

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 09.07.2013
Date of Reporting : 10.07.2013

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
33893	1746	35639	50.10	36767	410	37177	50.29	872.4	25.41

* 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	45.44	16.90		62.34	108.70	108.13	-0.57	170.46	0.00
Haryana	58.22	0.55		58.77	97.14	86.50	-10.64	145.27	0.00
Rajasthan	67.20	0.67	29.43	97.30	46.82	39.52	-7.30	136.82	0.46
Delhi	27.38			27.38	70.81	66.45	-4.36	93.83	0.00
UP	122.62	4.52	3.00	130.14	111.46	107.39	-4.07	237.53	20.08
Uttarakhand		9.44		9.44	21.03	21.89	0.86	31.32	3.16
HP		23.59		23.59	2.97	0.76	-2.20	24.36	0.00
J & K		13.77	0.00	13.77	18.51	13.77	-4.75	27.53	1.70
Chandigarh				0.00	6.07	5.27	-0.80	5.27	0.00
Total	320.85	69.44	32.43	422.72	483.51	449.68	-33.83	872.40	25.41

* 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	7348	0	145	1689	7299	0	-46	1805	42.05
Haryana	4705	0	-1425	1446	6076	0	-508	1230	29.37
Rajasthan	5622	391	-55	-594	5532	0	-351	-79	-4.05
Delhi	3361	0	-843	217	3699	0	-147	-86	2.21
UP	8864	1010	-547	330	10960	320	422	1388	16.82
Uttarakhand	1404	245	138	323	1191	90	45	237	6.79
HP	939	0	-179	-942	887	0	-116	-1132	-23.57
J&K	1418	100	-48	-248	937	0	-246	-399	-6.70
Chandigarh	233	0	-37	0	187	0	-42	0	0.11
Total	33893	1746	-2852	2222	36767	410	-988	2963	63.03

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

III. Regional Entities :

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

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	1845	1740	1325	36.42	1517	37.07	-0.65
Rihand I STPS	1000	485	441	354	8.09	337	8.62	-0.53
Rihand II STPS	1000	970	819	704	16.29	679	17.12	-0.83
Rihand III STPS	500	480	375	320	7.97	332	8.44	-0.47
Dadri I STPS	840	810	646	628	14.05	585	13.97	0.07
Dadri II STPS	980	968	812	702	16.88	703	17.40	-0.52
Unchahar I TPS	420	396	308	309	7.04	293	7.32	-0.28
Unchahar II TPS	420	401	313	309	6.67	278	6.85	-0.18
Unchahar III TPS	210	200	157	150	3.31	138	3.43	-0.12
ISTPP (Jhajjar)	1500	1410	637	657	13.99	583	14.37	-0.38
Dadri GPS	830	790	234	395	8.61	359	8.88	-0.27
Anta GPS	419	400	238	383	8.04	335	8.31	-0.28
Auraiya GPS	663	606	242	310	6.96	290	6.79	0.18
Sub Total (A)	10782	9761	6962	6546	154.30	6429	158.58	-4.28
B. NPC								
NAPS	440	153	179	184	3.77	157	3.67	0.09
RAPS- B	440	380	434	431	9.31	388	9.12	0.19
RAPS- C	440	210	235	236	5.01	209	5.04	-0.03
Sub Total (B)	1320	743	848	851	18.08	753	17.83	0.25
C. NHPC								
Chamera I HPS	540	540	540	540	12.95	540	12.96	-0.01
Chamera II HPS	300	251	201	303	5.97	249	6.01	-0.04
Chamera III HPS	231	231	229	231	5.51	230	5.51	0.00
Bairasuil HPS	180	179	120	20	2.13	89	2.10	0.03
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	445	449	10.61	442	10.43	0.19
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	387	409	381	9.36	390	9.41	-0.05
Sewa-II HPS	120	119	40	0	1.07	44	1.15	-0.09
Sub Total (C)	3305	2813	2643	2583	63.36	2640	63.32	0.04
D. NJPC								
Nathpa Jhakri	1500	1605	1618	1619	38.53	1605	38.49	0.04
Sub Total (D)	1500	1605	1618	1619	38.53	1605	38.49	0.04
E. THDC								
Tehri HPS	1000	855	864	857	20.47	853	20.50	-0.03
Koteshwar HPS	400	376	379	255	7.75	323	8.00	-0.25
Sub Total (E)	1400	1231	1243	1112	28.22	1176	28.50	-0.29
F. BBMB								
Bhakra HPS	1480	1328	1351	1356	32.46	1353	31.88	0.58
Dehar HPS	990	619	825	660	15.46	644	14.85	0.61
Pong HPS	396	165	252	66	4.16	173	3.95	0.21
Sub Total (F)	2866	2112	2428	2082	52.08	2170	50.68	1.40
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	181	222	4.99	208	5.29	-0.30
KWHEP HPS(IPP)	1000	0	1200	1195	28.21	1175	28.51	-0.30
Malana Stg-II HPS	100	0	113	113	2.71	113	2.52	0.19
Shree Cement TPS	300	0	247	152	5.09	212	5.48	-0.39
Budhil HPS(IPP)	70	0	69	69	1.65	69	1.65	-0.01
Sub Total (G)	1662	0	1810	1758	42.65	1777	43.46	-0.80
H. Total Regional Entities (A-G)	22836	18264	17552	16551	397.22	16551	400.86	-3.65

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	1040	1040	23.93	997
	Guru Nanak Dev TPS(Bhatinda)	440	180	190	3.86	161
	Guru Hargobind Singh TPS(L.mbt)	920	723	687	17.65	736
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	1943	1917	45.44	1893
	Total Hydro	1148	781	750	16.90	704
	Total Punjab	3768	2724	2667	62.34	2597
Haryana	Panipat TPS	1367	580	582	13.35	556
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0
	Faridabad GPS (NTPC)	432	304	302	6.79	283
	RGTPP (khedar) (IPP)	1200	444	930	19.59	816
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	704	694	18.48	770
	Thermal (Total)	4944	2032	2508	58.22	2426
	Total Hydro	62	22	22	0.55	23
	Total Haryana	5006	2054	2530	58.77	2449
	Rajasthan	kota TPS	1240	653	877	17.62
suratgarh TPS		1500	1085	943	22.73	947
Chabra TPS		500	113	189	2.99	125
Dholpur GPS		330	64	128	1.92	80
Ramgarh GPS		111	25	15	0.52	22
RAPS A (NPC)		300	176	176	4.28	178
Barsingar (NLC)		250	0	0	0.00	0
Giral LTPS		250	62	8	1.37	57
Rajwest LTPS (IPP)		1080	690	595	15.78	658
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	2868	2931	67.20	2800
Total Hydro		550	63	0	0.67	28
Wind power		2191	1068	1091	28.00	1167
Biomass		91	20	20	0.48	20
Solar		201	0	0	0.95	40
Renewable/Others (Total)		2483	1088	1111	29.43	1226
Total Rajasthan	9989	4019	4042	97.30	4054	
UP	Anpara TPS	1630	1200	1145	28.50	1188
	Obra TPS	1288	450	451	11.20	467
	Paricha TPS	1140	749	642	15.60	650
	Panki TPS	210	131	158	3.50	146
	Harduaganj TPS	665	351	356	8.50	354
	Tanda TPS (NTPC)	440	289	323	8.59	358
	Roza TPS (IPP)	1200	801	996	22.51	938
	Anpara-C (IPP)	1200	697	648	17.12	713
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	251	292	7.10	296
	Thermal (Total)	8223	4919	5011	122.62	5109
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	178	206	4.52	189
	Cogeneration	981	125	125	3.00	125
	Total UP	10131	5222	5342	130.14	5422
	Uttarakhand	Total Hydro	1303	400	399	9.44
Total Uttarakhand		1303	400	399	9.44	393
Delhi	Rajghat TPS	135	78	93	1.95	81
	Delhi Gas Turbine	282	106	113	2.65	110
	Pragati Gas Turbine	330	155	260	6.37	265
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	225	199	5.45	227
	Badarpur TPS (NTPC)	705	510	510	10.96	457
	Thermal (Total)	2232	1074	1175	27.38	1141
	Total Delhi	2232	1074	1175	27.38	1141
HP	Baspa HPS (IPP)	330	302	333	7.63	318
	Malana HPS (IPP)	86	106	107	2.53	106
	Other Hydro	589	558	571	13.43	560
	Total HP	1005	966	1011	23.59	983
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	17025	17742	422.72	17613
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			400	2788	50.74	2114
Total Regional Availability(Gross)		57226	34977	37081	870.68	36278

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9426	8933	218.10	9087
State Control Area Hydro	5368	2976	2964	69.44	2894
Total Regional Hydro	15731	12402	11897	287.54	11981

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	-150	-300	0	500	0.00	7.62	-7.62
Gwalior-Agra (D/C)	55	1077	1550	83	18.43	0.00	18.43
Zerda-Kankroli	-192	-179	36	330	0.00	4.26	-4.26
Zerda-Bhinmal	-217	-206	25	404	0.00	4.83	-4.83
Malanpur-Auraiya	-112	-41	0	114	0.00	1.67	-1.67
Badod-Kota/Morak	-167	-82	0	188	0.00	2.14	-2.14
Mundra-Mohindergarh(HVDC)	1054	1152	1446	0	27.67	0.00	27.67
Sub Total WR	271	1421			46.10	20.52	25.58
Pusauli Bypass	-596	-163	0	596	0.00	6.34	-6.34
MZP- GKP (D/C)	222	602	720	0	12.67	0.00	12.67
Patna-Balia(D/C)	196	379	573	0	7.11	0.00	7.11
B Sharif-Balia (D/C)	106	282	361	0	4.99	0.00	4.99
Pusauli-Balia	21	-9	37	48	0.00	0.19	-0.19
Gaya-Fatehpur (765 Kv)	46	17	109	79	0.15	0.00	0.15
Pusauli-Sahupuri	146	161	166	0	3.44	0.00	3.44
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)	26	138	303	0	4.22	0.00	4.22
Sub Total ER	129	1367			32.58	7.42	25.16
Total IR Exch	400	2788			78.68	27.94	50.74

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
31.35	3.78	35.13	4.71	35.20	-6.72	-8.13	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
35.45	64.35	99.81	25.16	25.58	50.74	-10.29	-38.77	-49.07

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	0.10	61.80	0.10	61.70	88.10	38.20

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					
50.53	18.54	49.66	1.48	50.15	0.42	0.13	50.55	50.01

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	03:13	401	22:37	0.0	0.0	0.0	0.0
Gorakhpur	400	424	18:19	414	16:09	0.0	0.0	38.6	0.0
Bareilly	400	421	06:04	394	22:31	0.0	0.0	0.0	0.0
Kanpur	400	423	06:04	403	22:24	0.0	0.0	15.9	0.0
Dadri	400	420	18:52	401	14:41	0.0	0.0	0.0	0.0
Ballabhgarh	400	428	03:44	407	14:21	0.0	0.0	44.1	0.0
Bawana	400	422	18:57	405	14:09	0.0	0.0	1.3	0.0
Bassi	400	427	03:06	403	11:25	0.0	0.0	18.2	0.0
Hissar	400	413	03:53	396	14:46	0.0	0.0	0.0	0.0
Moga	400	415	03:44	402	09:27	0.0	0.0	0.0	0.0
Abdullapur	400	416	18:54	400	14:21	0.0	0.0	0.0	0.0
Nalagarh	400	415	03:44	402	10:50	0.0	0.0	0.0	0.0
Kishenpur	400	417	04:05	407	20:09	0.0	0.0	0.0	0.0
Wagoora	400	416	13:21	397	20:21	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	764	06:05	718	22:10	8.6	31.9	0.0	0.0
Moga	765	793	21:01	765	22:35	0.0	0.0	0.0	0.0
Agra	765	816	18:59	772	12:31	0.0	0.0	29.5	0.0
Bhiwani	765	802	04:04	768	14:45	0.0	0.0	2.1	0.0
Unnao	765	777	06:04	731	23:11	0.0	10.4	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	496.70	971.87	470.87	282.71	1886.47	1051.26
Pong	426.72	384.05	408.00	454.47	393.82	106.94	1072.73	256.73
Tehri	829.79	740.04	786.60	411.99	818.65	982.26	760.77	540.00
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 09.07.2013 :

1. Rains in J&K / Punjab/Uttarakhand/ Haryana/ UP/ NCR /HP/ Rajasthan.

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 : 09.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER