

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 20.06.2012
Date of Reporting : 21.06.2012

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
37602	3378	40980	49.71	38712	2421	41133	49.97	917.2	74.19

* 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	47.41	18.13		65.54	113.47	126.57	13.09	192.11	18.45
Haryana	47.25	0.94		48.19	67.16	81.72	14.57	129.91	11.54
Rajasthan	73.92	0.00	31.81	105.73	52.25	48.32	-3.93	154.04	0.00
Delhi	26.58			26.58	88.38	78.46	-9.93	105.03	0.00
UP	96.37	14.25	4.80	115.43	99.27	126.69	27.42	242.11	40.04
Uttarakhand		21.58		21.58	11.93	13.13	1.20	34.71	1.17
HP		18.23		18.23	5.36	5.53	0.17	23.76	0.04
J & K		14.98	0.00	14.98	14.31	14.91	0.60	29.89	2.95
Chandigarh				0.00	6.94	5.66	-1.28	5.66	0.00
Total	291.53	88.11	36.61	416.25	459.06	500.99	41.92	917.23	74.19

* 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	7746	1570	198	1993	7821	657	282	1993	49.62	
Haryana	6157	63	1278	480	5103	494	374	480	11.52	
Rajasthan	6100	0	-369	-229	6884	0	279	-229	-5.50	
Delhi	4331	0	-449	612	4293	0	-397	602	16.60	
UP	9299	1595	449	0	11191	1090	1663	0	1.20	
Uttarakhand	1600	0	187	30	1229	80	-56	30	0.73	
HP	832	0	-173	-915	896	0	-79	-891	-22.56	
J&K	1375	150	72	-575	1066	100	-107	-575	-14.04	
Chandigarh	162	0	-144	40	230	0	-29	20	1.20	
Total	37602	3378	1048	1436	38712	2421	1930	1430	38.79	

* 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 [OG:(+ve), UG: (-ve)]	
									Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1524	1650	1661	36.90	1538	36.59	0.31	
	Rihand I STPS	1000	890	970	974	21.54	898	21.36	0.18	
	Rihand II STPS	1000	970	1045	1042	23.35	973	23.28	0.07	
	Rihand III STPS	500		0	0	0.00	0		0.00	
	Dadri I STPS	840	782	826	858	18.69	779	18.76	-0.07	
	Dadri II STPS	980	963	1012	1015	23.04	960	23.10	-0.06	
	Unchahar I TPS	420	384	424	418	9.25	385	9.22	0.04	
	Unchahar II TPS	420	384	422	420	9.26	386	9.22	0.04	
	Unchahar III TPS	210	194	208	213	4.71	196	4.66	0.06	
	ISTPP (Jhajjar)	1000	940	818	790	19.02	793	18.97	0.05	
	Dadri GPS	830	766	687	692	16.19	674	16.25	-0.07	
	Anta GPS	419	382	251	256	8.02	334	6.14	1.88	
	Auraiya GPS	663	593	510	514	12.31	513	11.92	0.39	
	Sub Total (A)	10282	8772	8823	8853	202.27	8428	199.45	2.82	
B. NPC	NAPS	440	258	294	297	6.16	256	6.19	-0.04	
	RAPS- B	440	389	427	436	9.35	390	9.34	0.01	
	RAPS- C	440	200	231	227	4.83	201	4.80	0.03	
	Sub Total (B)	1320	847	952	960	20.33	847	20.33	0.00	
C. NHPC	Chamera I HPS	540	534	540	540	11.40	475	11.40	0.00	
	Chamera II HPS	300	300	302	301	7.23	301	7.25	-0.02	
	Chamera III HPS	231		152	152	3.45	144		3.45	
	Bairasuil HPS	180	182	182	120	2.79	116	2.73	0.05	
	Salal-HPS	690	662	662	662	15.90	662	15.89	0.01	
	Tanakpur-HPS	94	72	93	71	1.98	83	2.06	-0.07	
	Uri-HPS	480	473	480	479	11.50	479	11.50	0.01	
	Dhauliganga-HPS	280	277	281	285	6.78	283	6.72	0.06	
	Dulhasti-HPS	390	387	393	375	9.21	384	9.14	0.08	
	Sewa-II HPS	120	73	85	41	1.31	54	1.26	0.04	
	Sub Total (C)	3305	2960	3170	3026	71.55	2981	67.94	3.60	
D.NJPC	Nathpa Jhakri	1500	1600	1619	1621	38.46	1602	38.40	0.06	
	Sub Total (D)	1500	1600	1619	1621	38.46	1602	38.40	0.06	
E. THDC	Tehri HPS	1000	500	247	481	6.96	290	7.00	-0.04	
	Koteshwar HPS	400	174	88	186	3.07	128	3.10	-0.03	
	Sub Total (E)	1400	674	335	667	10.03	418	10.10	-0.08	
F. BBMB	Bhakra HPS	1480	909	1090	747	22.46	936	21.82	0.64	
	Dehar HPS	990	585	825	660	15.24	635	14.04	1.20	
	Pong HPS	396	260	324	226	6.28	262	6.23	0.05	
	Sub Total (F)	2866	1753	2239	1633	43.98	1833	42.08	1.90	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	198	169	4.01	167	3.54	0.46	
	KWHEP HPS(IPP)	1000	0	1200	1200	28.16	1173	25.20	2.96	
	Malana Stg-II HPS	100	0	0	79	1.53	64	0.00	1.53	
	Shree Cement TPS	300	0	256	266	4.94	206	6.01	-1.07	
	Budhil HPS(IPP)	70		35	70	1.05	44		1.05	
	Sub Total (G)	1662	0	1689	1784	39.69	1654	34.75	4.94	
H. Total Regional Entities (A-G)		22336	16607	18827	18544	426.30	17763	413.06	13.25	

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	1020	1035	22.61	942	
	Guru Nanak Dev TPS(Bhatinda)	440	207	207	4.37	182	
	Guru Har Gobind Singh TPS(L.mbt)	920	934	941	20.44	852	
	Thermal (Total)	2620	2161	2183	47.41	1976	
	Total Hydro	1148	783	783	18.13	755	
	Total Punjab	3768	2944	2966	65.54	2731	
Haryana	Panipat TPS	1367	1107	1092	26.55	1106	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	363	374	8.91	371	
	RGTPP (khedar) (IPP)	1200	552	446	11.79	491	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	2022	1912	47.25	1969	
	Total Hydro	62	33	25	0.94	39	
	Total Haryana	5006	2055	1937	48.19	2008	
	Rajasthan	kota TPS	1240	968	956	22.66	944
suratgarh TPS		1500	1106	1126	26.66	1111	
Chabra TPS		500	229	209	4.62	193	
Dholpur GPS		330	106	107	2.74	114	
Ramgarh GPS		111	52	55	1.37	57	
RAPS A (NPC)		300	164	164	3.85	160	
Barsingsar (NLC)		250	81	83	2.02	84	
Giral LTPS		250	81	100	2.20	91	
Rajwest LTPS (IPP)		540	321	335	7.79	325	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3108	3135	73.92	3080	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	1377	1084	30.58	1274	
Biomass		91	36	36	0.85	36	
Solar		128	0	0	0.38	16	
Renewable/Others (Total)		2062	1413	1120	31.81	1325	
Total Rajasthan		7767	4521	4255	105.73	4405	
UP		Anpara TPS	1630	1017	987	23.60	983
		Obra TPS	1382	400	467	10.30	429
		Paricha TPS	890	520	555	12.20	508
	Panki TPS	210	68	0	0.90	38	
	Harduaganj TPS	665	40	0	0.80	33	
	Tanda TPS (NTPC)	440	289	286	7.00	292	
	Roza TPS (IPP)	1200	815	823	19.62	817	
	Anpara-C (IPP)	1200	648	495	14.51	605	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	309	311	7.45	310	
	Thermal (Total)	8067	4106	3924	96.37	4016	
	Vishnuparyag HPS (IPP)	400	436	436	10.45	435	
	Other Hydro	527	180	0	3.80	158	
	Cogeneration	981	200	200	4.80	200	
	Total UP	9975	4922	4560	115.43	4374	
	Uttarakhand	Total Hydro	1303	919	749	21.58	899
Total Uttarakhand		1303	919	749	21.58	899	
Delhi	Rajghat TPS	135	56	55	1.26	53	
	Delhi Gas Turbine	282	171	145	3.65	152	
	Pragati Gas Turbine	330	270	273	6.64	277	
	Rithala GPS	108	22	22	0.52	22	
	Bawana GPS	677	216	228	5.18	216	
	Badarpur TPS (NTPC)	705	375	415	9.32	388	
	Thermal (Total)	2237	1110	1138	26.58	1107	
	Total Delhi	2237	1110	1138	26.58	1107	
HP	Baspa HPS (IPP)	330	330	330	7.92	330	
	Malana HPS (IPP)	86	56	64	1.46	61	
	Other Hydro	589	379	360	8.85	369	
	Total HP	1005	765	754	18	760	
J & K	Baglihar HPS (IPP)	450	436	436	10.44	435	
	Other Hydro	323	178	197	4.55	189	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	614	633	14.98	624	
Total State Control Area Generation		32017	17850	16992	416.25	16908	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2348	5046	97.74	4073	
Total Regional Availability(Gross)		54353	39025	40582	940.29	38743	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8761	8395	197.71	8238
State Control Area Hydro	5368	3294	2944	77.66	3236
Total Regional Hydro	15731	12055	11339	275.37	11474

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	12.03	0.00	12.03
Gwalior-Agra (D/C)	116	1420	1499	0	30.73	0.00	30.73
Zerda-Kankroli	222	286	375	0	4.07	0.00	4.07
Zerda-Bhinmal	170	255	355	68	3.24	0.00	3.24
Malanpur-Auraiya	11	-17	46	18	0.00	0.94	-0.94
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	1019	2444			50.07	0.94	49.13
Pusauli Bypass	-126	-41	54	227	0.12	1.79	-1.67
MZP- GKP (D/C)	380	664	816	0	14.17	0.00	14.17
Patna-Balia(D/C)	607	508	621	0	12.19	0.00	12.19
B'Sharif-Balia (D/C)	346	559	570	0	9.97	0.00	9.97
Barh - Balia(D/C)	0	620	634	0	8.32	0.00	8.32
Pusauli-Balia	6	79	80	0	0.58	0.00	0.58
Gaya-Fatehpur (765 Kv)	15	80	174	0	2.39	0.00	2.39
Pusauli-Sahupuri	143	162	167	0	3.68	0.00	3.68
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	1329	2602			51.42	2.81	48.61
Total IR Exch	2348	5046			101.49	3.75	97.74

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
28.84	2.95	31.80	3.36	35.17	-4.91	-5.23	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
30.25	30.28	60.52	48.61	49.13	97.74	18.36	18.86	37.22

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	0.24	3.40	33.89	95.49	65.00	19.93	1.11

<----- 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)		
50.41	18.02	49.14	22.08	49.85	0.54	0.16	50.27	49.40

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	400	02:02	394	01:04	0.0	0.0	0.0	0.0
Gorakhpur	400	428	18:50	400	01:16	0.0	0.0	28.6	0.0
Bareilly	400	419	18:52	389	01:13	0.0	0.1	0.0	0.0
Kanpur	400	410	06:04	391	01:09	0.0	0.0	0.0	0.0
Dadri	400	407	19:00	386	16:15	0.0	2.7	0.0	0.0
Ballabgarh	400	413	19:00	390	16:12	0.0	0.0	0.0	0.0
Bawana	400	411	19:02	390	16:12	0.0	0.0	0.0	0.0
Bassi	400	420	17:51	393	16:12	0.0	0.0	0.0	0.0
Hissar	400	409	18:00	388	09:32	0.0	3.0	0.0	0.0
Moga	400	414	22:33	390	09:32	0.0	0.0	0.0	0.0
Abdullapur	400	413	06:04	250	12:13	0.2	0.2	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	411	18:01	393	09:37	0.0	0.0	0.0	0.0
Wagoora	400	406	18:01	383	09:33	0.0	15.9	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 20.06.2012 :
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 : 20.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER