

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 10.07.2013
Date of Reporting : 11.07.2013

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
37776	2498	40274	50.05	35118	0	35118	50.26	866.5	28.62

* 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	42.32	17.52		59.84	104.97	104.77	-0.20	164.61	0.00
Haryana	43.99	0.57		44.56	98.61	97.79	-0.82	142.35	0.00
Rajasthan	71.32	0.35	21.31	92.98	52.39	51.86	-0.52	144.84	1.65
Delhi	24.26			24.26	71.94	68.75	-3.19	93.01	0.00
UP	111.67	3.55	2.40	117.61	115.38	115.00	-0.37	232.62	23.08
Uttarakhand		11.65		11.65	20.22	20.96	0.75	32.61	2.19
HP		23.41		23.41	1.44	-0.07	-1.51	23.34	0.00
J & K		13.77	0.00	13.77	16.75	13.93	-2.82	27.70	1.70
Chandigarh				0.00	6.05	5.44	-0.61	5.44	0.00
Total	293.55	70.82	23.71	388.08	487.74	478.44	-9.30	866.52	28.62

* 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	7518	0	55	1819	6505	0	-87	1796	44.04
Haryana	6677	0	-7	1688	5074	0	-365	1284	33.42
Rajasthan	6001	123	-136	-111	6022	0	21	-455	-7.98
Delhi	4124	0	23	122	3363	0	-148	-189	0.77
UP	9285	2050	-162	524	10906	0	408	1117	17.94
Uttarakhand	1502	225	96	343	1322	0	-21	305	7.47
HP	910	0	-90	-1133	894	0	-30	-1186	-25.46
J&K	1508	100	160	-253	851	0	-254	-354	-6.57
Chandigarh	251	0	-13	0	181	0	-63	0	0.00
Total	37776	2498	-74	3000	35118	0	-539	2319	63.64

* 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	UI Net MU
A. NTPC	Singrauli STPS	2000	1826	1963	1617	38.19	1591	37.93	0.26
	Rihand I STPS	1000	485	482	460	9.81	409	9.79	0.02
	Rihand II STPS	1000	970	981	1019	21.51	896	19.56	1.94
	Rihand III STPS	500	480	506	499	10.51	438	9.81	0.70
	Dadri I STPS	840	810	644	625	14.62	609	14.77	-0.15
	Dadri II STPS	980	968	932	690	18.00	750	18.54	-0.53
	Unchahar I TPS	420	396	369	307	7.15	298	7.74	-0.59
	Unchahar II TPS	420	401	400	299	7.02	292	7.23	-0.21
	Unchahar III TPS	210	200	208	152	3.63	151	3.73	-0.10
	ISTPP (Jhajjar)	1500	1410	661	641	13.94	581	14.21	-0.27
	Dadri GPS	830	796	384	380	8.96	373	9.50	-0.54
	Anta GPS	419	400	256	242	5.91	246	6.05	-0.14
	Auraiva GPS	663	610	301	310	7.12	297	7.25	-0.13
	Sub Total (A)	10782	9750	8087	7241	166.36	6932	166.10	0.26
B. NPC	NAPS	440	153	182	182	3.78	158	3.67	0.11
	RAPS- B	440	380	433	439	9.35	389	9.12	0.23
	RAPS- C	440	210	235	235	4.93	206	5.04	-0.11
	Sub Total (B)	1320	743	850	856	18.06	753	17.83	0.23
C. NHPC	Chamera I HPS	540	540	540	540	12.98	541	12.96	0.02
	Chamera II HPS	300	300	303	304	7.22	301	7.26	-0.05
	Chamera III HPS	231	231	230	233	5.41	225	5.51	-0.11
	Bairasuil HPS	180	179	180	30	2.00	83	2.03	-0.02
	Salal-HPS	690	656	659	659	15.76	657	15.75	0.01
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	450	452	444	10.68	445	10.53	0.15
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	411	404	9.41	392	9.39	0.01
	Sewa-II HPS	120	119	40	0	0.68	28	0.69	-0.01
	Sub Total (C)	3305	2862	2815	2614	64.13	2672	64.12	0.01
D. NJPC	Nathpa Jhakri	1500	1605	1616	1620	38.60	1608	38.51	0.10
	Sub Total (D)	1500	1605	1616	1620	38.60	1608	38.51	0.10
E. THDC	Tehri HPS	1000	860	868	864	20.76	865	20.60	0.16
	Koteshwar HPS	400	377	384	258	8.07	336	8.10	-0.03
	Sub Total (E)	1400	1237	1252	1122	28.83	1201	28.70	0.13
F. BBMB	Bhakra HPS	1480	1347	1351	1349	32.48	1353	32.33	0.15
	Dehar HPS	990	603	825	580	14.77	615	14.46	0.31
	Pong HPS	396	172	252	66	4.35	181	4.13	0.23
	Sub Total (F)	2866	2121	2428	1995	51.60	2150	50.91	0.69
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	204	201	4.04	168	4.80	-0.76
	KWHEP HPS(IPP)	1000	0	1199	1198	28.44	1185	28.51	-0.07
	Malana Stg-II HPS	100	0	104	113	2.64	110	2.52	0.12
	Shree Cement TPS	300	0	237	203	5.43	226	5.57	-0.14
	Budhil HPS(IPP)	70	0	69	70	0.98	41	0.96	0.01
	Sub Total (G)	1662	0	1813	1785	41.53	1730	42.36	-0.84
H. Total Regional Entities (A-G)	22836	18319	18861	17233	409.11	17046	408.54	0.57	

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	850	870	20.13	839	
	Guru Nanak Dev TPS(Bhatinda)	440	180	180	4.12	172	
	Guru Hargobind Singh TPS(L.mbt)	920	869	767	18.07	753	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	1899	1817	42.32	1763	
	Total Hydro	1148	695	743	17.52	730	
	Total Punjab	3768	2594	2560	59.84	2493	
Haryana	Panipat TPS	1367	385	391	9.43	393	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	42	162	3.90	163	
	RGTPP (khedar) (IPP)	1200	458	447	10.95	456	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	969	670	19.70	821	
	Thermal (Total)	4944	1854	1670	43.99	1833	
	Total Hydro	62	21	21	0.57	24	
		Total Haryana	5006	1875	1691	44.56	1857
	Rajasthan	kota TPS	1240	845	610	16.71	696
suratgarh TPS		1500	1055	951	23.10	962	
Chabra TPS		500	352	191	5.77	241	
Dholpur GPS		330	131	64	1.98	82	
Ramgarh GPS		111	32	23	0.84	35	
RAPS A (NPC)		300	176	176	4.23	176	
Barsingar (NLC)		250	0	0	0.00	0	
Giral LTPS		250	53	70	0.96	40	
Rajwest LTPS (IPP)		1080	798	655	17.73	739	
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	3442	2740	71.32	2972	
Total Hydro		550	63	0	0.35	15	
Wind power		2191	351	1131	19.60	817	
Biomass		91	17	17	0.40	17	
Solar		201	0	0	1.30	54	
		Renewable/Others (Total)	2483	368	1148	21.31	888
	Total Rajasthan	9989	3873	3888	92.98	3874	
UP	Anpara TPS	1630	1085	1175	27.10	1129	
	Obra TPS	1288	436	417	10.30	429	
	Paricha TPS	1140	352	726	12.90	538	
	Panki TPS	210	162	149	3.70	154	
	Harduaganj TPS	665	354	366	5.80	242	
	Tanda TPS (NTPC)	440	281	240	6.91	288	
	Roza TPS (IPP)	1200	738	997	19.07	795	
	Anpara-C (IPP)	1200	780	607	17.69	737	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	405	314	8.20	342	
	Thermal (Total)	8223	4593	4991	111.67	4653	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	140	193	3.55	148	
	Cogeneration	981	100	100	2.40	100	
		Total UP	10131	4833	5284	117.61	4901
	Uttarakhand	Total Hydro	1303	522	504	11.65	485
Total Uttarakhand		1303	522	504	11.65	485	
Delhi	Rajghat TPS	135	32	67	0.46	19	
	Delhi Gas Turbine	282	104	111	2.55	106	
	Pragati Gas Turbine	330	294	264	6.60	275	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	223	227	5.43	226	
	Badarpur TPS (NTPC)	705	430	420	9.22	384	
	Thermal (Total)	2232	1083	1089	24.26	1011	
		Total Delhi	2232	1083	1089	24.26	1011
HP	Baspa HPS (IPP)	330	303	333	7.66	319	
	Malana HPS (IPP)	86	104	98	2.37	99	
	Other Hydro	589	578	553	13.38	558	
		Total HP	1005	985	984	23.41	975
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436	
	Other Hydro	323	130	140	3.30	137	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	566	576	13.77	574
Total State Control Area Generation		34390	16331	16576	388.08	16170	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4328	2505	77.58	3233	
Total Regional Availability(Gross)		57226	39520	36314	874.77	36449	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9618	8863	218.29	9095
State Control Area Hydro	5368	2992	3021	70.82	2951
Total Regional Hydro	15731	12610	11884	289.11	12046

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	-250	450	500	1.48	5.76	-4.28
Gwalior-Agra (D/C)	1611	765	1611	0	26.09	0.00	26.09
Zerda-Kankroli	171	-143	171	194	0.00	1.24	-1.24
Zerda-Bhinmal	174	-171	192	241	0.00	1.49	-1.49
Malanpur-Auraiya	-55	-56	0	70	0.00	1.15	-1.15
Badod-Kota/Morak	23	-31	35	80	0.00	0.34	-0.34
Mundra-Mohindergarh(HVDC)	1252	1003	1252	0	26.21	0.00	26.21
Sub Total WR	2926	1117			53.78	9.98	43.81
Pusauli Bypass	-395	-208	0	419	0.00	6.11	-6.11
MZP- GKP (D/C)	664	634	756	0	15.14	0.00	15.14
Patna-Balia(D/C)	442	440	485	0	9.85	0.00	9.85
B Sharif-Balia (D/C)	248	257	305	0	5.89	0.00	5.89
Pusauli-Balia	-17	0	8	30	0.00	0.15	-0.15
Gaya-Fatehpur (765 Kv)	58	2	132	29	1.02	0.00	1.02
Pusauli-Sahupuri	130	145	156	0	3.37	0.00	3.37
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)	310	158	353	0	5.66	0.00	5.66
Sub Total ER	1402	1388			40.93	7.15	33.78
Total IR Exch	4328	2505			94.71	17.13	77.58

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
31.45	3.77	35.22	2.65	37.31	-1.94	-11.15	2.33	-2.33

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
38.26	58.51	96.77	33.78	43.81	77.58	-4.48	-14.71	-19.19

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	80.10	0.80	80.10	81.80	19.90

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					
50.49	4.01	49.71	16.26	50.10	0.25	0.12	50.51	50.04

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	412	03:08	402	00:00	0.0	0.0	0.0	0.0
Gorakhpur	400	420	14:08	402	22:27	0.0	0.0	0.0	0.0
Bareilly	400	417	08:00	397	00:18	0.0	0.0	0.0	0.0
Kanpur	400	421	03:59	404	19:45	0.0	0.0	0.5	0.0
Dadri	400	417	03:34	401	14:56	0.0	0.0	0.0	0.0
Ballabgarh	400	426	04:05	406	14:53	0.0	0.0	24.1	0.0
Bawana	400	419	03:37	402	19:48	0.0	0.0	0.0	0.0
Bassi	400	428	04:03	403	19:47	0.0	0.0	10.5	0.0
Hissar	400	410	04:00	390	19:47	0.0	0.0	0.0	0.0
Moga	400	414	03:16	396	17:25	0.0	0.0	0.0	0.0
Abdullapur	400	412	03:34	397	14:19	0.0	0.0	0.0	0.0
Nalagarh	400	413	03:37	405	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	418	03:14	401	20:37	0.0	0.0	0.0	0.0
Wagoora	400	419	03:17	388	20:39	0.0	1.1	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	778	18:06	746	19:59	0.0	0.0	0.0	0.0
Balia	765	758	18:05	722	00:18	3.2	43.4	0.0	0.0
Moga	765	790	04:02	749	17:25	0.0	0.0	0.0	0.0
Agra	765	813	04:03	770	19:46	0.0	0.0	10.9	0.0
Bhiwani	765	799	04:03	758	19:47	0.0	0.0	0.0	0.0
Unnao	765	759	08:00	728	22:15	0.0	37.8	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	497.10	983.40	468.32	239.28	1646.93	1053.61
Pong	426.72	384.05	408.74	454.47	398.64	191.43	591.03	281.53
Tehri	829.79	740.04	787.10	414.00	818.65	982.26	785.20	645.00
Koteshwar	612.50	598.50	NA	NA	NA	NA	NA	NA
Chamera-I	760.00	748.75	NA	NA	NA	NA	373.00	351.89
Rihand	268.22	252.98	254.42	65.50	254.17	44.30	325.13	NA
RPS	352.80	343.81	349.00	NA	NA	NA	NA	54.71
Jawahar Sagar	298.70	295.78	298.12	NA	NA	NA	NA	7.36
RSD	527.91	487.91	512.12	144.00	499.33	124.80	363.98	461.48

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 10.07.2013 :

1. Rains in J&K /Uttarakhand/ HP & Scattered rains in UP, NCR ,Rajasthan Haryana, punjab.

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 BHAL(280MW)/Uttarakhand closed down due to flush flooding.

Report for : 10.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER