

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 22.06.2012
Date of Reporting : 23.06.2012

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
37272	5213	42485	49.60	39257	3648	42905	49.85	926.4	93.14

* 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)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	47.01	18.23		65.23	120.62	127.64	7.01	192.87	19.88
Haryana	58.23	0.98		59.21	62.69	69.71	7.01	128.92	20.88
Rajasthan	68.37	0.00	34.15	102.51	38.62	47.51	8.89	150.02	6.15
Delhi	28.12			28.12	86.30	82.20	-4.10	110.32	1.00
UP	102.93	12.39	4.80	120.11	97.71	129.93	32.22	250.05	40.76
Uttarakhand		20.81		20.81	12.01	14.05	2.03	34.86	1.54
HP		18.56		18.56	5.39	4.95	-0.43	23.51	0.00
J & K		15.10	0.00	15.10	13.97	14.21	0.24	29.30	2.95
Chandigarh				0.00	7.00	6.56	-0.45	6.56	0.00
Total	304.65	86.06	38.95	429.65	444.32	496.75	52.42	926.40	93.14

* 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	
Punjab	8123	1178	281	1584	8088	919	122	1839	40.78
Haryana	5200	1408	294	406	5048	1079	-13	406	9.74
Rajasthan	6352	313	528	-29	6089	329	134	-229	-4.75
Delhi	4718	9	34	654	4382	11	-88	517	17.10
UP	8937	2075	357	0	12048	1210	2083	0	1.20
Uttarakhand	1525	80	105	30	1464	0	119	30	0.78
HP	891	0	-126	-1309	879	0	-30	-1285	-29.42
J&K	1252	150	-39	-554	1007	100	-160	-554	-13.53
Chandigarh	274	0	-33	40	252	0	-5	20	1.20
Total	37272	5213	1401	822	39257	3648	2162	746	23.10

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

III. Regional Entities :

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	1220	1338	1343	29.58	1233	29.28	0.30	
	Rihand I STPS	1000	890	980	973	21.50	896	21.36	0.14	
	Rihand II STPS	1000	970	1039	1035	23.42	976	23.28	0.14	
	Rihand III STPS	500		0	0	0.00	0		0.00	
	Dadri I STPS	840	793	862	868	19.16	798	19.04	0.13	
	Dadri II STPS	980	963	996	1019	23.24	968	23.12	0.13	
	Unchahar I TPS	420	391	430	422	9.46	394	9.39	0.07	
	Unchahar II TPS	420	399	443	422	9.62	401	9.57	0.05	
	Unchahar III TPS	210	199	220	213	4.79	200	4.77	0.02	
	ISTPP (Jhajjar)	1000	932	1000	965	22.37	932	22.27	0.10	
	Dadri GPS	830	760	668	714	16.29	679	16.37	-0.08	
	Anta GPS	419	252	236	254	5.38	224	5.10	0.29	
	Auraiya GPS	663	591	438	448	10.33	430	10.13	0.20	
	Sub Total (A)	10282	8361	8650	8676	195.14	8131	193.67	1.47	
	B. NPC	NAPS	440	255	290	297	6.12	255	6.12	0.00
		RAPS- B	440	391	429	435	9.35	389	9.38	-0.04
RAPS- C		440	200	228	228	4.88	203	4.88	0.08	
Sub Total (B)		1320	846	947	960	20.34	848	20.30	0.04	
C. NHPC	Chamera I HPS	540	534	540	540	12.11	505	11.78	0.33	
	Chamera II HPS	300	300	303	302	7.25	302	7.22	0.03	
	Chamera III HPS	231		77	75	3.32	138		3.32	
	Bairasuil HPS	180	182	182	182	2.98	124	2.71	0.26	
	Salal-HPS	690	662	662	662	15.81	659	15.89	-0.07	
	Tanakpur-HPS	94	82	93	77	2.08	87	2.05	0.04	
	Uri-HPS	480	476	480	480	11.59	483	11.48	0.11	
	Dhauliganga-HPS	280	277	283	281	6.81	284	6.80	0.01	
	Dulhasti-HPS	390	387	404	410	9.38	391	9.17	0.21	
	Sewa-II HPS	120	80	85	85	1.06	44	1.01	0.05	
	Sub Total (C)	3305	2979	3109	3094	72.40	3017	68.11	4.29	
	D. NJPC	Nathpa Jhakri	1500	1600	1622	1620	38.64	1610	38.40	0.24
Sub Total (D)		1500	1600	1622	1620	38.64	1610	38.40	0.24	
E. THDC	Tehri HPS	1000	520	373	513	7.59	316	7.50	0.09	
	Koteshwar HPS	400	209	93	191	3.83	160	3.70	0.13	
	Sub Total (E)	1400	729	466	704	11.42	476	11.20	0.22	
F. BBMB	Bhakra HPS	1480	903	1095	757	22.07	920	21.68	0.39	
	Dehar HPS	990	601	825	660	15.29	637	14.43	0.86	
	Pong HPS	396	229	324	171	5.64	235	5.50	0.14	
	Sub Total (F)	2866	1734	2244	1588	43.00	1792	41.61	1.39	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	232	232	4.85	202	3.90	0.95	
	KWHEP HPS(IPP)	1000	0	1200	900	27.72	1155	25.89	1.83	
	Malana Stg-II HPS	100	0	106	99	2.12	88	0.00	2.12	
	Shree Cement TPS	300	0	271	287	6.86	286	6.61	0.25	
	Budhil HPS(IPP)	70		71	35	0.93	39		0.93	
	Sub Total (G)	1662	0	1880	1553	42.47	1770	36.40	6.07	
H. Total Regional Entities (A-G)	22336	16248	18918	18195	423.40	17642	409.69	13.72		

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	1030	1020	22.70	946	
	Guru Nanak Dev TPS(Bhatinda)	440	209	205	4.32	180	
	Guru Hargobind Singh TPS(L.mbt)	920	916	919	19.99	833	
	Thermal (Total)	2620	2155	2144	47.01	1959	
	Total Hydro	1148	702	783	18.23	759	
	Total Punjab	3768	2857	2927	65.23	2718	
Haryana	Panipat TPS	1367	1110	1094	26.73	1114	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	395	364	8.71	363	
	RGTPP (khedar) (IPP)	1200	433	546	12.65	527	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	289	428	10.14	423	
	Thermal (Total)	4944	2227	2432	58.23	2426	
	Total Hydro	62	28	28	0.98	41	
		Total Haryana	5006	2255	2460	59.21	2467
	Rajasthan	kota TPS	1240	904	842	20.76	865
suratgarh TPS		1500	907	1124	21.03	876	
Chabra TPS		500	203	198	4.90	204	
Dholpur GPS		330	166	94	2.70	112	
Ramgarh GPS		111	54	54	1.25	52	
RAPS A (NPC)		300	175	170	3.84	160	
Barsingsar (NLC)		250	198	129	4.21	176	
Giral LTPS		250	80	90	1.80	75	
Rajwest LTPS (IPP)		540	338	338	7.88	328	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3025	3039	68.37	2849	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	1316	1358	33.03	1376	
Biomass		91	31	31	0.75	31	
Solar		128	0	0	0.36	15	
Renewable/Others (Total)		2062	1347	1389	34.15	1423	
		Total Rajasthan	7767	4372	4428	102.51	4271
UP		Anpara TPS	1630	1182	1076	25.50	1063
		Obra TPS	1382	434	455	11.00	458
		Paricha TPS	890	495	556	12.00	500
	Panki TPS	210	113	126	2.90	121	
	Harduaganj TPS	665	173	40	1.90	79	
	Tanda TPS (NTPC)	440	384	327	9.09	379	
	Roza TPS (IPP)	1200	824	824	19.71	821	
	Anpara-C (IPP)	1200	561	571	13.56	565	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	311	311	7.26	303	
	Thermal (Total)	8067	4477	4286	102.93	4289	
	Vishnuparyag HPS (IPP)	400	0	436	8.56	357	
	Other Hydro	527	146	0	3.83	160	
	Cogeneration	981	200	200	4.80	200	
		Total UP	9975	4823	4922	120.11	4648
	Uttarakhand	Total Hydro	1303	939	817	20.81	867
Total Uttarakhand		1303	939	817	20.81	867	
Delhi	Rajghat TPS	135	104	53	1.66	69	
	Delhi Gas Turbine	282	202	213	4.97	207	
	Pragati Gas Turbine	330	270	280	6.65	277	
	Rithala GPS	108	22	22	0.37	15	
	Bawana GPS	677	211	222	5.15	215	
	Badarpur TPS (NTPC)	705	410	450	9.33	389	
	Thermal (Total)	2237	1219	1240	28.12	1172	
		Total Delhi	2237	1219	1240	28.12	1172
HP	Baspa HPS (IPP)	330	324	324	7.76	323	
	Malana HPS (IPP)	86	80	79	1.79	74	
	Other Hydro	589	379	380	9.01	376	
		Total HP	1005	783	783	19	773
J & K	Baglihar HPS (IPP)	450	439	439	10.55	440	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	617	636	15.10	629
Total State Control Area Generation		32017	17865	18213	429.65	17546	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2999	4386	92.09	3837	
Total Regional Availability(Gross)		54353	39782	40794	945.15	39025	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8979	8237	200.13	8339
State Control Area Hydro	5368	3215	3047	77.50	3229
Total Regional Hydro	15731	12194	11284	277.64	11568

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	500	500	500	0	12.06	0.00	12.06
Gwalior-Agra (D/C)	744	1178	1278	0	24.84	0.00	24.84
Zerda-Kankroli	102	125	212	20	2.07	0.00	2.07
Zerda-Bhinmal	59	73	243	103	1.10	0.00	1.10
Malanpur-Auraiya	-52	24	24	108	0.00	0.19	-0.19
Badod-Kota/Morak	0	0	0	0	0.00	0.00	0.00
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	1353	1900			40.07	0.19	39.88
Pusauli Bypass	-48	19	166	86	1.04	0.36	0.68
MZP- GKP (D/C)	728	868	1014	0	20.95	0.00	20.95
Patna-Balia(D/C)	456	514	547	0	9.92	0.00	9.92
B'Sharif-Balia (D/C)	252	505	547	0	8.08	0.00	8.08
Barh - Balia(D/C)	0	315	426	0	5.92	0.00	5.92
Pusauli-Balia	66	23	80	0	0.45	0.00	0.45
Gaya-Fatehpur (765 Kv)	104	114	283	0	3.65	0.00	3.65
Pusauli-Sahupuri	130	157	158	0	3.60	0.00	3.60
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.02	-1.02
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1646	2486			53.60	1.38	52.21
Total IR Exch	2999	4386			93.66	1.57	92.09

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
27.84	1.77	29.62	0.92	21.32	-3.94	1.84	0.00	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
26.60	22.85	49.45	52.21	39.88	92.09	25.61	17.03	42.64

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	0.20	1.00	27.80	70.10	72.20	29.90	0.50	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				
50.05	8.04	48.97	0.05	49.60	1.89	0.17	49.99	49.27

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	401	07:02	396	03:16	0.0	0.0	0.0	0.0
Gorakhpur	400	422	18:35	401	13:12	0.0	0.0	0.3	0.0
Bareilly	400	414	18:52	377	11:08	0.1	0.6	0.0	0.0
Kanpur	400	410	23:48	391	15:10	0.0	0.0	0.0	0.0
Dadri	400	406	18:59	387	10:09	0.0	6.8	0.0	0.0
Ballabgarh	400	412	19:34	389	15:12	0.0	0.0	0.0	0.0
Bawana	400	409	18:54	392	11:08	0.0	0.0	0.0	0.0
Bassi	400	419	23:47	392	14:12	0.0	0.0	0.0	0.0
Hissar	400	404	18:57	382	12:19	0.0	17.2	0.0	0.0
Moga	400	414	22:35	389	08:30	0.0	0.0	0.0	0.0
Abdullapur	400	412	19:34	391	13:22	0.0	0.0	0.0	0.0
Nalagarh	400	404	22:26	389	14:41	0.0	4.4	0.0	0.0
Kishenpur	400	407	00:55	394	09:28	0.0	0.0	0.0	0.0
Wagoora	400	406	00:55	389	06:53	0.0	0.6	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	465.84	204.14	481.75	503.43	988.88	837.89
Pong	426.72	384.05	395.43	131.24	411.36	544.90	182.67	435.71
Tehri	829.79	740.04	742.75	29.00	818.65	982.26	288.36	268.00
Koteswar	612.50	598.50	604.90	2.25	NA	NA	268.00	254.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	378.17	328.03
Rihand	268.22	252.98	254.69	64.30	255.57	99.10	NA	NA
RPS	352.80	343.81	349.88	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.00	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.41	NA	510.29	NA	261.08	322.22

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 22.06.2012 :
1. Hot dry weather

XII. Synchronisation of new generating units :
0.00

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 : 22.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER