

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.09.2012

Date of Reporting : 26.09.2012

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
35032	4333	39364	50.12	32669	2535	35204	50.13	792.9	82.91

* 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	52.43	11.30		63.73	77.78	77.91	0.14	141.65	7.57
Haryana	54.16	0.82		54.98	69.18	69.40	0.22	124.38	9.14
Rajasthan	80.84	1.96	9.53	92.33	52.26	54.88	2.62	147.20	8.20
Delhi	23.33			23.33	60.86	58.82	-2.04	82.15	0.02
UP	92.45	15.50	0.00	107.95	103.59	102.96	-0.63	210.91	51.72
Uttarakhand		20.28		20.28	7.66	9.95	2.29	30.22	1.86
HP		17.49		17.49	4.13	4.85	0.72	22.34	2.70
J & K		15.30	0.00	15.30	15.71	14.07	-1.65	29.37	1.70
Chandigarh				0.00	4.85	4.70	-0.15	4.70	0.00
Total	303.21	82.65	9.53	395.38	396.02	397.54	1.52	792.92	82.91

* 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	6387	1138	-14	766	5975	0	-114	1265	23.26	
Haryana	5332	413	-111	1045	4923	436	67	340	13.14	
Rajasthan	6194	679	-105	232	6146	77	85	125	8.25	
Delhi	3801	0	-420	102	2947	0	-64	-334	-1.16	
UP	8957	1650	-327	493	9584	1952	170	1425	18.03	
Uttarakhand	1466	160	69	-70	1137	70	59	-74	-2.46	
HP	1105	193	18	-829	885	0	63	-554	-15.34	
J&K	1559	100	60	-248	916	0	-271	-248	-5.96	
Chandigarh	230	0	-11	2	158	0	6	-25	0.20	
Total	35032	4333	-840	1493	32669	2535	0	1919	37.97	

* 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	1430	1558	1563	34.60	1442	34.32	0.28
Rihand I STPS	1000	764	932	810	18.43	768	18.31	0.12
Rihand II STPS	1000	555	572	871	13.17	549	13.31	-0.14
Rihand III STPS	500	0	0	0	0.00	0		0.00
Dadri I STPS	840	800	855	625	15.00	625	15.07	-0.07
Dadri II STPS	980	966	978	710	20.51	854	21.30	-0.80
Unchahar I TPS	420	403	434	429	9.42	393	9.37	-0.15
Unchahar II TPS	420	400	429	429	9.28	387	9.38	-0.10
Unchahar III TPS	210	199	215	212	4.63	193	4.65	-0.02
ISTPP (Jhajhar)	1000	950	812	715	17.89	745	17.97	-0.08
Dadri GPS	830	798	599	562	13.53	564	13.73	-0.19
Anta GPS	419	393	252	240	5.87	245	5.89	-0.02
Auraiya GPS	663	420	301	281	7.00	292	7.01	-0.01
Sub Total (A)	10282	8078	7937	7447	169.32	7055	170.51	-1.19
B. NPC								
NAPS	440	265	302	308	6.39	266	6.36	0.03
RAPS- B	440	408	453	452	9.73	405	9.79	-0.06
RAPS- C	440	455	466	463	9.86	411	10.92	-1.06
Sub Total (B)	1320	1128	1223	1223	25.99	1083	12.27	-1.09
C. NHPC								
Chamera I HPS	540	534	540	540	12.80	533	12.82	-0.01
Chamera II HPS	300	288	301	121	5.21	217	5.24	-0.03
Chamera III HPS	231	218	233	156	3.86	161	3.94	-0.08
Bairasuil HPS	180	120	120	60	2.27	95	2.36	-0.09
Salai-HPS	690	426	452	443	10.49	437	10.24	0.24
Tanakpur-HPS	94	94	95	94	2.27	95	2.24	0.03
Uri-HPS	480	475	478	477	11.53	481	11.28	0.25
Dhauliganga-HPS	280	277	276	141	4.58	191	4.51	0.08
Dulhasi-HPS	390	387	400	410	9.26	386	9.12	0.13
Sewa-II HPS	120	71	83	71	1.70	71	1.72	-0.01
Sub Total (C)	3305	2889	2978	2513	63.98	2666	63.47	0.51
D.NJPC								
Natpna Jhakri	1500	1605	1520	702	21.16	882	21.00	0.16
Sub Total (D)	1500	1605	1520	702	21.16	882	21.00	0.16
E. THDC								
Tehri HPS	1000	1050	1058	0	8.34	347	8.00	0.34
Koteshwar HPS	400	370	372	0	2.79	116	2.70	0.09
Sub Total (E)	1400	1420	1430	0	11.13	464	10.70	0.43
F. BBMB								
Bhakra HPS	1480	755	1256	565	18.48	770	18.13	0.35
Dehar HPS	990	296	330	495	6.96	290	7.12	-0.16
Pong HPS	396	219	366	126	5.45	227	5.01	0.44
Sub Total (F)	2866	1271	1952	1186	30.89	1287	30.25	0.64
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	74	77	1.81	76	2.17	-0.36
KWHEP HPS(IPP)	1000	0	212	275	11.73	489	12.23	-0.50
Malana Stg-II HPS	100	0	41	41	0.99	41	0.91	0.08
Shree Cement TPS	300	0	123	41	2.46	103	2.22	0.25
Budhil HPS(IPP)	70	0	10	35	0.57	24	0.20	0.37
Sub Total (G)	1662	0	460	469	17.57	732	17.74	-0.17
H. Total Regional Entities (A-G)	22336	16391	17498	13540	340.03	14168	340.74	-0.71

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	1260	1254	27.94	1164	
	Guru Nanak Dev TPS(Bhatinda)	440	160	179	3.35	139	
	Guru Hargobind Singh TPS(L.mbt)	920	950	968	21.15	881	
	Thermal (Total)	2620	2370	2401	52.43	2185	
	Total Hydro	1148	547	292	11.30	471	
	Total Punjab	3768	2917	2693	63.73	2656	
Haryana	Panipat TPS	1367	984	967	23.93	997	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	399	409	9.92	413	
	RGTPP (kheadar) (IPP)	1200	472	405	11.30	471	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	375	345	9.00	375	
	Thermal (Total)	4944	2230	2126	54.16	2257	
	Total Hydro	62	32	33	0.82	34	
	Total Haryana	5006	2262	2159	54.98	2291	
Rajasthan	kota TPS	1240	887	880	20.77	865	
	suratgarh TPS	1500	1084	1100	25.92	1080	
	Chabra TPS	500	454	449	10.94	456	
	Dholpur GPS	330	140	144	3.31	138	
	Ramgarh GPS	111	57	57	1.50	62	
	RAPS A (NPC)	300	179	179	4.26	178	
	Barsingar (NLC)	250	106	110	2.24	93	
	Giral LTPS	250	45	31	1.13	47	
	Rajwest LTPS (IPP)	540	468	425	10.78	449	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Thermal (Total)	5156	3420	3375	80.84	3368	
	Total Hydro	550	106	49	1.96	82	
	Wind power	1843	44	691	6.88	287	
	Biomass	91	29	29	0.70	29	
	Solar	128	0	0	0.00	0	
	Renewable/Others (Total)	2062	73	720	9.53	397	
	Total Rajasthan	7767	3599	4144	92.33	3847	
	UP	Anpara TPS	1630	1243	1100	27.20	1133
		Obra TPS	1382	293	341	7.40	308
		Paricha TPS	890	520	543	12.30	513
Panki TPS		210	63	59	1.40	58	
Harduaganj TPS		665	212	224	5.30	221	
Tanda TPS (NTPC)		440	393	395	9.63	401	
Roza TPS (IPP)		1200	752	536	16.21	676	
Anpara-C (IPP)		1200	486	486	9.58	399	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	101	155	3.44	143	
Thermal (Total)		8067	4063	3839	92.45	3852	
Vishnuparyag HPS (IPP)		400	436	436	9.58	399	
Other Hydro		527	213	0	5.93	247	
Cogeneration		981	0	0	0.00	0	
Total UP		9975	4712	4275	107.95	4099	
Uttarakhand		Total Hydro	1303	880	821	20.28	845
		Total Uttarakhand	1303	880	821	20.28	845
Delhi	Raighat TPS	135	53	39	0.89	37	
	Delhi Gas Turbine	282	72	72	1.92	80	
	Pragati Gas Turbine	330	290	268	6.97	290	
	Rithala GPS	108	21	20	0.40	17	
	Bawana GPS	677	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	575	580	13.15	548	
	Thermal (Total)	2237	1011	979	23.33	972	
	Total Delhi	2237	1011	979	23.33	972	
HP	Baspa HPS (IPP)	330	180	60	3.76	156	
	Malana HPS (IPP)	86	59	23	1.04	43	
	Other Hydro	589	556	502	12.70	529	
	Total HP	1005	795	585	17	729	
J & K	Baglihar HPS (IPP)	450	440	440	10.57	440	
	Other Hydro	323	185	210	4.73	197	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	625	650	15.30	637	
Total State Control Area Generation		32017	16801	16306	395.38	16075	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1831	3154	76.31	3179	
Total Regional Availability(Gross)		54353	36130	33000	811.72	33423	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8207	4794	141.69	5904
State Control Area Hydro	5368	3198	2430	82.65	3045
Total Regional Hydro	15731	11405	7224	224.34	8949

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	50	-200	500	300	2.07	1.51	0.56		
Gwalior-Agra (D/C)	185	644	957	0	14.06	0.00	14.06		
Zerda-Kankroli	-87	77	108	104	0.53	0.00	0.53		
Zerda-Bhinmal	-15	90	179	61	1.88	0.00	1.88		
Malanpur-Auraiya	162	46	0	162	1.18	0.00	1.18		
Badod-Kota/Morak	-11	75	111	31	1.56	0.00	1.56		
Mundra-Mohindergarh(HVDC)	604	606	607	0	14.75	0.00	14.75		
Sub Total WR	888	1338			36.03	1.51	34.52		
Pusauli Bypass	-150	250	250	150	2.94	1.70	1.24		
MZP- GKP (D/C)	380	608	842	0	15.70	0.00	15.70		
Patna-Balia(D/C)	325	463	591	0	10.74	0.00	10.74		
B'Sharif-Balia (D/C)	65	282	416	0	4.70	0.00	4.70		
Barh - Balia(D/C)	204	0	530	0	4.89	0.00	4.89		
Pusauli-Balia	0	-12	0	62	0.00	0.23	-0.23		
Gaya-Fatehpur (765 Kv)	0	93	296	0	2.09	0.00	2.09		
Pusauli-Sahupuri	166	174	181	0	3.69	0.00	3.69		
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	943	1816			44.75	2.96	41.79		
Total IR Exch	1831	3154			80.78	4.47	76.31		

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
30.69	3.72	34.41	6.13	7.13	2.00	4.71	4.61	-4.60
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
47.14	22.24	69.39	41.79	34.52	76.31	-5.35	12.27	6.92

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	0.30	4.10	95.80	92.00	36.70	3.90
Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum		Hz			MAX (Hz)	MIN (Hz)
50.40	8.04	49.43	22.07	49.95	0.23	0.14	50.35	49.69

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	416	8:01	408	1:05	0.0	0.0	0.0	0.0
Gorakhpur	400	428	20:14	408	10:53	0.0	0.0	48.1	0.0
Bareilly	400	420	18:03	401	1:07	0.0	0.0	0.0	0.0
Kanpur	400	418	22:49	405	10:12	0.0	0.0	0.0	0.0
Dadri	400	418	2:56	403	14:14	0.0	0.0	0.0	0.0
Ballabgarh	400	424	2:56	407	14:12	0.0	0.0	10.9	0.0
Bawana	400	421	2:59	407	10:39	0.0	0.0	0.1	0.0
Bassi	400	428	3:00	405	9:48	0.0	0.0	36.9	0.0
Hissar	400	408	22:55	397	14:11	0.0	0.0	0.0	0.0
Moga	400	409	2:59	395	11:43	0.0	0.0	0.0	0.0
Abdullapur	400	417	2:27	294	22:34	0.1	0.1	0.0	0.0
Nalagarh	400	416	2:56	402	10:43	0.0	0.0	0.0	0.0
Kishenpur	400	412	2:57	399	20:17	0.0	0.0	0.0	0.0
Wagoora	400	412	23:54	387	20:18	0.0	3.7	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	505.24	1325.82	512.07	1650.87	566.02	439.51
Pong	426.72	384.05	422.54	1005.78	423.72	1066.19	363.11	295.71
Tehri	829.79	740.04	822.95	1065.00	818.65	982.26	268.69	229.00
Koteshwar	612.50	598.50	609.30	4.21	NA	NA	482.00	504.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	337.32	346.75
Rihand	268.22	252.98	264.11	552.20	265.54	652.40	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	520.00	NA	524.83	NA	360.44	46.18

* NA: Not Available

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 25.09.2012 :

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 : 25.09.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER