

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.09.2012

Date of Reporting : 16.09.2012

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
34157	2823	36980	50.26	32019	750	32769	50.39	777.6	26.80

* 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	42.56	10.91		53.48	96.42	95.49	-0.92	148.97	1.80
Haryana	55.12	0.83		55.95	64.45	61.66	-2.79	117.61	0.98
Rajasthan	70.46	2.63	14.52	87.61	47.76	44.96	-2.80	132.57	0.04
Delhi	21.26			21.26	67.66	63.30	-4.37	84.56	0.42
UP	77.83	14.31	0.48	92.62	115.96	110.90	-5.06	203.52	21.46
Uttarakhand		16.74		16.74	13.32	13.53	0.21	30.27	0.39
HP		24.13		24.13	1.36	1.42	0.06	25.54	0.02
J & K		15.31	0.00	15.31	16.95	14.48	-2.47	29.78	1.70
Chandigarh				0.00	5.63	4.73	-0.90	4.73	0.00
Total	267.24	84.84	15.00	367.09	429.51	410.46	-19.05	777.55	26.80

* 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	6638	600	-94	1582	6388	0	-185	2098	48.08	
Haryana	5187	394	-299	885	4689	0	-259	626	17.57	
Rajasthan	6085	37	133	156	5309	0	-200	183	4.11	
Delhi	3931	12	-34	437	3094	0	-383	299	9.01	
UP	7998	1450	-509	645	9415	750	9	1045	20.10	
Uttarakhand	1268	230	40	-19	1187	0	-66	-65	-1.02	
HP	1170	0	37	-1042	933	0	-39	-1083	-25.14	
J&K	1653	100	87	-287	827	0	-241	-368	-8.81	
Chandigarh	228	0	-24	10	177	0	-34	-15	0.37	
Total	34157	2823	-662	2368	32019	750	-1399	2720	64.26	

* 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	1425	1545	1377	31.05	1294	31.60	-0.55
Rihand I STPS	1000	837	894	722	16.33	680	16.61	-0.28
Rihand II STPS	1000	965	1018	819	19.23	801	19.73	-0.49
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	600	481	452	11.11	463	10.10	1.01
Dadri II STPS	980	970	720	703	16.27	678	17.01	-0.74
Unchahar I TPS	420	197	196	175	3.79	158	3.85	-0.06
Unchahar II TPS	420	400	340	363	7.26	302	7.54	-0.29
Unchahar III TPS	210	114	0	176	1.93	80	2.07	-0.14
ISTPP (Jhajhar)	1000	940	406	609	9.08	378	9.52	-0.44
Dadri GPS	830	793	477	447	10.42	434	10.49	-0.08
Anta GPS	419	393	207	215	1.78	74	4.89	-3.11
Auraiya GPS	663	624	271	289	6.56	273	6.46	0.10
Sub Total (A)	10282	8258	6555	6347	134.80	5617	139.87	-5.08
B. NPC								
NAPS	440	258	301	303	6.29	262	6.19	0.10
RAPS- B	440	407	449	452	9.76	407	9.77	-0.01
RAPS- C	440	410	463	457	9.83	409	9.84	-0.01
Sub Total (B)	1320	1075	1213	1212	25.88	1078	25.80	0.08
C. NHPC								
Chamera I HPS	540	534	540	540	12.51	521	12.81	-0.30
Chamera II HPS	300	300	300	300	7.08	295	7.06	0.02
Chamera III HPS	231	218	230	231	5.04	210	4.91	0.13
Bairasuil HPS	180	182	60	30	2.19	91	2.52	-0.33
Salai-HPS	690	665	661	660	15.86	661	15.96	-0.10
Tanakpur-HPS	94	46	93	0	0.91	38	1.16	-0.25
Uri-HPS	480	476	478	450	10.67	444	10.46	0.21
Dhauliganga-HPS	280	277	278	277	6.73	280	6.73	0.00
Dulhasi-HPS	390	387	349	357	9.28	387	9.23	0.05
Sewa-II HPS	120	77	43	68	1.05	44	1.10	-0.05
Sub Total (C)	3305	3161	3032	2913	71.31	2971	71.94	-0.63
D.NJPC								
Natpna Jhakri	1500	1605	1515	1518	36.19	1508	36.00	0.19
Sub Total (D)	1500	1605	1515	1518	36.19	1508	36.00	0.19
E. THDC								
Tehri HPS	1000	1050	1009	992	24.50	1021	25.00	-0.51
Koteswar HPS	400	381	386	388	8.03	335	8.00	0.03
Sub Total (E)	1400	1431	1395	1380	32.53	1355	33.00	-0.47
F. BBMB								
Bhakra HPS	1480	774	1234	536	18.96	790	18.57	0.39
Dehar HPS	990	613	660	590	14.40	600	14.70	-0.30
Pong HPS	396	270	366	186	6.57	274	5.01	1.56
Sub Total (F)	2866	1656	2260	1312	39.93	1664	38.27	1.66
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	172	140	3.10	129	2.70	0.40
KWHEP HPS(IPP)	1000	0	940	977	20.59	858	19.20	1.39
Malana Stg-II HPS	100	0	52	84	1.66	69	1.65	0.01
Shree Cement TPS	300	0	30	45	0.87	36	0.80	0.07
Budhil HPS(IPP)	70	0	5	10	0.25	10	0.17	0.07
Sub Total (G)	1662	0	1199	1256	26.47	1103	24.53	1.94
H. Total Regional Entities (A-G)	22336	17186	17169	15938	367.10	15296	369.42	-2.32

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	1055	1020	21.21	884	
	Guru Nanak Dev TPS(Bhatinda)	440	212	268	4.07	170	
	Guru Hargobind Singh TPS(L.mbt)	920	934	701	17.28	720	
	Thermal (Total)	2620	2201	1989	42.56	1773	
	Total Hydro	1148	684	346	10.91	455	
	Total Punjab	3768	2885	2335	53.48	2228	
Haryana	Panipat TPS	1367	1021	1031	24.22	1009	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	174	179	3.72	155	
	RGTPP (kheadar) (IPP)	1200	695	697	16.71	696	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	352	473	10.47	436	
	Thermal (Total)	4944	2242	2380	55.12	2297	
	Total Hydro	62	33	32	0.83	34	
	Total Haryana	5006	2275	2412	55.95	2331	
Rajasthan	kota TPS	1240	867	794	19.11	796	
	suratgarh TPS	1500	992	959	22.80	950	
	Chabra TPS	500	411	379	9.15	381	
	Dholpur GPS	330	207	129	3.50	146	
	Ramgarh GPS	111	77	75	1.84	77	
	RAPS A (NPC)	300	179	179	4.16	173	
	Barsingar (NLC)	250	0	28	0.00	0	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	540	437	328	9.91	413	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3170	2871	70.46	2936	
	Total Hydro	550	126	48	2.63	110	
	Wind power	1843	353	565	11.32	472	
	Biomass	91	18	18	0.42	18	
	Solar	128	0	0	0.15	6	
	Renewable/Others (Total)	2062	371	583	14.52	605	
		Total Rajasthan	7767	3667	3502	87.61	3651
	UP	Anpara TPS	1630	1011	1091	23.60	983
Obra TPS		1382	486	398	9.40	392	
Paricha TPS		890	423	391	8.10	338	
Panki TPS		210	40	40	0.90	38	
Harduaganj TPS		665	284	254	5.20	217	
Tanda TPS (NTPC)		440	392	389	8.94	372	
Roza TPS (IPP)		1200	410	540	10.43	434	
Anpara-C (IPP)		1200	318	318	7.78	324	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	176	115	3.49	146	
Thermal (Total)		8067	3540	3536	77.83	3243	
Vishnuparyag HPS (IPP)		400	436	436	9.99	416	
Other Hydro		527	155	0	4.32	180	
Cogeneration		981	20	20	0.48	20	
		Total UP	9975	4151	3992	92.62	3443
Uttarakhand		Total Hydro	1303	640	717	16.74	697
	Total Uttarakhand	1303	640	717	16.74	697	
Delhi	Raighat TPS	135	96	91	2.21	92	
	Delhi Gas Turbine	282	71	148	2.22	93	
	Pragati Gas Turbine	330	290	262	6.74	281	
	Rithala GPS	108	0	0	0.07	3	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	475	475	10.02	418	
	Thermal (Total)	2237	932	976	21.26	886	
		Total Delhi	2237	932	976	21.26	886
HP	Baspa HPS (IPP)	330	337	306	7.37	307	
	Malana HPS (IPP)	86	83	90	2.08	87	
	Other Hydro	589	612	594	14.68	612	
		Total HP	1005	1032	990	24	1005
J & K	Baglihar HPS (IPP)	450	442	442	10.58	441	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	627	652	15.31	638
Total State Control Area Generation		32017	16209	15576	367.09	14879	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2446	1900	65.70	2738	
Total Regional Availability(Gross)		54353	35824	33414	799.89	32913	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9366	8324	205.30	8554
State Control Area Hydro	5368	3297	2785	84.84	3119
Total Regional Hydro	15731	12663	11109	290.15	11673

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	400	-50	400	100	3.56	0.53			3.03
Gwalior-Agra (D/C)	379	280	872	0	12.24	0.00			12.24
Zerda-Kankroli	-97	-110	0	172	0.00	2.01			-2.01
Zerda-Bhinmal	-99	-112	23	217	1.20	0.23			0.97
Malanpur-Auraiya	-22	-88	0	127	0.00	1.24			-1.24
Badod-Kota/Morak	31	-44	54	76	0.30	0.00			0.30
Mundra-Mohindergarh(HVDC)	601	354	601	0	10.65	0.00			10.65
Sub Total WR	1193	230			27.94	4.01			23.93
Pusauli Bypass	300	300	300	0	6.75	0.00			6.75
MZP- GKP (D/C)	466	740	822	0	16.72	0.00			16.72
Patna-Balia(D/C)	369	403	493	0	8.99	0.00			8.99
B'Sharif-Balia (D/C)	140	238	340	0	6.43	0.00			6.43
Barh - Balia(D/C)	0	0	0	0	0.00	0.00			0.00
Pusauli-Balia	-198	-145	0	200	0.00	1.51			-1.51
Gaya-Fatehpur (765 Kv)	85	13	136	14	1.78	0.00			1.78
Pusauli-Sahupuri	136	146	177	0	3.60	0.00			3.60
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	1253	1670			44.27	2.49			41.78
Total IR Exch	2446	1900			72.21	6.50			65.70

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
25.36	3.51	28.87	19.23	18.85	1.75	0.23	1.33	-1.31
Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
51.18	21.85	73.03	41.78	23.93	65.70	-9.40	2.08	-7.33

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	0.00	0.40	77.40	77.00	75.90	22.60
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.49	3.46	49.64	18.56	50.09	0.28	0.14	50.49	49.94

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	419	4:02	407	22:12	0.0	0.0	0.0	0.0
Gorakhpur	400	428	19:54	417	22:45	0.0	0.0	87.3	0.0
Bareilly	400	425	4:30	406	16:57	0.0	0.0	6.0	0.0
Kanpur	400	428	3:44	413	0:23	0.0	0.0	29.5	0.0
Dadri	400	421	4:02	406	18:52	0.0	0.0	0.7	0.0
Ballabhgarh	400	428	3:44	410	18:54	0.0	0.0	33.2	0.0
Bawana	400	422	4:31	407	18:40	0.0	0.0	3.2	0.0
Bassi	400	435	3:01	413	18:54	0.0	0.0	61.1	8.3
Hissar	400	417	4:01	404	18:54	0.0	0.0	0.0	0.0
Moga	400	421	3:44	406	22:35	0.0	0.0	2.3	0.0
Abdullapur	400	416	3:43	289	16:05	0.3	0.3	0.0	0.0
Nalagarh	400	415	4:01	405	14:24	0.0	0.0	0.0	0.0
Kishenpur	400	416	3:09	403	19:23	0.0	0.0	0.0	0.0
Wagoora	400	414	3:11	390	19:21	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	502.17	1192.70	512.23	1667.20	996.64	586.75
Pong	426.72	384.05	419.23	848.35	423.24	1051.02	843.44	287.19
Tehri	829.79	740.04	822.25	1045.00	818.65	982.26	562.67	448.00
Koteswar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	301.68	347.42
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 15.09.2012 :

1: Partial rains in Delhi, UP, Punjab , J & K , HP,Uttranchal.

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 : 15.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER