turbine	282	160	159	3.75	156
	Pragati Gas Turbine	330	299	261	6.55	273
	Riithala GPS	95	0	0	0.33	14
	Bawana GPS	686	0	228	2.73	114
	Badarpur TPS (NTPC)	705	580	490	11.72	488
	Thermal (Total)	2232	1131	1227	27.09	1129
	Total Delhi	2232	1131	1227	27.09	1129
HP	Baspa HPS (IPP)	330	251	200	4.97	207
	Malana HPS (IPP)	86	69	46	1.12	47
	Other Hydro	589	518	521	12.01	501
	Total HP	1005	838	767	18.10	754
J & K	Baglihar HPS (IPP)	450	438	436	10.47	436
	Other Hydro	323	126	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	564	564	13.61	567
Total State Control Area Generation		34390	17260	17380	401.46	16727
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5735	5714	137.78	5741
Total Regional Availability(Gross)		57242	40137	36479	866.77	36116

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8221	5214	137.04	5710
State Control Area Hydro	5368	3382	3436	79.96	3332
Total Regional Hydro	15748	11603	8650	217.00	9042

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	500	500	500	0	8.91	0.00	8.91
Gwalior-Agra (D/C)	1815	1971	2142	0	43.31	0.00	43.31
Zerda-Kankroli	108	-62	108	96	0.00	0.56	-0.56
Zerda-Bhinmal	107	-17	110	142	0.12	0.00	0.12
Malanpur-Auraiya	-33	-23	0	55	0.00	0.19	-0.19
Badod-Kota/Morak	74	25	76	52	0.42	0.00	0.42
Mundra-Mohindergarh(HVDC)	1238	1432	1436	0	32.94	0.00	32.94
Sub Total WR	3809	3826			85.69	0.75	84.94
Pusauli Bypass	-205	-29	112	205	0.77	1.29	-0.52
MZP- GKP (D/C)	505	729	860	0	15.72	0.00	15.72
Patna-Balia(D/C)	766	659	866	0	15.68	0.00	15.68
B'Sharif-Balia (D/C)	601	476	767	0	13.08	0.00	13.08
Pusauli-Balia	157	74	228	0	3.38	0.00	3.38
Gaya-Fatehpur (765 Kv)	-5	-156	214	15	2.57	0.00	2.57
Pusauli-Sahupuri	144	171	185	0	3.80	0.00	3.80
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	0.00	0.87	-0.87
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1926	1888			54.99	2.16	52.84
Total IR Exch	5735	5714			140.69	2.91	137.78

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
32.40	2.20	34.60	0.36	31.75	11.58	18.28	4.10	-4.10

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
50.63	97.16	147.79	52.84	84.94	137.78	2.21	-12.22	-10.01

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.80	82.50	1.30	81.70	76.60	17.50

<----- 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				
50.39	10.01	49.57	20.17	50.08	0.24	0.13	50.41	49.82

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	410	09:02	401	19:36	0.0	0.0	0.0	0.0
Gorakhpur	400	419	05:05	405	00:03	0.0	0.0	0.0	0.0
Bareilly	400	418	08:04	399	14:21	0.0	0.0	0.0	0.0
Kanpur	400	418	17:03	404	14:38	0.0	0.0	0.0	0.0
Dadri	400	418	06:56	402	14:21	0.0	0.0	0.0	0.0
Ballabgarh	400	424	07:01	406	14:39	0.0	0.0	18.1	0.0
Bawana	400	423	07:14	404	14:38	0.0	0.0	4.5	0.0
Bassi	400	429	04:02	406	19:07	0.0	0.0	29.9	0.0
Hissar	400	411	03:29	393	14:46	0.0	0.0	0.0	0.0
Moga	400	412	03:27	394	19:04	0.0	0.0	0.0	0.0
Abdullapur	400	410	03:12	398	14:08	0.0	0.0	0.0	0.0
Nalagarh	400	417	03:48	400	14:19	0.0	0.0	0.0	0.0
Kishenpur	400	421	03:57	400	19:04	0.0	0.0	0.2	0.0
Wagoora	400	421	03:51	385	19:05	0.0	2.2	0.5	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	765	04:02	738	19:09	0.0	2.7	0.0	0.0
Balia	765	758	05:13	730	14:46	0.0	39.5	0.0	0.0
Moga	765	783	04:01	748	19:08	0.0	0.0	0.0	0.0
Agra	765	803	08:08	769	14:39	0.0	0.0	1.1	0.0
Bhiwani	765	791	17:59	766	19:09	0.0	0.0	0.0	0.0
Unnao	765	761	00:00	761	00:00	0.0	0.0	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	511.35	1620.46	505.24	1325.82	548.98	664.71
Pong	426.72	384.05	423.20	1035.89	422.54	1005.78	165.89	485.01
Tehri	829.79	740.04	823.70	1080.00	818.65	982.26	158.70	138.00
Koteshwar	612.50	598.50	608.20	4.96	NA	NA	138.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	148.26	150.02
Rihand	268.22	252.98	260.79	348.70	264.20	558.40	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	519.31	144.00	520.82	144.00	192.24	241.29

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.09.2013 :

1.Normal weather in NR.

XIII. Synchronisation of new generating units :

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 Dec, 2013 .

Report for : 25.09.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER