

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.08.2011
Date of Reporting : 30.08.2011

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
35607	2516	38123	49.88	33777	650	34427	50.15	806.7	29.95

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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	47.89	13.89		61.78	110.71	108.55	-2.16	170.33	1.80
Haryana	63.13	0.81		63.94	52.17	55.71	3.54	119.65	2.31
Rajasthan	67.11	1.79	5.27	74.17	39.85	41.52	1.67	115.69	0.06
Delhi	26.65			26.65	70.14	67.80	-2.33	94.46	0.03
UP	52.00	16.58	0.00	68.58	149.07	155.17	6.10	223.75	25.55
Uttarakhand		20.42		20.42	12.22	8.83	-3.39	29.25	0.18
HP		22.81		22.81	-2.86	-1.97	0.89	20.85	0.03
J & K		14.63	0.00	14.63	15.26	12.73	-2.53	27.36	0.00
Chandigarh				0.00	6.08	5.42	-0.67	5.42	0.00
Total	256.78	90.93	5.27	352.98	452.63	453.76	1.13	806.74	29.95

* Shortage furnished by the respective constituent.

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	
Punjab	7388	450	47	1855	7183	0	-62	1927	44.88
Haryana	5306	716	190	463	4864	0	51	434	10.51
Rajasthan	4777	0	-66	-283	4953	0	104	-272	-6.59
Delhi	4310	0	-122	553	3480	0	-330	546	13.24
UP	9854	1350	637	1727	10412	650	991	1727	41.45
Uttarakhand	1426	0	-85	-100	1112	0	-92	-100	-2.40
HP	1011	0	142	-1855	702	0	-96	-1860	-43.70
J&K	1278	0	-79	-375	891	0	-284	-375	-9.24
Chandigarh	257	0	-17	54	180	0	-40	54	1.54
Total	35607	2516	647	2039	33777	650	242	2081	49.68

* 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	1855	2014	1916	44.45	1852	44.10	0.35
	Rihand I STPS	1000	930	1018	985	22.13	922	22.06	0.08
	Rihand II STPS	1000	480	523	490	11.45	477	11.38	0.06
	Dadri I STPS	840	596	654	635	12.85	536	13.36	-0.50
	Dadri II STPS	980	970	1027	1020	21.78	908	22.31	-0.53
	Unchahar I TPS	440	306	384	323	7.38	307	7.14	0.24
	Unchahar II TPS	440	306	397	314	7.35	306	6.97	0.39
	Unchahar III TPS	210	156	201	164	3.68	153	3.60	0.08
	ISTPP (Jhajjar)	500	309	331	183	5.57	232	5.84	-0.27
	Dadri GPS	830	775	727	527	13.51	563	13.96	-0.45
	Anta GPS	419	390	253	253	5.89	245	6.65	-0.77
	Auraiya GPS	663	607	458	441	10.27	428	10.38	-0.12
	Sub Total (A)	9322	7681	7987	7251	166.31	6929	167.75	-1.45
	B. NPC	NAPS	440	187	218	217	4.40	183	4.49
RAPS- B		440	191	216	219	4.56	190	4.58	-0.03
RAPS- C		440	420	467	473	10.12	422	10.08	0.04
Sub Total (B)		1320	798	901	909	19.08	795	19.15	-0.08
C. NHPC	Chamera I HPS	540	534	540	540	12.79	533	12.82	-0.02
	Chamera II HPS	300	297	302	301	7.15	298	7.22	-0.07
	Bairasui HPS	180	179	179	70	2.52	105	2.39	0.13
	Salal-HPS	690	622	625	625	14.71	613	14.92	-0.21
	Tanakpur-HPS	94	90	94	95	2.25	94	2.24	0.01
	Uri-HPS	480	260	360	240	6.97	290	6.25	0.72
	Dhauliganga-HPS	280	277	279	277	6.64	277	6.75	-0.11
	Dulhasti-HPS	390	259	279	215	6.23	259	6.19	0.03
	Sewa-II HPS	120	100	123	121	2.36	98	2.47	-0.11
	Sub Total (C)	3074	2618	2781	2484	61.61	2567	61.24	0.37
D.NJPC	Nathpa Jhakri	1500	1600	1625	1616	38.54	1606	38.40	0.14
	Sub Total (D)	1500	1600	1625	1616	38.54	1606	38.40	0.14
E. THDC	Tehri HPS	1000	1060	1055	1040	24.86	1036	24.75	0.11
	Koteshwar HPS	100	94	95	94	2.22	92	2.26	-0.04
	Sub Total (E)	1100	1154	1150	1134	27.08	1128	27.01	0.07
F. BBMB	Bhakra HPS	1480	1218	1259	1259	29.84	1243	29.24	0.60
	Dehar HPS	990	605	825	600	14.92	622	14.53	0.39
	Pong HPS	396	354	366	366	8.86	369	8.50	0.36
	Sub Total (F)	2866	2178	2450	2225	53.62	2234	52.26	1.36
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	114	99	2.50	104	3.30	-0.80
	KWHEP HPS(IPP)	500	0	650	650	12.51	521	14.40	-1.88
	Malana Stg-II HPS	50	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	0	0	0.00	0	0.00	0.00
	Sub Total (G)	892	0	764	749	15.01	625	17.70	-2.69
H. Total Regional Entities (A-G)	20075	16028	17658	16368	381.24	15885	383.51	-2.28	

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	1250.00	1110.00	26.65	1110
	Guru Nanak Dev TPS(Bhatinda)	440	296.00	228.00	5.91	246
	Guru Hargobind Singh TPS(L.mbt)	920	688.00	790.00	15.34	639
	Thermal (Total)	2620	2234.00	2128.00	47.89	1995
	Total Hydro	1148	702.00	535.00	13.89	579
	Total Punjab	3768	2936	2663	61.78	2574
Haryana	Panipat TPS	1360	1148.00	1155.00	27.65	1152
	DCRTPP (Yamuna nagar)	600	567.00	571.00	12.82	534
	Faridabad GPS (NTPC)	432	396.00	301.00	8.66	361
	RGTPP (khedar) (IPP)	1200	518.00	627.00	14.00	583
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0
	Thermal (Total)	3617	2629.00	2654.00	63.13	2630
	Total Hydro	62	31.00	29.00	0.81	34
	Total Haryana	3679	2660	2683	63.94	2664
Rajasthan	kota TPS	1240	968.00	950.00	22.00	917
	suratgarh TPS	1500	1121.00	1166.00	25.37	1057
	Chabra TPS	500	228.00	223.00	5.17	215
	Dholpur GPS	330	271.00	246.00	6.27	261
	Ramgarh GPS	113	62.00	62.00	1.59	66
	RAPS A (NPC)	300	183.00	161.00	4.43	185
	Barsingsar (NLC)	250	47.00	47.00	1.22	51
	Giral LTPS (IPP)	250	47.00	62.00	1.05	44
	Rajwest LTPS (IPP)	135	0.00	0.00	0.00	0
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0
	Thermal (Total)	4753	2927.00	2917.00	67.11	2796
	Total Hydro	550	45.00	89.00	1.79	74
	Wind power	1294	241.00	89.00	4.88	203
	Biomass	71	22.00	22.00	0.39	16
	Renewable/Others (Total)	1365	263	111	5.27	220
	Total Rajasthan	6668	3235	3117	74.17	3090
	UP	Anpara TPS	1630	921	762	18.90
Obra TPS		1442	453	471	9.70	404
Paricha TPS		640	341	387	8.40	350
Panki TPS		210	65	66	1.30	54
Harduaganj TPS		375	0	0	0.00	0
Tanda TPS (NTPC)		440	294	268	7.00	292
Roza TPS (IPP)		600	297	261	6.70	279
Anpara-C (IPP)		600	0	0	0.00	0
Thermal (Total)		5937	2371	2215	52.00	2167
Vishnuparyag HPS (IPP)		400	436	436	10.39	433
Other Hydro		527	273	0	6.20	258
Cogeneration		951	0	0	0.00	0
Total UP		7815	3080	2651	68.58	2425
Uttarakhand	Total Hydro	1303	979	694	20.42	851
	Total Uttarakhand	1303	979	694	20.42	851
Delhi	Rajghat TPS	135	106	105	2.77	115
	Delhi Gas Turbine	282	149	151	3.50	146
	Pragati Gas Turbine	330	292	299	7.21	300
	Rithala GPS	108	48	29	1.18	49
	Bawana GPS	440	0	0	0.00	0
	Badarpur TPS (NTPC)	705	590	550	12.00	500
	Thermal (Total)	2000	1185	1134	26.65	1111
Total Delhi	2000	1185	1134	26.65	1111	
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	101	102	87	2.04	85
	Other Hydro	571	569	546	12.86	536
	Total HP	1002	1001	963	23	951
J & K	Baglihar HPS (IPP)	450	437	437	10.51	438
	Other Hydro	323	184	169	4.13	172
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	621	606	14.63	610
Total State Control Area Generation		27191	15697	14511	352.98	14275
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3859	3612	90.08	3753
Total Regional Availability(Gross)		47266	37214	34491	824.30	33913

IV. Total Hydro Generation:

Regional Entities Hydro	9433	8770	8208	195.86	8161
State Control Area Hydro	5365	3652	2916	80.55	3356
Total Regional Hydro	14797	12422	11124	276.40	11517

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	400	500	500	0	11.45	0.00	11.45
Gwalior-Agra (D/C)	1119	1103	1435	0	27.44	0.00	27.44
Zerda-Kankroli	224	196	307	70	4.57	0.00	4.57
Zerda-Bhinmal	304	272	393	0	5.97	0.00	5.97
Malanpur-Auraiya	21	83	107	0	1.14	0.00	1.14
Badod-Kota/Morak	79	0	142	0	1.17	0.00	1.17
Sub Total WR	2147	2154			51.74	0.00	51.74
Pusauli Bypass	100	-136	250	184	1.43	1.36	0.07
MZP- GKP (D/C)	740	830	972	0	18.87	0.00	18.87
Patna-Balia(D/C)	272	440	526	0	7.93	0.00	7.93
B'Sharif-Balia (D/C)	202	197	284	0	5.07	0.00	5.07
Barh-Balia (D/C)	301	0	338	0	3.00	0.00	3.00
Pusauli-Sahupuri	132	157	175	0	3.99	0.00	3.99
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-35	-30	0	35	0.00	0.60	-0.60
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1712	1458			40.30	1.96	38.34
Total IR Exch	3859	3612			92.04	1.96	90.08

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
16.99	3.52	20.51	18.23	31.88	2.93	9.96	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
41.67	41.14	82.81	38.34	51.74	90.08	-3.33	10.60	7.27

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

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7 - 50.2	> 50.00	> 50.2
0.00	0.10	0.30	1.00	5.00	94.10	90.10	43.40	4.90

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.42	8.03	48.96	19.02	49.96	0.27	0.16	50.34	49.74

VII. Voltage profile

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	07:19	400	01:30	0.0	0.0	0.0	0.0
Gorakhpur	400	437	07:38	411	01:36	0.0	0.0	35.2	3.8
Bareilly	400	422	08:00	393	12:43	0.0	0.0	0.2	0.0
Kanpur	400	419	09:00	397	13:47	0.0	0.0	0.0	0.0
Dadri	400	412	06:56	393	14:38	0.0	0.0	0.0	0.0
Ballabgarh	400	418	07:01	396	13:52	0.0	0.0	0.0	0.0
Bawana	400	415	07:03	395	14:36	0.0	0.0	0.0	0.0
Bassi	400	426	17:58	400	14:18	0.0	0.0	15.7	0.0
Hissar	400	412	08:02	394	13:51	0.0	0.0	0.0	0.0
Moga	400	420	08:02	402	14:37	0.0	0.0	0.0	0.0
Abdullapur	400	412	08:02	395	14:37	0.0	0.0	0.0	0.0
Nalagarh	400	410	04:00	395	15:00	0.0	0.0	0.0	0.0
Kishenpur	400	415	03:32	396	19:01	0.0	0.0	0.0	0.0
Wagoora	400	411	00:05	387	19:31	0.0	4.7	0.0	0.0

VIII. 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	510.18	1560.04	510.88	1590.18	1216.52	913.44
Pong	426.72	384.05	421.91	975.89	421.26	946.20	998.20	497.26
Tehri	829.79	740.04	817.90	962.25	NA	NA	611.33	556.00
Koteswar	612.50	598.50	607.90	3.54	NA	NA	661.00	149.00
Chamera-I	760.00	748.75	757.46	12.91	757.00	NA	359.74	346.54
Rihand	268.22	252.98	263.68	524.00	256.79	149.00	NA	NA
RPS	352.80	343.81	348.45	NA	348.36	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.48	NA	297.82	NA	36.27	0.00
RSD	527.91	487.91	521.88	NA	521.97	NA	391.68	163.56

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.08.2011 :

1. Hot & Humid Weather in NR.

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.08.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER