

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 28.11.2011
Date of Reporting : 29.11.2011

I. Regional Availability/Demand:

Evening Peak (19:00 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
29671	2760	32431	49.90	23369	900	24268.635	50.05	646.4	38.52

* Half hourly (two 15 minutes block--one block each before and after the designated time) average frequency

II. A. State's Load Energy 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	43.77	10.31		54.07	29.55	31.46	1.90	85.53	4.30
Haryana	63.59	0.82		64.41	24.67	25.80	1.13	90.21	4.39
Rajasthan	83.99	5.04	12.71	101.73	52.16	51.01	-1.15	152.74	1.55
Delhi	25.22			25.22	35.97	30.66	-5.31	55.88	0.16
UP	92.20	4.49	9.60	106.29	77.61	74.27	-3.33	180.56	25.34
Uttarakhand		9.09		9.09	14.48	16.84	2.37	25.93	1.06
HP		5.81		5.81	15.55	16.22	0.67	22.03	0.03
J & K		6.43	0.00	6.43	21.60	23.76	2.16	30.19	1.70
Chandigarh				0.00	3.52	3.29	-0.23	3.29	0.00
Total	308.76	41.98	22.31	373.05	275.10	273.30	-1.80	646.35	38.52

* Shortage furnished by the respective constituent.

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 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	3973	600	-28	-364	2877	0	-98	-537	-7.91
Haryana	4043	694	-75	-92	2985	0	-327	-106	-2.61
Rajasthan	6454	240	135	409	6229	0	-105	534	14.26
Delhi	2944	1	-213	-410	1365	0	-413	-675	-11.88
UP	8159	1045	-449	124	7194	900	124	124	2.98
Uttarakhand	1355	80	79	194	847	0	29	194	4.65
HP	1130	0	-230	-318	668	0	112	4	-2.64
J&K	1434	100	-124	92	1121	0	108	165	3.30
Chandigarh	179	0	-21	0	83	0	-9	-30	-0.24
Total	29671	2760	-926	-364	23369	900	-580	-328	-0.09

* 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)	Schedule Net MU	UI Net MU	
										UI
A. NTPC	Singrauli STPS	2000	1921	2077	2062	46.60	1941	46.10	0.49	
	Rihand I STPS	1000	820	1000	844	19.82	826	19.54	0.28	
	Rihand II STPS	1000	977	1041	992	23.55	981	23.29	0.26	
	Dadri I STPS	840	585	640	446	13.22	551	13.07	0.15	
	Dadri II STPS	980	922	980	707	21.21	884	21.34	-0.14	
	Unchahar I TPS	440	337	419	333	8.05	335	7.99	0.06	
	Unchahar II TPS	440	337	423	324	8.02	334	7.87	0.15	
	Unchahar III TPS	210	169	211	167	4.02	167	3.96	0.06	
	ISTPP (Jhajihar)	1000	475	516	488	11.36	473	11.26	0.10	
	Dadri GPS	830	815	676	517	15.91	663	16.23	-0.31	
	Anta GPS	419	417	308	289	8.30	346	8.04	0.26	
	Auraiya GPS	663	630	442	369	10.39	433	10.32	0.07	
	Sub Total (A)	9822	8405	8733	7538	190.43	7935	189.02	1.42	
	B. NPC	NAPS	440	205	238	242	4.90	204	4.92	-0.02
		RAPS- B	440	208	229	231	5.00	208	4.99	0.01
RAPS- C		440	420	474	476	10.26	427	10.08	0.18	
Sub Total (B)		1320	833	941	949	20.15	840	19.99	0.16	
C. NHPC		Chamera I HPS	540	534	360	0	3.17	132	3.10	0.07
	Chamera II HPS	300	297	214	0	1.63	68	1.66	-0.03	
	Bairasuil HPS	180	120	60	0	0.61	25	0.60	0.01	
	Salal-HPS	690	143	320	143	3.36	140	3.41	-0.06	
	Tanakpur-HPS	94	42	41	32	0.99	41	1.04	-0.05	
	Uri-HPS	480	130	240	43	3.11	130	2.95	0.15	
	Dhauliganga-HPS	280	277	206	0	1.50	62	1.48	0.02	
	Dulhasti-HPS	390	388	209	0	3.45	144	3.55	-0.10	
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00	
	Sub Total (C)	3074	1930	1650	218	17.80	742	17.79	0.01	
	D. NJPC	Nathpa Jhakri	1500	1600	1600	0	9.71	405	9.50	0.21
Sub Total (D)		1500	1600	1600	0	9.71	405	9.50	0.21	
E. THDC	Tehri HPS	1000	693	921	0	4.92	205	5.00	-0.08	
	Koteshwar HPS	200	69	165	0	1.53	64	1.50	0.03	
	Sub Total (E)	1200	762	1086	0	6.45	269	6.50	-0.05	
F. BBMB	Bhakra HPS	1480	690	905	493	17.19	716	16.56	0.63	
	Dehar HPS	990	162	495	0	4.03	168	3.90	0.13	
	Pong HPS	396	226	306	186	5.67	236	5.43	0.24	
	Sub Total (F)	2866	1079	1706	679	26.89	1120	25.89	1.00	
	G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	35	0	0.46	19	0.44	0.01
KWHEP HPS(IPP)		1000	0	220	128	5.78	241	5.29	0.49	
Malana Stg-II HPS		100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS		150	0	134	0	2.21	92	2.62	-0.41	
Sub Total (G)		1442	0	389	128	8.45	352	8.36	0.10	
H. Total Regional Entities (A-G)	21225	14609	16105	9512	279.89	11662	277.04	2.85		

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	840.00	720.00	18.41	767	
	Guru Nanak Dev TPS(Bhatinda)	440	205.00	215.00	4.51	188	
	Guru Hargobind Singh TPS(L.mbt)	920	949.00	860.00	20.85	869	
	Thermal (Total)	2620	1994.00	1795.00	43.77	1824	
	Total Hydro	1148	277.00	250.00	10.31	429	
	Total Punjab	3768	2271	2045	54.07	2253	
Haryana	Panipat TPS	1360	1108.00	1123.00	27.04	1126	
	DCRTPP (Yamuna nagar)	600	265.00	268.00	6.44	268	
	Faridabad GPS (NTPC)	432	396.00	395.00	9.43	393	
	RGTPP (khedar) (IPP)	1200	820.00	779.00	20.70	862	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2589.00	2565.00	63.59	2650	
	Total Hydro	62	27.00	31.00	0.82	34	
		Total Haryana	3679	2616	2596	64.41	2684
Rajasthan	kota TPS	1240	1157.00	1115.00	27.30	1138	
	suratgarh TPS	1500	1151.00	1152.00	27.34	1139	
	Chabra TPS	500	409.00	416.00	8.55	356	
	Dholpur GPS	330	249.00	253.00	6.13	255	
	Ramgarh GPS	113	65.00	65.00	1.66	69	
	RAPS A (NPC)	300	174.00	178.00	4.39	183	
	Barsingsar (NLC)	250	0.00	0.00	0.00	0	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwst LTPS (IPP)	540	344.00	344.00	8.62	359	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3549.00	3523.00	83.99	3499	
	Total Hydro	550	160.00	137.00	5.04	210	
	Wind power	1294	302.00	392.00	6.93	289	
	Biomass	71	31.00	31.00	0.74	31	
	Solar	50	0.00	0.00	0.00	0	
	Renewable/Others (Total)	1365	333	423	12.71	529	
		Total Rajasthan	7073	4042	4083	101.73	4239
	UP	Anpara TPS	1630	1445	1504	31.90	1329
Obra TPS		1442	625	670	13.90	579	
Paricha TPS		640	392	411	8.70	363	
Panki TPS		210	190	105	3.60	150	
Harduaganj TPS		415	190	261	3.40	142	
Tanda TPS (NTPC)		440	398	401	9.82	409	
Roza TPS (IPP)		600	567	559	13.50	563	
Anpara-C (IPP)		1200	486	0	5.94	248	
Bajaj Energy Pvt.Ltd(IPP) TPS		180	81	81	1.44	60	
Thermal (Total)		6757	4374	3992	92.20	3842	
Vishnuparyag HPS (IPP)		400	134	119	2.96	123	
Other Hydro		527	53	15	1.53	64	
Cogeneration		951	400	400	9.60	400	
		Total UP	8635	4961	4526	106.29	4305
Uttarakhand		Total Hydro	1303	456	275	9.09	379
		Total Uttarakhand	1303	456	275	9.09	379
Delhi	Rajghat TPS	135	102	101	2.72	113	
	Delhi Gas Turbine	282	162	161	4.08	170	
	Pragati Gas Turbine	330	309	305	7.51	313	
	Rithala GPS	108	22	29	0.50	21	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	430	10.42	434	
	Thermal (Total)	2000	1090	1026	25.22	1051	
	Total Delhi	2000	1090	1026	25.22	1051	
HP	Baspa HPS (IPP)	330	0	0	1.46	61	
	Malana HPS (IPP)	101	2	0	0.34	14	
	Other Hydro	571	211	148	4.02	167	
	Total HP	1002	213	148	6	242	
J & K	Baglihar HPS (IPP)	450	294	147	4.70	196	
	Other Hydro	323	54	100	1.73	72	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	348	247	6.43	268	
Total State Control Area Generation		28416	15997	14946	373.05	15421	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			-210	347	16.25	677	
Total Regional Availability(Gross)		49641	31892	24805	669.19	27760	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6431	1025	69.31	2888
State Control Area Hydro	5365	1534	1103	39.03	1626
Total Regional Hydro	15447	7965	2128	108.33	4514

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	-400	-400	0	400	0.00	9.72	-9.72
Gwalior-Agra (D/C)	71	219	726	0	9.21	0.00	9.21
Zerda-Kankroli	-174	-113	0	213	0.00	2.59	-2.59
Zerda-Bhinmal	-111	-58	0	199	0.00	0.47	-0.47
Malanpur-Auraiya	-201	-168	0	201	0.00	3.40	-3.40
Badod-Kota/Morak	-76	-92	0	152	0.00	1.83	-1.83
Sub Total WR	-891	-612			9.21	18.01	-8.80
Pusauli Bypass	250	250	250	0	6.02	0.00	6.02
MZP- GKP (D/C)	147	213	493	0	6.87	0.00	6.87
Patna-Balia(D/C)	163	266	393	0	6.26	0.00	6.26
B'Sharif-Balia (D/C)	0	188	356	0	4.08	0.00	4.08
Barh - balia(D/C)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	153	78	153	0	2.74	0.00	2.74
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-32	-36	0	48	0.00	0.93	-0.93
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	681	959			25.98	0.93	25.05
Total IR Exch	-210	347			35.19	18.94	16.25

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
17.00	0.75	17.74	7.62	-6.22	-0.84	4.24	3.72	-3.72

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
28.24	-11.16	17.08	25.05	-8.80	16.25	-3.19	2.36	-0.83

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	0.10	8.70	41.70	90.90	57.90	9.00	0.40

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				
50.28	4.04	49.19	8.14	49.75	0.96	0.18	50.22	49.19

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	409	03:31	402	11:22	0.0	0.0	0.0	0.0
Gorakhpur	400	432	04:02	410	11:22	0.0	0.0	90.8	2.4
Bareilly	400	428	04:03	408	09:38	0.0	0.0	44.4	0.0
Kanpur	400	425	04:02	406	11:22	0.0	0.0	12.0	0.0
Dadri	400	423	04:02	0	09:10	9.8	9.8	9.1	0.0
Ballabgarh	400	428	04:00	406	11:26	0.0	0.0	45.1	0.0
Bawana	400	427	04:02	406	11:22	0.0	0.0	41.4	0.0
Bassi	400	431	04:03	397	06:26	0.0	0.0	15.7	0.2
Hissar	400	415	04:03	397	11:22	0.0	0.0	0.0	0.0
Moga	400	418	04:06	402	07:09	0.0	0.0	0.0	0.0
Abdullapur	400	426	04:03	403	11:22	0.0	0.0	27.7	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	412	04:06	388	06:51	0.0	1.8	0.0	0.0
Wagoora	400	398	04:06	367	06:52	25.0	64.2	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	507.43	1426.07	509.44	1515.09	202.75	461.23
Pong	426.72	384.05	417.57	781.19	420.39	902.94	52.05	334.08
Tehri	829.79	740.04	816.50	932.25	NA	NA	74.15	111.00
Koteshwar	612.50	598.50	600.40	0.80	NA	NA	111.00	101.00
Chamera-I	760.00	748.75	752.20	NA	752.95	8.80	54.48	90.54
Rihand	268.22	252.98	261.58	587.70	257.74	189.70	NA	NA
RPS	352.80	343.81	350.64	NA	NA	NA	NA	249.61
Jawahar Sagar	298.70	295.78	297.58	NA	NA	NA	NA	243.84
RSD	527.91	487.91	518.60	NA	519.60	NA	100.47	253.80

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 28.11.2011 :

1.Normal

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 : 28.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER