

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.07.2011
Date of Reporting : 31.07.2011

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
36643	2428	39071	49.81	35694	13	35707	49.93	849.4	22.77

* 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)	(Net MU)	(MU)
Punjab	54.30	22.16		76.46	114.98	114.35	-0.63	190.81	7.07	
Haryana	62.87	0.90		63.77	72.84	71.72	-1.12	135.48	0.54	
Rajasthan	69.61	0.31	8.18	78.10	34.74	45.82	11.08	123.92	0.16	
Delhi	25.55			25.55	79.30	68.49	-10.81	94.04	0.07	
UP	58.45	13.59	1.20	73.24	150.67	147.14	-3.53	220.38	14.89	
Uttarakhand		21.12		21.12	9.65	6.89	-2.76	28.00	0.04	
HP		23.99		23.99	-0.62	0.10	0.72	24.09	0.00	
J & K		14.55	0.00	14.55	13.01	12.92	-0.09	27.47	0.00	
Chandigarh				0.00	6.27	5.25	-1.02	5.25	0.00	
Total	270.78	96.62	9.38	376.78	480.84	472.67	-8.17	849.44	22.77	

* 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	8382	885	109	1998	7784	0	-300	2445	54.71	
Haryana	6051	179	168	1161	5579	0	12	1171	27.17	
Rajasthan	5062	16	125	-67	5202	0	249	-622	-12.46	
Delhi	4298	3	-66	234	3588	13	-363	6	7.35	
UP	8988	1345	-121	1763	10550	0	790	2363	47.50	
Uttarakhand	1356	0	48	-151	1020	0	-260	-151	-3.62	
HP	928	0	-64	-1712	864	0	-104	-1729	-41.19	
J&K	1331	0	63	-592	923	0	-135	-585	-14.39	
Chandigarh	247	0	-23	29	184	0	-48	11	1.04	
Total	36643	2428	239	2663	35694	13	-159	2910	66.10	

* 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)	UI [OG:(+ve), UG:(-ve)]	
								Schedule Net MU	UI Net MU
A. NTPC	Singrauli STPS	2000	1910	2070	2061	46.30	1929	45.84	0.46
	Rihand I STPS	1000	960	1050	1051	22.99	958	22.80	0.19
	Rihand II STPS	1000	965	1041	1037	23.26	969	22.93	0.33
	Dadri I STPS	840	800	810	613	16.60	692	16.12	0.48
	Dadri II STPS	980	960	1026	943	21.67	903	21.98	-0.31
	Unchahar I TPS	440	398	439	436	9.59	400	9.47	0.12
	Unchahar II TPS	440	397	436	433	9.49	396	9.29	0.21
	Unchahar III TPS	210	197	216	221	4.72	197	4.63	0.09
	I-STPP (Jhajjar)	500	470	418	401	8.78	366	11.23	-2.45
	Dadri GPS	830	694	564	484	12.66	527	13.44	-0.78
	Anta GPS	419	390	393	347	7.94	331	7.89	0.04
	Auraiya GPS	663	608	463	465	10.54	439	10.86	-0.32
	Sub Total (A)	9322	8749	8926	8492	194.53	8105	196.47	-1.94
	B. NPC	NAPS	440	187	222	217	4.41	184	4.49
RAPS- B		440	380	424	425	9.14	381	9.12	0.02
RAPS- C		440	420	474	476	10.15	423	10.08	0.07
Sub Total (B)		1320	987	1120	1118	23.71	988	23.69	0.02
C. NHPC	Chamera I HPS	540	534	540	540	12.84	535	12.82	0.03
	Chamera II HPS	300	297	302	302	7.20	300	7.26	-0.07
	Bairasuil HPS	180	179	179	20	2.35	98	2.49	-0.14
	Salal-HPS	690	631	631	631	15.17	632	15.12	0.05
	Tanakpur-HPS	94	94	94	94	2.25	94	2.24	0.01
	Uri-HPS	480	302	410	261	7.31	304	6.90	0.40
	Dhauliganga-HPS	280	277	278	276	6.66	278	6.70	-0.04
	Dulhasti-HPS	390	387	409	401	9.18	382	9.35	-0.17
	Sewa-II HPS	120	119	121	0	1.20	50	1.06	0.14
	Sub Total (C)	3074	2818	2964	2525	64.15	2673	63.95	0.21
	D. NJPC	Nathpa Jhakri	1500	1600	1622	1619	38.57	1607	38.40
Sub Total (D)		1500	1600	1622	1619	38.57	1607	38.40	0.17
E. THDC	Tehri HPS	1000	841	843	802	19.91	830	19.75	0.16
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
	Sub Total (E)	1100	841	843	802	19.91	830	19.75	0.16
F. BBMB	Bhakra HPS	1480	977	1076	967	23.90	996	23.44	0.46
	Dehar HPS	990	503	660	495	12.59	525	12.08	0.51
	Ponq HPS	396	297	366	246	7.47	311	7.14	0.33
	Sub Total (F)	2866	1777	2102	1708	43.96	1832	42.66	1.30
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	195	118	3.17	132	3.55	-0.38
	KWHEP HPS(IPP)	500	0	600	600	12.96	540	14.25	-1.29
	Sub Total (G)	692	0	795	718	16.14	672	17.80	-1.67
H. Total Regional Entities (A-G)	19875	16773	18372	16982	400.97	16707	402.72	-1.75	

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	1220.00	27.16	1132	
	Guru Nanak Dev TPS(Bhatinda)	440	295.00	295.00	6.29	262	
	Guru Hargobind Singh TPS(L.mbt)	920	945.00	942.00	20.85	869	
	Thermal (Total)	2620	2490.00	2457.00	54.30	2263	
	Total Hydro	1148	1117.00	755.00	22.16	923	
	Total Punjab	3768	3607	3212	76.46	3186	
Haryana	Panipat TPS	1360	1147.00	925.00	25.57	1066	
	DCRTPP (Yamuna nagar)	600	481.00	472.00	10.79	449	
	Faridabad GPS (NTPC)	432	384.00	323.00	8.35	348	
	RGTPP (khedar) (IPP)	1200	673.00	698.00	18.16	757	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2685.00	2418.00	62.87	2619	
	Total Hydro	62	36.00	34.00	0.90	38	
		Total Haryana	3679	2721	2452	63.77	2657
Rajasthan	kota TPS	1240	945.00	947.00	22.61	942	
	suratgarh TPS	1500	1121.00	1123.00	27.43	1143	
	Chabra TPS	500	209.00	209.00	4.93	205	
	Dholpur GPS	330	287.00	265.00	6.63	276	
	Ramgarh GPS	113	65.00	65.00	1.60	67	
	RAPS A (NPC)	300	170.00	174.00	4.25	177	
	Barsingsar (NLC)	250	63.00	27.00	0.95	40	
	Giral LTPS (IPP)	250	49.00	50.00	1.22	51	
	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	2909.00	2860.00	69.61	2900	
	Total Hydro	550	0.00	0.00	0.31	13	
	Wind power	1294	207.00	697.00	7.49	312	
	Biomass	71	30.00	30.00	0.69	29	
	Renewable/Others (Total)	1365	237	727	8.18	341	
		Total Rajasthan	6668	3146	3587	78.10	3254
	UP	Anpara TPS	1630	901	888	21.60	900
Obra TPS		1442	303	293	7.30	304	
Paricha TPS		640	354	350	8.40	350	
Panki TPS		210	45	54	1.30	54	
Harduaganj TPS		375	0	0	0.00	0	
Tanda TPS (NTPC)		440	292	293	7.21	301	
Roza TPS (IPP)		600	554	548	12.64	526	
Thermal (Total)		5337	2449	2426	58.45	2435	
Vishnuparyag HPS (IPP)		400	436	436	10.45	435	
Other Hydro		527	100	31	3.14	131	
Cogeneration		951	50	50	1.20	50	
		Total UP	7215	3035	2943	73.24	2616
Uttarakhand		Total Hydro	1303	877	881	21.12	880
	Total Uttarakhand	1303	877	881	21.12	880	
Delhi	Rajghat TPS	135	0	101	1.24	52	
	Delhi Gas Turbine	282	140	143	3.51	146	
	Praagati Gas Turbine	330	289	195	6.17	257	
	Rithala GPS	108	50	29	1.06	44	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	635	615	13.58	566	
	Thermal (Total)	2000	1114	1083	25.55	1065	
		Total Delhi	2000	1114	1083	25.55	1065
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	101	105	106	2.47	103	
	Other Hydro	571	571	569	13.60	567	
		Total HP	1002	1006	1005	23.99	999
J & K	Baglihar HPS (IPP)	450	437	437	10.49	437	
	Other Hydro	323	159	185	4.06	169	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	596	622	14.55	606
Total State Control Area Generation		26591	16102	15785	376.78	15264	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3710	3730	84.99	3541	
Total Regional Availability(Gross)		46466	38184	36497	862.73	35512	

IV. Total Hydro Generation:

Regional Entities Hydro	9233	8326	7372	182.73	7614
State Control Area Hydro	5365	3732	3328	86.17	3590
Total Regional Hydro	14597	12058	10700	268.90	11204

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	200	500	0	6.47	0.00	6.47
Gwalior-Agra (D/C)	932	988	1130	0	23.70	0.00	23.70
Zerda-Kankroli	143	154	252	18	2.71	0.00	2.71
Zerda-Bhinmal	227	163	324	8	4.46	0.00	4.46
Malanpur-Auraiya	-39	6	39	70	0.00	1.85	-1.85
Badod-Kota/Morak	30	34	152	60	1.60	0.00	1.60
Sub Total WR	1663	1511			37.34	1.85	35.49
Pusauli Bypass	143	-39	320	61	2.20	0.27	1.93
MZP- GKP (D/C)	1004	1060	1284	0	24.09	0.00	24.09
Patna-Balia(D/C)	488	527	729	0	13.06	0.00	13.06
B'Sharif-Balia (D/C)	288	515	639	0	6.67	0.00	6.67
Pusauli-Sahupuri	160	188	194	0	4.50	0.00	4.50
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-36	-32	0	38	0.00	0.75	-0.75
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2047	2219			50.52	1.02	49.50
Total IR Exch	3710	3730			87.87	2.87	84.99

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
27.46	3.73	31.20	25.44	35.16	-0.51	3.44	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
56.12	38.32	94.44	49.50	35.49	84.99	-6.62	-2.83	-9.45

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	0.80	17.10	98.80	82.50	9.10	0.40

<----- 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				
50.34	18.05	49.36	19.30	49.83	0.48	0.14	50.24	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	409	07:38	394	23:14	0.0	0.0	0.0	0.0
Gorakhpur	400	436	18:16	397	23:15	0.0	0.0	43.2	8.8
Bareilly	400	422	08:00	389	23:05	0.0	0.2	0.6	0.0
Kanpur	400	417	09:00	392	23:12	0.0	0.0	0.0	0.0
Dadri	400	413	08:01	386	21:44	0.0	0.0	0.0	0.0
Ballabgarh	400	417	07:05	393	12:38	0.0	0.0	0.0	0.0
Bawana	400	413	07:05	389	14:54	0.0	0.1	0.0	0.0
Bassi	400	425	18:16	400	23:13	0.0	0.0	13.2	0.0
Hissar	400	408	08:02	387	12:27	0.0	10.2	0.0	0.0
Moga	400	412	03:59	391	13:47	0.0	0.0	0.0	0.0
Abdullapur	400	411	07:05	393	22:56	0.5	0.5	0.0	0.0
Nalagarh	400	411	03:30	394	12:28	0.0	0.0	0.0	0.0
Kishenpur	400	415	03:49	402	12:24	0.0	0.0	0.0	0.0
Wagoora	400	404	23:57	389	21:00	79.2	83.5	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	498.35	1029.80	491.15	768.41	1329.05	758.52
Pong	426.72	384.05	414.81	668.52	401.02	244.95	825.38	453.38
Tehri	829.79	740.04	784.25	371.99	NA	NA	779.94	533.00
Koteswar	612.50	598.50	605.30	2.46	NA	NA	533.00	0.00
Chamera-I	760.00	748.75	755.60	12.10	754.97	NA	312.21	348.27
Rihand	268.22	252.98	258.74	237.90	255.79	107.70	NA	NA
RPS	352.80	343.81	345.99	NA	NA	NA	246.70	0.00
Jawahar Sagar	298.70	295.78	297.33	NA	NA	NA	78.66	362.06
RSD	527.91	487.91	508.75	NA	510.68	NA	336.86	443.89

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 30.07.2011 :

1 : Scattered Rain in N R.

XII. Synchronisation of new generating units :

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

1: New ICT (125MVA) first time charged at Chhaur s/s alongwith 132kV Chhaur - Malana line at 13.00 hrs. of dt 30.07.2011.
2: 220kV Bhinmal (PG) - Bhinmal (RRVPN) first time charged at 22.22hrs of dt 30.07.2011

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 30.07.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER