

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.07.2011
Date of Reporting : 26.07.2011

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
34362	4312	38674	49.39	34428	886	35314	49.83	827.7	54.64

* 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)	UI [OD:(+ve), UD:(-ve)]	
	Thermal	Hydro	Renewable/others	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	53.71	21.82		75.53	110.73	106.41	-4.32	181.94	9.77
Haryana	60.50	1.13		61.63	70.28	72.72	2.43	134.34	4.14
Rajasthan	67.78	0.76	4.31	72.85	38.51	48.19	9.68	121.04	8.81
Delhi	23.90			23.90	76.51	68.54	-7.97	92.44	0.03
UP	66.41	16.93	1.20	84.54	133.65	140.96	7.31	225.51	25.70
Uttarakhand		16.76		16.76	8.21	11.22	3.01	27.98	1.10
HP		19.43		19.43	-13.15	-2.54	10.60	16.89	0.00
J & K		14.66	0.00	14.66	8.59	7.70	-0.88	22.36	5.10
Chandigarh				0.00	6.36	5.20	-1.16	5.20	0.00
Total	272.30	91.49	5.51	369.30	439.69	458.39	18.70	827.69	54.64

* 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	7716	793	-222	1999	7737	0	-193	2438	55.55
Haryana	5742	415	-13	1167	5596	0	210	1175	25.09
Rajasthan	4693	1021	110	-327	5178	236	620	-160	-5.18
Delhi	4173	0	-110	406	3454	0	-211	216	9.34
UP	8886	1645	5	1763	9696	650	364	1763	42.30
Uttarakhand	1154	210	213	-151	1068	0	-66	-151	-3.62
HP	607	228	413	-1648	790	0	396	-1725	-40.82
J&K	1142	0	16	-597	735	0	-233	-590	-14.53
Chandigarh	249	0	-32	54	174	0	-29	54	1.54
Total	34362	4312	380	2665	34428	886	858	3020	69.67

* 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	1757	2004	1841	42.71	1779	42.16	0.55
Rihand I STPS	1000	924	1053	957	22.51	938	22.12	0.39
Rihand II STPS	1000	965	1037	1040	23.46	977	23.13	0.33
Dadri I STPS	840	800	802	871	19.10	796	18.46	0.64
Dadri II STPS	980	923	867	897	22.14	922	21.64	0.50
Unchahar I TPS	440	340	434	432	8.19	341	8.15	0.04
Unchahar II TPS	440	374	424	428	9.03	376	8.93	0.10
Unchahar III TPS	210	196	217	216	4.73	197	4.68	0.05
I-STPP (Jhajjar)	500	470	484	457	9.68	403	11.19	-1.51
Dadri GPS	830	555	567	573	13.13	547	13.08	0.05
Anta GPS	419	391	384	390	9.06	378	9.08	-0.02
Auraiya GPS	663	607	612	469	13.69	570	13.79	-0.10
Sub Total (A)	9322	8302	8885	8571	197.42	8226	196.40	1.02
B. NPC								
NAPS	440	185	216	221	4.28	178	4.44	-0.17
RAPS- B	440	377	416	419	8.94	373	9.05	-0.11
RAPS- C	440	410	465	475	10.04	418	9.84	0.20
Sub Total (B)	1320	972	1097	1115	23.25	969	23.33	-0.08
C. NHPC								
Chamera I HPS	540	534	540	540	13.08	545	12.82	0.26
Chamera II HPS	300	297	304	303	7.24	302	7.24	-0.01
Bairasuil HPS	180	179	179	120	3.62	151	2.97	0.65
Salal-HPS	690	448	632	633	10.76	448	10.72	0.04
Tanakpur-HPS	94	66	63	63	1.52	63	1.51	0.01
Uri-HPS	480	322	360	284	7.80	325	7.53	0.27
Dhauliganga-HPS	280	277	278	283	6.70	279	6.21	0.50
Dulhasti-HPS	390	387	407	405	9.37	390	9.18	0.19
Sewa-II HPS	120	119	126	122	2.71	113	2.57	0.14
Sub Total (C)	3074	2628	2889	2753	62.81	2617	60.75	2.06
D. NJPC								
Nathpa Jhakri	1500	116	0	0	2.85	119	2.78	0.08
Sub Total (D)	1500	116	0	0	2.85	119	2.78	0.08
E. THDC								
Tehri HPS	1000	800	805	800	19.10	796	18.75	0.35
Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
Sub Total (E)	1100	800	805	800	19.10	796	18.75	0.35
F. BBMB								
Bhakra HPS	1480	973	1076	968	24.03	1001	23.36	0.67
Dehar HPS	990	608	660	620	15.03	626	14.60	0.44
Pong HPS	396	294	366	246	7.36	307	7.07	0.29
Sub Total (F)	2866	1876	2102	1834	46.42	1934	45.02	1.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	231	179	5.13	214	3.36	1.77
KWHEP HPS(IPP)	500	0	0	0	0.91	38	9.17	-8.26
Sub Total (G)	692	0	231	179	6.04	252	12.53	-6.49
H. Total Regional Entities (A-G)	19875	14694	16009	15252	357.89	14912	359.55	-1.65

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	1260.00	1260.00	28.17	1174	
	Guru Nanak Dev TPS(Bhatinda)	440	272.00	211.00	4.75	198	
	Guru Hargobind Singh TPS(L.mbt)	920	945.00	939.00	20.79	866	
	Thermal (Total)	2620	2477.00	2410.00	53.71	2238	
	Total Hydro	1148	1118.00	759.00	21.82	909	
	Total Punjab	3768	3595	3169	75.53	3147	
Haryana	Panipat TPS	1360	1088.00	1183.00	28.11	1171	
	DCRTPP (Yamuna nagar)	600	451.00	401.00	10.71	446	
	Faridabad GPS (NTPC)	432	395.00	329.00	9.05	377	
	RGTPP (khedar) (IPP)	1200	738.00	414.00	12.63	526	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2672.00	2327.00	60.50	2521	
	Total Hydro	62	40.00	45.00	1.13	47	
		Total Haryana	3679	2712	2372	61.63	2568
Rajasthan	kota TPS	1240	965.00	961.00	22.92	955	
	suratgarh TPS	1500	1092.00	1105.00	26.87	1120	
	Chabra TPS	500	175.00	221.00	5.22	218	
	Dholpur GPS	330	273.00	270.00	6.64	277	
	Ramgarh GPS	113	65.00	64.00	1.51	63	
	RAPS A (NPC)	300	173.00	186.00	4.30	179	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	42.00	0.00	0.32	13	
	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	2785.00	2807.00	67.78	2824	
	Total Hydro	550	7.00	0.00	0.76	32	
	Wind power	1294	230.00	131.00	3.59	150	
	Biomass	71	31.00	31.00	0.71	30	
	Renewable/Others (Total)	1365	261	162	4.31	179	
		Total Rajasthan	6668	3053	2969	72.85	3036
	UP	Anpara TPS	1630	1518	1459	32.50	1354
Obra TPS		1442	379	198	6.10	254	
Paricha TPS		640	387	380	8.30	346	
Panki TPS		210	70	65	1.40	58	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	201	198	4.91	205	
Roza TPS (IPP)		600	550	550	13.20	550	
Thermal (Total)		5337	3105	2850	66.41	2767	
Vishnuparyag HPS (IPP)		400	436	435	10.99	458	
Other Hydro		527	170	60	5.94	248	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3761	3395	84.54	3065
Uttarakhand		Total Hydro	1303	554	840	16.76	698
	Total Uttarakhand	1303	554	840	16.76	698	
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	149	109	3.23	135	
	Praagati Gas Turbine	330	298	298	7.19	299	
	Rithala GPS	108	34	29	0.88	37	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	575	550	12.59	525	
	Thermal (Total)	2000	1056	986	23.90	996	
	Total Delhi	2000	1056	986	23.90	996	
HP	Baspa HPS (IPP)	330	222	333	5.22	217	
	Malana HPS (IPP)	101	106	105	2.53	105	
	Other Hydro	571	419	568	11.69	487	
		Total HP	1002	747	1006	19.43	810
J & K	Baglihar HPS (IPP)	450	437	438	10.48	437	
	Other Hydro	323	168	170	4.18	174	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	605	608	14.66	611
Total State Control Area Generation		26591	16083	15345	369.30	14929	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3884	4734	108.92	4538	
Total Regional Availability(Gross)		46466	35976	35331	836.10	34380	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	6027	5566	137.22	5717
State Control Area Hydro	5365	3241	3318	80.50	3354
Total Regional Hydro	14597	9268	8884	217.72	9072

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	400	500	0	9.72	0.00	9.72
Gwalior-Agra (D/C)	925	1100	1364	0	27.10	0.00	27.10
Zerda-Kankroli	65	122	324	11	1.76	0.00	1.76
Zerda-Bhinmal	113	241	442	0	5.41	0.00	5.41
Malanpur-Auraiya	-48	12	48	72	0.00	0.24	-0.24
Badod-Kota/Morak	60	182	182	0	2.83	0.00	2.83
Sub Total WR	1455	1875			43.99	0.24	43.75
Pusaui Bypass	160	50	215	107	2.28	0.11	2.17
MZP- GKP (D/C)	1064	1424	1562	0	30.29	0.00	30.29
Patna-Balia(D/C)	546	775	853	0	17.14	0.00	17.14
B'Sharif-Balia (D/C)	545	487	840	0	12.48	0.00	12.48
Pusaui-Sahupuri	150	155	180	0	3.88	0.00	3.88
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	2429	2859			66.07	0.91	65.16
Total IR Exch	3884	4734			110.06	1.14	108.92

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
0.00	0.00	0.00	65.16	43.75	108.92	65.16	43.75	108.92

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	1.00	2.30	18.10	59.50	82.70	80.40	1.50	0.20

<----- 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				
50.24	18.04	48.81	19.43	49.65	1.59	0.19	50.06	49.35

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	404	07:27	395	23:07	0.0	0.0	0.0	0.0
Gorakhpur	400	430	19:54	393	05:51	0.0	0.0	15.8	0.0
Bareilly	400	414	08:00	391	12:17	0.0	0.0	0.0	0.0
Kanpur	400	409	09:00	387	23:12	0.0	3.0	0.0	0.0
Dadri	400	405	07:19	388	23:34	0.0	1.4	0.0	0.0
Ballabgarh	400	409	07:15	390	23:10	0.0	0.0	0.0	0.0
Bawana	400	410	07:27	390	23:39	0.0	0.0	0.0	0.0
Bassi	400	418	18:49	394	23:12	0.0	0.0	0.0	0.0
Hissar	400	404	07:18	389	23:10	0.0	0.3	0.0	0.0
Moga	400	411	19:31	395	22:09	0.0	0.0	0.0	0.0
Abdullapur	400	414	03:28	399	00:15	0.0	0.0	0.0	0.0
Nalagarh	400	422	03:52	403	00:16	0.0	0.0	7.9	0.0
Kishenpur	400	415	04:02	402	22:06	0.0	0.0	0.0	0.0
Wagoora	400	409	03:20	388	20:30	0.0	1.2	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	494.15	869.36	483.78	552.50	1496.54	763.31
Pong	426.72	384.05	413.25	611.20	397.67	174.24	1031.98	453.41
Tehri	829.79	740.04	777.00	297.05	NA	NA	793.10	525.00
Koteswar	612.50	598.50	605.00	2.46	NA	NA	525.00	NA
Chamera-I	760.00	748.75	756.84	12.91	756.50	NA	342.76	349.80
Rihand	268.22	252.98	258.47	168.50	255.09	NA	NA	NA
RPS	352.80	343.81	345.65	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.03	NA	NA	NA	NA	67.90
RSD	527.91	487.91	509.40	NA	505.92	NA	476.03	335.70

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.07.2011 :

1 : Cloudy 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 : 25.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER