

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.09.2012
Date of Reporting : 19.09.2012

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
32312	3186	35498	50.20	27941	750	28691	50.51	708.3	34.76

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	16.74	5.61		22.35	89.64	88.43	-1.21	110.78	1.80
Haryana	40.64	0.70		41.33	68.80	68.91	0.12	110.25	1.74
Rajasthan	74.48	2.24	6.39	83.10	51.57	51.54	-0.03	134.64	0.51
Delhi	20.50			20.50	66.64	61.46	-5.18	81.95	0.10
UP	76.90	14.04	0.48	91.42	100.81	97.28	-3.53	188.70	27.77
Uttarakhand		18.21		18.21	11.05	10.07	-0.98	28.28	0.00
HP		21.42		21.42	0.19	1.09	0.90	22.51	1.15
J & K		15.27	0.00	15.27	15.55	11.28	-4.27	26.55	1.70
Chandigarh				0.00	5.53	4.61	-0.92	4.61	0.00
Total	229.25	77.48	6.87	313.60	409.77	394.67	-15.10	708.27	34.76

* 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	
Punjab	4971	600	-92	1518	4564	0	-159	2082	47.59
Haryana	4790	489	-39	587	4564	0	70	621	15.01
Rajasthan	6156	0	-31	452	5394	0	40	151	4.58
Delhi	3826	10	-116	150	2917	0	-271	138	4.92
UP	8487	1800	31	493	7748	750	-186	741	13.53
Uttarakhand	1378	0	43	-19	1107	0	-127	-148	-2.70
HP	876	188	-64	-1098	864	0	-20	-1003	-24.73
J&K	1605	100	59	-252	620	0	-421	-404	-7.93
Chandigarh	223	0	-27	-28	164	0	-38	0	0.39
Total	32312	3186	-236	1804	27941	750	-1112	2178	50.66

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	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	1425	1527	1223	29.46	1227	29.46	-0.01
	Rihand I STPS	1000	806	890	605	16.74	697	17.04	-0.30
	Rihand II STPS	1000	865	1031	601	17.95	748	18.37	-0.42
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	600	602	456	10.56	440	10.80	-0.23
	Dadri II STPS	980	970	925	709	18.85	786	19.22	-0.37
	Unchahar I TPS	420	197	201	159	3.78	158	3.81	-0.03
	Unchahar II TPS	420	400	355	306	7.25	302	7.25	0.00
	Unchahar III TPS	210	199	170	152	3.66	152	3.64	0.01
	ISTPP (Jhajihar)	1000	950	476	468	9.83	410	10.71	-0.89
	Dadri GPS	830	796	391	401	8.40	350	8.53	-0.14
	Anta GPS	419	393	187	186	4.87	203	4.92	-0.05
	Auraiya GPS	663	420	258	255	6.12	255	6.08	0.04
	Sub Total (A)		10282	8022	7013	5521	137.47	5728	139.84
B. NPC	NAPS	440	258	303	306	6.43	268	6.19	0.23
	RAPS- B	440	408	449	455	9.80	408	9.79	0.01
	RAPS- C	440	410	463	467	9.91	413	9.84	0.07
	Sub Total (B)		1320	1076	1215	1228	26.13	1089	25.82
C. NHPC	Chamera I HPS	540	534	540	0	8.91	371	8.89	0.02
	Chamera II HPS	300	292	302	293	7.18	299	7.21	-0.02
	Chamera III HPS	231	214	233	152	5.13	214	4.96	0.17
	Bairasuil HPS	180	100	182	182	1.96	82	1.75	0.22
	Salal-HPS	690	624	650	661	15.21	634	15.02	0.19
	Tanakpur-HPS	94	69	93	82	2.11	88	1.66	0.45
	Uri-HPS	480	459	171	443	10.08	420	10.28	-0.20
	Dhauliganga-HPS	280	277	282	278	6.71	279	6.75	-0.04
	Dulhasti-HPS	390	257	223	261	6.18	258	6.17	0.01
	Sewa-II HPS	120	80	84	82	1.91	79	1.71	0.20
	Sub Total (C)		3305	2906	2760	2434	65.37	2724	64.37
D.NJPC	Nathpa Jhakri	1500	1605	1520	1516	34.67	1445	34.50	0.17
	Sub Total (D)		1500	1605	1520	34.67	1445	34.50	0.17
E. THDC	Tehri HPS	1000	1050	1057	921	23.20	967	24.28	-1.08
	Sub Total (E)		1400	1430	1172	30.44	1268	31.58	-1.14
F. BBMB	Bhakra HPS	1480	642	1103	464	15.21	634	15.40	-0.19
	Dehar HPS	990	616	660	600	14.82	618	14.78	0.04
	Pong HPS	396	143	306	126	3.39	141	5.01	-1.62
	Sub Total (F)		2866	1401	2069	1190	33.42	1393	35.19
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	168	82	3.39	141	2.63	0.77
	KWHEP HPS(IPP)	1000	0	900	900	19.79	825	21.62	-1.83
	Malana Stg-II HPS	100	0	53	60	1.00	42	1.65	-0.65
	Shree Cement TPS	300	0	119	44	1.76	73	1.70	0.06
	Budhil HPS(IPP)	70	0	19	9	0.25	10	0.20	0.04
	Sub Total (G)		1662	0	1259	1095	26.19	1091	27.80
H. Total Regional Entities (A-G)		22336	16440	17275	14156	353.70	14737	359.10	-5.41

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	210	180	4.17	174	
	Guru Nanak Dev TPS(Bhatinda)	440	108	167	2.65	110	
	Guru Hargobind Singh TPS(L.mbt)	920	503	364	9.92	413	
	Thermal (Total)	2620	821	711	16.74	697	
	Total Hydro	1148	415	300	5.61	234	
	Total Punjab	3768	1236	1011	22.35	931	
Haryana	Panipat TPS	1367	1087	1088	26.16	1090	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	182	180	4.05	169	
	RGTPP (khedar) (IPP)	1200	400	412	9.97	416	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.46	19	
	Thermal (Total)	4944	1669	1680	40.64	1693	
	Total Hydro	62	29	26	0.70	29	
	Total Haryana	5006	1698	1706	41.33	1722	
	Rajasthan	kota TPS	1240	846	762	19.82	826
		suratgarh TPS	1500	1112	977	24.78	1032
Chabra TPS		500	434	378	10.04	418	
Dholpur GPS		330	200	138	3.47	145	
Ramgarh GPS		111	58	75	1.75	73	
RAPS A (NPC)		300	179	179	4.16	173	
Barsingsar (NLC)		250	0	0	0.00	0	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		540	443	470	10.47	436	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3272	2979	74.48	3103	
Total Hydro		550	89	49	2.24	93	
Wind power		1843	245	292	3.52	147	
Biomass		91	22	22	0.52	22	
Solar		128	0	0	0.11	5	
Renewable/Others (Total)		2062	267	314	6.39	266	
Total Rajasthan		7767	3628	3342	83.10	3463	
UP	Anpara TPS	1630	1004	992	23.50	979	
	Obra TPS	1382	331	397	8.90	371	
	Paricha TPS	890	442	417	10.30	429	
	Panki TPS	210	99	86	2.30	96	
	Harduaganj TPS	665	213	29	1.20	50	
	Tanda TPS (NTPC)	440	396	310	8.83	368	
	Roza TPS (IPP)	1200	387	389	10.30	429	
	Anpara-C (IPP)	1200	486	383	10.57	440	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	41	81	1.00	42	
	Thermal (Total)	8067	3399	3084	76.90	3204	
	Vishnuparyag HPS (IPP)	400	436	436	9.88	412	
	Other Hydro	527	254	0	4.16	173	
	Cogeneration	981	20	20	0.48	20	
	Total UP	9975	4109	3540	91.42	3398	
	Uttarakhand	Total Hydro	1303	776	807	18.21	759
Total Uttarakhand		1303	776	807	18.21	759	
Delhi	Raighat TPS	135	69	83	1.90	79	
	Delhi Gas Turbine	282	73	73	1.89	79	
	Pragati Gas Turbine	330	303	262	6.78	282	
	Rithala GPS	108	20	20	0.55	23	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	535	375	9.39	391	
	Thermal (Total)	2237	1000	813	20.50	854	
Total Delhi	2237	1000	813	20.50	854		
HP	Baspa HPS (IPP)	330	301	301	7.20	300	
	Malana HPS (IPP)	86	88	45	1.72	71	
	Other Hydro	589	525	595	12.50	521	
	Total HP	1005	914	941	21	892	
J & K	Baglihar HPS (IPP)	450	442	438	10.54	439	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	627	648	15.27	636	
Total State Control Area Generation		32017	13988	12808	313.60	12655	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1936	2020	55.04	2293	
Total Regional Availability(Gross)		54353	33199	28984	722.33	29686	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8909	7354	188.09	7837
State Control Area Hydro	5368	3104	2771	77.48	2817
Total Regional Hydro	15731	12013	10125	265.57	10654

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	-50	-200	300	200	0.52	2.73	-2.22
Gwalior-Agra (D/C)	289	263	636	0	10.11	0.00	10.11
Zerda-Kankroli	-97	-67	0	171	0.00	1.73	-1.73
Zerda-Bhinmal	-63	-58	96	252	0.00	1.00	-1.00
Malanpur-Auraiya	-102	-68	0	115	0.00	1.58	-1.58
Badod-Kota/Morak	36	27	66	11	0.37	0.00	0.37
Mundra-Mohindergarh(HVDC)	584	590	593	0	14.11	0.00	14.11
Sub Total WR	597	487			25.10	7.04	18.06
Pusauli Bypass	150	150	150	0	3.63	0.00	3.63
MZP- GKP (D/C)	484	542	696	0	13.54	0.00	13.54
Patna-Balia(D/C)	291	318	413	0	7.44	0.00	7.44
B'Sharif-Balia (D/C)	210	313	440	0	6.97	0.00	6.97
Barh - Balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Balia	-40	-26	29	105	0.00	0.57	-0.57
Gaya-Fatehpur (765 Kv)	139	128	215	0	3.03	0.00	3.03
Pusauli-Sahupuri	150	133	169	0	3.92	0.00	3.92
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-45	-25	0	48	0.00	0.98	-0.98
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1339	1533			38.53	1.55	36.98
Total IR Exch	1936	2020			63.63	8.59	55.04

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
26.52	3.72	30.24	10.46	16.17	-0.02	-3.11	-0.06	0.11

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incld Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
40.62	25.34	65.96	36.98	18.06	55.04	-3.64	-7.28	-10.92

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	0.90	3.70	69.70	66.90	67.50	29.40

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz			(Hz)	(Hz)
50.50	2.52	49.23	22.07	50.08	0.48	0.20	50.53	49.73

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	417	01:33	410	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	434	06:31	420	22:29	0.0	0.0	99.3	21.3
Bareilly	400	426	03:48	403	14:42	0.0	0.0	15.8	0.0
Kanpur	400	427	03:37	410	11:56	0.0	0.0	32.3	0.0
Dadri	400	423	03:42	404	11:58	0.0	0.0	15.4	0.0
Ballabgarh	400	429	03:27	408	11:57	0.0	0.0	47.9	0.0
Bawana	400	425	03:43	405	11:57	0.0	0.0	15.9	0.0
Bassi	400	435	03:46	408	19:10	0.0	0.0	56.3	12.8
Hissar	400	417	03:46	399	11:56	0.0	0.0	0.0	0.0
Moga	400	416	02:51	400	10:52	0.0	0.0	0.0	0.0
Abdullapur	400	420	03:46	295	17:07	0.2	0.2	0.0	0.0
Nalagarh	400	421	23:56	404	10:52	0.0	0.0	0.2	0.0
Kishenpur	400	420	02:53	401	19:08	0.0	0.0	0.0	0.0
Wagoora	400	418	01:05	386	19:09	0.0	3.4	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	503.96	1258.87	512.36	1667.20	1647.95	402.95
Pong	426.72	384.05	421.40	961.02	423.80	1066.19	3562.37	193.80
Tehri	829.79	740.04	822.95	1065.64	818.65	982.26	508.89	507.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	782.40	242.82
Rihand	268.22	252.98	262.80	466.80	265.61	650.20	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	515.42	NA	524.44	NA	544.62	233.10

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 18.09.2012 :
1: Normal 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 : 18.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER