

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.07.2012

Date of Reporting : 30.07.2012

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
36416	2875	39291	49.89	38140	1744	39883	49.83	873.7	63.95

* 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	51.63	17.20		68.84	113.84	127.40	13.55	196.23	15.05
Haryana	53.19	0.89		54.08	65.59	77.10	11.52	131.19	3.98
Rajasthan	78.18	0.00	27.12	105.30	51.91	40.83	-11.08	146.13	0.00
Delhi	25.14			25.14	75.86	64.48	-11.38	89.62	0.14
UP	79.04	12.30	1.20	92.54	100.00	127.81	27.82	220.35	39.59
Uttarakhand		14.43		14.43	10.85	14.41	3.55	28.84	2.25
HP		22.78		22.78	3.76	1.42	-2.34	24.20	0.01
J & K		15.18	0.00	15.18	18.70	16.46	-2.24	31.64	2.95
Chandigarh				0.00	6.29	5.46	-0.83	5.46	0.00
Total	287.17	82.78	28.32	398.28	446.79	475.37	28.58	873.65	63.95

* 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	UI
Punjab	8366	994	712	1950	8392	395	361	2451	55.88	
Haryana	5530	147	404	1057	5624	317	781	1035	25.07	
Rajasthan	5779	0	-641	-115	6383	0	-350	180	7.56	
Delhi	4024	0	-279	474	3655	82	-701	638	11.42	
UP	8655	1434	-47	1414	10299	850	2091	452	14.27	
Uttarakhand	1310	150	70	9	1283	0	-25	-5	0.01	
HP	885	0	-134	-957	908	0	-109	-981	-21.93	
J&K	1619	150	120	-157	1374	100	93	-157	-4.41	
Chandigarh	249	0	-49	39	221	0	-28	15	0.93	
Total	36416	2875	156	3714	38140	1744	2114	3628	88.80	

* 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	1795	1603	2031	43.00	1792	43.09	-0.09
Rihand I STPS	1000	447	482	493	10.74	448	10.67	0.07
Rihand II STPS	1000	940	1014	1022	22.78	949	22.47	0.30
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	769	628	828	15.26	636	16.29	-1.03
Dadri II STPS	980	803	964	700	18.69	779	18.70	0.00
Unchahar I TPS	420	340	364	375	8.12	338	8.13	-0.01
Unchahar II TPS	420	340	364	373	8.10	337	8.10	0.00
Unchahar III TPS	210	177	182	212	4.22	176	4.21	0.01
ISTPP (Jhajjar)	1000	395	370	438	8.11	338	8.06	0.05
Dadri GPS	830	570	518	542	12.28	511	12.34	-0.06
Anta GPS	419	391	405	354	8.27	345	8.17	0.10
Auraiya GPS	663	391	304	301	6.97	290	7.03	-0.07
Sub Total (A)	10282	7358	7198	7669	166.53	6939	167.26	-0.73
B. NPC								
NAPS	440	258	297	294	6.25	260	6.19	0.05
RAPS- B	440	400	449	444	9.72	405	9.60	0.12
RAPS- C	440	400	463	455	9.95	414	9.60	0.35
Sub Total (B)	1320	1058	1209	1193	25.91	1080	25.39	0.52
C. NHPC								
Chamera I HPS	540	356	360	360	8.58	358	8.54	0.04
Chamera II HPS	300	300	301	302	7.18	299	7.20	-0.02
Chamera III HPS	231	231	234	233	5.53	230	5.42	0.11
Bairasuil HPS	180	182	120	100	1.83	76	2.78	-0.95
Salal-HPS	690	660	661	661	15.78	657	15.84	-0.06
Tanakpur-HPS	94	92	95	94	2.22	92	2.24	-0.03
Uri-HPS	480	368	448	464	10.96	457	9.36	1.59
Dhauliganga-HPS	280	277	283	280	6.66	277	6.77	-0.11
Dulhasi-HPS	390	387	408	399	9.07	378	9.28	-0.21
Sewa-II HPS	120	80	0	39	0.53	22	0.46	0.06
Sub Total (C)	3305	2933	2910	2932	68.33	2847	67.89	0.44
D.NJPC								
Nathpa Jhakri	1500	1605	1607	1610	38.68	1611	38.52	0.16
Sub Total (D)	1500	1605	1607	1610	38.68	1611	38.52	0.16
E. THDC								
Tehri HPS	1000	780	141	546	5.59	233	5.80	-0.21
Koteshwar HPS	400	253	83	82	1.86	77	2.30	-0.44
Sub Total (E)	1400	1033	224	628	7.45	310	8.10	-0.65
F. BBMB								
Bhakra HPS	1480	778	1227	627	19.31	805	18.68	0.63
Dehar HPS	990	603	825	600	14.95	623	14.47	0.48
Pong HPS	396	182	312	108	4.52	188	5.01	-0.49
Sub Total (F)	2866	1563	2364	1335	38.78	1616	38.15	0.63
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	211	178	4.44	185	4.28	0.16
KWHPEP HPS(IPP)	1000	0	1200	1200	28.60	1191	28.63	-0.04
Malana Stg-II HPS	100	0	108	108	2.57	107	2.09	0.49
Shree Cement TPS	300	0	294	283	6.85	285	5.76	1.09
Budhil HPS(IPP)	70		69	70	1.61	67		1.61
Sub Total (G)	1662	0	1882	1839	44.07	1836	40.76	3.30
H. Total Regional Entities (A-G)	22336	15549	17394	17206	389.74	16239	386.07	3.66

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	1246	1227	27.40	1142
	Guru Nanak Dev TPS(Bhatinda)	440	210	207	4.45	185
	Guru Hargobind Singh TPS(L.mbt)	920	905	913	19.78	824
	Thermal (Total)	2620	2361	2347	51.63	2151
	Total Hydro	1148	727	857	17.20	717
	Total Punjab	3768	3088	3204	68.84	2868
Haryana	Panipat TPS	1367	1114	1115	26.74	1114
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	385	390	9.25	385
	RGTPP (kheadar) (IPP)	1200	372	277	7.96	332
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	366	369	9.25	385
	Thermal (Total)	4944	2237	2151	53.19	2216
	Total Hydro	62	22	26	0.89	37
	Total Haryana	5006	2259	2177	54.08	2253
	Rajasthan	kota TPS	1240	968	1063	24.80
suratgarh TPS		1500	1108	1065	26.51	1104
Chabra TPS		500	403	383	7.07	295
Dholpur GPS		330	213	142	3.66	152
Ramgarh GPS		111	66	63	1.66	69
RAPS A (NPC)		300	192	192	4.34	181
Barsingsar (NLC)		250	115	115	2.63	110
Giral LTPS		250	40	22	0.50	21
Rajwest LTPS (IPP)		540	365	240	7.02	292
VSLP LTPS (IPP)		135	0	0	0.00	0
Thermal (Total)		5156	3470	3285	78.18	3257
Total Hydro		550	0	0	0.00	0
Wind power		1843	1085	1360	26.27	1094
Biomass		91	25	25	0.60	25
Solar		128	0	0	0.25	11
Renewable/Others (Total)		2062	1110	1385	27.12	1130
Total Rajasthan		7767	4580	4670	105.30	4387
UP		Anpara TPS	1630	795	659	22.80
	Obra TPS	1382	404	472	9.60	400
	Paricha TPS	890	482	501	10.40	433
	Panki TPS	210	135	121	2.80	117
	Harduaganj TPS	665	31	29	0.70	29
	Tanda TPS (NTPC)	440	297	295	7.22	301
	Roza TPS (IPP)	1200	915	822	19.56	815
	Anpara-C (IPP)	1200	0	0	0.00	0
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	258	248	5.96	248
	Thermal (Total)	8067	3317	3147	79.04	3293
	Vishnuparyag HPS (IPP)	400	436	436	10.02	417
	Other Hydro	527	15	0	2.28	95
	Cogeneration	981	50	50	1.20	50
	Total UP	9975	3818	3633	92.54	3438
	Uttarakhand	Total Hydro	1303	812	796	14.43
Total Uttarakhand		1303	812	796	14.43	601
Delhi	Rajghat TPS	135	48	47	1.30	54
	Delhi Gas Turbine	282	193	187	4.63	193
	Pragati Gas Turbine	330	286	287	6.50	271
	Rithala GPS	108	0	0	0.00	0
	Bawana GPS	677	0	0	0.00	0
	Badarpur TPS (NTPC)	705	585	630	12.71	529
	Thermal (Total)	2237	1112	1151	25.14	1047
	Total Delhi	2237	1112	1151	25.14	1047
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	104	70	2.38	99
	Other Hydro	589	517	516	12.47	520
	Total HP	1005	951	916	23	949
J & K	Baglihar HPS (IPP)	450	436	438	10.45	435
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	621	648	15.18	633
Total State Control Area Generation		32017	17241	17195	398.28	16178
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			4168	6463	121.63	5068
Total Regional Availability(Gross)		54353	38803	40864	909.64	37484

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8624	7991	188.84	7868
State Control Area Hydro	5368	3148	3243	82.78	3032
Total Regional Hydro	15731	11772	11234	271.62	10900

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	500	500	0	12.00	0.00	12.00
Gwalior-Agra (D/C)	648	873	994	0	15.84	0.00	15.84
Zerda-Kankroli	0	319	319	0	2.08	0.00	2.08
Zerda-Bhinmal	35	219	720	98	4.23	0.00	4.23
Malanpur-Auraiya	-103	143	143	130	1.65	0.00	1.65
Badod-Kota/Morak	125	305	305	0	3.52	0.00	3.52
Mundra-Mohindergarh(HVDC)	595	597	605	0	14.47	0.00	14.47
Sub Total WR	1800	2956			53.79	0.00	53.79
Pusauli Bypass	300	300	300	0	7.72	0.00	7.72
MZP- GKP (D/C)	828	1100	1228	0	24.72	0.00	24.72
Patna-Balia(D/C)	615	871	791	0	13.09	0.00	13.09
B'Sharif-Balia (D/C)	488	657	838	0	14.76	0.00	14.76
Barh - Balia(D/C)	0	350	405	0	3.60	0.00	3.60
Pusauli-Balia	13	90	177	0	1.62	0.00	1.62
Gayaa-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	169	164	189	0	3.31	0.00	3.31
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	2368	3507			68.81	0.97	67.84
Total IR Exch	4168	6463			122.59	0.97	121.63

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
21.40	3.84	25.24	-1.10	37.88	1.80	11.40	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
25.94	51.88	77.82	67.84	53.79	121.63	41.90	1.90	43.80

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	2.50	21.50	93.50	74.50	20.30	4.00

<----- 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				
50.43	16.05	49.35	1.04	49.85	0.59	0.19	50.42	49.56

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	406	07:07	397	01:08	0.0	0.0	0.0	0.0
Gorakhpur	400	433	07:06	398	23:29	0.0	0.0	36.9	3.6
Bareilly	400	420	17:53	391	11:50	0.0	0.0	0.0	0.0
Kanpur	400	419	18:01	395	22:21	0.0	0.0	0.0	0.0
Dadri	400	411	06:03	395	11:50	0.0	0.0	0.0	0.0
Ballabgarh	400	423	18:02	398	11:44	0.0	0.0	1.4	0.0
Bawana	400	421	18:02	398	11:50	0.0	0.0	0.0	0.0
Bassi	400	426	18:02	0	00:00	8.0	8.0	8.8	0.0
Hissar	400	417	18:02	389	11:49	0.0	0.1	0.0	0.0
Moga	400	416	17:08	391	11:44	0.0	0.0	0.0	0.0
Abdullapur	400	419	18:01	287	09:42	0.1	0.1	0.0	0.0
Nalagarh	400	413	21:46	391	11:50	0.0	0.0	0.0	0.0
Kishenpur	400	417	05:08	402	11:45	0.0	0.0	0.0	0.0
Wagoora	400	414	06:07	393	21:09	0.0	0.0	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	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:

XI. Weather Conditions For 29.07.2012 :

1: Cloudy weather in NR.

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 : 29.07.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER