

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरलिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.06.2012
Date of Reporting : 25.06.2012

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
36678	2070	38748	50.06	40468	2352	42820	49.93	922.3	54.43

* 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	49.68	16.48		66.15	119.36	120.43	1.06	186.58	17.72
Haryana	60.54	0.91		61.45	65.68	80.41	14.73	141.86	2.73
Rajasthan	74.33	0.00	30.57	104.90	43.35	51.39	8.05	156.29	0.10
Delhi	28.45			28.45	80.68	77.20	-3.48	105.65	0.36
UP	100.26	14.17	4.80	119.23	106.92	127.50	20.58	246.74	30.50
Uttarakhand		20.67		20.67	12.80	10.71	-2.09	31.38	0.00
HP		18.78		18.78	5.10	1.87	-3.23	20.66	0.08
J & K		15.10	0.00	15.10	14.19	12.47	-1.72	27.57	2.95
Chandigarh				0.00	6.56	5.59	-0.98	5.59	0.00
Total	313.26	86.10	35.37	434.73	454.64	487.58	32.94	922.31	54.43

* 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	7176	480	-403	1819	8294	728	415	1941	45.98
Haryana	6134	0	857	456	5813	323	677	456	10.94
Rajasthan	6097	0	112	-229	7268	0	1102	-229	-5.60
Delhi	4405	0	173	904	4517	6	-72	617	20.60
UP	9339	1440	-250	0	11280	1195	1036	50	1.50
Uttarakhand	1380	0	-22	50	1306	0	-113	28	0.85
HP	705	0	-328	-1252	819	0	-27	-1285	-30.71
J&K	1202	150	-121	-554	922	100	-172	-554	-13.53
Chandigarh	240	0	-47	40	249	0	-15	20	1.20
Total	36678	2070	-29	1233	40468	2352	2831	1046	31.24

* 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	1714	1849	1862	41.33	1722	40.80	0.53	
	Rihand I STPS	1000	870	950	951	20.84	868	20.70	0.13	
	Rihand II STPS	1000	970	1034	1040	23.35	973	23.09	0.25	
	Rihand III STPS	500		0	0	0.00	0		0.00	
	Dadri I STPS	840	793	823	866	18.99	791	18.99	0.00	
	Dadri II STPS	980	712	412	1017	16.98	707	17.02	-0.04	
	Unchahar I TPS	420	398	437	440	9.51	396	9.50	0.01	
	Unchahar II TPS	420	402	440	439	9.63	401	9.55	0.09	
	Unchahar III TPS	210	200	220	270	4.79	200	4.77	0.02	
	ISTPP (Jhajjhar)	1000	936	983	1007	21.82	909	22.33	-0.51	
	Dadri GPS	830	760	530	756	13.97	582	14.10	-0.14	
	Anta GPS	419	300	208	255	4.87	203	4.88	-0.01	
	Auraiya GPS	663	590	369	452	9.37	391	9.43	-0.06	
	Sub Total (A)	10282	8646	8255	9355	195.44	8143	195.16	0.28	
B. NPC	NAPS	440	254	299	296	6.18	258	6.10	0.09	
	RAPS- B	440	391	434	434	9.39	391	9.38	0.00	
	RAPS- C	440	200	215	234	4.84	202	4.80	0.04	
	Sub Total (B)	1320	845	948	964	20.41	850	20.28	0.13	
C. NHPC	Chamera I HPS	540	534	540	540	12.29	512	12.21	0.08	
	Chamera II HPS	300	300	301	300	7.13	297	7.14	-0.01	
	Chamera III HPS	231		77	77	3.46	144		3.46	
	Bairasuil HPS	180	182	120	182	3.02	126	3.53	-0.51	
	Salal-HPS	690	662	654	660	15.65	652	15.84	-0.19	
	Tanakpur-HPS	94	89	88	91	2.18	91	2.21	-0.04	
	Uri-HPS	480	472	478	480	11.59	483	11.52	0.07	
	Dhauliganga-HPS	280	277	283	285	6.66	277	6.88	-0.22	
	Dulhasti-HPS	390	286	404	0	6.74	281	6.48	0.26	
	Sewa-II HPS	120	80	68	78	1.30	54	1.29	0.01	
	Sub Total (C)	3305	2881	3013	2693	70.01	2917	67.10	2.91	
	D. NJPC	Natpna Jhakri	1500	1600	1619	1621	38.63	1610	38.40	0.23
		Sub Total (D)	1500	1600	1619	1621	38.63	1610	38.40	0.23
E. THDC	Tehri HPS	1000	525	525	533	9.19	383	9.50	-0.31	
	Koteshwar HPS	400	360	92	187	4.19	175	4.20	-0.01	
	Sub Total (E)	1400	885	617	720	13.38	558	13.70	-0.32	
F. BBMB	Bhakra HPS	1480	896	1101	747	21.84	910	21.50	0.34	
	Dehar HPS	990	625	825	660	15.16	632	15.01	0.15	
	Pong HPS	396	230	318	168	5.68	237	5.52	0.16	
	Sub Total (F)	2866	1751	2244	1575	42.68	1778	42.02	0.66	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	231	232	4.96	207	4.29	0.67	
	KWHEP HPS(IPP)	1000	0	1200	1200	28.45	1185	28.26	0.19	
	Malana Stg-II HPS	100	0	109	106	2.47	103	0.00	2.47	
	Shree Cement TPS	300	0	206	273	5.34	222	6.20	-0.86	
	Budhil HPS(IPP)	70		69	0	0.72	30		0.72	
	Sub Total (G)	1662	0	1815	1811	41.94	1748	38.75	3.19	
H. Total Regional Entities (A-G)	22336	16608	18511	18739	422.50	17604	415.41	7.09		

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	1030	24.84	1035	
	Guru Nanak Dev TPS(Bhatinda)	440	180	207	5.33	222	
	Guru Hargobind Singh TPS(L.mbt)	920	902	884	19.51	813	
	Thermal (Total)	2620	2102	2121	49.68	2070	
	Total Hydro	1148	466	778	16.48	686	
	Total Punjab	3768	2568	2899	66.15	2756	
Haryana	Panipat TPS	1367	1111	1105	26.88	1120	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	367	369	8.77	365	
	RGTPP (khedar) (IPP)	1200	502	544	13.17	549	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	466	469	11.73	489	
	Thermal (Total)	4944	2446	2487	60.54	2523	
	Total Hydro	62	25	26	0.91	38	
		Total Haryana	5006	2471	2513	61.45	2560
	Rajasthan	kota TPS	1240	955	976	22.88	953
suratgarh TPS		1500	1084	889	24.61	1025	
Chabra TPS		500	171	200	4.37	182	
Dholpur GPS		330	92	97	2.15	90	
Ramgarh GPS		111	53	52	1.23	51	
RAPS A (NPC)		300	175	175	3.99	166	
Barsingsar (NLC)		250	184	180	4.75	198	
Giral LTPS		250	136	120	2.47	103	
Rajwest LTPS (IPP)		540	338	338	7.88	328	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Thermal (Total)		5156	3188	3027	74.33	3097	
Total Hydro		550	0	0	0.00	0	
Wind power		1843	1241	1370	29.63	1234	
Biomass		91	27	27	0.62	26	
Solar		128	0	0	0.32	13	
Renewable/Others (Total)		2062	1268	1397	30.57	1274	
		Total Rajasthan	7767	4456	4424	104.90	4371
UP		Anpara TPS	1630	1185	1169	25.40	1058
		Obra TPS	1382	549	516	11.50	479
		Paricha TPS	890	578	450	10.20	425
	Panki TPS	210	75	80	1.60	67	
	Harduaganj TPS	665	42	232	3.80	158	
	Tanda TPS (NTPC)	440	378	381	8.15	340	
	Roza TPS (IPP)	1200	765	812	19.25	802	
	Anpara-C (IPP)	1200	532	572	13.15	548	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	308	264	7.21	300	
	Thermal (Total)	8067	4412	4476	100.26	4178	
	Vishnuparyag HPS (IPP)	400	436	396	10.34	431	
	Other Hydro	527	145	0	3.83	160	
	Cogeneration	981	200	200	4.80	200	
		Total UP	9975	5193	5072	119.23	4537
	Uttarakhand	Total Hydro	1303	879	884	20.67	861
Total Uttarakhand		1303	879	884	20.67	861	
Delhi	Rajghat TPS	135	104	98	2.72	113	
	Delhi Gas Turbine	282	208	209	5.20	216	
	Pragati Gas Turbine	330	270	276	6.83	284	
	Rithala GPS	108	22	22	0.50	21	
	Bawana GPS	677	153	201	4.12	172	
	Badarpur TPS (NTPC)	705	410	415	9.09	379	
	Thermal (Total)	2237	1167	1221	28.45	1185	
		Total Delhi	2237	1167	1221	28.45	1185
HP	Baspa HPS (IPP)	330	322	215	7.41	309	
	Malana HPS (IPP)	86	94	96	2.22	92	
	Other Hydro	589	393	381	9.16	381	
		Total HP	1005	809	692	19	783
J & K	Baglihar HPS (IPP)	450	439	440	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	637	15.10	629
Total State Control Area Generation		32017	18160	18342	434.73	17683	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			2077	5107	89.86	3744	
Total Regional Availability(Gross)		54353	38748	42188	947.08	39031	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9033	8147	200.59	8358
State Control Area Hydro	5368	2941	3017	75.76	3157
Total Regional Hydro	15731	11974	11164	276.35	11515

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	500	500	0	6.93	0.00	6.93
Gwalior-Agra (D/C)	586	1015	1193	0	18.76	0.00	18.76
Zerda-Kankroli	129	264	264	163	2.08	0.00	2.08
Zerda-Bhinmal	87	224	247	239	1.38	0.00	1.38
Malanpur-Auraiya	-68	-27	0	109	0.00	0.98	-0.98
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	934	1976			29.15	0.98	28.16
Pusauli Bypass	200	200	200	0	4.89	0.00	4.89
MZP- GKP (D/C)	480	852	1330	0	20.62	0.00	20.62
Patna-Balia(D/C)	219	468	684	0	10.28	0.00	10.28
B'Sharif-Balia (D/C)	72	612	796	0	9.88	0.00	9.88
Barh - Balia(D/C)	215	585	590	0	8.87	0.00	8.87
Pusauli-Balia	-125	86	141	125	0.90	0.00	0.90
Gaya-Fatehpur (765 Kv)	-16	219	316	16	3.94	0.00	3.94
Pusauli-Sahupuri	140	138	172	0	3.33	0.00	3.33
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	1143	3131			62.71	1.02	61.69
Total IR Exch	2077	5107			91.86	2.00	89.86

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
28.05	2.52	30.57	5.52	24.85	-5.75	-0.88	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
30.34	23.52	53.86	61.69	28.16	89.86	31.35	4.65	36.00

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	0.80	3.20	19.00	94.30	78.50	13.10	2.50

<----- 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				
50.38	18.04	49.02	0.09	49.82	0.62	0.18	50.30	49.31

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	398	02:29	396	00:04	0.0	0.0	0.0	0.0
Gorakhpur	400	427	18:00	383	14:07	0.0	9.7	22.8	0.0
Bareilly	400	424	18:03	386	13:58	0.0	3.2	0.4	0.0
Kanpur	400	418	18:01	389	13:58	0.0	0.6	0.0	0.0
Dadri	400	415	18:02	389	14:13	0.0	0.1	0.0	0.0
Ballabgarh	400	420	18:01	392	13:56	0.0	0.0	0.0	0.0
Bawana	400	418	18:03	398	00:05	0.0	0.0	0.0	0.0
Bassi	400	427	18:00	397	00:06	0.0	0.0	5.8	0.0
Hissar	400	416	18:02	382	12:18	0.0	3.5	0.0	0.0
Moga	400	422	18:01	391	12:18	0.0	0.0	0.1	0.0
Abdullapur	400	419	18:02	397	12:17	0.0	0.0	0.0	0.0
Nalagarh	400	411	20:08	382	12:18	0.0	5.1	0.0	0.0
Kishenpur	400	414	18:02	394	12:18	0.0	0.0	0.0	0.0
Wagoora	400	409	00:51	390	12:18	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	466.73	217.22	482.75	527.67	1171.41	823.93
Pong	426.72	384.05	395.15	126.34	411.42	544.90	323.07	449.59
Tehri	829.79	740.04	743.75	19.04	818.65	982.26	342.72	322.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	409.04	333.39
Rihand	268.22	252.98	254.57	59.60	255.76	106.50	NA	NA
RPS	352.80	343.81	349.78	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.63	NA	NA	NA	NA	NA
RSD	527.91	487.91	499.22	NA	509.64	NA	272.46	255.39

* NA: Not Available
IX. System Constraints:

X. Grid Disturbance / Any Other Significant Event:

XI. Weather Conditions For 24.06.2012 :
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 : 24.06.2012

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER