

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.11.2011
Date of Reporting : 26.11.2011

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
29581	2241	31822	49.79	25008	1005	26013	50.00	649.1	46.73

* 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	49.23	12.14		61.38	25.32	25.85	0.53	87.23	2.50
Haryana	65.21	0.84		66.05	25.57	24.05	-1.52	90.10	4.42
Rajasthan	87.42	4.87	2.41	94.70	53.08	54.21	1.13	148.91	6.68
Delhi	21.66			21.66	41.64	36.26	-5.39	57.92	0.48
UP	82.48	6.70	9.60	98.78	89.39	79.72	-9.67	178.50	30.50
Uttarakhand		8.91		8.91	17.42	18.00	0.58	26.90	0.30
HP		5.97		5.97	15.54	16.73	1.19	22.71	0.26
J & K		6.43	0.00	6.43	22.03	26.92	4.89	33.35	1.60
Chandigarh				0.00	3.54	3.45	-0.10	3.45	0.00
Total	305.99	45.87	12.01	363.87	293.53	285.18	-8.35	649.05	46.73

* 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	4057	0	-6	-564	3095	0	-228	-737	-12.71
Haryana	4348	654	73	-88	2966	0	-600	-104	-2.49
Rajasthan	6349	203	102	436	6637	0	632	561	14.92
Delhi	3050	6	-184	-255	1480	0	-658	-520	-8.19
UP	7622	1265	-874	391	7846	1005	319	391	9.39
Uttarakhand	1316	0	-30	316	962	0	61	316	7.58
HP	1137	13	-164	-340	706	0	156	4	-2.87
J&K	1521	100	-93	79	1230	0	179	158	2.97
Chandigarh	181	0	-25	0	86	0	-6	-30	-0.24
Total	29581	2241	-1201	-23	25008	1005	-145	40	8.36

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

III. Regional Entities :

A. NTPC	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
	Singrauli STPS	2000	1921	2069	2081	47.45	1977	46.10	1.34
	Rihand I STPS	1000	804	890	860	19.47	811	19.29	0.18
	Rihand II STPS	1000	977	1047	1038	23.67	986	23.45	0.22
	Dadri I STPS	840	585	635	518	13.86	578	13.78	0.08
	Dadri II STPS	980	922	956	973	22.36	932	22.13	0.23
	Unchahar I TPS	440	395	427	430	9.50	396	9.48	0.02
	Unchahar II TPS	440	402	442	436	9.72	405	9.65	0.08
	Unchahar III TPS	210	192	221	174	4.64	193	4.60	0.03
	ISTPP (Jhajihar)	1000	439	367	523	10.49	437	10.53	-0.04
	Dadri GPS	830	817	790	581	16.00	667	17.73	-1.73
	Anta GPS	419	419	407	347	8.76	365	8.93	-0.17
	Auraiya GPS	663	629	596	470	11.94	497	11.85	0.09
	Sub Total (A)	9822	8501	8847	8431	197.85	8244	197.52	0.33
B. NPC	NAPS	440	203	233	240	4.80	200	4.87	-0.07
	RAPS- B	440	249	230	230	4.98	207	5.97	-0.99
	RAPS- C	440	420	475	478	10.21	426	10.08	0.13
	Sub Total (B)	1320	872	938	948	19.99	833	20.92	-0.93
C. NHPC	Chamera I HPS	540	534	360	0	3.34	139	3.36	-0.02
	Chamera II HPS	300	297	194	0	1.54	64	1.61	-0.07
	Bairasuil HPS	180	179	60	0	0.58	24	0.56	0.02
	Salal-HPS	690	164	247	143	3.51	146	3.93	-0.42
	Tanakpur-HPS	94	41	48	36	1.01	42	0.99	0.02
	Uri-HPS	480	138	207	105	3.14	131	3.38	-0.24
	Dhauliganga-HPS	280	277	220	228	1.48	62	1.40	0.08
	Dulhasti-HPS	390	388	213	0	3.55	148	3.82	-0.27
	Sewa-II HPS	120	0	0	0	0.00	0	0.00	0.00
	Sub Total (C)	3074	2018	1549	512	18.15	756	19.06	-0.91
D. NJPC	Nathpa Jhakri	1500	1600	1596	0	10.06	419	9.77	0.29
	Sub Total (D)	1500	1600	1596	0	10.06	419	9.77	0.29
E. THDC	Tehri HPS	1000	563	1038	0	4.49	187	4.50	-0.01
	Koteshwar HPS	200	64	87	82	1.41	59	1.30	0.11
	Sub Total (E)	1200	627	1125	82	5.89	246	5.80	0.09
F. BBMB	Bhakra HPS	1480	682	905	483	16.72	697	16.36	0.36
	Dehar HPS	990	174	495	0	4.14	173	4.18	-0.04
	Pong HPS	396	222	306	186	5.51	230	5.32	0.19
	Sub Total (F)	2866	1078	1706	669	26.37	1099	25.86	0.51
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	35	0	0.45	19	0.44	0.01
	KWHEP HPS(IPP)	1000	0	367	126	5.55	231	5.28	0.27
	Malana Stg-II HPS	100	0	0	0	0.00	0	0.00	0.00
	Shree Cement TPS	150	0	124	130	3.07	128	2.74	0.33
	Sub Total (G)	1442	0	526	256	9.07	378	8.46	0.61
H. Total Regional Entities (A-G)		21225	14695	16287	10898	287.39	11975	287.39	0.00

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	1045.00	1045.00	23.36	973	
	Guru Nanak Dev TPS(Bhatinda)	440	215.00	215.00	4.63	193	
	Guru Hargobind Singh TPS(L.mbt)	920	947.00	964.00	21.25	885	
	Thermal (Total)	2620	2207.00	2224.00	49.23	2051	
	Total Hydro	1148	275.00	274.00	12.14	506	
	Total Punjab	3768	2482	2498	61.38	2557	
Haryana	Panipat TPS	1360	1115.00	1108.00	27.07	1128	
	DCRTPP (Yamuna nagar)	600	271.00	273.00	6.60	275	
	Faridabad GPS (NTPC)	432	429.00	378.00	9.49	395	
	RGTPP (khedar) (IPP)	1200	823.00	861.00	22.05	919	
	Magnum Diesel (IPP)	25	0.00	0.00	0.00	0	
	Thermal (Total)	3617	2638.00	2620.00	65.21	2717	
	Total Hydro	62	39.00	39.00	0.84	35	
	Total Haryana	3679	2677	2659	66.05	2752	
Rajasthan	kota TPS	1240	1161.00	1155.00	27.78	1158	
	suratgarh TPS	1500	1158.00	1155.00	27.70	1154	
	Chabra TPS	500	410.00	390.00	9.73	405	
	Dholpur GPS	330	252.00	245.00	6.01	250	
	Ramgarh GPS	113	65.00	65.00	1.55	65	
	RAPS A (NPC)	300	173.00	175.00	4.20	175	
	Barsingsar (NLC)	250	48.00	48.00	1.20	50	
	Giral LTPS (IPP)	250	0.00	0.00	0.00	0	
	Rajwst LTPS (IPP)	540	420.00	315.00	9.26	386	
	VSLP LTPS (IPP)	135	0.00	0.00	0.00	0	
	Thermal (Total)	5158	3687.00	3548.00	87.42	3642	
	Total Hydro	550	203.00	153.00	4.87	203	
	Wind power	1294	4.00	80.00	1.51	63	
	Biomass	71	37.00	37.00	0.90	37	
	Solar	50	0.00	0.00	0.01	0	
	Renewable/Others (Total)	1365	41	117	2.41	100	
		Total Rajasthan	7073	3931	3818	94.70	3946
UP	Anpara TPS	1630	1434	1320	31.00	1292	
	Obra TPS	1442	631	658	14.20	592	
	Paricha TPS	640	399	383	8.60	358	
	Panki TPS	210	155	170	3.50	146	
	Harduaganj TPS	415	44	46	0.90	38	
	Tanda TPS (NTPC)	440	403	402	9.83	410	
	Roza TPS (IPP)	600	567	567	13.50	563	
	Anpara-C (IPP)	1200	0	0	0.00	0	
	Bajaj Energy Pvt.Ltd(IPP) TPS	180	41	41	0.95	39	
	Thermal (Total)	6757	3674	3587	82.48	3437	
	Vishnuparyag HPS (IPP)	400	134	124	3.03	126	
	Other Hydro	527	135	37	3.68	153	
	Cogeneration	951	400	400	9.60	400	
		Total UP	8635	4343	4148	98.78	3990
	Uttarakhand	Total Hydro	1303	446	225	8.91	371
Total Uttarakhand		1303	446	225	8.91	371	
Delhi	Rajghat TPS	135	53	45	1.26	53	
	Delhi Gas Turbine	282	148	110	3.49	145	
	Pragati Gas Turbine	330	307	307	7.53	314	
	Rithala GPS	108	25	29	0.55	23	
	Bawana GPS	440	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	396	480	8.83	368	
	Thermal (Total)	2000	929	971	21.66	903	
	Total Delhi	2000	929	971	21.66	903	
HP	Baspa HPS (IPP)	330	0	0	1.41	59	
	Malana HPS (IPP)	101	0	0	0.32	13	
	Other Hydro	571	186	145	4.25	177	
		Total HP	1002	186	145	6	249
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	15342	14711	363.87	15035	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			482	901	21.95	915	
Total Regional Availability(Gross)		49641	32111	26510	673.21	27924	

IV. Total Hydro Generation:

Regional Entities Hydro	10083	6502	1519	69.55	2898
State Control Area Hydro	5365	1632	1120	42.84	1785
Total Regional Hydro	15447	8134	2639	112.39	4683

VI(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	-300	-500	0	500	0.00	10.06	-10.06
Gwalior-Agra (D/C)	212	218	794	0	7.67	0.00	7.67
Zerda-Kankroli	-132	-64	28	184	0.00	2.22	-2.22
Zerda-Bhinmal	-23	80	212	128	0.77	0.00	0.77
Malanpur-Auraiya	-190	-194	0	217	0.00	3.83	-3.83
Badod-Kota/Morak	-87	-32	24	116	0.00	1.32	-1.32
Sub Total WR	-520	-492			8.44	17.42	-8.99
Pusauli Bypass	-106	-3	95	193	0.49	1.32	-0.83
MZP- GKP (D/C)	480	672	736	0	13.76	0.00	13.76
Patna-Balia(D/C)	164	332	371	0	6.12	0.00	6.12
B'Sharif-Balia (D/C)	175	325	375	0	6.83	0.00	6.83
Barh - balia(D/C)	205	0	303	0	3.29	0.00	3.29
Pusauli-Sahupuri	112	107	144	0	2.64	0.00	2.64
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-28	-40	0	45	0.00	0.88	-0.88
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1002	1393			33.14	2.20	30.94
Total IR Exch	482	901			41.57	19.62	21.95

VI(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
17.70	0.78	18.49	11.11	-1.13	1.53	-0.43	1.32	-1.32

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
32.45	-8.03	24.42	30.94	-8.99	21.95	-1.52	-0.96	-2.47

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	0.10	1.90	23.99	65.80	76.01	34.20	6.81	0.00

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				
50.21	15.37	48.94	9.19	49.68	1.59	0.20	50.09	0.00

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	21:11	401	11:23	0.0	0.0	0.0	0.0
Gorakhpur	400	428	06:00	415	07:00	4.7	4.7	62.9	0.1
Bareilly	400	423	20:54	398	11:24	0.0	0.0	3.4	0.0
Kanpur	400	420	20:56	399	10:14	0.0	0.0	0.0	0.0
Dadri	400	418	20:55	397	11:23	0.0	0.0	0.0	0.0
Ballabgarh	400	421	20:54	397	10:13	0.0	0.0	0.8	0.0
Bawana	400	422	20:56	400	10:15	0.0	0.0	1.1	0.0
Bassi	400	423	20:55	395	11:12	0.0	0.0	3.2	0.0
Hissar	400	414	20:53	394	11:23	0.0	0.0	0.0	0.0
Moga	400	414	20:53	395	15:23	0.0	0.0	0.0	0.0
Abdullapur	400	423	20:55	398	11:15	0.0	0.0	2.2	0.0
Nalagarh	400	427	02:00	407	12:00	0.0	0.0	0.0	0.0
Kishenpur	400	405	23:41	387	15:23	0.0	7.1	0.0	0.0
Wagoora	400	385	23:40	360	18:54	79.7	100.0	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	507.84	1440.82	509.77	1530.03	218.29	455.25
Pong	426.72	384.05	417.99	794.52	420.74	916.71	64.90	323.43
Tehri	829.79	740.04	816.80	942.25	NA	NA	75.03	101.00
Koteshwar	612.50	598.50	601.45	1.15	NA	NA	101.00	93.00
Chamera-I	760.00	748.75	753.15	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 25.11.2011 :

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 : 25.11.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER