

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 30.07.2012

Date of Reporting : 31.07.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
30451	4436	34888	49.77	293	1036	1329	47.52	467.8	54.36

* 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	13.95	11.04		24.99	104.56	63.07	-41.49	88.06	0.00
Haryana	14.56	0.53		15.09	57.28	28.60	-28.68	43.68	1.54
Rajasthan	33.22	1.74	18.65	53.61	36.17	28.91	-7.27	82.51	2.07
Delhi	21.03			21.03	70.12	52.15	-17.97	73.18	0.00
UP	36.03	10.11	0.70	46.85	84.63	77.22	-7.41	124.06	35.56
Uttarakhand		11.93		11.93	8.04	4.05	-4.00	15.98	3.89
HP		16.10		16.10	2.56	-0.49	-3.05	15.61	8.35
J & K		10.60	0.00	10.60	16.03	10.00	-6.03	20.60	2.96
Chandigarh				0.00	6.08	4.09	-1.98	4.09	0.00
Total	118.80	62.06	19.35	200.20	385.46	267.59	-117.87	467.79	54.36

* 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	6589	0	99	1952	0	0	-2148	2361	54.30	
Haryana	3499	181	97	999	0	35	-1000	880	23.69	
Rajasthan	4983	445	108	-121	0	0	-803	-92	0.07	
Delhi	4422	0	-79	626	293	0	-255	404	13.79	
UP	6945	3440	-57	1330	0	485	289	1428	20.54	
Uttarakhand	1161	220	37	16	0	0	-437	-6	0.04	
HP	1050	0	47	-1075	0	417	-290	-980	-22.27	
J&K	1556	150	191	-147	0	100	-670	-147	-4.15	
Chandigarh	246	0	-28	54	0	0	-236	15	1.27	
Total	30451	4436	416	3637	293	1036	-5550	3864	87.29	

* 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	909	866	0	11.01	459	21.82	-10.81
Rihand I STPS	1000	271	506	0	6.24	260	6.51	-0.27
Rihand II STPS	1000	373	787	0	8.35	348	8.95	-0.60
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	613	630	0	9.04	377	14.71	-5.68
Dadri II STPS	980	735	780	0	10.86	453	17.64	-6.77
Unchahar I TPS	420	259	362	0	4.03	168	6.21	-2.18
Unchahar II TPS	420	254	360	0	4.11	171	6.11	-1.99
Unchahar III TPS	210	128	199	0	2.18	91	3.07	-0.88
ISTPP (Jhajjar)	1000	142	215	0	2.09	87	3.25	-1.16
Dadri GPS	830	599	642	0	9.58	399	13.41	-3.83
Anta GPS	419	391	358	0	6.92	288	8.03	-1.11
Auraiya GPS	663	391	299	0	5.47	228	6.41	-0.94
Sub Total (A)	10282	5065	6004	0	79.87	3328	116.10	-36.23
B. NPC								
NAPS	440	258	296	41	5.00	208	6.19	-1.19
RAPS- B	440	145	0	0	0.49	20	3.49	-3.00
RAPS- C	440	142	0	0	0.49	20	3.40	-2.92
Sub Total (B)	1320	545	296	41	5.98	249	13.08	-7.11
C. NHPC								
Chamera I HPS	540	356	360	0	5.89	246	8.54	-2.65
Chamera II HPS	300	300	301	0	4.41	184	7.24	-2.83
Chamera III HPS	231	231	79	0	3.17	132	5.38	-2.21
Bairasuil HPS	180	182	100	0	1.55	64	1.85	-0.30
Salal-HPS	690	661	666	0	10.73	447	15.85	-5.13
Tanakpur-HPS	94	88	92	0	1.71	71	1.72	-0.01
Uri-HPS	480	395	480	0	7.70	321	9.58	-1.88
Dhauliganga-HPS	280	277	284	0	5.47	228	6.81	-1.35
Dulhasi-HPS	390	387	401	0	5.72	238	9.28	-3.57
Sewa-II HPS	120	80	81	0	0.40	17	0.63	-0.22
Sub Total (C)	3305	2956	2844	0	46.74	1948	66.89	-20.15
D.NJPC								
Nathpa Jhakri	1500	1594	1629	0	25.45	1060	38.52	-13.07
Sub Total (D)	1500	1594	1629	0	25.45	1060	38.52	-13.07
E. THDC								
Tehri HPS	1000	671	280	0	6.12	255	6.00	0.12
Koteshwar HPS	400	248	280	0	1.55	65	2.10	-0.55
Sub Total (E)	1400	918	560	0	7.67	320	8.10	-0.43
F. BBMB								
Bhakra HPS	1480	774	1233	0	15.78	658	18.58	-2.80
Dehar HPS	990	550	825	0	8.95	373	13.20	-4.25
Pong HPS	396	216	324	0	5.72	238	5.01	0.71
Sub Total (F)	2866	1540	2382	0	30.45	1269	36.78	-6.33
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	230	0	3.49	145	4.27	-0.78
KWHEP HPS(IPP)	1000	0	900	0	17.19	716	28.63	-11.44
Malana Stg-II HPS	100	0	109	0	1.34	56	1.81	-0.47
Shree Cement TPS	300	0	141	0	2.36	98	5.26	-2.90
Budhil HPS(IPP)	70	0	60	0	0.96	40		0.96
Sub Total (G)	1662	0	1440	0	25.34	1056	39.98	-14.64
H. Total Regional Entities (A-G)	22336	12618	15155	41	221.50	9229	319.45	-97.95

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	825	0	9.51	396	
	Guru Nanak Dev TPS(Bhatinda)	440	110	0	1.20	50	
	Guru Hargobind Singh TPS(L.mbt)	920	570	0	3.23	135	
	Thermal (Total)	2620	1505	0	13.95	581	
	Total Hydro	1148	808	0	11.04	460	
	Total Punjab	3768	2313	0	24.99	1041	
Haryana	Panipat TPS	1367	440	0	7.01	292	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	461	0	5.40	225	
	RGTPP (kheadar) (IPP)	1200	0	0	0.73	31	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	1.42	59	
	Thermal (Total)	4944	901	0	14.56	607	
	Total Hydro	62	21	0	0.53	22	
	Total Haryana	5006	922	0	15.09	629	
Rajasthan	kota TPS	1240	1103	0	16.18	674	
	suratgarh TPS	1500	867	0	8.11	338	
	Chabra TPS	500	197	0	3.08	128	
	Dholpur GPS	330	165	0	2.56	107	
	Ramgarh GPS	111	54	0	0.84	35	
	RAPS A (NPC)	300	0	0	0.48	20	
	Barsingsar (NLC)	250	0	0	0.22	9	
	Giral LTPS	250	0	0	0.10	4	
	Rajwest LTPS (IPP)	540	104	0	1.65	69	
	VSLLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	2490	0	33.22	1384	
	Total Hydro	550	0	0	1.74	73	
	Wind power	1843	1031	0	16.42	684	
	Biomass	91	13	0	0.30	13	
	Solar	128	0	0	0.18	8	
	Renewable/Others (Total)	2062	1044	0	18.65	777	
	Total Rajasthan	7767	3534	0	53.61	2234	
	UP	Anpara TPS	1630	590	0	7.70	321
		Obra TPS	1382	258	0	4.20	175
		Paricha TPS	890	149	0	2.60	108
Panki TPS		210	117	0	1.40	58	
Harduaganj TPS		665	32	0	0.55	23	
Tanda TPS (NTPC)		440	291	0	5.40	225	
Roza TPS (IPP)		1200	811	0	10.00	417	
Anpara-C (IPP)		1200	0	0	0.00	0	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	252	0	4.18	174	
Thermal (Total)		8067	2500	0	36.03	1501	
Vishnuparyag HPS (IPP)		400	397	0	7.30	304	
Other Hydro		527	198	0	2.82	117	
Cogeneration		981	50	0	0.70	29	
Total UP		9975	3145	0	46.85	1648	
Uttarakhand		Total Hydro	1303	809	0	11.93	497
	Total Uttarakhand	1303	809	0	11.93	497	
Delhi	Rajghat TPS	135	50	0	0.68	28	
	Delhi Gas Turbine	282	224	150	4.21	175	
	Pragati Gas Turbine	330	285	286	4.62	193	
	Rithala GPS	108	52	0	0.08	3	
	Bawana GPS	677	444	0	3.83	160	
	Badarpur TPS (NTPC)	705	615	325	7.62	318	
	Thermal (Total)	2237	1670	761	21.03	876	
	Total Delhi	2237	1670	761	21.03	876	
HP	Baspa HPS (IPP)	330	335	0	5.68	237	
	Malana HPS (IPP)	86	108	0	1.79	75	
	Other Hydro	589	484	0	8.63	360	
	Total HP	1005	927	0	16	671	
J & K	Baglihar HPS (IPP)	450	438	0	7.50	313	
	Other Hydro	323	0	210	3.10	129	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	438	210	10.60	442	
Total State Control Area Generation		32017	13758	971	200.20	8038	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3022	189	82.87	3453	
Total Regional Availability(Gross)		54353	31935	1201	504.57	20720	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8654	0	132.33	5514
State Control Area Hydro	5368	3201	210	62.06	2282
Total Regional Hydro	15731	11855	210	194.39	7796

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	500	0	500	0	8.90	0.00	8.90
Gwalior-Agra (D/C)	463	0	1008	0	12.66	0.00	12.66
Zerda-Kankroli	97	0	207	0	0.95	0.00	0.95
Zerda-Bhinmal	2	71	442	17	4.41	0.00	4.41
Malanpur-Auraiya	-6	0	0	28	0.00	0.96	-0.96
Badod-Kota/Morak	162	0	304	0	3.56	0.00	3.56
Mundra-Mohindergarh(HVDC)	603	0	604	0	7.86	0.00	7.86
Sub Total WR	1821	71			38.34	0.96	37.38
Pusauli Bypass	6	0	386	0	4.03	0.08	3.95
MZP- GKP (D/C)	554	0	1130	0	18.11	0.00	18.11
Patna-Balia(D/C)	378	0	797	0	10.40	0.00	10.40
B'Sharif-Balia (D/C)	282	0	673	0	10.58	0.00	10.58
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	0	0	90	0	0.27	0.00	0.27
Gayaa-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	26	143	169	0	3.14	0.00	3.14
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.97	-0.97
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1201	118			46.53	1.04	45.49
Total IR Exch	3022	189			84.88	2.00	82.87

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
16.50	3.47	19.97	1.32	35.84	2.25	9.23	0.00	0.05

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
23.54	55.49	79.03	45.49	37.38	82.87	21.95	-18.11	3.84

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	3.00	7.40	25.00	42.90	71.90	46.00	14.60	3.10

<----- 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				
50.92	2.36	48.81	10.32	49.70	1.92	0.32	50.21	47.52

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	420	9:42	0	2:34	59.1	59.1	0.0	0.0
Gorakhpur	400	436	13:09	398	0:18	0.0	0.0	41.1	2.6
Bareilly	400	427	12:02	0	3:49	4.7	5.7	1.9	0.0
Kanpur	400	446	5:57	0	2:40	17.1	17.1	1.1	0.0
Dadri	400	418	12:01	394	17:37	0.0	0.0	0.0	0.0
Ballabgarh	400	435	8:06	0	2:34	18.3	19.6	1.4	0.2
Bawana	400	421	8:51	0	6:40	0.4	0.9	0.1	0.0
Bassi	400	424	11:55	0	2:34	27.7	27.7	1.8	0.0
Hissar	400	420	9:57	0	3:06	15.1	15.1	0.0	0.0
Moga	400	447	9:57	0	2:34	28.0	28.0	2.0	0.4
Abdullapur	400	420	9:14	0	2:59	17.9	17.9	0.0	0.0
Nalagarh	400	421	12:02	0	2:35	17.8	17.8	0.0	0.0
Kishenpur	400	429	11:41	0	2:34	29.7	29.7	0.8	0.0
Wagoora	400	454	5:53	0	2:34	20.1	28.8	2.8	0.5

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	477.76	407.63	497.49	994.96	1110.70	664.14
Pong	426.72	384.05	394.51	116.59	414.40	656.23	535.56	365.86
Tehri	829.79	740.04	775.70	270.00	818.65	982.26	665.57	144.00
Koteshwar	612.50	598.50	600.50	0.80	NA	NA	144.00	123.00
Chamera-I	760.00	748.75	NA	7.85	NA	NA	291.36	233.31
Rihand	268.22	252.98	254.75	60.80	258.68	234.80	NA	NA
RPS	352.80	343.81	349.97	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.33	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.14	NA	509.22	NA	200.14	473.71

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

Same has been subsequently restored.

1. Major grid disturbance in NR occurred at 02.33 hrs/30.07.2012 load & Generation loss of About 35000 mw,

XI. Weather Conditions For 30.07.2012 :

1: Rains in NCR region, UP , HP , J & K , Uttranchal .

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 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 : 30.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER