

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.06.2013
Date of Reporting : 26.06.2013

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
38900	3155	42055	49.90	40433	1140	41573	50.27	939.6	48.77

* 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	52.80	18.48		71.28	123.87	124.67	0.79	195.94	11.13
Haryana	61.69	0.43		62.12	103.93	103.38	-0.55	165.50	0.93
Rajasthan	83.62	0.00	20.08	103.70	63.87	61.42	-2.45	165.12	1.87
Delhi	31.46			31.46	77.58	73.71	-3.88	105.16	0.20
UP	98.99	2.95	3.60	105.54	114.11	110.58	-3.53	216.13	31.71
Uttarakhand		10.58		10.58	18.78	20.79	2.00	31.36	1.21
HP		23.25		23.25	2.64	1.67	-0.96	24.92	0.01
J & K		13.40	0.00	13.40	18.80	16.14	-2.66	29.54	1.70
Chandigarh				0.00	6.00	5.89	-0.11	5.89	0.00
Total	328.56	69.09	23.68	421.32	529.58	518.24	-11.34	939.56	48.77

* 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	8130	1035	-28	1922	8354	200	-88	1907	45.41	
Haryana	7196	67	182	1128	6733	0	-225	1008	22.56	
Rajasthan	6173	103	-43	276	6820	110	-53	280	5.56	
Delhi	4354	0	-95	254	4251	0	-246	304	9.85	
UP	9035	1710	-234	143	10824	830	-45	1578	14.48	
Uttarakhand	1409	140	105	406	1305	0	5	279	7.18	
HP	1011	0	-160	-890	928	0	-33	-1054	-22.41	
J&K	1339	100	-59	-191	1005	0	-213	-261	-4.39	
Chandigarh	254	0	-18	0	214	0	-30	0	0.18	
Total	38900	3155	-349	3046	40433	1140	-928	4041	78.41	

* 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	1783	2078	1537	42.12	1755	42.73	-0.61
	Rihand I STPS	1000	490	525	501	11.36	474	11.47	-0.11
	Rihand II STPS	1000	945	939	1007	21.38	891	21.73	-0.35
	Rihand III STPS	500	470	507	484	10.58	441	10.92	-0.34
	Dadri I STPS	840	805	663	630	15.09	629	14.95	0.14
	Dadri II STPS	980	968	727	894	18.81	784	19.46	-0.65
	Unchahar I TPS	420	388	397	403	8.63	359	8.90	-0.28
	Unchahar II TPS	420	201	190	203	4.32	180	4.38	-0.06
	Unchahar III TPS	210	196	185	205	4.16	173	4.18	-0.02
	ISTPP (Jhajhar)	1500	1410	906	848	19.71	821	20.69	-0.98
	Dadri GPS	830	804	497	522	11.40	475	11.48	-0.08
	Anta GPS	419	398	0	257	1.27	53	1.59	-0.32
	Auraiya GPS	663	630	295	305	6.47	270	6.46	0.02
	Sub Total (A)	10782	9486	7909	7796	175.30	7304	178.94	-3.64
B. NPC	NAPS	440	290	332	333	7.11	296	6.96	0.15
	RAPS- B	440	388	428	432	9.24	385	9.31	-0.07
	RAPS- C	440	400	458	461	9.79	408	9.60	0.19
	Sub Total (B)	1320	1078	1218	1226	26.14	1089	25.87	0.27
C. NHPC	Chamera I HPS	540	540	540	540	13.00	542	12.96	0.04
	Chamera II HPS	300	306	312	307	7.33	306	7.34	-0.01
	Chamera III HPS	231	231	233	232	5.53	230	5.52	0.01
	Bairasuil HPS	180	179	179	20	2.30	96	2.02	0.27
	Salal-HPS	690	670	666	669	15.94	664	16.08	-0.15
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	471	474	472	11.07	461	11.23	-0.16
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasi-HPS	390	387	407	380	9.31	388	9.32	-0.01
	Sewa-II HPS	120	119	124	0	0.89	37	0.81	0.08
Sub Total (C)	3305	2903	2935	2620	65.36	2723	65.28	0.08	
D. NJPC	Natpaa Jhakri	1500	1566	1577	1594	36.47	1519	37.15	-0.69
	Sub Total (D)	1500	1566	1577	1594	36.47	1519	37.15	-0.69
E. THDC	Tehri HPS	1000	780	787	789	17.40	725	17.50	-0.10
	Sub Total (E)	1400	1115	1087	1078	24.20	1008	24.45	-0.25
F. BBMB	Bhakra HPS	1480	1181	1259	1102	28.50	1188	28.35	0.15
	Dehar HPS	990	603	825	620	14.93	622	14.48	0.45
	Pong HPS	396	92	186	123	2.38	99	2.20	0.18
	Sub Total (F)	2866	1876	2270	1845	45.81	1909	45.03	0.78
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	230	5.49	229	5.29	0.20
	KWHEP HPS(IPP)	1000	0	1203	1160	26.28	1095	28.48	-2.21
	Malana Stg-II HPS	100	0	111	111	2.46	102	2.11	0.35
	Shree Cement TPS	300	0	259	262	6.28	262	6.37	-0.09
	Budhil HPS(IPP)	70	0	70	70	1.65	69	1.46	0.20
Sub Total (G)	1662	0	1873	1833	42.16	1757	43.71	-1.55	
H. Total Regional Entities (A-G)	22836	18025	18869	17992	415.43	17310	420.42	-5.00	

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	1250	28.04	1168	
	Guru Nanak Dev TPS(Bhatinda)	440	200	190	4.30	179	
	Guru Hargobind Singh TPS(L.mbt)	920	927	932	20.46	852	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2387	2372	52.80	2200	
	Total Hydro	1148	555	913	18.48	770	
	Total Punjab	3768	2942	3285	71.28	2970	
Haryana	Panipat TPS	1367	710	716	17.13	714	
	DCRTPP (Yamuna nagar)	600	281	279	6.60	275	
	Faridabad GPS (NTPC)	432	164	162	4.25	177	
	RGTPP (khedar) (IPP)	1200	838	993	22.91	955	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	378	380	10.80	450	
	Thermal (Total)	4944	2371	2530	61.69	2570	
	Total Hydro	62	16	21	0.43	18	
		Total Haryana	5006	2387	2551	62.12	2588
Rajasthan	kota TPS	1240	780	779	18.10	754	
	suratgarh TPS	1500	1066	1088	24.94	1039	
	Chabra TPS	500	218	203	4.98	207	
	Dholpur GPS	330	136	117	3.08	128	
	Ramgarh GPS	111	65	66	1.65	69	
	RAPS A (NPC)	300	179	179	4.28	178	
	Barsingar (NLC)	250	187	188	4.40	183	
	Giral LTPS	250	0	0	0.00	0	
	Rajwest LTPS (IPP)	1080	663	581	15.93	664	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Kalisindh Thermal	600	0	0	0.00	0	
	Kawai(Adani)	660	63	0	6.27	261	
	Thermal (Total)	6956	3357	3201	63.62	3484	
	Total Hydro	550	0	0	0.00	0	
	Wind power	2191	681	801	17.55	731	
	Biomass	91	26	26	0.62	26	
	Solar	201	0	0	1.91	79	
	Renewable/Others (Total)	2483	707	827	20.08	836	
		Total Rajasthan	9989	4064	4028	103.70	4321
UP	Anpara TPS	1630	1323	1317	28.60	1192	
	Obra TPS	1288	342	354	7.50	313	
	Paricha TPS	1140	692	678	15.00	625	
	Panki TPS	210	70	55	1.30	54	
	Harduaganj TPS	665	391	383	8.20	342	
	Tanda TPS (NTPC)	440	296	295	7.30	304	
	Roza TPS (IPP)	1200	999	1008	12.43	518	
	Anpara-C (IPP)	1200	457	421	10.52	438	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	398	398	8.15	340	
	Thermal (Total)	8223	4968	4909	98.99	4125	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	107	173	2.95	123	
	Cogeneration	981	150	150	3.60	150	
		Total UP	10131	5225	5232	105.54	4398
	Uttarakhand	Total Hydro	1303	431	510	10.58	441
Total Uttarakhand		1303	431	510	10.58	441	
Delhi	Rajghat TPS	135	86	85	2.00	83	
	Delhi Gas Turbine	282	186	189	4.60	192	
	Pragati Gas Turbine	330	261	264	6.30	262	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	191	223	5.67	236	
	Badarpur TPS (NTPC)	705	610	580	12.89	537	
	Thermal (Total)	2232	1334	1341	31.46	1311	
	Total Delhi	2232	1334	1341	31.46	1311	
HP	Baspa HPS (IPP)	330	332	302	7.64	318	
	Malana HPS (IPP)	86	75	94	1.90	79	
	Other Hydro	589	587	593	13.71	571	
		Total HP	1005	994	989	23.25	969
J & K	Baglihar HPS (IPP)	450	471	432	10.44	435	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	581	560	13.40	558
Total State Control Area Generation		34390	17958	18496	421.32	17555	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4516	5419	112.00	4666	
Total Regional Availability(Gross)		57226	41343	41907	948.74	39531	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9413	8638	206.05	8586
State Control Area Hydro	5368	2684	3166	69.09	2879
Total Regional Hydro	15731	12097	11804	275.14	11464

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	400	500	500	0	10.62	0.00	10.62
Gwalior-Agra (D/C)	1432	1819	2136	0	34.28	0.00	34.28
Zerda-Kankroli	-79	28	76	277	0.00	2.15	-2.15
Zerda-Bhinmal	-67	38	158	290	0.00	1.57	-1.57
Malanpur-Auraiya	-86	-15	0	115	0.00	1.37	-1.37
Badod-Kota/Morak	9	58	102	87	0.11	0.34	-0.23
Mundra-Mohindergarh(HVDC)	1174	1000	1174	0	25.61	0.00	25.61
Sub Total WR	2783	3428			70.62	5.43	65.19
Pusauli Bypass	-215	-243	0	332	0.00	5.15	-5.15
MZP- GKP (D/C)	640	734	872	0	17.84	0.00	17.84
Patna-Balia(D/C)	581	707	852	0	14.71	0.00	14.71
B'Sharif-Balia (D/C)	282	460	516	0	8.66	0.00	8.66
Pusauli-Balia	1	73	88	12	0.57	0.00	0.57
Gaya-Fatehpur (765 Kv)	77	-15	160	15	1.67	0.00	1.67
Pusauli-Sahupuri	126	170	171	0	3.49	0.00	3.49
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)	279	145	337	0	5.93	0.00	5.93
Sub Total ER	1733	1991			52.85	6.04	46.81
Total IR Exch	4516	5419			123.47	11.47	112.00

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
40.35	3.68	44.03	7.28	19.67	0.53	12.07	0.78	-0.78

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	Total
52.62	74.21	126.83	46.81	65.19	112.00	-5.82	-9.02	-14.84

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	0.00	0.00	0.60	72.30	1.80	71.70	79.80	27.70

<----- 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					
50.39	7.06	49.62	19.52	50.11	0.29	0.13	50.43	49.82

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	414	06:50	400	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	425	07:27	401	23:12	0.0	0.0	11.8	0.0
Bareilly	400	414	19:02	399	12:08	0.0	0.0	0.0	0.0
Kanpur	400	424	07:02	401	12:07	0.0	0.0	7.3	0.0
Dadri	400	414	06:04	394	12:10	0.0	0.0	0.0	0.0
Ballabgarh	400	422	06:07	400	12:04	0.0	0.0	4.0	0.0
Bawana	400	414	06:03	397	12:05	0.0	0.0	0.0	0.0
Bassi	400	425	04:04	397	12:10	0.0	0.0	12.8	0.0
Hissar	400	402	07:01	385	12:10	0.0	3.7	0.0	0.0
Moga	400	411	08:05	395	12:08	0.0	0.0	0.0	0.0
Abdullapur	400	409	04:04	397	12:08	0.0	0.0	0.0	0.0
Nalagarh	400	408	03:58	394	12:06	0.0	0.0	0.0	0.0
Kishenpur	400	411	03:32	401	12:04	0.0	0.0	0.0	0.0
Wagoora	400	412	03:41	399	20:31	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	792	07:02	745	23:09	0.0	0.0	0.0	0.0
Balia	765	770	07:03	721	23:10	2.2	41.7	0.0	0.0
Moga	765	785	08:04	753	12:10	0.0	0.0	0.0	0.0
Agra	765	806	06:42	758	12:08	0.0	0.0	3.6	0.0
Bhiwani	765	784	06:43	748	12:08	0.0	0.0	0.0	0.0
Unnao	765	778	07:06	740	23:10	0.0	0.2	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 (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	488.16	680.71	467.21	226.00	1770.62	943.49
Pong	426.72	384.05	402.72	281.22	395.03	126.34	769.20	163.59
Tehri	829.79	740.04	778.40	300.00	818.65	982.26	645.07	482.00
Koteswar	612.50	598.50	610.60	4.95	604.15	2.06	482.00	451.00
Chamera-I	760.00	748.75	758.42	NA	NA	NA	407.83	352.20
Rihand	268.22	252.98	254.75	66.60	254.51	57.30	NA	NA
RPS	352.80	343.81	348.56	NA	NA	NA	NA	18.58
Jawahar Sagar	298.70	295.78	304.07	NA	NA	NA	NA	17.92
RSD	527.91	487.91	513.10	NA	499.28	NA	285.89	415.83

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 25.06.2013 :

1. Hot and humid 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. Dhautiganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Tanakpur (120 MW) closed down due to high silt level in river water.
3. Vishnuprayag(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 25.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER