

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.07.2011
Date of Reporting : 30.07.2011

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
36364	1407	37771	49.76	34347	0	34347	50.10	829.9	20.05

* 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		Actual Drawal		UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others	Total	(Net MU)	(Net MU)	(Net MU)	(Net MU)	(MU)	Shortages *
Punjab	50.81	21.28		72.09	108.83	112.21	3.38	184.30	1.80	
Haryana	62.12	0.84		62.97	70.90	69.85	-1.05	132.82	1.82	
Rajasthan	67.72	0.00	10.47	78.19	41.65	43.63	1.98	121.82	0.00	
Delhi	24.09			24.09	79.61	69.19	-10.42	93.27	0.04	
UP	56.93	13.21	1.20	71.35	145.62	145.22	-0.40	216.56	16.39	
Uttarakhand		18.99		18.99	9.45	7.22	-2.23	26.22	0.00	
HP		23.93		23.93	-0.54	-0.50	0.04	23.44	0.00	
J & K		14.54	0.00	14.54	12.45	11.60	-0.86	26.14	0.00	
Chandigarh				0.00	6.43	5.33	-1.10	5.33	0.00	
Total	261.67	92.80	11.67	366.14	474.41	463.75	-10.66	829.89	20.05	

* 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				UI [OD:(+ve), UD:(-ve)]	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	Day Energy MU	
Punjab	8006	150	90	1997	8076	0	298	2411	52.18	
Haryana	5969	97	369	1157	5441	0	-107	1156	26.76	
Rajasthan	5418	0	484	-50	4708	0	-189	-236	-4.38	
Delhi	4347	0	-324	285	3328	0	-627	-14	6.80	
UP	8873	1160	-64	1763	9843	0	369	2363	47.09	
Uttarakhand	1291	0	3	-151	1064	0	-198	-151	-3.62	
HP	935	0	-54	-1712	861	0	-92	-1729	-41.19	
J&K	1274	0	25	-597	829	0	-204	-597	-14.57	
Chandigarh	251	0	-16	32	197	0	-68	19	0.97	
Total	36364	1407	513	2722	34347	0	-818	3222	70.04	

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	UI [OG:(+ve), UG:(-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1910	2056	2072	46.24	1927	45.84	0.40
Rihand I STPS	1000	960	1045	1048	23.18	966	23.04	0.14
Rihand II STPS	1000	965	1034	1039	23.34	972	23.13	0.21
Dadri I STPS	840	800	859	591	16.74	698	16.17	0.58
Dadri II STPS	980	960	1007	960	21.52	897	22.14	-0.63
Unchahar I TPS	440	394	426	417	9.33	389	9.31	0.02
Unchahar II TPS	440	393	433	395	9.21	384	9.10	0.11
Unchahar III TPS	210	197	215	197	4.60	192	4.55	0.05
I-STPP (Jhajjar)	500	470	419	401	8.28	345	11.23	-2.95
Dadri GPS	830	589	570	426	11.39	475	11.42	-0.03
Anta GPS	419	390	395	264	7.46	311	7.27	0.19
Auraiya GPS	663	610	457	452	10.61	442	10.51	0.10
Sub Total (A)	9322	8637	8916	8262	191.89	7995	193.72	-1.83
B. NPC								
NAPS	440	186	222	225	4.48	187	4.46	0.02
RAPS- B	440	375	420	427	9.10	379	9.00	0.10
RAPS- C	440	420	475	475	10.23	426	10.08	0.15
Sub Total (B)	1320	981	1117	1127	23.81	992	23.54	0.26
C. NHPC								
Chamera I HPS	540	534	540	540	12.86	536	12.82	0.04
Chamera II HPS	300	297	301	299	7.16	298	7.01	0.15
Bairasui HPS	180	179	179	120	2.53	105	2.80	-0.27
Salal-HPS	690	631	631	631	15.18	632	15.13	0.04
Tanakpur-HPS	94	83	94	93	2.01	84	2.01	0.00
Uri-HPS	480	301	460	240	7.28	303	6.84	0.44
Dhauliganga-HPS	280	277	281	276	6.55	273	6.49	0.06
Dulhasti-HPS	390	387	407	382	9.18	382	9.27	-0.10
Sewa-II HPS	120	119	120	0	0.96	40	0.91	0.05
Sub Total (C)	3074	2807	3013	2581	63.69	2654	63.28	0.41
D. NJPC								
Nathpa Jhakri	1500	1600	1619	1615	38.50	1604	38.40	0.10
Sub Total (D)	1500	1600	1619	1615	38.50	1604	38.40	0.10
E. THDC								
Tehri HPS	1000	830	831	825	19.79	825	19.60	0.19
Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
Sub Total (E)	1100	830	831	825	19.79	825	19.60	0.19
F. BBMB								
Bhakra HPS	1480	972	1075	967	23.89	995	23.33	0.56
Dehar HPS	990	378	330	495	9.18	383	9.08	0.10
Pong HPS	396	297	366	246	7.39	308	7.14	0.25
Sub Total (F)	2866	1648	1771	1708	40.46	1686	39.55	0.91
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	194	143	3.65	152	3.36	0.29
KWHEP HPS(IPP)	500	0	600	600	12.96	540	14.25	-1.29
Sub Total (G)	692	0	794	743	16.61	692	17.61	-1.00
H. Total Regional Entities (A-G)	19875	16504	18061	16861	394.75	16448	395.70	-0.95

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	1117.00	1045.00	23.71	988	
	Guru Nanak Dev TPS(Bhatinda)	440	295.00	295.00	6.27	261	
	Guru Hargobind Singh TPS(L.mbt)	920	943.00	940.00	20.83	868	
	Thermal (Total)	2620	2355.00	2280.00	50.81	2117	
	Total Hydro	1148	1118.00	758.00	21.28	887	
	Total Punjab	3768	3473	3038	72.09	3004	
Haryana	Panipat TPS	1360	910.00	935.00	22.14	922	
	DCRTPP (Yamuna nagar)	600	476.00	445.00	10.05	419	
	Faridabad GPS (NTPC)	432	392.00	320.00	8.79	366	
	RGTPP (khedar) (IPP)	1200	777.00	879.00	21.15	881	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2555.00	2579.00	62.12	2588	
	Total Hydro	62	26.00	38.00	0.84	35	
		Total Haryana	3679	2581	2617	62.97	2624
Rajasthan	kota TPS	1240	950.00	932.00	22.09	920	
	suratgarh TPS	1500	1120.00	1115.00	26.50	1104	
	Chabra TPS	500	222.00	212.00	5.13	214	
	Dholpur GPS	330	282.00	280.00	6.70	279	
	Ramgarh GPS	113	65.00	65.00	1.62	68	
	RAPS A (NPC)	300	173.00	175.00	4.30	179	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	45.00	60.00	1.39	58	
	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	2857.00	2839.00	67.72	2822	
	Total Hydro	550	0.00	0.00	0.00	0	
	Wind power	1294	306.00	472.00	9.79	408	
	Biomass	71	29.00	29.00	0.67	28	
	Renewable/Others (Total)	1365	335	501	10.47	436	
		Total Rajasthan	6668	3192	3340	78.19	3258
	UP	Anpara TPS	1630	967	969	20.90	871
Obra TPS		1442	317	315	6.80	283	
Paricha TPS		640	387	411	8.60	358	
Panki TPS		210	65	62	1.40	58	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	293	257	6.61	276	
Roza TPS (IPP)		600	554	549	12.62	526	
Thermal (Total)		5337	2583	2563	56.93	2372	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	89	28	2.76	115	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3158	3077	71.35	2537
Uttarakhand		Total Hydro	1303	874	863	18.99	791
	Total Uttarakhand	1303	874	863	18.99	791	
Delhi	Rajghat TPS	135	102	99	2.52	105	
	Delhi Gas Turbine	282	145	144	3.64	152	
	Praqati Gas Turbine	330	143	146	3.70	154	
	Rithala GPS	108	35	29	0.90	37	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	555	470	13.33	555	
	Thermal (Total)	2000	980	888	24.09	1004	
		Total Delhi	2000	980	888	24.09	1004
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	106	105	2.51	105	
	Other Hydro	571	572	549	13.50	563	
		Total HP	1002	1008	984	23.93	997
J & K	Baglihar HPS (IPP)	450	437	437	10.49	437	
	Other Hydro	323	164	185	4.05	169	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	601	622	14.54	606
Total State Control Area Generation		26591	15867	15429	366.14	14820	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3928	3280	83.40	3475	
Total Regional Availability(Gross)		46466	37856	35570	844.29	34743	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	8028	7472	179.06	7461
State Control Area Hydro	5365	3716	3293	82.35	3431
Total Regional Hydro	14597	11744	10765	261.41	10892

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	300	300	0	4.16	0.00	4.16
Gwalior-Agra (D/C)	917	921	1245	0	24.03	0.00	24.03
Zerda-Kankroli	154	0	225	0	1.77	0.00	1.77
Zerda-Bhinmal	227	119	369	0	4.09	0.00	4.09
Malanpur-Auraiya	27	2	45	10	0.06	0.00	0.06
Badod-Kota/Morak	40	11	66	30	0.73	0.00	0.73
Sub Total WR	1425	1342			34.10	0.00	34.10
Pusauli Bypass	246	19	246	143	2.57	0.34	2.23
MZP- GKP (D/C)	1090	1000	1194	0	22.76	0.00	22.76
Patna-Balia(D/C)	683	495	765	0	13.58	0.00	13.58
B'Sharif-Balia (D/C)	365	283	725	0	7.29	0.00	7.29
Pusauli-Sahupuri	155	173	178	0	4.23	0.00	4.23
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.80	-0.80
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2503	1938			50.44	1.14	49.30
Total IR Exch	3928	3280			84.54	1.14	83.40

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
26.51	3.79	30.30	25.44	32.24	1.40	5.71	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
57.14	37.55	94.69	49.30	34.10	83.40	-7.84	-3.45	-11.29

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	0.00	0.00	2.10	16.90	96.40	81.60	20.70	1.50

<----- 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				
50.30	7.26	49.40	20.10	49.86	0.47	0.17	50.27	49.67

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	407	07:29	397	23:05	0.0	0.0	0.0	0.0
Gorakhpur	400	438	06:04	403	22:26	0.0	0.0	57.4	7.6
Bareilly	400	425	08:00	393	23:12	0.0	0.0	3.7	0.0
Kanpur	400	420	09:00	397	23:12	0.0	0.0	0.0	0.0
Dadri	400	412	06:01	395	23:13	0.0	0.0	0.0	0.0
Ballabgarh	400	419	06:03	397	14:20	0.0	0.0	0.0	0.0
Bawana	400	414	06:03	393	23:13	0.0	0.0	0.0	0.0
Bassi	400	426	06:02	404	12:48	0.0	0.0	30.9	0.0
Hissar	400	409	07:06	392	14:23	0.0	0.0	0.0	0.0
Moga	400	415	07:04	399	14:23	0.0	0.0	0.0	0.0
Abdullapur	400	412	06:03	396	15:00	0.0	0.0	0.0	0.0
Nalagarh	400	412	06:01	399	15:36	0.0	0.0	0.0	0.0
Kishenpur	400	417	06:02	401	20:06	0.0	0.0	0.0	0.0
Wagoora	400	412	04:01	380	21:00	28.4	28.4	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	497.97	1018.16	490.20	738.95	1491.11	760.90
Pong	426.72	384.05	414.65	656.23	400.60	230.85	1047.86	450.78
Tehri	829.79	740.04	783.10	358.90	NA	NA	749.51	533.00
Koteswar	612.50	598.50	605.90	2.57	NA	NA	533.00	0.00
Chamera-I	760.00	748.75	755.10	12.10	754.97	NA	359.37	348.82
Rihand	268.22	252.98	258.74	237.90	255.79	107.70	NA	NA
RPS	352.80	343.81	345.94	NA	NA	NA	0.00	0.00
Jawahar Sagar	298.70	295.78	297.03	NA	NA	NA	0.00	0.00
RSD	527.91	487.91	508.95	NA	510.70	NA	342.12	399.12

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.07.2011 :

1 : Rains in Rajasthan , Haryana , HP,J&K.

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 : 29.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER