

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 18.07.2013
Date of Reporting : 19.07.2013

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
41666	2553	44219	50.07	39796	1840	41636	50.12	966.6	57.11

* 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:

UI [OD:(+ve), UD:(-ve)]

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	50.77	16.82		67.59	125.55	125.56	0.01	193.15	18.66
Haryana	63.37	0.56		63.93	109.31	109.28	-0.03	173.20	0.00
Rajasthan	76.37	0.45	26.10	102.92	51.04	43.96	-7.09	146.87	0.38
Delhi	20.91			20.91	84.07	83.10	-0.97	104.00	0.56
UP	124.52	4.51	1.20	130.24	127.07	123.50	-3.57	253.74	33.64
Uttarakhand		14.61		14.61	18.34	18.51	0.17	33.12	2.18
HP		23.84		23.84	1.37	1.73	0.37	25.57	0.00
J & K		13.91	0.00	13.91	18.09	17.31	-0.77	31.23	1.70
Chandigarh				0.00	5.96	5.74	-0.22	5.74	0.00
Total	335.94	74.69	27.30	437.93	540.80	528.69	-12.11	966.62	57.11

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

UI/OA/PX IOD/Import: (+ve), UD/Export: (-ve)

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	8522	615	-26	1904	7892	600	-36	1912	45.82
Haryana	7711	0	-215	1648	7110	0	-36	1069	34.12
Rajasthan	6118	0	-323	-108	5809	0	-482	-77	-2.40
Delhi	4504	48	121	256	3934	0	-166	-25	4.93
UP	10405	1680	-316	987	11285	1160	63	1821	23.19
Uttarakhand	1577	110	79	252	1370	80	3	117	4.23
HP	994	0	-54	-1123	905	0	-18	-1181	-25.61
J&K	1573	100	-48	-148	1275	0	-121	-141	-7.68
Chandigarh	262	0	-8	0	215	0	-13	0	0.12
Total	41666	2553	-790	3667	39796	1840	-806	3495	76.73

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

III. Regional Entities :

UI [OG:(+ve), UG:(-ve)]

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	Net MU
A. NTPC	Singrauli STPS	2000	1735	1866	1870	41.33	1722	41.23	0.10
	Rihand I STPS	1000	915	863	862	20.85	869	21.29	-0.44
	Rihand II STPS	1000	807	936	504	17.98	749	18.51	-0.53
	Rihand III STPS	500	480	507	408	10.51	438	10.86	-0.35
	Dadri I STPS	840	810	826	674	16.78	699	17.35	-0.57
	Dadri II STPS	980	970	923	684	20.02	834	20.69	-0.67
	Unchahar I TPS	420	399	370	389	8.51	355	8.81	-0.30
	Unchahar II TPS	420	403	314	325	7.94	331	8.08	-0.14
	Unchahar III TPS	210	201	167	154	3.66	152	3.81	-0.15
	ISTPP (Jhajjar)	1500	1450	654	679	14.69	612	15.16	-0.47
	Dadri GPS	830	781	279	392	9.03	376	9.72	-0.69
	Anta GPS	419	399	387	394	9.11	379	9.22	-0.12
	Auraiva GPS	663	606	306	306	7.15	298	7.18	-0.03
	Sub Total (A)	10782	9955	8398	7641	187.55	7814	191.91	-4.36
B. NPC	NAPS	440	156	176	178	3.68	153	3.74	-0.06
	RAPS- B	440	391	434	438	9.35	390	9.38	-0.03
	RAPS- C	440	210	232	237	4.92	205	5.04	-0.12
	Sub Total (B)	1320	757	842	853	17.95	748	18.17	-0.21
C. NHPC	Chamera I HPS	540	534	540	540	10.56	440	10.79	-0.23
	Chamera II HPS	300	300	303	302	7.23	301	7.20	0.03
	Chamera III HPS	231	218	227	220	5.08	212	5.06	0.02
	Bairasul HPS	180	179	179	60	1.75	73	1.76	-0.01
	Salal-HPS	690	650	667	658	15.61	651	15.59	0.02
	Tanakpur-HPS	94	58	64	61	1.41	59	1.39	0.02
	Uri-HPS	480	386	404	368	9.17	382	9.30	-0.13
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	408	399	9.39	391	9.41	-0.02
	Sewa-II HPS	120	119	35	0	0.52	22	0.53	0.00
Sub Total (C)	3305	2830	2827	2608	60.73	2530	61.02	-0.30	
D. NJPC	Nathpa Jhakri	1500	1605	1623	1624	38.70	1612	38.48	0.22
	Sub Total (D)	1500	1605	1623	1624	38.70	1612	38.48	0.22
E. THDC	Tehri HPS	1000	910	924	919	20.23	843	19.84	0.39
	Koteswar HPS	400	304	285	270	6.90	288	6.90	0.00
	Sub Total (E)	1400	1214	1209	1189	27.13	1130	26.74	0.39
F. BBMB	Bhakra HPS	1480	1345	1347	1365	32.55	1356	32.27	0.28
	Dehar HPS	990	507	825	600	12.40	517	12.16	0.24
	Pong HPS	396	173	312	66	4.39	183	4.16	0.23
	Sub Total (F)	2866	2025	2484	2031	49.34	2056	48.59	0.75
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	173	4.98	208	4.32	0.66
	KWHEP HPS(IPP)	1000	0	1200	1200	28.50	1187	28.51	-0.01
	Malana Stg-II HPS	100	0	113	113	2.72	113	2.50	0.22
	Shree Cement TPS	300	0	174	203	4.17	174	4.06	0.11
	Budhil HPS(IPP)	70	0	69	69	1.65	69	1.64	0.01
	Sub Total (G)	1662	0	1786	1758	42.02	1751	41.03	0.99
H. Total Regional Entities (A-G)	22836	18386	19169	17704	423.41	17642	425.94	-2.53	

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	1060	26.48	1103	
	Guru Nanak Dev TPS(Bhatinda)	440	190	180	4.05	169	
	Guru Hargobind Singh TPS(L.mbt)	920	951	837	20.24	844	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2401	2077	50.77	2115	
	Total Hydro	1148	878	632	16.82	701	
	Total Punjab	3768	3279	2709	67.59	2816	
Haryana	Panipat TPS	1367	379	389	9.29	387	
	DCRTPP (Yamuna nagar)	600	254	260	6.10	254	
	Faridabad GPS (NTPC)	432	304	304	7.58	316	
	RGTPP (khedar) (IPP)	1200	794	785	18.80	783	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	992	987	21.60	900	
	Thermal (Total)	4944	2723	2725	63.37	2640	
	Total Hydro	62	25	16	0.56	23	
	Total Haryana	5006	2748	2741	63.93	2664	
	Rajasthan	kota TPS	1240	799	798	18.59	775
suratgarh TPS		1500	768	836	17.93	747	
Chabra TPS		500	190	0	2.83	118	
Dholpur GPS		330	118	118	2.77	115	
Ramgarh GPS		111	49	66	1.55	64	
RAPS A (NPC)		300	176	176	4.21	175	
Barsingar (NLC)		250	151	182	3.96	165	
Giral LTPS		250	62	48	0.98	41	
Rajwest LTPS (IPP)		1080	467	574	11.23	468	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	498	482	12.33	514	
Thermal (Total)		6956	3278	3280	76.37	3182	
Total Hydro		550	28	0	0.45	19	
Wind power		2191	1100	1055	23.62	984	
Biomass		91	29	29	0.69	29	
Solar		201	0	0	1.79	75	
Renewable/Others (Total)		2483	1129	1084	26.10	1087	
Total Rajasthan		9989	4435	4364	102.92	4288	
UP		Anpara TPS	1630	1315	1315	28.20	1175
	Obra TPS	1288	490	486	11.00	458	
	Paricha TPS	1140	441	646	13.50	563	
	Panki TPS	210	130	125	2.70	113	
	Harduaganj TPS	665	377	420	8.40	350	
	Tanda TPS (NTPC)	440	394	400	9.70	404	
	Roza TPS (IPP)	1200	995	972	24.08	1003	
	Anpara-C (IPP)	1200	804	761	18.63	776	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	290	8.30	346	
	Thermal (Total)	8223	5311	5415	124.52	5188	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	199	210	4.51	188	
	Cogeneration	981	50	50	1.20	50	
	Total UP	10131	5560	5675	130.24	5426	
	Uttarakhand	Total Hydro	1303	705	494	14.61	609
		Total Uttarakhand	1303	705	494	14.61	609
Delhi	Rajghat TPS	135	39	10	1.04	43	
	Delhi Gas Turbine	282	80	82	2.17	90	
	Pragati Gas Turbine	330	290	296	7.19	300	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	455	510	10.51	438	
	Thermal (Total)	2232	864	898	20.91	871	
	Total Delhi	2232	864	898	20.91	871	
HP	Baspa HPS (IPP)	330	331	331	7.83	326	
	Malana HPS (IPP)	86	106	96	2.36	98	
	Other Hydro	589	570	588	13.65	569	
	Total HP	1005	1007	1015	23.84	993	
J & K	Baglihar HPS (IPP)	450	436	440	10.57	440	
	Other Hydro	323	140	139	3.34	139	
	Gas/Diesel/Others	183	0	0	0.00	0	
	Total J & K	956	576	579	13.91	580	
Total State Control Area Generation		34390	19174	18475	437.93	18247	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5562	4272	109.55	4565	
Total Regional Availability(Gross)		57226	43905	40451	970.89	40454	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9686	8938	212.09	8837
State Control Area Hydro	5368	3418	2946	74.69	3112
Total Regional Hydro	15731	13104	11884	286.78	11949

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	9.17	0.00	9.17
Gwalior-Agra (D/C)	1733	1394	1941	0	35.46	0.00	35.46
Zerda-Kankroli	37	-136	12	180	0.00	2.03	-2.03
Zerda-Bhinmal	30	-158	118	221	0.00	1.97	-1.97
Malanpur-Auraiya	-44	-53	0	89	0.00	1.11	-1.11
Badod-Kota/Morak	-30	-18	23	74	0.00	0.25	-0.25
Mundra-Mohindergarh(HVDC)	1449	1449	1451	0	30.10	0.00	30.10
Sub Total WR	3675	2978			74.73	5.36	69.37
Pusauli Bypass	-258	-302	0	331	0.00	6.29	-6.29
MZP- GKP (D/C)	688	484	716	0	13.31	0.00	13.31
Patna-Balia(D/C)	544	473	726	0	13.06	0.00	13.06
B Sharif-Balia (D/C)	362	234	500	0	8.12	0.00	8.12
Pusauli-Balia	-1	-20	91	30	0.23	0.00	0.23
Gaya-Fatehpur (765 Kv)	110	39	143	0	1.84	0.00	1.84
Pusauli-Sahupuri	198	208	208	0	4.74	0.00	4.74
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)	282	218	329	0	6.06	0.00	6.06
Sub Total ER	1887	1294			47.36	7.19	40.18
Total IR Exch	5562	4272			122.09	12.55	109.55

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
35.63	3.85	39.48	6.12	43.11	0.33	-8.57	2.49	-2.49

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
48.42	83.84	132.26	40.18	69.37	109.55	-8.25	-14.47	-22.71

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	0.00	86.70	0.40	86.70	79.00	13.30

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					
50.41	10.06	49.73	19.34	50.08	0.19	0.11	50.37	49.91

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	406	07:37	394	14:09	0.0	0.0	0.0	0.0
Gorakhpur	400	422	08:27	410	05:44	0.0	0.0	13.7	0.0
Bareilly	400	419	06:06	393	14:30	0.0	0.0	0.0	0.0
Kanpur	400	420	06:07	398	14:24	0.0	0.0	0.0	0.0
Dadri	400	417	06:14	390	14:27	0.0	0.0	0.0	0.0
Ballabgarh	400	425	06:16	396	14:28	0.0	0.0	9.9	0.0
Bawana	400	418	06:16	393	14:29	0.0	0.0	0.0	0.0
Bassi	400	426	06:03	400	14:27	0.0	0.0	16.5	0.0
Hissar	400	410	06:04	387	14:26	0.0	3.1	0.0	0.0
Moga	400	418	06:06	398	14:26	0.0	0.0	0.0	0.0
Abdullapur	400	414	06:04	397	14:26	0.0	0.0	0.0	0.0
Nalagarh	400	413	04:02	398	14:28	0.0	0.0	0.0	0.0
Kishenpur	400	420	06:07	404	14:17	0.0	0.0	0.0	0.0
Wagoora	400	417	06:12	394	20:32	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	767	18:07	726	14:28	1.2	27.6	0.0	0.0
Balia	765	776	08:02	736	13:39	0.0	8.8	0.0	0.0
Moga	765	799	06:05	758	14:28	0.0	0.0	0.0	0.0
Agra	765	806	06:10	756	14:28	0.0	0.0	3.0	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	773	18:08	734	14:29	0.0	6.1	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	498.99	1053.16	473.02	319.15	1493.57	1042.85
Pong	426.72	384.05	409.63	484.26	393.67	102.14	961.00	282.26
Tehri	829.79	740.04	793.80	513.00	818.65	982.26	910.51	546.00
Koteshwar	612.50	598.50	608.90	3.93	NA	NA	549.00	518.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	283.29	258.66
Rihand	268.22	252.98	254.69	64.30	254.08	40.90	NA	NA
RPS	352.80	343.81	349.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.59	150.00	501.49	144.00	281.02	343.03

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 18.07.2013 :

1.Hot & 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. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.
3. MANERI BHALI STG-1(90MW)/Utrakhand closed down due to flush flooding.

Report for : 18.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER