

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.07.2013
Date of Reporting : 25.07.2013

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
40187	2950	43137	49.97	39064	1970	41034	50.06	927.8	75.40

* 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	50.56	16.59		67.14	125.39	125.56	0.16	192.70	17.55
Haryana	46.00	0.73		46.73	114.58	112.65	-1.93	159.38	1.22
Rajasthan	77.52	1.47	5.30	84.28	61.65	60.67	-0.98	144.95	1.21
Delhi	21.08			21.08	81.61	79.12	-2.48	100.21	0.08
UP	106.35	4.87	1.20	112.42	131.74	130.69	-1.05	243.11	48.12
Uttarakhand		9.27		9.27	17.97	19.10	1.13	28.37	5.34
HP		23.44		23.44	1.16	0.36	-0.80	23.80	0.18
J & K		13.67	0.00	13.67	18.00	15.65	-2.35	29.31	1.70
Chandigarh				0.00	5.89	5.96	0.07	5.96	0.00
Total	301.51	70.02	6.50	378.02	557.99	549.76	-8.24	927.78	75.40

* 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	8405	690	2	1857	8050	600	-49	1924	45.59
Haryana	7316	0	-216	1722	6570	0	93	1357	37.16
Rajasthan	6025	0	-244	20	5989	0	-28	25	-0.05
Delhi	4284	0	130	128	3801	0	-308	-239	3.45
UP	10072	1900	-219	1037	11043	1220	-79	1655	21.05
Uttarakhand	1403	260	166	164	1326	150	13	14	1.31
HP	953	0	-122	-1077	857	0	19	-1273	-25.54
J&K	1479	100	-134	-143	1214	0	-141	-235	-7.81
Chandigarh	250	0	-27	0	214	0	-1	-25	-0.13
Total	40187	2950	-664	3706	39064	1970	-481	3203	75.04

* 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
A. NTPC	Singrauli STPS	2000	1731	1760	1843	41.46	1727	41.23	0.22
	Rihand I STPS	1000	921	989	988	21.73	905	21.82	-0.09
	Rihand II STPS	1000	971	1036	1022	22.76	948	22.97	-0.21
	Rihand III STPS	500	476	514	505	11.09	462	11.16	-0.07
	Dadri I STPS	840	810	761	877	16.78	699	17.44	-0.67
	Dadri II STPS	980	975	993	896	20.61	859	21.37	-0.75
	Unchahar I TPS	420	399	413	391	8.69	362	9.10	-0.41
	Unchahar II TPS	420	403	441	335	8.67	361	8.74	-0.07
	Unchahar III TPS	210	201	218	159	4.32	180	4.38	-0.07
	ISTPP (Jhajjar)	1500	1470	665	660	14.22	592	14.45	-0.23
	Dadri GPS	830	791	468	553	13.00	542	13.10	-0.10
	Anta GPS	419	401	391	374	9.05	377	9.15	-0.09
	Auraiya GPS	663	612	302	304	7.06	294	7.20	-0.14
	Sub Total (A)	10782	10159	8951	8907	199.43	8309	202.11	-2.69
B. NPC	NAPS	440	157	180	178	3.76	157	3.77	-0.01
	RAPS- B	440	394	430	437	9.30	388	9.46	-0.15
	RAPS- C	440	210	234	233	4.96	207	5.04	-0.08
	Sub Total (B)	1320	761	844	848	18.02	751	18.26	-0.25
C. NHPC	Chamera I HPS	540	534	540	540	11.47	478	11.50	-0.03
	Chamera II HPS	300	300	305	204	6.89	287	7.22	-0.33
	Chamera III HPS	231	231	234	234	5.55	231	5.48	0.07
	Bairasul HPS	180	119	180	110	2.00	83	1.58	0.42
	Salal-HPS	690	666	663	667	15.87	661	15.97	-0.10
	Tanakpur-HPS	94	92	91	93	2.22	92	2.20	0.02
	Uri-HPS	480	293	378	306	6.82	284	6.66	0.16
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	403	405	9.35	390	9.29	0.06
	Sewa-II HPS	120	119	122	0	1.03	43	1.00	0.03
	Sub Total (C)	3305	2741	2916	2559	61.20	2550	60.91	0.29
D. NJPC	Nathpa Jhakri	1500	1605	1619	1623	38.72	1613	38.52	0.20
	Sub Total (D)	1500	1605	1619	1623	38.72	1613	38.52	0.20
E. THDC	Tehri HPS	1000	1000	1017	1006	24.03	1001	24.00	0.03
	Koteswar HPS	400	380	387	380	8.72	363	8.70	0.02
	Sub Total (E)	1400	1380	1404	1386	32.75	1365	32.70	0.05
F. BBMB	Bhakra HPS	1480	1353	1350	1365	32.84	1368	32.47	0.37
	Dehar HPS	990	610	825	630	15.08	628	14.65	0.43
	Pong HPS	396	222	372	126	5.55	231	5.32	0.23
	Sub Total (F)	2866	2185	2547	2121	53.47	2228	52.44	1.03
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	161	175	4.25	177	4.33	-0.08
	KWHEP HPS(IPP)	1000	0	1198	1200	28.52	1188	28.51	0.01
	Malana Stg-II HPS	100	0	114	113	2.71	113	2.49	0.22
	Shree Cement TPS	300	0	164	205	4.21	175	4.10	0.10
	Budhil HPS(IPP)	70	0	72	72	1.72	72	1.63	0.08
	Sub Total (G)	1662	0	1709	1765	41.40	1725	41.07	0.33
H. Total Regional Entities (A-G)	22836	18830	19990	19209	444.98	18541	446.02	-1.04	

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	1260	27.09	1129	
	Guru Nanak Dev TPS(Bhatinda)	440	202	104	2.81	117	
	Guru Hargobind Singh TPS(L.mbt)	920	953	940	20.66	861	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2415	2304	50.56	2106	
	Total Hydro	1148	766	549	16.59	691	
	Total Punjab	3768	3181	2853	67.14	2798	
Haryana	Panipat TPS	1367	636	611	14.22	593	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	166	165	4.28	178	
	RGTPP (khedar) (IPP)	1200	500	367	9.46	394	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	833	621	18.03	751	
	Thermal (Total)	4944	2135	1764	46.00	1917	
	Total Hydro	62	30	29	0.73	30	
		Total Haryana	5006	2165	1793	46.73	1947
	Rajasthan	kota TPS	1240	833	955	17.44	726
suratgarh TPS		1500	1080	1001	24.16	1007	
Chabra TPS		500	0	115	1.48	62	
Dholpur GPS		330	113	126	2.68	112	
Ramgarh GPS		111	60	63	1.60	67	
RAPS A (NPC)		300	176	176	4.30	179	
Barsingar (NLC)		250	182	182	4.26	177	
Giral LTPS		250	64	66	1.09	45	
Rajwest LTPS (IPP)		1080	513	422	12.17	507	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	598	8.35	348	
Thermal (Total)		6956	3021	3704	77.52	3230	
Total Hydro		550	105	0	1.47	61	
Wind power		2191	503	144	3.20	133	
Biomass		91	25	25	0.61	25	
Solar		201	0	0	1.49	62	
Renewable/Others (Total)		2483	528	169	5.30	221	
		Total Rajasthan	9989	3654	3873	84.28	3512
UP		Anpara TPS	1630	742	842	16.60	692
	Obra TPS	1288	398	495	9.40	392	
	Paricha TPS	1140	662	547	13.60	567	
	Panki TPS	210	145	150	2.90	121	
	Harduaganj TPS	665	384	372	8.00	333	
	Tanda TPS (NTPC)	440	391	391	9.66	403	
	Roza TPS (IPP)	1200	1008	1008	24.17	1007	
	Anpara-C (IPP)	1200	632	564	14.33	597	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	324	324	7.69	320	
	Thermal (Total)	8223	4686	4693	106.35	4431	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	213	211	4.87	203	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	4949	4954	112.42	4684
	Uttarakhand	Total Hydro	1303	385	689	9.27	386
		Total Uttarakhand	1303	385	689	9.27	386
Delhi	Rajghat TPS	135	0	23	0.38	16	
	Delhi Gas Turbine	282	118	108	2.61	109	
	Pragati Gas Turbine	330	295	295	6.92	288	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	490	505	11.17	465	
	Thermal (Total)	2232	903	931	21.08	879	
		Total Delhi	2232	903	931	21.08	879
HP	Baspa HPS (IPP)	330	332	332	7.59	316	
	Malana HPS (IPP)	86	106	106	2.46	103	
	Other Hydro	589	610	600	13.39	558	
		Total HP	1005	1048	1038	23.44	977
J & K	Baglihar HPS (IPP)	450	436	440	10.46	436	
	Other Hydro	323	140	139	3.21	134	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	576	579	13.67	569
Total State Control Area Generation		34390	16861	16710	378.02	15751	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5366	4990	113.80	4742	
Total Regional Availability(Gross)		57226	42217	40909	936.81	39034	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9959	9177	221.62	9234
State Control Area Hydro	5368	3123	3095	70.02	2918
Total Regional Hydro	15731	13082	12272	291.64	12152

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	300	300	500	0	6.38	0.00	6.38
Gwalior-Agra (D/C)	1790	1737	1930	0	36.99	0.00	36.99
Zerda-Kankroli	-164	-11	207	125	0.18	1.89	-1.71
Zerda-Bhinmal	130	32	261	100	1.32	0.00	1.32
Malanpur-Auraiya	-45	-26	0	69	0.00	1.04	-1.04
Badod-Kota/Morak	21	98	144	21	1.38	0.00	1.38
Mundra-Mohindergarh(HVDC)	1448	1151	1450	0	30.00	0.00	30.00
Sub Total WR	3480	3281			76.25	2.93	73.32
Pusauli Bypass	-114	-114	0	183	0.00	3.75	-3.75
MZP- GKP (D/C)	744	618	776	0	16.23	0.00	16.23
Patna-Balia(D/C)	551	538	615	0	12.17	0.00	12.17
B Sharif-Balia (D/C)	309	297	383	0	6.81	0.00	6.81
Pusauli-Balia	-36	-22	0	41	0.00	0.60	-0.60
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00
Pusauli-Sahupuri	145	173	185	0	3.58	0.00	3.58
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)	325	259	366	0	6.93	0.00	6.93
Sub Total ER	1886	1709			45.72	5.24	40.48
Total IR Exch	5366	4990			121.97	8.17	113.80

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
34.68	3.67	38.36	7.82	42.33	0.65	-11.70	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
49.32	80.19	129.52	40.48	73.32	113.80	-8.84	-6.88	-15.72

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	92.10	6.00	92.10	67.60	7.90

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					
50.37	8.04	49.76	20.35	50.05	0.13	0.10	50.33	49.94

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	407	08:04	398	21:33	0.0	0.0	0.0	0.0
Gorakhpur	400	420	08:38	400	22:50	0.0	0.0	0.0	0.0
Bareilly	400	419	08:03	396	19:50	0.0	0.0	0.0	0.0
Kanpur	400	419	08:03	398	14:32	0.0	0.0	0.0	0.0
Dadri	400	411	08:02	392	14:30	0.0	0.0	0.0	0.0
Ballabgarh	400	421	08:02	398	14:33	0.0	0.0	0.3	0.0
Bawana	400	415	08:02	398	14:30	0.0	0.0	0.0	0.0
Bassi	400	423	04:01	403	14:30	0.0	0.0	9.3	0.0
Hissar	400	419	04:36	402	14:10	0.0	0.0	0.0	0.0
Moga	400	411	08:02	400	09:23	0.0	0.0	0.0	0.0
Abdullapur	400	413	08:03	395	12:44	0.0	0.0	0.0	0.0
Nalagarh	400	412	08:00	399	13:48	0.0	0.0	0.0	0.0
Kishenpur	400	417	08:05	404	20:34	0.0	0.0	0.0	0.0
Wagoora	400	419	06:04	393	20:35	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	768	08:04	725	21:33	1.0	42.8	0.0	0.0
Balia	765	759	08:04	720	13:20	17.8	68.4	0.0	0.0
Moga	765	778	16:00	754	09:40	0.0	0.0	0.0	0.0
Agra	765	804	08:04	756	14:32	0.0	0.0	0.2	0.0
Bhiwani	765	796	08:04	762	14:37	0.0	0.0	0.0	0.0
Unnao	765	762	08:05	725	21:30	2.5	64.3	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	500.82	1127.29	474.98	350.94	1488.49	1022.95
Pong	426.72	384.05	413.11	600.05	392.21	84.61	1639.49	339.66
Tehri	829.79	740.04	804.15	685.04	818.65	982.26	946.50	574.00
Koteshwar	612.50	598.50	609.50	4.21	NA	NA	541.00	551.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	275.60	345.97
Rihand	268.22	252.98	254.72	65.50	254.26	47.90	NA	NA
RPS	352.80	343.81	350.04	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.42	NA	NA	NA	NA	NA
RSD	527.91	487.91	512.32	144.00	500.93	144.00	412.80	298.01

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.07.2013 :

1.NORMAL 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. Vishnuprayag(UPPCL) (400 MW) Closed due to High Silt level in river water.
3. MANERI BHALI STG-1(90MW)/Uttarakhand closed down due to flush flooding.
3. Chibro & Khodri (360MW)/Uttarakhand closed down at 06.50 hrs dt 23.07.13 due to high PPM.
5. Chila (144MW)/Uttarakhand closed down at 22.00 hrs dt 24.07.13 due to high PPM.

Report for : 24.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER