

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 12.06.2012
Date of Reporting : 13.06.2012

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
33832	5969	39801	49.39	34566	3962	38528	49.45	803.9	107.72

* 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	53.32	17.90		71.21	97.13	97.23	0.10	168.44	4.75
Haryana	48.97	0.64		49.61	57.67	58.18	0.51	107.79	19.09
Rajasthan	70.11	0.00	6.96	77.07	38.50	40.41	1.90	117.47	16.55
Delhi	26.47			26.47	78.76	75.89	-2.88	102.36	0.82
UP	87.90	13.65	4.80	106.35	91.89	116.83	24.93	223.18	53.79
Uttarakhand		16.28		16.28	12.42	12.59	0.17	28.87	4.99
HP		13.89		13.89	7.29	7.31	0.02	21.19	4.78
J & K		15.00	0.00	15.00	11.88	13.79	1.91	28.79	2.95
Chandigarh				0.00	6.47	5.78	-0.69	5.78	0.00
Total	286.77	77.35	11.76	375.87	402.02	428.00	25.98	803.88	107.72

* 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	STOA/PX transaction
Punjab	7201	1139	-152	1735	7177	175	22	1735		42.85
Haryana	4463	1339	20	427	4541	1132	60	427		10.24
Rajasthan	5324	842	240	-213	4859	332	-11	-213		-5.17
Delhi	4308	3	-27	562	4037	0	-505	462		14.34
UP	8850	2240	910	0	10435	2210	960	0		1.20
Uttarakhand	1223	230	70	10	1351	0	238	10		0.25
HP	902	26	31	-1161	907	13	-23	-1137		-27.25
J&K	1314	150	101	-545	1049	100	-51	-545		-13.32
Chandigarh	247	0	-32	40	210	0	-34	20		1.20
Total	33832	5969	1160	855	34566	3962	656	759		24.34

* 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
A. NTPC	Singrauli STPS	2000	1730	1856	1869	42.02	1751	41.52	0.50
	Rihand I STPS	1000	898	955	984	21.65	902	21.55	0.09
	Rihand II STPS	1000	970	1042	1043	23.45	977	23.28	0.17
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	761	859	870	18.53	772	18.26	0.26
	Dadri II STPS	980	963	1014	1028	23.33	972	23.12	0.21
	Unchahar I TPS	420	402	441	437	9.73	405	9.65	0.08
	Unchahar II TPS	420	403	442	441	9.75	406	9.68	0.07
	Unchahar III TPS	210	201	219	220	4.84	202	4.82	0.02
	IJSTPP (Jhajihar)	1000	932	976	976	21.99	916	21.87	0.12
	Dadri GPS	830	722	715	749	16.90	704	16.98	-0.08
	Anta GPS	419	381	376	391	9.15	381	8.91	0.24
	Auraiya GPS	663	435	439	441	10.50	438	10.23	0.28
	Sub Total (A)		10282	8798	9334	9449	211.83	8826	209.86
B. NPC	NAPS	440	256	290	293	6.10	254	6.14	-0.04
	RAPS- B	440	388	427	432	9.27	386	9.31	-0.04
	RAPS- C	440	210	220	209	4.60	191	5.04	-0.44
	Sub Total (B)		1320	854	937	934	19.97	832	20.50
C. NHPC	Chamera I HPS	540	384	540	540	6.82	284	6.01	0.81
	Chamera II HPS	300	200	200	202	4.93	206	4.80	0.14
	Chamera III HPS	231		77	77	0.87	36		0.87
	Bairasuil HPS	180	182	120	120	2.31	96	2.10	0.21
	Salal-HPS	690	598	637	640	14.41	600	14.37	0.04
	Tanakpur-HPS	94	36	50	33	1.00	42	0.80	0.20
	Uri-HPS	480	476	479	479	11.62	484	11.61	0.00
	Dhauliganga-HPS	280	277	282	145	3.72	155	3.50	0.22
	Dulhasti-HPS	390	388	489	487	9.48	395	9.19	0.29
	Sewa-II HPS	120	80	85	85	1.97	82	1.86	0.11
	Sub Total (C)		3305	2620	2959	2808	57.12	2380	54.24
D.NJPC	Nathpa Jhakri	1500	1600	1529	1262	26.16	1090	25.42	0.73
	Sub Total (D)		1500	1600	1529	1262	26.16	1090	25.42
E. THDC	Tehri HPS	1000	500	0	0	4.18	174	4.00	0.18
	Koteshwar HPS	400	300	192	91	2.41	101	2.40	0.01
	Sub Total (E)		1400	800	192	91	6.60	275	6.40
F. BBMB	Bhakra HPS	1480	834	1116	656	20.38	849	20.01	0.37
	Dehar HPS	990	427	660	445	10.98	458	10.24	0.74
	Pong HPS	396	221	348	120	5.49	229	5.31	0.18
	Sub Total (F)		2866	1481	2124	1221	36.85	1535	35.55
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	114	86	2.29	96	3.88	-1.59
	KWHEP HPS(IPP)	1000	0	600	600	14.65	610	18.53	-3.88
	Malana Stg-II HPS	100	0	41	41	0.96	40	0.00	0.96
	Shree Cement TPS	300	0	0	0	0.00	0	0.00	0.00
	Budhil HPS(IPP)	70		70	35	0.91	38		0.91
	Sub Total (G)		1662	0	825	762	18.82	784	22.41
H. Total Regional Entities (A-G)		22336	16154	17900	16527	377.33	15722	374.39	2.95

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	1255	28.00	1167	
	Guru Nanak Dev TPS(Bhatinda)	440	210	210	4.42	184	
	Guru Hargobind Singh TPS(L.mbt)	920	962	882	20.90	871	
	Thermal (Total)	2620	2432	2347	53.32	2222	
	Total Hydro	1148	852	762	17.90	746	
	Total Punjab	3768	3284	3109	71.21	2967	
Haryana	Panipat TPS	1367	1119	1140	27.21	1134	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	393	380	8.81	367	
	RGTPP (khedar) (IPP)	1200	461	501	12.95	540	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1973	2021	48.97	2040	
	Total Hydro	62	10	17	0.64	27	
	Total Haryana	5006	1983	2038	49.61	2067	
	Rajasthan	kota TPS	1240	873	821	21.16	882
suratgarh TPS		1500	1124	1130	26.85	1119	
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	165	95	2.44	102	
Ramgarh GPS		111	55	56	1.38	57	
RAPS A (NPC)		300	175	118	4.21	175	
Barsingsar (NLC)		250	177	177	4.54	189	
Giral LTPS		250	0	72	0.93	39	
Rajwest LTPS (IPP)		540	400	340	8.61	359	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	2969	2809	70.11	2921	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	316	385	5.64	235	
Biomass		91	44	44	1.07	44	
Solar		128	0	0	0.25	11	
Renewable/Others (Total)		2062	360	429	6.96	290	
Total Rajasthan		7767	3329	3238	77.07	3211	
UP		Anpara TPS	1630	515	590	13.50	563
		Obra TPS	1382	369	465	9.70	404
		Paricha TPS	890	527	519	12.30	513
	Panki TPS	210	77	72	1.70	71	
	Harduaganj TPS	665	32	32	0.80	33	
	Tanda TPS (NTPC)	440	284	291	7.89	329	
	Roza TPS (IPP)	1200	821	824	19.59	816	
	Anpara-C (IPP)	1200	581	711	15.03	626	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	271	306	7.39	308	
	Thermal (Total)	8067	3477	3810	87.90	3663	
	Vishnuparyag HPS (IPP)	400	437	386	9.34	389	
	Other Hydro	527	165	0	4.31	180	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4279	4396	106.35	4042	
	Uttarakhand	Total Hydro	1303	675	631	16.28	678
Total Uttarakhand		1303	675	631	16.28	678	
Delhi	Rajghat TPS	135	96	105	2.41	101	
	Delhi Gas Turbine	282	209	218	4.91	205	
	Pragati Gas Turbine	330	266	281	6.62	276	
	Rithala GPS	108	22	28	0.62	26	
	Bawana GPS	677	0	280	2.63	110	
	Badarpur TPS (NTPC)	705	435	435	9.27	386	
	Thermal (Total)	2237	1028	1347	26.47	1103	
	Total Delhi	2237	1028	1347	26.47	1103	
HP	Baspa HPS (IPP)	330	245	196	4.68	195	
	Malana HPS (IPP)	86	36	34	0.85	35	
	Other Hydro	589	372	349	8.36	348	
	Total HP	1005	653	579	14	579	
J & K	Baglihar HPS (IPP)	450	435	477	10.45	435	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	613	674	15.00	625	
Total State Control Area Generation		32017	15844	16012	375.87	15272	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			2150	2742	55.70	2321	
Total Regional Availability(Gross)		54353	35894	35281	808.90	33315	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	7559	6109	144.63	6026
State Control Area Hydro	5368	2968	2663	68.01	2834
Total Regional Hydro	15731	10527	8772	212.64	8860

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	-200	200	400	400	2.92	0.99	1.93
Gwalior-Agra (D/C)	987	1052	1692	0	24.46	0.00	24.46
Zerda-Kankroli	14	26	233	215	0.00	0.11	-0.11
Zerda-Bhinmal	46	44	356	173	0.82	0.00	0.82
Malanpur-Auraiya	-43	-4	0	95	0.00	0.04	-0.04
Badod-Kota/Morak	22	22	22	0	0.53	0.00	0.53
Mundra-Mohindergarh(HVDC)	0	0	0	0	0.00	0.00	0.00
Sub Total WR	826	1340			28.73	1.14	27.59
Pusauli Bypass	-93	-62	25	245	0.07	2.75	-2.68
MZP- GKP (D/C)	342	484	610	0	10.35	0.00	10.35
Patna-Balia(D/C)	306	440	440	0	8.47	0.00	8.47
B'Sharif-Balia (D/C)	296	358	394	0	6.44	0.00	6.44
Barh - Balia(D/C)	306	0	369	0	2.32	0.00	2.32
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	60	67	142	4	1.46	0.00	1.46
Pusauli-Sahupuri	149	144	179	0	2.76	0.00	2.76
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-42	-29	0	48	0.00	1.01	-1.01
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1324	1402			31.87	3.76	28.11
Total IR Exch	2150	2742			60.60	4.90	55.70

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
24.68	0.86	25.54	-1.88	27.62	-9.73	-0.63	1.08	-1.08
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
15.00	25.49	40.49	28.11	27.59	55.70	13.11	2.10	15.20

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	13.20	35.10	70.80	92.70	29.20	7.30	0.10	0.00

<----- 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)		
50.05	22.28	48.75	11.04	49.32	5.34	0.27	49.81	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	412	20:28	401	02:35	0.0	0.0	0.0	0.0
Gorakhpur	400	428	07:22	406	02:54	0.0	0.0	53.0	0.0
Bareilly	400	421	11:36	395	04:48	0.0	0.0	0.2	0.0
Kanpur	400	415	15:38	400	03:17	0.0	0.0	0.0	0.0
Dadri	400	412	12:01	397	10:07	0.0	0.0	0.0	0.0
Ballabgarh	400	419	05:44	400	10:10	0.0	0.0	0.0	0.0
Bawana	400	414	05:44	398	10:10	0.0	0.0	0.0	0.0
Bassi	400	428	11:35	395	17:47	0.0	0.0	6.6	0.0
Hissar	400	409	06:03	392	23:06	0.0	0.0	0.0	0.0
Moga	400	416	06:03	400	10:06	0.0	0.0	0.0	0.0
Abdullapur	400	412	07:03	395	23:05	0.0	0.0	0.0	0.0
Nalagarh	400	407	04:00	396	00:13	0.0	0.0	0.0	0.0
Kishenpur	400	411	03:57	401	10:05	0.0	0.0	0.0	0.0
Wagoora	400	407	03:56	391	20:06	0.0	0.0	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	467.84	234.83	479.07	441.00	413.62	744.51
Pong	426.72	384.05	398.44	185.67	411.52	544.90	65.07	329.72
Tehri	829.79	740.04	740.70	4.00	818.65	982.26	163.20	112.00
Koteshwar	612.50	598.50	607.75	3.54	NA	NA	112.00	129.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	212.70	166.96
Rihand	268.22	252.98	255.67	96.70	254.08	40.90	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	501.29	NA	512.14	NA	179.08	363.76

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 12.06.2012 :
1. Hot 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 : 12.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER