

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.08.2013
Date of Reporting : 25.08.2013

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
38528	2816	41344	50.07	35519	2910	38429	50.13	878.8	66.53

* 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	34.61	20.44		55.06	123.63	123.66	0.03	178.71	0.00
Haryana	61.84	0.68		62.51	76.45	77.91	1.46	140.42	0.01
Rajasthan	75.75	4.96	5.72	86.43	59.00	57.17	-1.84	143.60	2.13
Delhi	19.19			19.19	76.05	76.15	0.09	95.33	0.44
UP	97.24	4.80	1.00	103.04	122.53	124.01	1.48	227.05	61.49
Uttarakhand		22.11		22.11	12.43	12.71	0.28	34.83	0.77
HP		23.21		23.21	-0.13	0.70	0.83	23.91	0.00
J & K		13.62	0.00	13.62	17.56	15.86	-1.70	29.48	1.70
Chandigarh				0.00	5.63	5.43	-0.20	5.43	0.00
Total	288.62	89.82	6.72	385.16	493.15	493.59	0.44	878.75	66.53

* 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	7568	0	122	1747	7304	0	-11	2020	45.36	
Haryana	6593	0	11	600	5709	0	124	320	5.67	
Rajasthan	6447	101	14	56	5849	0	-240	161	3.02	
Delhi	4414	205	109	324	3542	0	-162	-140	3.98	
UP	9214	2340	-23	629	9717	2910	-117	957	16.86	
Uttarakhand	1534	70	-35	18	1380	0	-27	-127	-2.62	
HP	1033	0	-15	-1166	857	0	12	-1255	-27.83	
J&K	1464	100	-12	-265	977	0	-53	-518	-7.99	
Chandigarh	262	0	-18	-10	183	0	-6	-30	-0.24	
Total	38528	2816	154	1934	35519	2910	-480	1388	36.21	

* 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	1940	2084	2087	46.56	1940	46.55	0.01
	Rihand I STPS	1000	920	995	995	22.02	918	22.04	-0.02
	Rihand II STPS	1000	470	512	506	11.21	467	11.26	-0.05
	Rihand III STPS	500	453	510	505	10.79	450	10.87	-0.08
	Dadri I STPS	840	600	654	570	11.80	492	12.76	-0.96
	Dadri II STPS	980	928	1004	480	18.64	777	20.50	-1.85
	Unchahar I TPS	420	395	404	418	8.81	367	9.17	-0.36
	Unchahar II TPS	420	404	420	412	8.79	366	9.07	-0.29
	Unchahar III TPS	210	201	217	210	4.37	182	4.50	-0.13
	ISTPP (Jhajjar)	1500	1470	455	318	7.78	324	8.20	-0.42
	Dadri GPS	830	523	376	384	8.82	367	9.10	-0.28
	Anta GPS	419	402	347	256	7.18	299	7.33	-0.15
	Auraiya GPS	663	625	304	308	7.12	297	7.30	-0.18
	Sub Total (A)	10782	9330	8282	7449	173.88	7245	178.64	-4.76
B. NPC	NAPS	440	292	326	336	6.92	288	7.01	-0.09
	RAPS- B	440	398	438	445	9.55	398	9.55	0.00
	RAPS- C	440	400	460	462	9.80	408	9.60	0.20
	Sub Total (B)	1320	1090	1224	1243	26.26	1094	26.16	0.10
C. NHPC	Chamera I HPS	540	535	540	540	12.87	536	12.84	0.03
	Chamera II HPS	300	300	306	303	7.23	301	7.21	0.02
	Chamera III HPS	231	231	228	233	5.52	230	5.51	0.01
	Bairasuil HPS	180	179	179	150	3.42	142	3.28	0.14
	Salal-HPS	690	665	667	668	16.01	667	15.96	0.05
	Tanakpur-HPS	94	93	92	91	2.20	92	2.17	0.02
	Uri-HPS	480	300	205	337	7.13	297	7.20	-0.08
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	407	264	8.99	375	8.71	0.28
	Sewa-II HPS	120	119	125	124	2.97	124	2.93	0.03
	Sub Total (C)	3305	2809	2749	2710	66.33	2764	65.82	0.51
D. NJPC	Natpura Jhakri	1500	1507	1624	1624	36.32	1513	36.14	0.17
	Sub Total (D)	1500	1507	1624	1624	36.32	1513	36.14	0.17
E. THDC	Tehri HPS	1000	1060	1060	1057	25.55	1065	25.25	0.30
	Koteshwar HPS	400	380	386	258	8.63	360	8.60	0.03
	Sub Total (E)	1400	1440	1446	1315	34.18	1424	33.85	0.33
F. BBMB	Bhakra HPS	1480	1191	1344	1098	29.41	1225	28.58	0.83
	Dehar HPS	990	617	635	635	14.77	615	14.80	-0.03
	Pong HPS	396	366	372	372	9.04	377	8.78	0.26
	Sub Total (F)	2866	2173	2351	2105	53.22	2218	52.16	1.06
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	229	150	4.14	172	4.61	-0.47
	KWHEP HPS(IPP)	1000	0	1201	1200	28.50	1188	28.51	-0.01
	Malana Stg-II HPS	100	0	0	95	1.34	56	1.81	-0.47
	Shree Cement TPS	300	0	122	122	2.99	124	3.01	-0.03
	Budhil HPS(IPP)	70	0	69	70	1.66	69	1.65	0.01
	Sub Total (G)	1662	0	1621	1637	38.62	1609	39.59	-0.97
H. Total Regional Entities (A-G)	22836	18349	19297	18083	428.81	17867	432.36	-3.55	

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	840	630	17.00	708
	Guru Nanak Dev TPS(Bhatinda)	440	105	100	2.15	89
	Guru Hargobind Singh TPS(L.mbt)	920	721	706	15.47	645
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1666	1436	34.61	1442
	Total Hydro	1148	875	875	20.44	852
Total Punjab		3768	2541	2311	55.06	2294
Haryana	Panipat TPS	1367	440	197	6.63	276
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	385	160	5.49	229
	RGTPP (khedar) (IPP)	1200	1059	908	23.93	997
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	916	1114	25.78	1074
	Thermal (Total)	4944	2800	2379	61.84	2577
	Total Hydro	62	27	23	0.68	28
	Total Haryana	5006	2827	2402	62.51	2605
	Rajasthan	kota TPS	1240	661	599	14.83
suratgarh TPS		1500	779	715	19.03	793
Chabra TPS		500	410	387	7.87	328
Dholpur GPS		330	128	126	2.84	118
Ramgarh GPS		111	141	143	3.49	145
RAPS A (NPC)		300	180	176	3.99	166
Barsingsar (NLC)		250	92	0	1.58	66
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	659	310	12.57	524
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	503	443	9.55	398
Thermal (Total)		6956	3553	2899	75.75	3156
Total Hydro		550	254	213	4.96	207
Wind power		2191	39	450	3.96	165
Biomass		91	25	25	0.61	25
Solar		201	0	0	1.16	48
Renewable/Others (Total)		2483	64	475	5.72	238
Total Rajasthan		9989	3871	3587	86.43	3601
UP		Anpara TPS	1630	845	1249	21.80
	Obra TPS	1288	323	344	6.80	283
	Paricha TPS	1140	734	625	15.20	633
	Panki TPS	210	70	140	1.80	75
	Harduaganj TPS	665	378	393	8.20	342
	Tanda TPS (NTPC)	440	390	390	9.62	401
	Roza TPS (IPP)	1200	734	567	15.16	632
	Anpara-C (IPP)	1200	774	729	18.57	774
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.09	4
	Thermal (Total)	8223	4248	4437	97.24	4052
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	207	204	4.80	200
	Cogeneration	981	40	40	1.00	42
	Total UP	10131	4495	4681	103.04	4293
	Uttarakhand	Total Hydro	1303	922	916	22.11
Total Uttarakhand		1303	922	916	22.11	921
Delhi	Rajghat TPS	135	31	44	0.95	40
	Delhi Gas Turbine	282	80	78	1.86	78
	Pragati Gas Turbine	330	290	290	6.64	277
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	435	440	9.74	406
	Thermal (Total)	2232	836	852	19.19	800
	Total Delhi	2232	836	852	19.19	800
HP	Baspa HPS (IPP)	330	337	306	7.74	322
	Malana HPS (IPP)	86	66	49	1.42	59
	Other Hydro	589	590	588	14.05	585
	Total HP	1005	993	943	23.21	967
J & K	Baglihar HPS (IPP)	450	438	436	10.48	437
	Other Hydro	323	132	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	570	564	13.62	567
Total State Control Area Generation		34390	17055	16256	385.16	16049
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3310	2295	69.65	2902
Total Regional Availability(Gross)		57226	39662	36634	883.62	36817

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9600	9199	224.02	9334
State Control Area Hydro	5368	3848	3738	89.82	3742
Total Regional Hydro	15731	13448	12937	313.84	13077

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	100	50	100	250	1.36	1.49	-0.13
Gwalior-Agra (D/C)	1351	961	1456	0	24.96	0.00	24.96
Zerda-Kankroli	-62	-179	33	291	0.00	3.70	-3.70
Zerda-Bhinmal	3	-143	154	216	0.00	2.16	-2.16
Malanpur-Auraiya	-104	-70	0	115	0.00	1.68	-1.68
Badod-Kota/Morak	-40	-22	105	101	0.00	0.61	-0.61
Mundra-Mohindergarh(HVDC)	998	998	1003	0	24.18	0.00	24.18
Sub Total WR	2246	1595			50.50	9.64	40.86
Pusauli Bypass	-251	-344	0	344	0.00	6.80	-6.80
MZP- GKP (D/C)	240	402	655	0	12.44	0.00	12.44
Patna-Balia(D/C)	452	293	555	0	9.81	0.00	9.81
B'Sharif-Balia (D/C)	205	138	339	0	5.11	0.00	5.11
Pusauli-Balia	-34	-16	39	34	0.00	0.14	-0.14
Gaya-Fatehpur (765 Kv)	80	-26	80	26	0.59	0.00	0.59
Pusauli-Sahupuri	123	138	184	0	3.54	0.00	3.54
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-38	0	45	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	286	153	286	0	5.04	0.00	5.04
Sub Total ER	1064	700			36.52	7.74	28.78
Total IR Exch	3310	2295			87.02	17.38	69.65

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
33.85	3.72	37.57	-11.24	31.06	-5.86	-13.36	3.14	-3.14

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
23.61	52.78	76.39	28.78	40.86	69.65	5.18	-11.92	-6.75

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	0.30	1.30	90.00	4.80	89.00	63.40	9.70

<----- 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)		
50.42	11.04	49.37	20.37	50.04	0.21	0.14	50.41	49.69

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	408	10:17	402	19:16	0.0	0.0	0.0	0.0
Gorakhpur	400	423	07:35	407	23:47	0.0	0.0	6.7	0.0
Barailly	400	420	07:35	393	19:19	0.0	0.0	0.0	0.0
Kanpur	400	420	07:24	398	19:16	0.0	0.0	0.0	0.0
Dadri	400	412	02:56	395	19:15	0.0	0.0	0.0	0.0
Ballabgarh	400	421	02:56	401	19:15	0.0	0.0	0.9	0.0
Bawana	400	415	07:32	397	19:16	0.0	0.0	0.0	0.0
Bassi	400	428	02:58	400	20:36	0.0	0.0	24.5	0.0
Hissar	400	406	02:56	389	19:16	0.0	0.1	0.0	0.0
Moga	400	412	02:50	395	19:15	0.0	0.0	0.0	0.0
Abdullapur	400	409	06:05	394	19:14	0.0	0.0	0.0	0.0
Nalagarh	400	407	02:51	395	14:48	0.0	0.0	0.0	0.0
Kishenpur	400	415	02:57	401	18:42	0.0	0.0	0.0	0.0
Wagoora	400	415	02:57	390	18:37	0.0	0.0	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	772	07:33	731	20:37	0.0	5.6	0.0	0.0
Balia	765	760	05:05	734	23:42	0.0	9.0	0.0	0.0
Moga	765	778	11:04	743	19:17	0.0	0.0	0.0	0.0
Agra	765	801	07:33	754	20:39	0.0	0.0	0.0	0.0
Bhiwani	765	788	02:59	754	19:17	0.0	0.0	0.0	0.0
Unnao	765	763	07:33	729	19:17	0.0	15.8	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	509.07	1500.16	492.61	817.99	1370.93	880.48
Pong	426.72	384.05	421.80	975.89	413.01	600.05	875.67	506.64
Tehri	829.79	740.04	819.40	998.00	818.65	982.26	478.00	559.00
Koteshwar	612.50	598.50	608.00	4.65	NA	NA	559.00	540.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	402.33	348.68
Rihand	268.22	252.98	259.32	268.30	261.52	390.05	NA	NA
RPS	352.80	343.81	352.03	NA	NA	NA	NA	38.06
Jawahar Sagar	298.70	295.78	297.48	NA	NA	NA	NA	243.27
RSD	527.91	487.91	524.27	144.00	505.63	144.00	539.86	409.77

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.08.2013 :

1. NORMAL

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 :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 24.08.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER