

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 17.07.2013
Date of Reporting : 18.07.2013

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
41353	3150	44503	50.09	40469	1760	42229	50.10	966.2	65.57

* 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	51.08	17.31		68.39	125.39	126.05	0.65	194.43	18.85
Haryana	70.00	0.50		70.51	102.57	101.07	-1.50	171.58	0.00
Rajasthan	87.04	0.05	15.35	102.43	52.14	49.61	-2.53	152.04	0.00
Delhi	22.54			22.54	82.99	81.35	-1.64	103.89	0.05
UP	119.95	4.46	1.20	125.62	124.96	123.22	-1.74	248.84	42.50
Uttarakhand		16.57		16.57	16.60	16.88	0.28	33.45	2.45
HP		23.97		23.97	1.31	0.93	-0.38	24.91	0.01
J & K		13.91	0.00	13.91	17.92	17.22	-0.70	31.13	1.70
Chandigarh				0.00	5.95	5.96	0.01	5.96	0.00
Total	350.61	76.77	16.55	443.93	529.82	522.28	-7.54	966.21	65.57

* 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	8616	615	107	1921	8013	600	47	1922	46.02	
Haryana	7520	0	-185	1530	7340	0	202	1047	33.61	
Rajasthan	6062	0	-158	-99	6485	0	21	-78	-3.43	
Delhi	4584	0	67	341	3906	0	-120	-36	6.06	
UP	10310	2150	22	1036	10769	1160	-407	1761	22.28	
Uttarakhand	1458	285	106	204	1470	0	33	127	4.03	
HP	1009	0	-29	-1123	917	0	-5	-1181	-25.67	
J&K	1525	100	-42	-148	1357	0	-20	-143	-8.30	
Chandigarh	267	0	-7	0	213	0	-14	-10	0.00	
Total	41353	3150	-118	3661	40469	1760	-263	3409	74.60	

* 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	1860	1875	41.46	1728	41.64	-0.18
	Rihand I STPS	1000	915	997	975	21.45	894	21.56	-0.12
	Rihand II STPS	1000	676	515	930	14.38	599	15.59	-1.21
	Rihand III STPS	500	475	505	440	10.96	457	11.12	-0.16
	Dadri I STPS	840	810	882	600	16.56	690	16.79	-0.23
	Dadri II STPS	980	970	961	753	20.16	840	20.67	-0.52
	Unchahar I TPS	420	399	375	379	8.57	357	8.84	-0.27
	Unchahar II TPS	420	403	355	353	8.08	337	8.08	-0.01
	Unchahar III TPS	210	201	164	168	3.89	162	3.92	-0.03
	ISTPP (Jhajjar)	1500	1440	673	663	15.38	641	15.77	-0.39
	Dadri GPS	830	781	388	390	9.07	378	9.50	-0.43
	Anta GPS	419	396	297	256	6.46	269	6.51	-0.04
	Auraiya GPS	663	606	302	309	7.09	296	7.18	-0.09
	Sub Total (A)	10782	9806	8274	8091	183.50	7646	187.16	-3.66
B. NPC	INAPS	440	156	181	182	3.77	157	3.74	0.02
	RAPS- B	440	391	433	436	9.34	389	9.38	-0.05
	RAPS- C	440	210	230	235	4.90	204	5.04	-0.14
	Sub Total (B)	1320	757	844	853	18.01	750	18.17	-0.16
C. NHPC	Chamera I HPS	540	534	540	360	11.21	467	11.23	-0.02
	Chamera II HPS	300	300	304	302	7.22	301	7.23	-0.01
	Chamera III HPS	231	231	215	228	5.39	225	5.52	-0.13
	Bairasuil HPS	180	179	179	20	1.88	78	1.83	0.05
	Salal-HPS	690	656	659	652	15.68	653	15.75	-0.07
	Tanakpur-HPS	94	34	54	55	0.77	32	0.83	-0.06
	Uri-HPS	480	409	439	441	9.67	403	9.70	-0.04
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	378	9.38	391	9.34	0.05
	Sewa-II HPS	120	119	40	0	0.57	24	0.60	-0.03
	Sub Total (C)	3305	2850	2834	2436	61.77	2574	62.03	-0.27
D. NJPC	Natpha Jhakri	1500	1605	1625	1623	38.71	1613	38.42	0.28
	Sub Total (D)	1500	1605	1625	1623	38.71	1613	38.42	0.28
E. THDC	Tehri HPS	1000	896	922	913	21.56	898	21.50	0.06
	Koteswar HPS	400	380	384	271	8.22	342	8.20	0.02
	Sub Total (E)	1400	1276	1306	1184	29.77	1240	29.70	0.07
F. BBMB	Bhakra HPS	1480	1347	1356	1363	32.74	1364	32.33	0.41
	Dehar HPS	990	607	825	600	14.96	623	14.57	0.39
	Pong HPS	396	174	312	0	4.43	185	4.19	0.24
	Sub Total (F)	2866	2129	2493	1963	52.13	2172	51.08	1.05
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	203	4.66	194	4.81	-0.15
	KWHEP HPS(IPP)	1000	0	1197	1195	28.53	1189	28.51	0.02
	Malana Stg-II HPS	100	0	112	112	1.67	70	1.56	0.11
	Shree Cement TPS	300	0	181	205	4.29	179	4.06	0.24
	Budhil HPS(IPP)	70	0	69	69	1.65	69	1.66	-0.01
	Sub Total (G)	1662	0	1789	1784	40.81	1700	40.60	0.21
H. Total Regional Entities (A-G)	22836	18422	19165	17934	424.69	17696	427.18	-2.48	

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	26.37	1099	
	Guru Nanak Dev TPS(Bhatinda)	440	195	180	4.14	173	
	Guru Hargobind Singh TPS(L.mbt)	920	932	937	20.57	857	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2387	2177	51.08	2128	
	Total Hydro	1148	845	634	17.31	721	
	Total Punjab	3768	3232	2811	68.39	2849	
Haryana	Panipat TPS	1367	407	400	9.48	395	
	DCRTPP (Yamuna nagar)	600	278	263	6.16	256	
	Faridabad GPS (NTPC)	432	355	300	8.15	339	
	RGTPP (khedar) (IPP)	1200	982	1080	22.96	957	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	696	1114	23.27	970	
	Thermal (Total)	4944	2718	3157	70.00	2917	
	Total Hydro	62	21	17	0.50	21	
		Total Haryana	5006	2739	3174	70.51	2938
	Rajasthan	kota TPS	1240	817	861	20.19	841
suratgarh TPS		1500	768	820	18.76	782	
Chabra TPS		500	193	201	4.92	205	
Dholpur GPS		330	118	118	2.74	114	
Ramgarh GPS		111	64	62	1.61	67	
RAPS A (NPC)		300	176	176	4.26	177	
Barsingar (NLC)		250	182	181	4.25	177	
Giral LTPS		250	48	62	1.27	53	
Rajwest LTPS (IPP)		1080	574	574	14.47	603	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	608	607	14.58	608	
Thermal (Total)		6956	3548	3662	87.04	3627	
Total Hydro		550	0	0	0.05	2	
Wind power		2191	535	747	13.20	550	
Biomass		91	32	32	0.77	32	
Solar		201	0	0	1.38	57	
Renewable/Others (Total)		2483	567	779	15.35	640	
		Total Rajasthan	9989	4115	4441	102.43	4268
UP		Anpara TPS	1630	1328	1238	28.00	1167
	Obra TPS	1288	482	438	10.10	421	
	Paricha TPS	1140	502	633	11.10	463	
	Panki TPS	210	75	80	2.10	88	
	Harduaganj TPS	665	371	396	8.30	346	
	Tanda TPS (NTPC)	440	393	399	9.66	403	
	Roza TPS (IPP)	1200	1017	937	24.08	1003	
	Anpara-C (IPP)	1200	815	768	19.04	794	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	342	283	7.57	315	
	Thermal (Total)	8223	5325	5172	119.95	4998	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	210	202	4.46	186	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5585	5424	125.62	5234
	Uttarakhand	Total Hydro	1303	632	788	16.57	690
		Total Uttarakhand	1303	632	788	16.57	690
Delhi	Rajghat TPS	135	39	37	1.03	43	
	Delhi Gas Turbine	282	82	186	3.05	127	
	Pragati Gas Turbine	330	293	260	7.02	293	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	530	515	11.44	476	
	Thermal (Total)	2232	944	998	22.54	939	
		Total Delhi	2232	944	998	22.54	939
HP	Baspa HPS (IPP)	330	333	333	7.76	323	
	Malana HPS (IPP)	86	102	100	2.27	95	
	Other Hydro	589	578	586	13.94	581	
		Total HP	1005	1013	1019	23.97	999
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	18836	19234	443.93	18497	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4858	4354	103.43	4310	
Total Regional Availability(Gross)		57226	42859	41522	972.05	40502	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9797	8716	217.24	9052
State Control Area Hydro	5368	3297	3239	76.77	3199
Total Regional Hydro	15731	13094	11955	294.01	12250

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	10.52	0.00	10.52
Gwalior-Agra (D/C)	1670	1421	2033	0	33.73	0.00	33.73
Zerda-Kankroli	84	-59	147	176	0.00	1.43	-1.43
Zerda-Bhinmal	90	-54	167	146	0.00	0.82	-0.82
Malanpur-Auraiya	-42	-45	0	84	0.00	1.15	-1.15
Badod-Kota/Morak	-23	-9	0	59	0.00	0.46	-0.46
Mundra-Mohindergarh(HVDC)	993	996	1340	0	22.08	0.00	22.08
Sub Total WR	3272	2750			66.33	3.86	62.47
Pusauli Bypass	-271	-226	0	336	0.00	6.01	-6.01
MZP- GKP (D/C)	486	676	742	0	14.32	0.00	14.32
Patna-Balia(D/C)	559	435	861	0	12.94	0.00	12.94
B Sharif-Balia (D/C)	303	269	484	0	7.82	0.00	7.82
Pusauli-Balia	-11	-31	84	36	0.10	0.00	0.09
Gaya-Fatehpur (765 Kv)	95	80	134	0	2.04	0.00	2.04
Pusauli-Sahupuri	188	196	212	0	4.68	0.00	4.68
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)	275	245	324	0	5.98	0.00	5.98
Sub Total ER	1586	1604			47.87	6.91	40.96
Total IR Exch	4858	4354			114.20	10.77	103.43

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
36.82	3.85	40.67	7.49	42.95	-0.40	-11.57	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
50.25	69.58	119.84	40.96	62.47	103.43	-9.29	-7.11	-16.41

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	0.30	91.30	1.30	91.00	62.30	8.70

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					
50.37	21.51	49.61	19.07	50.04	0.15	0.12	50.31	49.87

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	404	18:29	396	09:56	0.0	0.0	0.0	0.0
Gorakhpur	400	423	18:42	403	00:00	0.0	0.0	5.3	0.0
Bareilly	400	416	17:03	399	11:36	0.0	0.0	0.0	0.0
Kanpur	400	416	18:17	401	10:41	0.0	0.0	0.0	0.0
Dadri	400	412	06:05	398	11:37	0.0	0.0	0.0	0.0
Ballabgarh	400	421	06:04	405	11:40	0.0	0.0	0.2	0.0
Bawana	400	414	06:02	402	11:37	0.0	0.0	0.0	0.0
Bassi	400	422	04:01	406	19:48	0.0	0.0	5.1	0.0
Hissar	400	407	17:02	395	19:46	0.0	0.0	0.0	0.0
Moga	400	414	08:01	402	11:37	0.0	0.0	0.0	0.0
Abdullapur	400	414	18:04	402	19:48	0.0	0.0	0.0	0.0
Nalagarh	400	411	18:50	402	11:40	0.0	0.0	0.0	0.0
Kishenpur	400	416	04:36	407	19:33	0.0	0.0	0.0	0.0
Wagoora	400	415	06:02	397	20:37	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	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Balia	765	775	06:06	738	10:47	0.0	2.6	0.0	0.0
Moga	765	791	08:01	768	11:41	0.0	0.0	0.0	0.0
Agra	765	800	17:02	765	11:41	0.0	0.0	0.0	0.0
Bhiwani	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Unnao	765	767	17:05	738	10:43	0.0	2.6	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 17.07.2013 :

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 : 17.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER