

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.06.2012

Date of Reporting : 28.06.2012

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
37323	4685	42008	49.72	39571	2313.75	41884	49.81	934.8	76.07

* 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	51.89	16.93		68.81	118.66	122.36	3.70	191.17	18.84
Haryana	55.16	0.86		56.02	61.05	76.57	15.52	132.59	18.66
Rajasthan	78.35	0.00	31.23	109.58	46.50	51.54	5.03	161.12	1.01
Delhi	28.37			28.37	82.26	78.00	-4.26	106.36	0.36
UP	97.03	14.33	4.80	116.16	104.70	135.72	31.03	251.88	33.31
Uttarakhand		17.39		17.39	12.33	15.60	3.27	32.98	0.83
HP		19.03		19.03	4.37	4.73	0.37	23.76	0.10
J & K		15.06	0.00	15.06	12.25	13.62	1.37	28.68	2.95
Chandigarh				0.00	7.05	6.22	-0.83	6.22	0.00
Total	310.79	83.59	36.03	430.42	449.17	504.35	55.18	934.77	76.07

* 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	8213	1188	143	1905	8080	728	260	1925	45.96	
Haryana	4978	1457	592	456	5830	366	847	456	10.94	
Rajasthan	6235	0	-135	-229	6571	0	163	-229	-5.17	
Delhi	4555	0	-26	623	4345	0	-228	623	18.00	
UP	9341	1890	1036	0	11288	1120	1318	50	1.50	
Uttarakhand	1570	0	355	33	1323	0	94	30	0.80	
HP	829	0	-183	-1309	899	0	-29	-1335	-32.23	
J&K	1338	150	115	-578	993	100	-94	-603	-14.37	
Chandigarh	263	0	-38	40	242	0	-32	20	1.20	
Total	37323	4685	1859	939	39571	2313.75	2299	936	26.62	

* 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	1910	2068	2057	46.20	1925	45.84	0.36
Rihand I STPS	1000	890	979	975	21.58	899	21.36	0.22
Rihand II STPS	1000	575	633	622	14.00	583	13.80	0.20
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	793	863	873	19.04	793	19.04	0.00
Dadri II STPS	980	957	1018	1011	23.01	959	22.91	0.10
Unchahar I TPS	420	402	438	442	9.69	404	9.65	0.05
Unchahar II TPS	420	402	441	438	9.71	404	9.65	0.06
Unchahar III TPS	210	200	220	219	4.84	202	4.80	0.04
ISTPP (Jhajjar)	1000	626	701	627	14.30	596	14.90	-0.60
Dadri GPS	830	760	716	687	15.76	657	15.78	-0.02
Anta GPS	419	384	361	255	6.55	273	6.61	-0.06
Auraiya GPS	663	605	579	454	11.27	470	11.35	-0.08
Sub Total (A)	10282	8505	9017	8660	195.95	8165	195.68	0.27
B. NPC								
NAPS	440	256	295	301	6.22	259	6.14	0.08
RAPS- B	440	391	434	440	9.47	394	9.38	0.08
RAPS- C	440	200	223	228	4.92	205	4.80	0.12
Sub Total (B)	1320	847	952	969	20.61	859	20.33	0.28
C. NHPC								
Chamera I HPS	540	537	540	540	12.52	522	12.36	0.16
Chamera II HPS	300	300	303	302	7.21	300	7.23	-0.02
Chamera III HPS	231		77	77	3.64	151		3.64
Bairasuil HPS	180	182	182	120	2.42	101	2.23	0.19
Salal-HPS	690	652	650	650	15.58	649	15.65	-0.07
Tanakpur-HPS	94	87	88	89	2.08	87	2.16	-0.08
Uri-HPS	480	471	480	480	11.63	485	11.57	0.06
Dhauliganga-HPS	280	277	139	277	5.36	223	5.18	0.17
Dulhasi-HPS	390	344	410	410	8.27	344	7.56	0.71
Sewa-II HPS	120	80	86	81	0.97	41	0.94	0.03
Sub Total (C)	3305	2930	2955	3026	69.66	2903	64.89	4.77
D. NJPC								
Nathpa Jhakri	1500	1600	1612	1622	38.57	1607	38.40	0.17
Sub Total (D)	1500	1600	1612	1622	38.57	1607	38.40	0.17
E. THDC								
Tehri HPS	1000	530	536	533	10.17	424	10.00	0.17
Koteshwar HPS	400	335	173	347	4.53	189	4.50	0.03
Sub Total (E)	1400	865	709	880	14.70	613	14.50	0.20
F. BBMB								
Bhakra HPS	1480	897	1114	758	22.21	925	21.52	0.69
Dehar HPS	990	607	825	660	15.13	630	14.57	0.56
Pong HPS	396	241	312	168	5.90	246	5.79	0.11
Sub Total (F)	2866	1745	2251	1586	43.24	1802	41.88	1.36
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	175	147	3.62	151	3.55	0.07
KWHEP HPS(IPP)	1000	0	1200	1200	28.65	1194	28.51	0.14
Malana Stg-II HPS	100	0	82	76	1.71	71	0.00	1.71
Shree Cement TPS	300	0	288	288	6.89	287	6.62	0.26
Budhil HPS(IPP)	70		72	72	1.63	68		1.63
Sub Total (G)	1662	0	1817	1783	42.50	1771	38.68	3.81
H. Total Regional Entities (A-G)	22336	16491	19313	18526	425.23	17718	414.36	10.87

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	1253	1020	27.36	1140	
	Guru Nanak Dev TPS(Bhatinda)	440	213	209	4.55	190	
	Guru Hargobind Singh TPS(L.mbt)	920	915	889	19.98	833	
	Thermal (Total)	2620	2381	2118	51.89	2162	
	Total Hydro	1148	783	753	16.93	705	
	Total Punjab	3768	3164	2871	68.81	2867	
Haryana	Panipat TPS	1367	1079	1069	26.00	1083	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	360	378	8.76	365	
	RGTPP (khedar) (IPP)	1200	0	530	10.50	437	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	293	437	9.90	413	
	Thermal (Total)	4944	1732	2414	55.16	2298	
	Total Hydro	62	23	25	0.86	36	
	Total Haryana	5006	1755	2439	56.02	2334	
	Rajasthan	kota TPS	1240	950	928	22.57	941
suratgarh TPS		1500	1352	992	28.78	1199	
Chabra TPS		500	210	210	4.88	203	
Dholpur GPS		330	154	80	2.75	115	
Ramgarh GPS		111	57	55	1.34	56	
RAPS A (NPC)		300	175	175	4.14	173	
Barsingsar (NLC)		250	186	183	4.77	199	
Giral LTPS		250	61	42	1.23	51	
Rajwest LTPS (IPP)		540	327	327	7.88	328	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3472	2992	78.35	3265	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	1001	1511	30.26	1261	
Biomass		91	27	27	0.64	27	
Solar		128	0	0	0.32	13	
Renewable/Others (Total)		2062	1028	1538	31.23	1301	
Total Rajasthan		7767	4500	4530	109.58	4566	
UP		Anpara TPS	1630	990	1036	24.20	1008
		Obra TPS	1382	535	531	11.60	483
	Paricha TPS	890	391	377	8.30	346	
	Panki TPS	210	70	70	1.50	63	
	Harduaganj TPS	665	42	210	4.30	179	
	Tanda TPS (NTPC)	440	373	385	9.33	389	
	Roza TPS (IPP)	1200	824	824	19.70	821	
	Anpara-C (IPP)	1200	485	519	11.88	495	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	158	317	6.22	259	
	Thermal (Total)	8067	3868	4269	97.03	4043	
	Vishnuparyag HPS (IPP)	400	436	436	10.43	435	
	Other Hydro	527	125	0	3.90	162	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4629	4905	116.16	4405	
	Uttarakhand	Total Hydro	1303	780	671	17.39	724
Total Uttarakhand		1303	780	671	17.39	724	
Delhi	Rajghat TPS	135	102	103	2.39	100	
	Delhi Gas Turbine	282	217	222	5.23	218	
	Pragati Gas Turbine	330	274	280	6.07	253	
	Rithala GPS	108	29	29	0.53	22	
	Bawana GPS	677	216	428	5.09	212	
	Badarpur TPS (NTPC)	705	415	410	9.06	377	
	Thermal (Total)	2237	1253	1472	28.37	1182	
	Total Delhi	2237	1253	1472	28.37	1182	
HP	Baspa HPS (IPP)	330	330	330	7.93	330	
	Malana HPS (IPP)	86	59	60	1.45	60	
	Other Hydro	589	429	395	9.65	402	
	Total HP	1005	818	785	19	793	
J & K	Baglihar HPS (IPP)	450	436	440	10.52	438	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	614	637	15.06	628	
Total State Control Area Generation		32017	17513	18310	430.42	17499	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3090	4155	93.40	3892	
Total Regional Availability(Gross)		54353	39916	40991	949.04	39109	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8984	8537	200.15	8340
State Control Area Hydro	5368	3143	2871	73.16	3048
Total Regional Hydro	15731	12127	11408	273.31	11388

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	12.03	0.00	12.03
Gwalior-Agra (D/C)	550	912	1152	0	21.01	0.00	21.01
Zerda-Kankroli	70	95	202	0	2.48	0.00	2.48
Zerda-Bhinmal	66	74	269	48	2.43	0.00	2.43
Malanpur-Auraiya	-68	-11	0	138	0.00	0.98	-0.98
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1118	1570			37.95	0.98	36.97
Pusauli Bypass	300	300	300	0	7.37	0.00	7.37
MZP- GKP (D/C)	692	1044	1144	0	22.16	0.00	22.16
Patna-Balia(D/C)	388	579	593	0	11.82	0.00	11.82
B'Sharif-Balia (D/C)	221	449	485	0	9.07	0.00	9.07
Barh - Balia(D/C)	238	0	525	0	0.58	0.00	0.58
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gayaa-Fatehpur (765 Kv)	20	98	216	0	2.63	0.00	2.63
Pusauli-Sahupuri	155	144	169	0	3.81	0.00	3.81
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.02	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1972	2585			57.45	1.02	56.43
Total IR Exch	3090	4155			95.39	2.00	93.40

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
23.43	3.71	27.15	3.10	22.65	-5.91	2.50	0.00	0.00
Total IR Schedule (MU)								
Through ER	Through WR	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
24.34	26.44	50.78	56.43	36.97	93.40	32.08	10.53	42.62

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	0.60	17.30	53.00	82.70	47.00	1.30	0.00

<----- 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				
50.10	18.06	49.15	23.13	49.67	1.38	0.17	50.01	49.42

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	18:35	398	16:15	0.0	0.0	0.0	0.0
Gorakhpur	400	425	19:20	395	13:31	0.0	0.0	3.7	0.0
Bareilly	400	418	19:14	384	13:51	0.0	3.9	0.0	0.0
Kanpur	400	413	19:18	389	13:48	0.0	0.1	0.0	0.0
Dadri	400	409	19:19	389	14:15	0.0	0.5	0.0	0.0
Ballabgarh	400	415	19:18	391	16:17	0.0	0.0	0.0	0.0
Bawana	400	414	7:58	392	14:16	0.0	0.0	0.0	0.0
Bassi	400	416	18:39	389	13:48	0.0	0.2	0.0	0.0
Hissar	400	411	21:43	387	13:38	0.0	1.8	0.0	0.0
Moga	400	418	8:01	392	15:10	0.0	0.0	0.0	0.0
Abdullapur	400	416	7:49	284	11:24	0.1	0.1	0.0	0.0
Nalagarh	400	409	6:02	385	15:10	0.0	4.1	0.0	0.0
Kishenpur	400	411	8:01	397	11:10	0.0	0.0	0.0	0.0
Wagoora	400	408	2:20	391	10:57	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	467.66	230.40	484.68	577.33	910.05	831.44
Pong	426.72	384.05	394.57	121.45	411.64	555.85	152.80	467.31
Tehri	829.79	740.04	743.90	19.00	818.65	982.26	321.74	355.00
Koteshwar	612.50	598.50	605.60	2.46	NA	NA	355.00	301.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	385.93	348.99
Rihand	268.22	252.98	254.45	54.90	255.85	110.20	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	499.53	NA	509.70	NA	291.66	271.19

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 27.06.2012 :

1. Hot dry weather

XII. Synchronisation of new generating units :

1- Chamera -III unit no 1 first time test synchronised at 20.44 hrs of 27.06.2012.

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

1-400 kV Bhiwani (PG)-Mohindergarh first time test cahrged at 12.07 hrs of 27.06.2012.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 27.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER