

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.06.2012

Date of Reporting : 30.06.2012

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
38059	4504	42563	49.62	38781	3967.37	42748	49.75	923.9	107.51

* 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	52.53	17.89		70.42	117.71	119.48	1.77	189.90	23.79
Haryana	50.71	0.81		51.52	62.10	70.23	8.13	121.75	26.42
Rajasthan	81.51	0.87	19.73	102.11	50.12	56.34	6.22	158.44	6.61
Delhi	32.60			32.60	87.54	77.05	-10.49	109.65	0.15
UP	82.25	14.38	4.80	101.43	110.30	151.11	40.81	252.53	44.89
Uttarakhand		17.60		17.60	12.75	15.16	2.42	32.76	1.97
HP		18.99		18.99	4.69	5.08	0.38	24.07	0.73
J & K		15.03	0.00	15.03	13.11	13.46	0.35	28.49	2.95
Chandigarh				0.00	6.65	6.28	-0.38	6.28	0.00
Total	299.59	85.57	24.53	409.69	464.98	514.18	49.21	923.87	107.51

* 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 * (Net MU)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	8239	1319	193	1925	7872	535	-116	1925	46.19	
Haryana	5627	906	535	456	4788	1226	389	456	10.94	
Rajasthan	6456	64	330	-79	6574	91	532	-229	-4.22	
Delhi	4429	0	-397	631	4386	0	-509	556	15.95	
UP	9611	1985	1280	0	11684	2015	1828	50	1.50	
Uttarakhand	1348	80	134	30	1349	0	104	30	0.73	
HP	854	0	-169	-1316	931	0	38	-1342	-32.35	
J&K	1239	150	-14	-578	961	100	-174	-578	-14.12	
Chandigarh	257	0	-27	40	237	0	-30	20	1.20	
Total	38059	4504	1865	1108	38781	3967.37	2062	888	25.81	

* 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	1915	2063	2068	46.60	1942	45.96	0.64
Rihand I STPS	1000	881	955	970	21.46	894	21.15	0.31
Rihand II STPS	1000	575	627	628	13.93	580	13.80	0.13
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	793	868	868	19.13	797	19.04	0.09
Dadri II STPS	980	956	1016	1019	23.07	961	22.94	0.13
Unchahar I TPS	420	397	430	437	9.59	400	9.54	0.05
Unchahar II TPS	420	402	440	441	9.69	404	9.64	0.05
Unchahar III TPS	210	201	221	218	4.84	202	4.81	0.03
ISTPP (Jhajjar)	1000	787	734	860	18.56	773	18.81	-0.25
Dadri GPS	830	760	686	724	16.59	691	16.59	0.00
Anta GPS	419	382	337	349	8.73	364	8.26	0.47
Auraiya GPS	663	605	573	592	13.68	570	13.12	0.57
Sub Total (A)	10282	8653	8950	9174	205.87	8578	203.64	2.23
B. NPC								
NAPS	440	259	293	293	6.13	255	6.22	-0.09
RAPS- B	440	394	431	437	9.40	392	9.46	-0.05
RAPS- C	440	200	230	218	4.88	203	4.80	0.08
Sub Total (B)	1320	853	954	948	20.41	850	20.47	-0.06
C. NHPC								
Chamera I HPS	540	534	540	540	12.86	536	12.82	0.05
Chamera II HPS	300	300	302	302	7.22	301	7.24	-0.02
Chamera III HPS	231		153	153	3.05	127		3.05
Bairasuil HPS	180	182	120	105	2.39	100	2.15	0.24
Salal-HPS	690	650	649	649	15.61	650	15.60	0.01
Tanakpur-HPS	94	70	93	67	1.83	76	1.83	0.01
Uri-HPS	480	471	480	480	11.59	483	11.60	0.00
Dhauliganga-HPS	280	277	282	279	6.72	280	6.67	0.05
Dulhasi-HPS	390	353	411	401	8.52	355	8.47	0.04
Sewa-II HPS	120	80	85	81	1.52	63	1.46	0.06
Sub Total (C)	3305	2917	3115	3057	71.31	2971	67.83	3.48
D.NJPC								
Nathpa Jhakri	1500	1600	1614	1620	38.65	1611	38.40	0.25
Sub Total (D)	1500	1600	1614	1620	38.65	1611	38.40	0.25
E. THDC								
Tehri HPS	1000	540	252	540	8.58	357	8.50	0.08
Koteshwar HPS	400	260	170	287	4.17	174	4.00	0.17
Sub Total (E)	1400	800	422	827	12.75	531	12.50	0.25
F. BBMB								
Bhakra HPS	1480	907	1116	757	22.35	931	21.77	0.58
Dehar HPS	990	607	660	620	15.01	625	14.56	0.45
Pong HPS	396	231	312	165	5.58	233	5.53	0.05
Sub Total (F)	2866	1744	2088	1542	42.94	1789	41.86	1.08
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	150	140	3.67	153	3.55	0.12
KWHEP HPS(IPP)	1000	0	1200	1200	28.67	1195	28.68	-0.01
Malana Stg-II HPS	100	0	89	85	1.92	80	0.00	1.92
Shree Cement TPS	300	0	288	285	6.88	287	6.62	0.25
Budhil HPS(IPP)	70		73	71	1.53	64		1.53
Sub Total (G)	1662	0	1800	1781	42.66	1778	38.85	3.81
H. Total Regional Entities (A-G)	22336	16567	18943	18949	434.59	18108	423.55	11.04

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	1247	1288	27.90	1163
	Guru Nanak Dev TPS(Bhatinda)	440	213	213	4.57	190
	Guru Hargobind Singh TPS(L.mbt)	920	929	906	20.06	836
	Thermal (Total)	2620	2389	2407	52.53	2189
	Total Hydro	1148	783	771	17.89	746
	Total Punjab	3768	3172	3178	70.42	2934
Haryana	Panipat TPS	1367	1089	1067	26.21	1092
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	367	372	8.79	366
	RGTPP (kheadar) (IPP)	1200	444	0	3.80	158
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	490	431	11.91	496
	Thermal (Total)	4944	2390	1870	50.71	2113
	Total Hydro	62	26	21	0.81	34
	Total Haryana	5006	2416	1891	51.52	2146
Rajasthan	kota TPS	1240	980	980	22.95	956
	suratgarh TPS	1500	1358	1374	32.37	1349
	Chabra TPS	500	216	219	5.09	212
	Dholpur GPS	330	167	98	2.70	113
	Ramgarh GPS	111	55	53	1.35	56
	RAPS A (NPC)	300	175	175	4.20	175
	Barsingsar (NLC)	250	184	184	4.77	199
	Giral LTPS	250	35	0	0.22	9
	Rajwest LTPS (IPP)	540	336	275	7.87	328
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3506	3358	81.51	3396
	Total Hydro	550	0	70	0.87	36
	Wind power	1843	593	592	17.73	739
	Biomass	91	31	33	0.74	31
	Solar	128	0	0	0.39	16
	Renewable/Others (Total)	2062	624	625	19.73	822
	Total Rajasthan	7767	4130	4053	102.11	4254
	UP	Anpara TPS	1630	712	705	16.00
Obra TPS		1382	470	508	10.90	454
Paricha TPS		890	372	384	8.20	342
Panki TPS		210	75	65	1.50	63
Harduaganj TPS		665	218	42	2.40	100
Tanda TPS (NTPC)		440	292	261	6.84	285
Roza TPS (IPP)		1200	824	824	19.67	820
Anpara-C (IPP)		1200	454	358	9.93	414
Bajaj Energy Pvt.Ltd(IPP) TPS		450	271	306	6.81	284
Thermal (Total)		8067	3688	3453	82.25	3427
Vishnuparyag HPS (IPP)		400	436	436	10.45	435
Other Hydro		527	180	0	3.93	164
Cogeneration		981	200	200	4.80	200
Total UP		9975	4504	4089	101.43	3791
Uttarakhand	Total Hydro	1303	717	621	17.60	733
	Total Uttarakhand	1303	717	621	17.60	733
Delhi	Rajghat TPS	135	104	94	2.44	102
	Delhi Gas Turbine	282	204	214	5.25	219
	Pragati Gas Turbine	330	269	280	6.86	286
	Rithala GPS	108	29	29	0.58	24
	Bawana GPS	677	216	219	5.28	220
	Badarpur TPS (NTPC)	705	560	560	12.19	508
	Thermal (Total)	2237	1382	1396	32.60	1358
	Total Delhi	2237	1382	1396	32.60	1358
HP	Baspa HPS (IPP)	330	330	330	7.92	330
	Malana HPS (IPP)	86	81	74	1.68	70
	Other Hydro	589	414	389	9.39	391
	Total HP	1005	825	793	19	791
J & K	Baglihar HPS (IPP)	450	437	438	10.49	437
	Other Hydro	323	178	197	4.55	189
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	615	635	15.03	626
Total State Control Area Generation		32017	17761	16656	409.69	16635
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3931	4787	105.19	4383
Total Regional Availability(Gross)		54353	40635	40392	949.47	39126

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8678	8471	199.91	8329
State Control Area Hydro	5368	3146	2911	75.12	3130
Total Regional Hydro	15731	11824	11382	275.03	11459

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	Import	Export	
Vindhychal B/B	200	200	200	0	4.84	0.00	4.84	0.00	4.84
Gwalior-Agra (D/C)	894	999	1249	0	23.05	0.00	23.05	0.00	23.05
Zerda-Kankroli	186	224	257	15	2.86	0.00	2.86	0.00	2.86
Zerda-Bhinmal	205	243	368	52	3.42	0.00	3.42	0.00	3.42
Malanpur-Auraiya	-58	-14	0	91	0.00	0.92	0.00	0.92	-0.92
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total WR	1427	1652			34.17	0.92			33.25
Pusauli Bypass	300	300	300	0	7.17	0.00	7.17	0.00	7.17
MZP- GKP (D/C)	810	1060	1138	0	23.02	0.00	23.02	0.00	23.02
Patna-Balia(D/C)	540	460	564	0	11.38	0.00	11.38	0.00	11.38
B'Sharif-Balia (D/C)	401	508	551	0	11.09	0.00	11.09	0.00	11.09
Barh - Balia(D/C)	329	567	608	0	11.44	0.00	11.44	0.00	11.44
Pusauli-Balia	-54	9	34	83	1.81	0.00	1.81	0.00	1.81
Gayaa-Fatehpur (765 Kv)	51	95	197	0	2.72	0.00	2.72	0.00	2.72
Pusauli-Sahupuri	169	165	202	0	4.33	0.00	4.33	0.00	4.33
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.02	0.00	1.02	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub Total ER	2504	3135			72.96	1.02			71.94
Total IR Exch	3931	4787			107.13	1.94			105.19

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
30.18	3.71	33.89	2.28	21.69	-4.24	3.70	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
31.93	25.85	57.79	71.94	33.25	105.19	40.01	7.40	47.40

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	0.30	1.80	41.40	80.30	58.46	19.56	2.04	0.14

<----- 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				
50.28	18.03	49.00	11.07	49.56	1.97	0.19	50.20	49.26

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	400	0:00	400	0:00	0.0	0.0	0.0	0.0
Gorakhpur	400	422	6:05	394	1:17	0.0	0.0	5.9	0.0
Bareilly	400	414	18:54	386	1:04	0.0	2.0	0.0	0.0
Kanpur	400	409	6:01	388	14:14	0.0	0.4	0.0	0.0
Dadri	400	407	6:02	389	14:12	0.0	0.5	0.0	0.0
Ballabgarh	400	416	20:57	392	14:15	0.0	0.0	0.0	0.0
Bawana	400	412	6:02	394	1:03	0.0	0.0	0.0	0.0
Bassi	400	420	20:57	386	14:15	0.0	1.1	0.0	0.0
Hissar	400	409	20:55	382	9:32	0.0	9.1	0.0	0.0
Moga	400	415	19:38	384	9:30	0.0	1.5	0.0	0.0
Abdullapur	400	412	4:05	398	13:50	0.0	0.0	0.0	0.0
Nalagarh	400	0	0:00	9999	0:00	0.0	0.0	0.0	0.0
Kishenpur	400	409	19:36	394	9:23	0.0	0.0	0.0	0.0
Wagoora	400	407	2:36	391	9:23	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	467.71	230.40	485.35	593.99	865.50	836.56
Pong	426.72	384.05	394.31	116.59	411.83	555.83	162.54	480.65
Tehri	829.79	740.04	743.85	17.23	818.65	982.26	316.93	353.00
Koteshwar	612.50	598.50	605.60	2.46	NA	NA	355.00	301.00
Chamera-I	760.00	748.75	753.69	NA	NA	NA	292.15	349.32
Rihand	268.22	252.98	254.42	53.70	256.00	116.30	NA	NA
RPS	352.80	343.81	349.75	NA	345.32	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.70	NA	297.76	NA	NA	NA
RSD	527.91	487.91	499.58	NA	510.24	NA	271.13	254.79

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.06.2012 :

1. Hot dry weather

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

3 x 80 MVAR bus reactor - II at 765 KV Bhiwani (PG) charged at 22.37 Hrs / 29.06.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER