

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 29.09.2012

Date of Reporting : 30.09.2012

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
37175	4896	42071	50.07	32553	4181	36734	49.92	813.5	104.76

* 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 *
Punjab	54.78	10.85		65.63	90.10	90.18	0.08	155.81	9.01
Haryana	55.17	0.26		55.43	65.87	64.96	-0.91	120.39	18.58
Rajasthan	76.65	3.54	6.85	87.04	68.34	69.98	1.64	157.02	6.45
Delhi	28.47			28.47	58.75	52.67	-6.08	81.14	0.00
UP	88.59	15.02	0.00	103.61	103.47	106.89	3.42	210.50	64.57
Uttarakhand		18.82		18.82	8.44	10.49	2.05	29.31	3.35
HP		16.15		16.15	7.18	7.95	0.76	24.09	1.10
J & K		15.32	0.00	15.32	16.06	15.45	-0.61	30.77	1.70
Chandigarh				0.00	4.67	4.50	-0.17	4.50	0.00
Total	303.66	79.95	6.85	390.46	422.88	423.06	0.18	813.52	104.76

* 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	STOA/PX transaction	
Punjab	7485	850	-17	1458	6322	0	-12	1450	35.15	
Haryana	5165	839	-28	283	4919	843	-57	402	7.68	
Rajasthan	6976	302	22	841	6241	51	4	1157	24.72	
Delhi	3729	0	-241	-27	2907	0	-409	-321	-3.21	
UP	9449	2643	61	499	9346	2955	612	635	12.77	
Uttarakhand	1482	135	177	-42	932	230	-125	-74	-1.50	
HP	1143	27	39	-674	768	102	-4	-346	-9.73	
J&K	1523	100	-36	-195	973	0	-148	-195	-4.72	
Chandigarh	223	0	-6	-32	145	0	-3	-24	-0.11	
Total	37175	4896	-30	2110	32553	4181	-141	2684	61.05	

* 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), UI: (-ve)]	
							Schedule Net MU	UI Net MU
A. NTPC								
Singrauli STPS	2000	1430	1551	1552	34.94	1456	34.32	0.62
Rihand I STPS	1000	808	925	879	19.54	814	19.36	0.18
Rihand II STPS	1000	888	1040	938	21.52	897	21.31	0.21
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	800	864	871	18.40	767	18.51	-0.11
Dadri II STPS	980	950	1022	1033	23.20	967	21.98	1.22
Unchahar I TPS	420	404	438	438	9.71	404	9.69	0.02
Unchahar II TPS	420	400	432	436	9.62	401	9.58	0.04
Unchahar III TPS	210	200	219	216	4.81	200	4.80	0.01
ISTPP (Jhajhar)	1000	890	801	749	18.08	754	18.38	-0.29
Dadri GPS	830	801	585	586	13.55	565	14.08	-0.53
Anta GPS	419	393	269	261	6.11	255	6.26	-0.15
Auraiya GPS	663	424	309	301	7.16	298	7.22	-0.06
Sub Total (A)	10282	8387	8455	8260	186.63	7776	185.48	1.15
B. NPC								
NAPS	440	266	301	303	6.36	265	6.38	-0.03
RAPS- B	440	412	452	456	9.72	405	9.89	-0.17
RAPS- C	440	455	456	468	9.87	411	10.92	-1.05
Sub Total (B)	1320	1133	1209	1227	25.95	1081	27.19	-1.24
C. NHPC								
Chamera I HPS	540	534	540	0	6.36	265	6.32	0.03
Chamera II HPS	300	300	252	0	3.97	165	3.77	0.19
Chamera III HPS	231	205	232	45	2.86	119	2.78	0.09
Bairasuil HPS	180	182	40	60	1.71	71	1.66	0.04
Salai-HPS	690	351	445	344	8.46	352	8.47	-0.02
Tanakpur-HPS	94	94	95	95	2.30	96	2.24	0.05
Uri-HPS	480	475	479	479	11.62	484	11.48	0.13
Dhauliganga-HPS	280	280	279	72	4.36	182	4.36	-0.01
Duihasti-HPS	390	387	390	386	9.28	387	9.23	0.05
Sewa-II HPS	120	80	85	84	1.94	81	1.92	0.02
Sub Total (C)	3305	2887	2837	1565	52.83	2201	52.24	0.59
D.NJPC								
Nathpa Jhakri	1500	1605	1436	453	17.26	719	17.00	0.25
Sub Total (D)	1500	1605	1436	453	17.26	719	17.00	0.25
E. THDC								
Tehri HPS	1000	1050	1058	0	5.27	220	5.00	0.27
Koteswar HPS	400	370	284	0	1.58	66	1.50	0.08
Sub Total (E)	1400	1420	1342	0	6.85	285	6.50	0.35
F. BBMB								
Bhakra HPS	1480	794	1255	570	19.70	821	19.05	0.65
Dehar HPS	990	493	495	600	12.39	516	11.83	0.57
Pong HPS	396	230	366	126	5.70	238	5.01	0.69
Sub Total (F)	2866	1517	2116	1296	37.79	1575	35.88	1.91
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	67	70	1.52	64	2.17	-0.65
KWHEP HPS(IPP)	1000	0	348	437	9.44	393	9.77	-0.33
Malana Stg-II HPS	100	0	42	40	0.91	38	0.84	0.07
Shree Cement TPS	300	0	136	123	3.07	128	3.02	0.06
Budhil HPS(IPP)	70	0	59	24	0.80	33	0.72	0.08
Sub Total (G)	1662	0	652	694	15.74	656	16.52	-0.78
H. Total Regional Entities (A-G)	22336	16950	18047	13495	343.06	14294	340.82	2.24

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	1258	1262	28.23	1176
	Guru Nanak Dev TPS(Bhatinda)	440	271	266	5.71	238
	Guru Hargobind Singh TPS(L.mbt)	920	947	921	20.84	868
	Thermal (Total)	2620	2476	2449	54.78	2283
	Total Hydro	1148	604	379	10.85	452
	Total Punjab	3768	3080	2828	65.63	2734
Haryana	Panipat TPS	1367	1020	1104	25.75	1073
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	399	407	9.80	408
	RGTPP (khedar) (IPP)	1200	343	477	10.06	419
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	427	360	9.57	399
	Thermal (Total)	4944	2189	2348	55.17	2299
	Total Hydro	62	11	10	0.26	11
	Total Haryana	5006	2200	2358	55.43	2310
Rajasthan	kota TPS	1240	696	967	23.96	998
	suratgarh TPS	1500	875	895	21.52	897
	Chabra TPS	500	449	413	10.33	431
	Dholpur GPS	330	141	105	3.26	136
	Ramgarh GPS	111	66	57	1.49	62
	RAPS A (NPC)	300	179	179	4.18	174
	Barsingsar (NLC)	250	111	110	2.56	107
	Giral LTPS	250	57	53	1.18	49
	Rajwest LTPS (IPP)	540	339	339	8.17	341
	VSLP LTPS (IPP)	135	0	0	0.00	0
	Thermal (Total)	5156	2913	3118	76.65	3194
	Total Hydro	550	185	120	3.54	147
	Wind power	1843	182	101	2.63	110
	Biomass	91	28	28	0.68	28
	Solar	128	0	0	0.00	0
	Renewable/Others (Total)	2062	210	129	6.85	285
	Total Rajasthan	7767	3308	3367	87.04	3627
	UP	Anpara TPS	1630	1225	1176	24.20
Obra TPS		1382	409	396	8.60	358
Paricha TPS		890	292	302	6.40	267
Panki TPS		210	145	70	2.50	104
Harduaganj TPS		665	154	250	3.40	142
Tanda TPS (NTPC)		440	395	399	9.70	404
Roza TPS (IPP)		1200	1098	1119	26.78	1116
Anpara-C (IPP)		1200	0	0	0.00	0
Bajaj Energy Pvt.Ltd(IPP) TPS		450	252	315	7.01	292
Thermal (Total)		8067	3970	4027	88.59	3691
Vishnuparyag HPS (IPP)		400	396	397	9.06	377
Other Hydro		527	255	0	5.97	249
Cogeneration		981	0	0	0.00	0
Total UP		9975	4621	4424	103.61	3940
Uttarakhand		Total Hydro	1303	744	788	18.82
	Total Uttarakhand	1303	744	788	18.82	784
Delhi	Raighat TPS	135	112	108	2.91	121
	Delhi Gas Turbine	282	80	81	1.91	80
	Pragati Gas Turbine	330	296	289	7.05	294
	Rithala GPS	108	21	21	0.62	26
	Bawana GPS	677	221	210	5.57	232
	Badarpur TPS (NTPC)	705	420	540	10.42	434
	Thermal (Total)	2237	1150	1249	28.47	1186
	Total Delhi	2237	1150	1249	28.47	1186
HP	Baspa HPS (IPP)	330	146	176	3.45	144
	Malana HPS (IPP)	86	57	24	0.89	37
	Other Hydro	589	538	516	11.81	492
	Total HP	1005	741	716	16	673
J & K	Baglihar HPS (IPP)	450	440	440	10.59	441
	Other Hydro	323	185	210	4.73	197
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	625	650	15.32	638
Total State Control Area Generation		32017	16469	16380	390.46	15892
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			3334	3608	91.02	3792
Total Regional Availability(Gross)		54353	37850	33483	824.53	33978

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8188	3861	126.60	5275
State Control Area Hydro	5368	3165	2663	79.95	2954
Total Regional Hydro	15731	11353	6524	206.55	8229

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	150	0	500	0	6.87	0.00	6.87
Gwalior-Agra (D/C)	576	381	839	0	17.14	0.00	17.14
Zerda-Kankroli	108	150	163	0	2.60	0.00	2.60
Zerda-Bhinmal	158	190	301	0	4.01	0.00	4.01
Malanpur-Auraiya	-62	-61	0	100	0.00	0.79	-0.79
Badod-Kota/Morak	66	49	40	21	1.08	0.00	1.08
Mundra-Mohindergarh(HVDC)	603	606	606	0	14.75	0.00	14.75
Sub Total WR	1599	1315			46.44	0.79	45.66
Pusauli Bypass	-150	-50	150	150	0.17	1.55	-1.38
MZP- GKP (D/C)	620	954	974	0	18.91	0.00	18.91
Patna-Balia(D/C)	503	451	522	0	10.23	0.00	10.23
B'Sharif-Balia (D/C)	216	260	341	0	5.86	0.00	5.86
Barh - Balia(D/C)	307	311	326	0	6.98	0.00	6.98
Pusauli-Balia	120	230	240	17	2.14	0.00	2.14
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	166	179	191	0	3.65	0.00	3.65
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-47	-42	0	48	0.00	1.03	-1.03
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1735	2293			47.94	2.58	45.36
Total IR Exch	3334	3608			94.38	3.36	91.02

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
32.82	3.01	35.83	12.89	20.05	4.90	6.96	0.25	-0.24
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
53.87	42.35	96.22	45.36	45.66	91.02	-8.52	3.31	-5.21

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	1.50	15.10	97.90	84.30	17.30	0.60
<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
50.34	17.03	49.35	0.09	49.86	0.43	0.15	50.24	49.66

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	412	0:00	404	14:37	0.0	0.0	0.0	0.0
Gorakhpur	400	433	4:03	412	1:17	0.0	0.0	56.9	1.8
Bareilly	400	417	23:45	396	12:17	0.0	0.0	0.0	0.0
Kanpur	400	420	2:02	404	6:07	0.0	0.0	0.0	0.0
Dadri	400	417	4:01	402	12:13	0.0	0.0	0.0	0.0
Ballabgarh	400	424	1:59	407	12:12	0.0	0.0	13.5	0.0
Bawana	400	421	3:57	408	12:13	0.0	0.0	0.6	0.0
Bassi	400	431	4:00	405	12:16	0.0	0.0	47.3	0.3
Hissar	400	413	4:00	396	12:13	0.0	0.0	0.0	0.0
Moga	400	414	4:00	395	12:13	0.0	0.0	0.0	0.0
Abdullapur	400	416	3:57	398	11:56	0.2	0.2	0.0	0.0
Nalagarh	400	416	3:17	398	12:10	0.0	0.0	0.0	0.0
Kishenpur	400	417	3:17	394	19:05	0.0	0.0	0.0	0.0
Wagoora	400	416	3:17	384	19:07	0.0	7.5	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 (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	505.18	1312.37	511.85	1635.65	547.56	562.74
Pong	426.72	384.05	422.59	1005.78	423.48	1051.02	242.79	318.59
Tehri	829.79	740.04	823.80	1080.00	818.65	982.26	175.10	115.00
Koteswar	612.50	598.50	607.65	3.76	NA	NA	115.00	106.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	165.24	172.28
Rihand	268.22	252.98	264.14	554.30	265.54	650.20	NA	NA
RPS	352.80	343.81	352.76	NA	349.33	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.82	NA	297.67	NA	NA	106.75
RSD	527.91	487.91	521.08	NA	523.81	NA	192.24	144.05

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 29.09.2012 :

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 :

1. 400kv Breilly-Meerut & Meerut-Mandola-4 first time charged at 17.20 & 17.46 hrs respectively after LLO of 400kv Breilly-Mandola-2 at Meerut.

XIV. Tripping of lines in pooling stations :

XV. Complete generation loss in a generating station :

Report for : 29.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER