

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 19.06.2012
Date of Reporting : 20.06.2012

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
36682	4148	40830	49.75	37928	1335	39263	50.12	893.4	60.71

* 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	50.72	16.08		66.80	107.30	120.45	13.15	187.25	14.32
Haryana	48.00	1.00		49.00	62.67	79.29	16.63	128.29	9.18
Rajasthan	71.95	0.00	21.44	93.39	59.38	55.40	-3.98	148.79	0.00
Delhi	27.69			27.69	84.57	76.28	-8.29	103.97	0.22
UP	91.43	14.51	4.80	110.73	101.69	119.73	18.05	230.47	33.45
Uttarakhand		22.49		22.49	11.99	12.77	0.78	35.26	0.60
HP		18.32		18.32	5.73	5.68	-0.05	24.00	0.00
J & K		15.02	0.00	15.02	14.15	14.14	-0.01	29.16	2.95
Chandigarh				0.00	7.16	6.16	-1.00	6.16	0.00
Total	289.79	87.41	26.24	403.44	454.64	489.92	35.27	893.35	60.71

* 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	7859	1704	344	1927	7904	250	494	1927	46.25
Haryana	5532	504	967	260	5564	0	869	400	7.35
Rajasthan	5942	0	-656	-166	6552	0	264	-166	-3.98
Delhi	4378	0	-162	545	4067	0	-559	435	14.16
UP	9162	1640	533	0	10257	985	862	0	1.20
Uttarakhand	1451	150	29	30	1452	0	62	30	0.73
HP	846	0	-151	-913	910	0	-117	-889	-22.51
J&K	1251	150	-39	-575	989	100	-188	-575	-14.04
Chandigarh	262	0	-47	40	234	0	-24	20	1.20
Total	36682	4148	817	1149	37928	1335	1663	1183	30.37

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

III. Regional Entities :

A. NTPC	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
	Singrauli STPS	2000	1357	1637	1145	32.89	1371	32.56	0.33
	Rihand I STPS	1000	890	978	976	21.51	896	21.36	0.15
	Rihand II STPS	1000	970	1039	1031	23.36	973	23.28	0.08
	Rihand III STPS	500		0	0	0.00	0		0.00
	Dadri I STPS	840	793	870	685	16.97	707	17.68	-0.71
	Dadri II STPS	980	963	1005	927	22.53	939	22.95	-0.42
	Unchahar I TPS	420	385	417	413	9.07	378	9.24	-0.17
	Unchahar II TPS	420	385	423	409	9.20	383	9.24	-0.04
	Unchahar III TPS	210	194	213	209	4.61	192	4.66	-0.04
	ISTPP (Jhajjar)	1000	940	794	743	17.53	730	17.70	-0.17
	Dadri GPS	830	775	677	619	14.60	608	14.73	-0.13
	Anta GPS	419	383	258	255	5.95	248	6.24	-0.29
	Auraiya GPS	663	582	511	453	10.46	436	10.26	0.20
	Sub Total (A)	10282	8616	8822	7865	188.68	7861	189.90	-1.22
B. NPC	NAPS	440	255	293	298	6.15	256	6.12	0.03
	RAPS- B	440	388	438	441	9.37	390	9.31	0.06
	RAPS- C	440	200	223	227	4.83	201	4.80	0.03
	Sub Total (B)	1320	843	954	966	20.35	848	20.23	0.12
C. NHPC	Chamera I HPS	540	534	540	540	11.80	492	12.81	-1.01
	Chamera II HPS	300	300	300	300	7.17	299	7.22	-0.06
	Chamera III HPS	231		76	76	3.56	148		3.56
	Bairasuil HPS	180	182	182	120	2.79	116	3.11	-0.32
	Salal-HPS	690	662	662	662	15.81	659	15.88	-0.07
	Tanakpur-HPS	94	77	92	72	1.94	81	2.07	-0.13
	Uri-HPS	480	473	479	478	11.40	475	11.49	-0.09
	Dhauliganga-HPS	280	277	284	279	6.71	280	6.71	0.00
	Dulhasti-HPS	390	387	411	326	9.08	378	9.23	-0.15
	Sewa-II HPS	120	78	84	74	1.20	50	1.25	-0.05
	Sub Total (C)	3305	2969	3110	2927	71.45	2977	69.78	1.67
D.NJPC	Nathpa Jhakri	1500	1600	1619	1621	38.50	1604	38.40	0.10
	Sub Total (D)	1500	1600	1619	1621	38.50	1604	38.40	0.10
E. THDC	Tehri HPS	1000	500	364	479	5.86	244	6.00	-0.15
	Koteshwar HPS	400	190	91	184	3.08	128	3.10	-0.02
	Sub Total (E)	1400	690	455	663	8.94	372	9.10	-0.17
F. BBMB	Bhakra HPS	1480	903	1094	770	22.14	923	21.66	0.48
	Dehar HPS	990	623	825	560	15.23	635	14.95	0.28
	Pong HPS	396	248	320	226	6.28	262	5.95	0.33
	Sub Total (F)	2866	1774	2249	1556	43.65	1819	42.57	1.08
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	193	176	3.88	162	3.77	0.11
	KWHEP HPS(IPP)	1000	0	1200	1050	25.66	1069	27.60	-1.94
	Malana Stg-II HPS	100	0	84	99	1.85	77	0.00	1.85
	Shree Cement TPS	300	0	260	220	5.55	231	5.06	0.49
	Budhil HPS(IPP)	70		69	69	1.41	59		1.41
	Sub Total (G)	1662	0	1806	1614	38.36	1598	36.43	1.92
H. Total Regional Entities (A-G)		22336	16492	19015	17212	409.92	17080	406.41	3.50

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	1035	1210	25.79	1075	
	Guru Nanak Dev TPS(Bhatinda)	440	207	207	4.32	180	
	Guru Hargobind Singh TPS(L.mbt)	920	940	950	20.61	859	
	Thermal (Total)	2620	2182	2367	50.72	2113	
	Total Hydro	1148	783	503	16.08	670	
	Total Punjab	3768	2965	2870	66.80	2783	
Haryana	Panipat TPS	1367	1063	1105	26.18	1091	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	366	387	8.91	371	
	RGTPP (khedar) (IPP)	1200	484	533	12.91	538	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	1913	2025	48.00	2000	
	Total Hydro	62	28	30	1.00	42	
	Total Haryana	5006	1941	2055	49.00	2042	
	Rajasthan	kota TPS	1240	958	958	22.35	931
suratgarh TPS		1500	1124	1124	26.37	1099	
Chabara TPS		500	189	194	4.44	185	
Dholpur GPS		330	167	97	2.77	115	
Ramgarh GPS		111	54	56	1.37	57	
RAPS A (NPC)		300	175	170	3.93	164	
Barsingsar (NLC)		250	84	79	1.99	83	
Giral LTPS		250	61	45	1.37	57	
Rajwest LTPS (IPP)		540	353	261	7.37	307	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3165	2984	71.95	2998	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	724	815	20.10	837	
Biomass		91	41	41	0.97	41	
Solar		128	0	0	0.38	16	
Renewable/Others (Total)		2062	765	856	21.44	894	
Total Rajasthan		7767	3930	3840	93.39	3891	
UP		Anpara TPS	1630	1115	1041	22.00	917
		Obra TPS	1382	506	546	11.80	492
		Paricha TPS	890	396	540	9.60	400
	Panki TPS	210	0	95	0.60	25	
	Harduaganj TPS	665	0	0	0.00	0	
	Tanda TPS (NTPC)	440	287	284	7.09	295	
	Roza TPS (IPP)	1200	824	813	19.35	806	
	Anpara-C (IPP)	1200	398	644	13.60	567	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	310	310	7.39	308	
	Thermal (Total)	8067	3836	4273	91.43	3809	
	Vishnuparyag HPS (IPP)	400	436	436	10.46	436	
	Other Hydro	527	173	0	4.05	169	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4645	4909	110.73	4178	
Uttarakhand	Total Hydro	1303	922	871	22.49	937	
	Total Uttarakhand	1303	922	871	22.49	937	
Delhi	Rajghat TPS	135	57	101	1.71	71	
	Delhi Gas Turbine	282	212	148	4.15	173	
	Pragati Gas Turbine	330	272	282	6.72	280	
	Rithala GPS	108	22	22	0.57	24	
	Bawana GPS	677	222	230	5.21	217	
	Badarpur TPS (NTPC)	705	370	352	9.34	389	
	Thermal (Total)	2237	1155	1135	27.69	1154	
	Total Delhi	2237	1155	1135	27.69	1154	
HP	Baspa HPS (IPP)	330	330	330	7.87	328	
	Malana HPS (IPP)	86	60	88	1.59	66	
	Other Hydro	589	365	377	8.86	369	
	Total HP	1005	755	795	18	763	
J & K	Baglihar HPS (IPP)	450	436	437	10.47	436	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	614	634	15.02	626	
Total State Control Area Generation		32017	16927	17109	403.44	16374	
J. Net Inter Regional Exchange (Import (+ve)/Export (-ve))			3721	4408	102.76	4282	
Total Regional Availability(Gross)		54353	39663	38729	916.12	37736	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8910	8092	193.93	8081
State Control Area Hydro	5368	3275	2833	76.95	3206
Total Regional Hydro	15731	12185	10925	270.88	11287

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	11.96	0.00	11.96
Gwalior-Agra (D/C)	908	1172	1517	0	28.82	0.00	28.82
Zerda-Kankroli	367	221	350	0	4.80	0.00	4.80
Zerda-Bhinmal	252	216	381	19	4.36	0.00	4.36
Malanpur-Auraiya	2	-22	48	2	0.00	0.65	-0.65
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	2029	2087			49.94	0.65	49.28
Pusauli Bypass	-29	2	159	90	1.35	0.41	0.93
MZP- GKP (D/C)	546	796	992	0	18.22	0.00	18.22
Patna-Balia(D/C)	333	528	746	0	11.80	0.00	11.80
B'Sharif-Balia (D/C)	286	578	679	0	11.13	0.00	11.13
Barh - Balia(D/C)	330	325	666	0	7.93	0.00	7.93
Pusauli-Balia	0	0	0	0	0.00	0.00	0.00
Gaya-Fatehpur (765 Kv)	109	94	198	45	2.16	0.00	2.16
Pusauli-Sahupuri	159	27	159	0	2.34	0.00	2.34
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	1692	2321			54.91	1.43	53.48
Total IR Exch	3721	4408			104.85	2.09	102.76

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
27.67	2.12	29.78	-1.59	31.79	0.03	1.83	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
28.23	34.35	62.58	53.48	49.28	102.76	25.25	14.93	40.19

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	0.70	7.90	20.60	89.30	76.60	26.10	2.80

<----- 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)		
50.40	6.02	49.04	23.07	49.85	0.71	0.22	50.39	49.33

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	403	03:58	392	11:31	0.0	0.0	0.0	0.0
Gorakhpur	400	430	04:10	392	11:28	0.0	0.0	33.4	0.0
Bareilly	400	416	19:18	384	11:50	0.0	5.1	0.0	0.0
Kanpur	400	413	02:49	386	11:31	0.0	3.7	0.0	0.0
Dadri	400	411	06:02	384	11:44	0.0	12.6	0.0	0.0
Ballabgarh	400	418	06:18	386	11:45	0.0	5.5	0.0	0.0
Bawana	400	417	06:03	388	11:29	0.0	2.7	0.0	0.0
Bassi	400	424	06:20	390	14:00	0.0	0.0	4.3	0.0
Hissar	400	415	06:02	383	13:59	0.0	6.1	0.0	0.0
Moga	400	418	06:02	386	11:08	0.0	1.4	0.0	0.0
Abdullapur	400	421	06:02	250	16:24	0.1	0.1	0.1	0.0
Nalagarh	400	407	08:00	392	02:00	0.0	0.0	0.0	0.0
Kishenpur	400	412	06:02	392	11:09	0.0	0.0	0.0	0.0
Wagoora	400	410	04:01	386	09:47	0.0	13.3	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	465.82	204.14	480.94	481.64	840.56	850.89
Pong	426.72	384.05	296.21	146.09	411.45	544.90	132.92	482.09
Tehri	829.79	740.04	742.50	11.77	818.65	982.26	236.75	207.00
Koteswar	612.50	598.50	605.00	2.46	NA	NA	207.00	204.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	315.62	333.22
Rihand	268.22	252.98	255.00	76.20	254.02	38.60	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	499.52	NA	511.21	NA	277.73	314.71

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 19.06.2012 :
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 : 19.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER