

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.06.2012

Date of Reporting : 29.06.2012

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
37886	5188	43074	49.62	38738	3179.25	41917	49.91	925.8	95.60

* 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	52.34	16.94		69.28	115.93	117.02	1.08	186.29	17.64
Haryana	45.46	0.77		46.23	62.21	83.17	20.96	129.41	25.63
Rajasthan	80.17	0.00	20.79	100.95	48.90	57.59	8.69	158.54	5.64
Delhi	31.61			31.61	86.55	79.21	-7.35	110.81	0.18
UP	81.19	14.13	4.80	100.12	105.91	148.52	42.61	248.64	42.26
Uttarakhand		16.66		16.66	13.00	16.58	3.58	33.24	0.99
HP		19.32		19.32	4.97	4.84	-0.13	24.15	0.32
J & K		15.03	0.00	15.03	12.95	13.48	0.53	28.51	2.95
Chandigarh				0.00	7.03	6.25	-0.77	6.25	0.00
Total	290.76	82.85	25.59	399.19	457.45	526.66	69.20	925.85	95.60

* 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 * (+ve/-ve)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	8175	1065	128	1925	6932	335	-767	1925	46.19	
Haryana	5212	1759	651	456	5642	714	1321	456	10.94	
Rajasthan	6286	149	555	-29	6759	0	207	-229	-4.45	
Delhi	4593	0	-329	631	4388	15	-423	506	16.15	
UP	9654	1985	1667	0	11622	2015	1943	50	1.50	
Uttarakhand	1507	80	238	30	1360	0	97	30	0.73	
HP	846	0	-175	-1309	890	0	-109	-1285	-32.01	
J&K	1349	150	115	-578	916	100	-207	-578	-14.12	
Chandigarh	265	0	-24	40	229	0	-32	20	1.20	
Total	37886	5188	2825	1165	38738	3179.25	2030	895	26.14	

* 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	2067	2065	46.42	1934	45.84	0.58
Rihand I STPS	1000	890	975	972	21.37	890	21.36	0.01
Rihand II STPS	1000	575	628	627	13.94	581	13.80	0.14
Rihand III STPS	500		0	0	0.00	0		0.00
Dadri I STPS	840	793	866	878	19.22	801	19.04	0.18
Dadri II STPS	980	955	1019	1020	23.10	963	22.93	0.17
Unchahar I TPS	420	403	439	441	9.72	405	9.57	0.16
Unchahar II TPS	420	402	439	440	9.71	405	9.49	0.23
Unchahar III TPS	210	201	221	220	4.84	202	4.76	0.08
ISTPP (Jhajjar)	1000	778	794	743	18.86	786	18.54	0.32
Dadri GPS	830	760	690	645	15.70	654	15.69	0.01
Anta GPS	419	382	346	310	7.93	330	7.69	0.24
Auraiya GPS	663	605	579	561	13.45	561	12.45	1.00
Sub Total (A)	10282	8654	9063	8922	204.26	8511	201.15	3.12
B. NPC								
NAPS	440	256	290	297	6.12	255	6.14	-0.02
RAPS- B	440	391	431	439	9.41	392	9.38	0.03
RAPS- C	440	200	226	228	4.81	201	4.80	0.01
Sub Total (B)	1320	847	947	964	20.35	848	20.33	0.02
C. NHPC								
Chamera I HPS	540	534	540	540	12.88	537	12.81	0.07
Chamera II HPS	300	300	303	302	7.22	301	7.22	0.00
Chamera III HPS	231		154	155	3.46	144		3.46
Bairasuil HPS	180	182	120	110	2.58	107	2.40	0.18
Salal-HPS	690	652	649	649	15.54	648	15.65	-0.11
Tanakpur-HPS	94	72	80	77	1.81	75	1.84	-0.03
Uri-HPS	480	471	480	480	11.59	483	11.58	0.01
Dhauliganga-HPS	280	277	278	209	6.66	278	6.63	0.03
Dulhasi-HPS	390	387	411	397	9.33	389	9.17	0.16
Sewa-II HPS	120	80	85	85	1.23	51	1.15	0.08
Sub Total (C)	3305	2954	3100	3004	72.31	3013	68.45	3.85
D. NJPC								
Nathpa Jhakri	1500	1600	1617	1623	38.65	1610	38.40	0.24
Sub Total (D)	1500	1600	1617	1623	38.65	1610	38.40	0.24
E. THDC								
Tehri HPS	1000	540	552	540	10.08	420	10.00	0.08
Koteshwar HPS	400	294	192	351	4.73	197	4.73	0.01
Sub Total (E)	1400	834	744	891	14.81	617	14.73	0.09
F. BBMB								
Bhakra HPS	1480	912	1114	761	22.32	930	21.88	0.44
Dehar HPS	990	607	825	630	15.14	631	14.57	0.57
Pong HPS	396	242	312	165	5.96	248	5.80	0.16
Sub Total (F)	2866	1760	2251	1556	43.42	1809	42.25	1.17
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	176	148	3.64	152	3.55	0.09
KWHEP HPS(IPP)	1000	0	1200	1200	28.65	1194	28.53	0.11
Malana Stg-II HPS	100	0	105	76	1.80	75	0.00	1.80
Shree Cement TPS	300	0	283	284	6.87	286	6.62	0.25
Budhil HPS(IPP)	70	0	70	72	1.68	70		1.68
Sub Total (G)	1662	0	1834	1780	42.64	1777	38.70	3.93
H. Total Regional Entities (A-G)	22336	16650	19556	18740	436.44	18185	424.01	12.43

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	1257	27.82	1159
	Guru Nanak Dev TPS(Bhatinda)	440	213	213	4.50	188
	Guru Hargobind Singh TPS(L.mbt)	920	925	915	20.02	834
	Thermal (Total)	2620	2384	2385	52.34	2181
	Total Hydro	1148	783	503	16.94	706
	Total Punjab	3768	3167	2888	69.28	2887
Haryana	Panipat TPS	1367	1082	1110	26.54	1106
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	364	369	8.83	368
	RGTPP (kheadar) (IPP)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	470	296	10.09	420
	Thermal (Total)	4944	1916	1775	45.46	1894
	Total Hydro	62	20	24	0.77	32
	Total Haryana	5006	1936	1799	46.23	1926
Rajasthan	kota TPS	1240	977	983	23.08	962
	suratgarh TPS	1500	1371	1351	31.80	1325
	Chabra TPS	500	219	218	5.14	214
	Dholpur GPS	330	97	92	2.71	113
	Ramgarh GPS	111	52	51	1.34	56
	RAPS A (NPC)	300	175	175	4.20	175
	Barsingsar (NLC)	250	184	184	4.55	190
	Giral LTPS	250	46	83	0.31	13
	Rajwest LTPS (IPP)	540	275	338	7.03	293
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	3396	3475	80.17	3340
	Total Hydro	550	0	0	0.00	0
	Wind power	1843	569	1097	19.64	818
	Biomass	91	32	32	0.76	32
	Solar	128	0	0	0.39	16
	Renewable/Others (Total)	2062	601	1129	20.79	866
	Total Rajasthan	7767	3997	4604	100.95	4206
	UP	Anpara TPS	1630	733	798	18.70
Obra TPS		1382	441	484	11.10	463
Paricha TPS		890	346	344	8.20	342
Panki TPS		210	68	59	1.50	63
Harduaganj TPS		665	38	38	0.90	38
Tanda TPS (NTPC)		440	290	379	8.32	347
Roza TPS (IPP)		1200	824	824	19.71	821
Anpara-C (IPP)		1200	248	254	5.99	250
Bajaj Energy Pvt.Ltd(IPP) TPS		450	274	259	6.77	282
Thermal (Total)		8067	3262	3439	81.19	3383
Vishnuparyag HPS (IPP)		400	436	436	10.44	435
Other Hydro		527	170	0	3.69	154
Cogeneration		981	200	200	4.80	200
Total UP		9975	4068	4075	100.12	3737
Uttarakhand		Total Hydro	1303	784	676	16.66
	Total Uttarakhand	1303	784	676	16.66	694
Delhi	Rajghat TPS	135	98	104	2.42	101
	Delhi Gas Turbine	282	207	170	4.90	204
	Pragati Gas Turbine	330	269	281	6.68	278
	Rithala GPS	108	29	29	0.61	25
	Bawana GPS	677	217	215	5.17	215
	Badarpur TPS (NTPC)	705	570	580	11.84	493
	Thermal (Total)	2237	1390	1379	31.61	1317
	Total Delhi	2237	1390	1379	31.61	1317
HP	Baspa HPS (IPP)	330	330	330	7.93	330
	Malana HPS (IPP)	86	77	66	1.46	61
	Other Hydro	589	411	409	9.93	414
	Total HP	1005	818	805	19	805
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	16775	16861	399.19	16198
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3704	4411	107.24	4468
Total Regional Availability(Gross)		54353	40035	40012	942.87	38851

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9193	8498	203.27	8470
State Control Area Hydro	5368	3190	2643	72.41	3017
Total Regional Hydro	15731	12383	11141	275.68	11487

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	200	500	500	0	8.46	0.00	8.46
Gwalior-Agra (D/C)	915	774	1156	0	21.46	0.00	21.46
Zerda-Kankroli	224	77	309	0	3.14	0.00	3.14
Zerda-Bhinmal	276	84	438	48	3.85	0.00	3.85
Malanpur-Auraiya	-76	-58	0	126	0.00	1.18	-1.18
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	1539	1377			36.90	1.18	35.72
Pusauli Bypass	300	300	300	0	7.12	0.00	7.12
MZP- GKP (D/C)	748	1054	1174	0	23.99	0.00	23.99
Patna-Balia(D/C)	452	423	509	0	11.36	0.00	11.36
B'Sharif-Balia (D/C)	275	473	546	0	11.62	0.00	11.62
Barh - Balia(D/C)	276	520	581	0	12.02	0.00	12.02
Pusauli-Balia	-79	21	77	104	0.00	0.19	-0.19
Maya-Fatehpur (765 Kv)	80	107	200	0	2.90	0.00	2.90
Pusauli-Sahupuri	155	165	173	0	3.73	0.00	3.73
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	2165	3034			72.73	1.21	71.52
Total IR Exch	3704	4411			109.63	2.39	107.24

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
25.02	3.80	28.82	1.82	22.44	-6.73	2.87	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
23.91	25.75	49.65	71.52	35.72	107.24	47.61	9.98	57.59

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	1.60	21.30	69.00	78.70	31.00	0.40	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				
50.13	6.05	48.97	21.08	49.62	1.78	0.17	49.98	49.27

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	421	17:22	397	11:27	0.0	0.0	10.2	0.0
Bareilly	400	416	18:53	389	12:19	0.0	0.1	0.0	0.0
Kanpur	400	410	18:30	394	11:19	0.0	0.0	0.0	0.0
Dadri	400	406	18:56	388	12:16	0.0	0.7	0.0	0.0
Ballabgarh	400	412	3:51	393	12:16	0.0	0.0	0.0	0.0
Bawana	400	410	3:59	392	12:16	0.0	0.0	0.0	0.0
Bassi	400	422	22:33	393	8:16	0.0	0.0	0.9	0.0
Hissar	400	412	22:55	381	12:16	0.0	11.5	0.0	0.0
Moga	400	417	22:33	386	10:01	0.0	2.5	0.0	0.0
Abdullapur	400	415	4:04	396	9:56	0.0	0.0	0.0	0.0
Nalagarh	400	411	3:01	382	9:59	0.0	14.0	0.0	0.0
Kishenpur	400	411	22:53	394	9:52	0.0	0.0	0.0	0.0
Wagoora	400	409	2:35	389	9:59	0.0	0.5	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 (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 28.06.2012 :

1. Hot dry weather

XII. Synchronisation of new generating units :

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

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 28.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER