

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.06.2013
Date of Reporting : 19.06.2013

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
34148	1554	35702	49.80	28064	5	28069	50.19	752.7	20.60

* 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)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	21.62	13.26		34.88	109.88	108.24	-1.64	143.12	0.00
Haryana	19.65	0.00		19.65	96.96	93.95	-3.00	113.60	0.00
Rajasthan	78.28	0.20	11.52	89.99	59.12	52.70	-6.41	142.70	0.60
Delhi	17.05			17.05	66.72	64.02	-2.70	81.07	0.40
UP	104.32	2.20	4.20	110.72	96.43	91.61	-4.83	202.32	17.90
Uttarakhand		0.94		0.94	14.40	16.12	1.72	17.06	0.00
HP		17.32		17.32	2.14	4.70	2.55	22.01	0.00
J & K		13.42	0.00	13.42	14.22	12.90	-1.31	26.32	1.70
Chandigarh				0.00	0.25	4.54	4.28	4.54	0.00
Total	240.91	47.33	15.72	303.96	460.12	448.78	-11.34	752.74	20.60

* 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	
Punjab	7303	0	-16	1546	4554	0	-173	900	36.26	
Haryana	5478	0	-34	1123	4299	0	-322	1099	24.93	
Rajasthan	5656	0	-567	318	5642	0	-374	299	5.58	
Delhi	3731	14	3	-340	2902	5	-187	58	-0.64	
UP	8728	1440	-51	340	8383	0	-6	947	13.29	
Uttarakhand	949	0	112	184	618	0	48	-35	-0.09	
HP	923	0	-7	-473	808	0	136	-857	-14.97	
J&K	1161	100	-40	-198	728	0	-236	-350	-6.65	
Chandigarh	220	0	220	0	131	0	131	0	0.00	
Total	34148	1554	-379	2499	28064	5	-982	2061	57.72	

* 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	1935	2089	1514	43.32	1805	42.93	0.39
	Rihand I STPS	1000	838	991	650	19.59	816	19.22	0.36
	Rihand II STPS	1000	889	1043	656	20.41	851	20.34	0.07
	Rihand III STPS	500	435	493	143	9.91	413	9.54	0.38
	Dadri I STPS	840	727	616	494	12.24	510	11.91	0.33
	Dadri II STPS	980	975	1012	706	18.96	790	19.21	-0.25
	Unchahar I TPS	420	403	440	387	9.43	393	9.45	-0.03
	Unchahar II TPS	420	201	219	216	4.74	197	4.73	0.01
	Unchahar III TPS	210	201	218	217	4.68	195	4.68	0.00
	ISTPP (Jhajhar)	1500	940	482	317	8.17	340	8.92	-0.75
	Dadri GPS	830	806	566	398	10.08	420	10.49	-0.41
	Anta GPS	419	398	0	0	0.00	0	0.00	0.00
	Auraiya GPS	663	630	306	313	7.21	301	6.92	0.29
	Sub Total (A)	10782	9377	8475	6011	168.73	7030	168.35	0.38
B. NPC	NAPS	440	306	333	333	7.16	298	7.36	-0.20
	RAPS- B	440	388	428	434	9.40	392	9.31	0.09
	RAPS- C	440	410	459	444	9.75	406	9.84	-0.09
	Sub Total (B)	1320	1104	1220	1211	26.31	1096	26.51	-0.20
C. NHPC	Chamera I HPS	540	540	540	540	13.01	542	12.96	0.05
	Chamera II HPS	300	310	307	307	7.36	307	7.33	0.04
	Chamera III HPS	231	231	237	235	5.57	232	5.48	0.09
	Bairasuil HPS	180	179	179	100	2.36	98	2.15	0.20
	Salal-HPS	690	660	667	667	16.03	668	15.84	0.19
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	471	476	464	11.32	472	11.05	0.26
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	402	9.38	391	9.00	0.38
	Sewa-II HPS	120	119	125	0	1.11	46	1.00	0.11
Sub Total (C)	3305	2897	2935	2715	66.13	2756	64.81	1.33	
D. NJPC	Natpaa Jhakri	1500	0	0	0	0.00	0	0.00	0.00
	Sub Total (D)	1500	0	0	0	0.00	0	0.00	0.00
E. THDC	Tehri HPS	1000	747	500	610	14.92	622	14.50	0.42
	Koteshwar HPS	400	291	292	295	6.98	291	6.95	0.03
Sub Total (E)	1400	1038	792	905	21.90	913	21.45	0.45	
F. BBMB	Bhakra HPS	1480	1195	1260	1260	28.97	1207	28.69	0.28
	Dehar HPS	990	609	825	610	15.04	627	14.61	0.43
	Pong HPS	396	15	186	0	0.44	18	0.37	0.07
	Sub Total (F)	2866	1820	2271	1870	44.45	1852	43.67	0.78
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	168	109	3.26	136	3.02	0.24
	KWHEP HPS(IPP)	1000	0	0	0	0.00	0	16.33	-16.33
	Malana Stg-II HPS	100	0	62	61	0.73	30	1.34	-0.61
	Shree Cement TPS	300	0	262	261	6.30	263	6.37	-0.07
	Budhil HPS(IPP)	70	0	35	34	0.82	34	0.72	0.10
	Sub Total (G)	1662	0	527	465	11.11	463	27.78	-16.68
H. Total Regional Entities (A-G)	22836	16237	16220	13177	338.63	14110	352.56	-13.93	

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	550	335	9.10	379	
	Guru Nanak Dev TPS(Bhatinda)	440	106	90	2.11	88	
	Guru Hargobind Singh TPS(L.mbt)	920	647	315	10.41	434	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1303	740	21.62	901	
	Total Hydro	1148	715	341	13.26	552	
	Total Punjab	3768	2018	1081	34.88	1453	
Haryana	Panipat TPS	1367	457	201	6.73	280	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	29	2	0.70	29	
	RGTPP (khedar) (IPP)	1200	511	562	12.22	509	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	0	0	0.00	0	
	Thermal (Total)	4944	997	765	19.65	819	
	Total Hydro	62	0	0	0.00	0	
		Total Haryana	5006	997	765	19.65	819
	Rajasthan	kota TPS	1240	906	910	21.40	892
suratgarh TPS		1500	969	927	23.20	967	
Chabra TPS		500	97	196	3.98	166	
Dholpur GPS		330	134	134	7.67	319	
Ramgarh GPS		111	69	46	1.51	63	
RAPS A (NPC)		300	176	176	4.30	179	
Barsingar (NLC)		250	0	0	0.00	0	
Giral LTPS		250	0	33	0.03	1	
Rajwest LTPS (IPP)		1080	755	705	16.19	675	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	0	0.00	0	
Thermal (Total)		6956	3106	3127	78.28	3261	
Total Hydro		550	0	0	0.20	8	
Wind power		2191	875	472	9.66	402	
Biomass		91	18	18	0.43	18	
Solar		201	0	0	1.43	60	
Renewable/Others (Total)		2483	893	490	11.52	480	
		Total Rajasthan	9989	3999	3617	89.99	3750
UP		Anpara TPS	1630	1354	1357	29.30	1221
	Obra TPS	1288	503	524	11.40	475	
	Paricha TPS	1140	923	970	19.70	821	
	Panki TPS	210	110	75	2.00	83	
	Harduaganj TPS	665	414	357	8.00	333	
	Tanda TPS (NTPC)	440	293	243	7.04	293	
	Roza TPS (IPP)	1200	635	599	15.16	632	
	Anpara-C (IPP)	1200	513	466	11.72	488	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	0	0	0.00	0	
	Thermal (Total)	8223	4745	4591	104.32	4347	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	117	74	2.20	92	
	Cogeneration	981	175	175	4.20	175	
		Total UP	10131	5037	4840	110.72	4613
Uttarakhand	Total Hydro	1303	41	38	0.94	39	
	Total Uttarakhand	1303	41	38	0.94	39	
Delhi	Rajghat TPS	135	38	36	0.82	34	
	Delhi Gas Turbine	282	116	116	2.56	107	
	Pragati Gas Turbine	330	142	146	3.44	143	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	565	415	10.23	426	
	Thermal (Total)	2232	861	713	17.05	710	
	Total Delhi	2232	861	713	17.05	710	
HP	Baspa HPS (IPP)	330	329	0	3.87	161	
	Malana HPS (IPP)	86	50	47	1.30	54	
	Other Hydro	589	552	426	12.14	506	
		Total HP	1005	931	473	17.32	722
J & K	Baglihar HPS (IPP)	450	438	436	10.46	436	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	548	564	13.42	559
Total State Control Area Generation		34390	14432	12091	303.96	12665	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5862	3726	127.07	5295	
Total Regional Availability(Gross)		57226	36514	28994	769.66	32069	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	6228	5660	136.47	5686
State Control Area Hydro	5368	2352	1490	47.33	1972
Total Regional Hydro	15731	8580	7150	183.81	7659

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	250	100	500	0	7.63	1.21	6.42
Gwalior-Agra (D/C)	1958	1437	1958	0	39.39	0.00	39.39
Zerda-Kankroli	98	-36	151	121	0.42	0.00	0.42
Zerda-Bhinmal	87	-39	181	148	0.87	0.00	0.87
Malanpur-Auraiya	-47	-36	0	58	0.00	0.95	-0.95
Badod-Kota/Morak	40	-8	97	58	0.00	0.52	-0.52
Mundra-Mohindergarh(HVDC)	1449	1136	1450	0	30.97	0.00	30.97
Sub Total WR	3835	2554			79.27	2.69	76.58
Pusauli Bypass	-194	-286	0	333	0.00	5.18	-5.18
MZP- GKP (D/C)	760	472	904	0	17.16	0.00	17.16
Patna-Balia(D/C)	559	521	945	0	16.23	0.00	16.23
B'Sharif-Balia (D/C)	275	169	450	0	6.41	0.00	6.41
Pusauli-Balia	-39	-22	30	58	0.00	0.51	-0.51
Gaya-Fatehpur (765 Kv)	158	3	229	0	2.91	0.00	2.91
Pusauli-Sahupuri	131	128	217	0	3.00	0.00	3.00
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	415	227	470	0	11.36	0.00	11.36
Sub Total ER	2027	1172			57.07	6.58	50.49
Total IR Exch	5862	3726			136.34	9.27	127.07

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
38.70	2.55	41.25	14.23	22.62	-2.18	-0.86	0.59	-0.59

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)	
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR
53.90	74.08	127.98	50.49	76.58	127.07	-3.41	2.50
							-0.91

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.20	1.80	7.10	94.00	9.70	88.70	41.50	4.20

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.50	13.03	49.05	21.19	49.95	0.32	0.17	50.45	49.38

VII. Voltage profile 400 kV

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	415	23:54	397	10:03	0.0	0.0	0.0	0.0
Gorakhpur	400	429	04:02	407	12:04	0.0	0.0	39.4	0.0
Bareilly	400	425	03:33	397	14:21	0.0	0.0	17.5	0.0
Kanpur	400	425	03:28	399	14:22	0.0	0.0	22.6	0.0
Dadri	400	422	03:07	397	09:49	0.0	0.0	6.0	0.0
Ballabgarh	400	427	03:05	399	10:00	0.0	0.0	31.1	0.0
Bawana	400	424	03:08	399	09:48	0.0	0.0	15.0	0.0
Bassi	400	433	04:02	409	09:59	0.0	0.0	49.0	2.6
Hissar	400	414	03:09	389	09:49	0.0	0.1	0.0	0.0
Moga	400	422	13:02	393	10:00	0.0	0.0	0.5	0.0
Abdullapur	400	424	02:12	299	23:28	0.0	0.0	12.5	0.0
Nalagarh	400	428	02:09	401	10:02	0.0	0.0	25.5	0.0
Kishenpur	400	417	13:04	403	20:11	0.0	0.0	0.0	0.0
Wagoora	400	415	00:36	397	21:19	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	781	13:04	740	10:04	0.0	1.9	0.0	0.0
Balia	765	764	03:33	707	11:12	15.0	47.7	0.0	0.0
Moga	765	806	13:02	739	10:00	0.0	1.5	0.6	0.0
Agra	765	811	04:02	759	10:00	0.0	0.0	17.1	0.0
Bhiwani	765	797	04:03	748	09:50	0.0	0.0	0.0	0.0
Unnao	765	780	23:31	725	10:06	2.2	23.5	0.0	0.0

IX. 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	486.44	627.57	465.63	204.14	1471.71	998.17
Pong	426.72	384.05	402.30	273.51	396.48	151.67	18.51	29.70
Tehri	829.79	740.04	776.80	285.56	818.65	982.26	1365.84	417.00
Koteshwar	612.50	598.50	608.30	4.21	NA	NA	426.00	395.00
Chamera-I	760.00	748.75	760.00	NA	NA	NA	363.81	352.37
Rihand	288.22	252.98	255.06	78.60	255.06	78.60	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	514.05	160.00	499.65	124.00	480.11	53.18

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.06.2013 :

1. Normal weather.

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

1. NJPC (1500) MW , Kacham (1000 MW), Basapa (330MW), Dhaliganga (280MW), Vishnuprayg (400MW),Tanakpur(90MW) closed due high silt level.
& Complete generation of Ultrakhand about (800MW) Except Ramganga (30MW).

Report for : 18.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER