

पाँवर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.06.2011
Date of Reporting : 27.06.2011

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
30165	1150	31315	50.04	33890	100	33990	50.22	654.2	9.51

* 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:

UI [OD:(+ve), UD: (-ve)]

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	Others	Total					
Punjab	40.8	20.2		61.0	95.7	83.3	-12.4	144.4	1.80
Haryana	53.3	0.9		54.2	56.7	51.2	-5.5	105.4	0.00
Rajasthan	0.0	0.0	62.8	62.8	37.7	38.8	1.1	101.6	0.00
Delhi	0.0			0.0	62.5	60.8	-1.7	60.8	0.15
UP	63.9	3.0	2.4	69.4	117.7	120.7	3.0	190.1	7.56
Uttarakhand		18.7		18.7	7.3	10.0	2.7	28.7	0.00
HP		11.9		11.9	0.4	-1.6	-2.0	10.3	0.00
J & K		0.0	0.0	0.0	14.1	8.7	-5.4	8.7	0.00
Chandigarh				0.0	5.0	4.3	-0.7	4.3	0.00
Total	158.1	54.7		278.0	397.1	376.2	-20.9	654.2	9.51

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

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

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	
Punjab	6124	150	-667	1607	6895	0	-916	2438	52.14
Haryana	4800	0	39	1162	5032	0	-243	1039	24.95
Rajasthan	4763	0	-85	-172	4949	0	232	-493	-5.52
Delhi	3597	0	333	441	3981	0	88	314	10.67
UP	7397	1000	-538	909	10131	100	984	2059	28.56
Uttarakhand	1347	0	231	-138	1171	0	56	-125	-3.37
HP	739	0	-180	-1431	858	0	8	-1446	-33.14
J&K	1199	0	-153	-470	674	0	-392	-520	-12.11
Chandigarh	199	0	15	30	199	0	-12	-18	0.45
Total	30165	1150	-1005	1938	33890	100	-195	3248	62.64

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

III. Regional Entities :

UI [OG:(+ve), UG: (-ve)]

Entity	Station/ Constituent	Inst. Capacity	Declared	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
		(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1685	1808	1784	33.26	1386	33.18	0.09
	Rihand I STPS	1000	960	1025	1040	18.93	789	18.92	0.01
	Rihand II STPS	1000	970	1029	1042	19.20	800	19.24	-0.04
	Dadri I STPS	840	800	833	800	14.28	595	15.23	-0.95
	Dadri II STPS	980	650	900	474	13.71	571	13.62	0.10
	Unchahar I TPS	440	403	400	391	9.09	379	8.26	0.83
	Unchahar II TPS	440	595	337	398	8.37	349	7.11	1.25
	Unchahar III TPS	210	203	166	208	4.05	169	3.71	0.34
	ISTPP (Jhajjar)	500	358	0	0	0.00	0	6.08	-6.08
	Dadri GPS	830	768	535	523	11.77	491	11.88	-0.10
	Anta GPS	419	388	205	220	5.68	237	5.98	-0.31
	Auraiya GPS	663	453	316	364	7.01	292	6.94	0.06
	Sub Total (A)	9322	8233	7554	7244	145.35	6056	150.16	-4.81
B. NPC	INAPS	440	184	217	227	4.53	189	4.42	0.11
	RAPS- B	440	389	433	432	9.30	388	9.34	-0.03
	RAPS- C	440	420	472	472	9.26	386	10.08	-0.82
	Sub Total (B)	1320	993	1122	1131	23.10	962	23.83	-0.74
C. NHPC	Chamera I HPS	540	534	540	540	12.26	511	12.82	-0.56
	Chamera II HPS	300	297	299	251	7.03	293	7.15	-0.12
	Bairasui HPS	180	179	179	80	2.75	115	3.01	-0.26
	Salal-HPS	690	626	629	634	14.92	622	14.99	-0.07
	Tanakpur-HPS	94	86	92	93	2.14	89	2.25	-0.10
	Uri-HPS	480	476	474	476	11.47	478	11.48	-0.01
	Dhauliganga-HPS	280	277	0	0	0.00	0	6.69	-6.69
	Dulhasti-HPS	390	387	405	262	8.43	351	9.26	-0.83
	Sewa-II HPS	120	79	80	0	0.88	37	0.98	-0.10
	Sub Total (C)	3074	2940	2698	2336	60	2494	69	-8.74
D.NJPC	Nathpa Jhakri	1500	1600	1607	1493	38.13	1589	38.40	-0.27
	Sub Total (D)	1500	1600	1607	1493	38.13	1589	38.40	-0.27
E. THDC	Tehri HPS	1000	323	304	290	3.59	150	3.70	-0.11
	Koteshwar HPS	100	0	0	0	0.00	0	0.00	0.00
Sub Total (E)	1100	323	304	290	4	150	4	-0.11	
F. BBMB	Bhakra HPS	1480	947	1076	860	23.16	965	22.72	0.44
	Dehar HPS	990	602	660	645	15.01	625	14.44	0.57
	Pong HPS	396	213	366	126	5.22	218	5.10	0.12
	Sub Total (F)	2866	1761	2102	1631	43.39	1808	42.26	1.13
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	215	198	0.00	0	3.86	-3.86
	KWHEP HPS(IPP)	250	0	505	505	0.00	0	12.00	-12.00
	Sub Total (G)	442	0	720	703	0.00	0	15.86	-15.86

H. Total Cental (A-G)		19625	15850	16107	14828	313	13059	343	-29	
I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy	Average(Sent out MW)				
Punjab	Guru Gobind Singh TPS (Ropar)	1260	840.00	1080.00	20.8	865				
	Guru Nanak Dev TPS(Bhatinda)	440	213.00	294.00	4.9	203				
	Guru Hargobind Singh TPS(L.mbt)	920	709.00	804.00	15.2	633				
	Thermal (Total)	2620	1762.00	2178.00	40.8	1701				
	Total Hydro	1148	963.00	202.44	20.2	842				
	Total Punjab	3768	2725	2380	61	2543				
Haryana	Panipat TPS	1360	1013.00	1177.00	25.0	1040				
	DCRTPP (Yamuna nagar)	600	426.00	513.00	11.5	478				
	Faridabad GPS (NTPC)	1200	184.00	384.00	5.6	231				
	RGTPP (khedar) (IPP)	432	523.00	532.00	11.4	473				
	Magnum Diesel (IPP)	25	0.00	0.00	0.0	0				
	Thermal (Total)	3617	2146.00	2606.00	53.3	2222				
	Total Hydro	62	45.00	24.00	0.9	37				
	Total Haryana	3679	2191	2630	54	2259				
Rajasthan	kota TPS	1240	871.00	906.00	21.1	878				
	suratgarh TPS	1500	1028.00	1045.00	24.3	1011				
	Chabra TPS	250	170.00	184.00	4.3	178				
	Dholpur GPS	330	248.00	276.00	6.1	253				
	Ramgarh GPS	114	64.00	63.00	1.6	67				
	RAPS A (NPC)	440	173.00	172.00	4.3	179				
	Barsingar (NLC)	250	72.00	57.00	0.2	9				
	Giral LTPS (IPP)	250	0.00	0.00	0.2	7				
	Rajwest LTPS (IPP)	135	0.00	0.00	0.0	0				
	VSLP LTPS (IPP)	135	0.00	34.00	0.8	34				
	Thermal (Total)	4644	2626.00	2737.00	0.0	0				
	Total Hydro	550	0.00	0.00	0.0	0				
	Wind power	1294	691.00	779.00	0.0	0				
	Biomass	71	16.00	16.00	0.0	0				
	Renewable/Others (Total)	1365	707	795	62.8	2618				
	Total Rajasthan	6558	3333	3532	63	2618				
	UP	Anpara TPS	1630	392	403	10	397			
		Obra TPS	1442	1101	980	24	1008			
Paricha TPS		640	392	230	7	287				
Panki TPS		210	170	175	4	171				
Harduaganj TPS		375	0	0	0	0				
Tanda TPS (NTPC)		440	282	285	7	282				
Roza TPS (IPP)		600	545	540	12	520				
Thermal (Total)		5337	2882	2613	64	2664				
Vishnuparyag HPS (IPP)		400	433	436	10	426				
Other Hydro		527	102	0	3	126				
Cogeneration		951	100	100	2	100				
Total UP		7215	3084	2713	69	2890				
Uttarakhand		Total Hydro	1303	799	785	19	780			
		Total Uttarakhand	1303	799	785	19	780			
Delhi	Rajghat TPS	135	114	0	30	0				
	Delhi Gas Turbine	282	74	0	29	0				
	Pragati Gas Turbine	330	144	0	51	0				
	Rithala GPS	108	43	0	9	0				
	Bawana GPS	440	0	0	0	0				
	Badarpur TPS (NTPC)	705	460	0	112	0				
	Thermal (Total)	2000	835	1150	0	0				
	Total Delhi	2000	835	1150	0	0				
HP	Baspa HPS (IPP)	300	330	330	8	330				
	Malana HPS (IPP)	86	104	104	2	104				
	Other Hydro	584	538	0	12	496				
	Total HP	970	538	0	12	496				
J & K	Baglihar HPS (IPP)	450	443	439	0	0				
	Other Hydro	323	0	0	0	0				
	Gas/Diesel/Others	183	0	0	0	0				
	Total J & K	956	0	0	0	0				
Total State Generation		25147	12706	12405	259	10805				
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			1478	3199	492.6	20524				
Total Regional Availability(Gross)		44772	30291	30432	1065	44388				

IV. Total Hydro Generation:

Central +BBMB Hydro	8541	6711	5750	145	6041
State Hydro	4497	3202	2841	65	2703
Regional Hydro	13038	9913	8591	210	8744

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	100.00	300.00	300.00	0.00	47.55	0.00	47.55
Gwalior-Agra (D/C)	648.00	1077.00	1225.00	0.00	168.47	0.00	168.47
Zerda-Kankroli	-60.00	36.00	79.00	284.00	0.00	18.25	-18.25
Zerda-Bhinmal	-36.00	40.00	157.00	273.00	0.00	10.32	-10.32
Malanpur-Auraiya	-55.00	44.00	110.00	31.00	0.57	0.00	0.57
Badod-Kota/Morak	-61.00	35.00	98.00	120.00	0.00	0.24	-0.24
Sub Total WR	597.00	1497.00			216.59	28.57	188.02
Pusauli Bypass	-87.00	-28.00	109.00	294.00	4.22	17.31	-13.09
MZP- GKP (D/C)	560.00	1098.00	1220.00	0.00	195.28	0.00	195.28
Patna-Balia(D/C)	-131.00	-150.00	0.00	163.00	0.00	34.21	-34.21
B'Sharif-Balia (D/C)	409.00	642.00	865.00	0.00	123.09	0.00	123.09
Pusauli-Sahupuri	130.00	140.00	162.00	0.00	33.48	0.00	33.48
K'nasa-Sahupuri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Son Ngr-Rihand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Garhwa-Rihand	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total ER	881.00	1702.00			356.07	51.52	304.55
Total IR Exch	1478	3199			572.66	80.09	492.57

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
13.88	3.68	17.57	20.80	28.04	2.50	3.99	0.02	0.00

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
40.89	31.83	72.72	304.55	188.02	492.57	263.66	156.19	419.85

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	1.40	82.50	81.40	66.30	17.20

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.49	6.15	49.41	0.11	50.06	0.27	0.16	50.41	49.81

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	420	09:21	397	00:05	0.0	0.0	0.0	0.0
Gorakhpur	400	436	18:04	396	00:06	0.0	0.0	52.8	10.3
Kanpur	400	416	02:50	388	00:06	0.0	2.3	0.0	0.0
Dadri	400	418	07:07	393	23:10	0.0	0.0	0.0	0.0
Ballabgarh	400	421	07:07	392	00:03	0.0	0.0	1.2	0.0
Bassi	400	429	18:02	394	00:05	0.0	0.0	13.7	0.0
Hissar	400	413	07:08	390	23:07	0.0	0.0	0.0	0.0
Moga	400	416	03:18	396	12:46	0.0	0.0	0.0	0.0
Kishenpur	400	414	02:38	391	14:01	0.0	0.0	0.0	0.0
Wagoora	400	413	02:39	383	20:24	0.0	27.6	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	484.09	604.20	462.32	64.97	465.39	327.82
Pong	426.72	384.05	411.51	550.04	390.73		479.15	121.00
Tehri	829.79	740.04	749.40	48.25				
Koteshwar								
Rihand	268.22	252.98	255.73		253.75			
RPS								
Gandhi Sagar								
RSD	527.91	487.91						

IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 26.06.2011 :

1 Rains in some parts of Punjab and Delhi.

XII. Synchronisation of new generating units :

XIII. Synchronisation of new 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 : 26.06.2011

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER