

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.07.2013
Date of Reporting : 26.07.2013

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
38326	3280	41606	50.06	38495	1955	40450	50.10	913.2	61.96

* 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	50.21	18.27		68.48	123.93	124.11	0.18	192.59	16.50
Haryana	46.02	0.77		46.79	113.84	109.03	-4.82	155.81	0.00
Rajasthan	79.29	0.00	11.56	90.85	58.97	51.96	-7.02	142.81	0.00
Delhi	19.45			19.45	78.53	75.07	-3.45	94.52	0.00
UP	105.08	4.23	1.20	110.51	134.80	131.57	-3.23	242.08	38.38
Uttarakhand		3.66		3.66	23.46	24.11	0.66	27.77	5.34
HP		24.71		24.71	-0.09	-0.47	-0.38	24.23	0.04
J & K		13.67	0.00	13.67	15.93	13.80	-2.13	27.47	1.70
Chandigarh				0.00	6.16	5.95	-0.21	5.95	0.00
Total	300.05	65.30	12.76	378.11	555.53	535.13	-20.41	913.23	61.96

* 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	8248	610	-29	1857	7856	600	31	1924	45.59
Haryana	6581	0	-460	1750	6363	0	-63	1273	37.74
Rajasthan	5600	0	-313	-10	6171	0	-88	28	0.14
Delhi	4128	0	-9	224	3651	0	-101	-364	5.65
UP	9776	2340	-3	1135	11083	1220	-346	2099	25.83
Uttarakhand	1241	230	20	207	1190	135	-21	116	2.70
HP	975	0	-126	-1076	844	0	59	-1325	-26.13
J&K	1521	100	-35	-143	1122	0	-214	-235	-6.41
Chandigarh	256	0	-15	0	214	0	-21	-10	-0.01
Total	38326	3280	-970	3944	38495	1955	-763	3506	85.11

* 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	1735	1893	1880	40.26	1678	40.09	0.17
Rihand I STPS	1000	920	885	960	20.86	869	21.36	-0.51
Rihand II STPS	1000	970	743	1033	21.92	913	22.28	-0.37
Rihand III STPS	500	480	422	492	10.43	435	10.82	-0.39
Dadri I STPS	840	810	880	707	15.93	664	16.16	-0.23
Dadri II STPS	980	975	1002	895	21.06	878	21.37	-0.31
Unchahar I TPS	420	399	413	385	8.75	364	9.28	-0.54
Unchahar II TPS	420	403	438	330	9.79	408	9.25	0.54
Unchahar III TPS	210	201	219	182	4.41	184	4.54	-0.13
ISTPP (Jhajhar)	1500	1470	723	641	16.53	689	15.57	0.96
Dadri GPS	830	789	532	555	12.59	525	12.67	-0.07
Anta GPS	419	401	373	392	8.90	371	8.97	-0.07
Auraiva GPS	663	519	278	304	6.78	283	6.79	-0.01
Sub Total (A)	10782	10071	8801	8756	198.21	8259	199.17	-0.95
B. NPC								
INAPS	440	157	182	178	3.78	158	3.77	0.02
RAPS- B	440	391	425	436	9.37	391	9.38	-0.01
RAPS- C	440	210	237	234	4.99	208	5.04	-0.05
Sub Total (B)	1320	758	844	848	18.14	756	18.19	-0.05
C. NHPC								
Chamera I HPS	540	534	540	360	11.30	471	11.28	0.02
Chamera II HPS	300	300	200	304	6.55	273	6.54	0.00
Chamera III HPS	231	231	147	233	4.70	196	4.77	-0.07
Bairasul HPS	180	179	120	120	2.24	93	2.50	-0.26
Salal-HPS	690	210	568	665	5.26	219	5.20	0.06
Tanakpur-HPS	94	90	94	93	2.20	92	2.17	0.03
Uri-HPS	480	280	378	306	6.82	284	6.55	0.28
Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
Dulhasti-HPS	390	382	401	401	9.22	384	9.13	0.09
Sewa-II HPS	120	119	120	39	2.00	83	2.00	0.00
Sub Total (C)	3305	2325	2568	2521	50.29	2095	50.14	0.14
D. NJPC								
Nathpa Jhakri	1500	1605	1626	1620	38.72	1613	38.49	0.23
Sub Total (D)	1500	1605	1626	1620	38.72	1613	38.49	0.23
E. THDC								
Tehri HPS	1000	1000	1031	1018	24.42	1017	24.00	0.42
Koteshwar HPS	400	380	389	379	8.69	362	8.70	-0.01
Sub Total (E)	1400	1380	1420	1397	33.11	1379	32.70	0.41
F. BBMB								
Bhakra HPS	1480	1353	1350	1362	32.88	1370	32.47	0.41
Dehar HPS	990	604	725	620	14.82	618	14.49	0.33
Pong HPS	396	219	372	126	5.53	230	5.24	0.29
Sub Total (F)	2866	2175	2447	2108	53.23	2218	52.21	1.02
G. IPP(s)/JV(s)								
ADHPL HPS(IPP)	192	0	202	159	3.88	162	4.32	-0.44
KWHEP HPS(IPP)	1000	0	1197	1200	28.54	1189	28.51	0.03
Malana Stg-II HPS	100	0	113	113	2.72	113	2.52	0.20
Shree Cement TPS	300	0	169	205	4.16	173	4.06	0.10
Budhil HPS(IPP)	70	0	72	71	1.25	52	1.65	-0.40
Sub Total (G)	1662	0	1753	1748	40.55	1690	41.07	-0.52
H. Total Regional Entities (A-G)	22836	18314	19459	18998	432.25	18011	431.97	0.28

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	1248	1068	26.21	1092	
	Guru Nanak Dev TPS(Bhatinda)	440	192	190	3.91	163	
	Guru Hargobind Singh TPS(L.mbt)	920	934	773	20.09	837	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2374	2031	50.21	2092	
	Total Hydro	1148	746	609	18.27	761	
	Total Punjab	3768	3120	2640	68.48	2853	
Haryana	Panipat TPS	1367	594	598	14.03	585	
	DCRTPP (Yamuna nagar)	600	0	0	0.00	0	
	Faridabad GPS (NTPC)	432	166	166	3.97	166	
	RGTPP (khedar) (IPP)	1200	381	365	9.02	376	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	664	760	19.00	792	
	Thermal (Total)	4944	1805	1889	46.02	1918	
	Total Hydro	62	30	31	0.77	32	
	Total Haryana	5006	1835	1920	46.79	1949	
	Rajasthan	kota TPS	1240	790	800	19.91	830
suratgarh TPS		1500	959	975	23.15	965	
Chabra TPS		500	0	0	0.00	0	
Dholpur GPS		330	120	120	2.75	115	
Ramgarh GPS		111	67	62	1.77	74	
RAPS A (NPC)		300	176	176	4.03	168	
Barsingar (NLC)		250	97	183	3.62	151	
Giral LTPS		250	60	0	0.43	18	
Rajwest LTPS (IPP)		1080	465	513	11.83	493	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	489	377	11.81	492	
Thermal (Total)		6956	3223	3206	79.29	3304	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	686	497	9.57	399	
Biomass		91	21	21	0.50	21	
Solar		201	0	0	1.49	62	
Renewable/Others (Total)		2483	707	518	11.56	482	
Total Rajasthan		9989	3930	3724	90.85	3785	
UP		Anpara TPS	1630	568	703	15.60	650
	Obra TPS	1288	353	350	8.50	354	
	Paricha TPS	1140	449	590	13.70	571	
	Panki TPS	210	126	131	3.00	125	
	Harduaganj TPS	665	343	334	8.30	346	
	Tanda TPS (NTPC)	440	395	390	9.65	402	
	Roza TPS (IPP)	1200	1008	999	23.99	1000	
	Anpara-C (IPP)	1200	644	611	14.84	618	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	322	7.50	313	
	Thermal (Total)	8223	4251	4430	105.08	4378	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	146	188	4.23	176	
	Cogeneration	981	50	50	1.20	50	
	Total UP	10131	4447	4668	110.51	4605	
	Uttarakhand	Total Hydro	1303	86	335	3.66	152
		Total Uttarakhand	1303	86	335	3.66	152
Delhi	Rajghat TPS	135	0	0	0.00	0	
	Delhi Gas Turbine	282	118	118	2.77	115	
	Pragati Gas Turbine	330	297	269	5.61	234	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	495	495	11.07	461	
	Thermal (Total)	2232	910	882	19.45	810	
	Total Delhi	2232	910	882	19.45	810	
HP	Baspa HPS (IPP)	330	305	336	7.59	316	
	Malana HPS (IPP)	86	104	102	2.46	103	
	Other Hydro	589	620	620	14.66	611	
	Total HP	1005	1029	1058	24.71	1029	
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	15933	15806	378.11	15754	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5171	4685	115.49	4812	
Total Regional Availability(Gross)		57226	40563	39489	925.84	38577	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9573	9118	210.49	8770
State Control Area Hydro	5368	2613	2800	65.30	2721
Total Regional Hydro	15731	12186	11918	275.78	11491

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	100	150	350	450	2.88	0.68	2.20
Gwalior-Agra (D/C)	2032	1562	2107	0	40.67	0.00	40.67
Zerda-Kankroli	141	2	185	111	0.12	0.00	0.12
Zerda-Bhinmal	116	11	238	137	0.62	0.00	0.62
Malanpur-Auraiya	-35	-30	0	79	0.00	0.61	-0.61
Badod-Kota/Morak	-27	44	76	41	0.69	0.00	0.69
Mundra-Mohindergarh(HVDC)	1146	1153	1449	0	30.31	0.00	30.31
Sub Total WR	3473	2892			75.28	1.29	73.98
Pusauli Bypass	-68	-167	0	248	0.72	2.39	-1.67
MZP- GKP (D/C)	572	734	768	0	13.75	0.00	13.75
Patna-Balia(D/C)	491	522	708	0	12.48	0.00	12.48
B Sharif-Balia (D/C)	329	344	516	0	8.38	0.00	8.38
Pusauli-Balia	-28	9	84	36	0.00	0.13	-0.13
Gaya-Fatehpur (765 Kv)	0	0	48	0	0.09	0.00	0.09
Pusauli-Sahupuri	135	184	188	0	3.47	0.00	3.47
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)	305	207	370	0	6.02	0.00	6.02
Sub Total ER	1698	1793			44.92	3.41	41.50
Total IR Exch	5171	4685			120.19	4.71	115.49

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
34.82	3.65	38.48	8.57	42.37	0.64	-2.31	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
50.18	90.39	140.57	41.50	73.98	115.49	-8.68	-16.41	-25.09

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	87.50	0.70	87.40	73.30	12.50

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)
50.42	13.03	49.69	20.37	50.07	0.17	0.11	50.43	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	409	18:21	399	14:22	0.0	0.0	0.0	0.0
Gorakhpur	400	416	22:11	400	11:27	0.0	0.0	0.0	0.0
Bareilly	400	418	06:05	399	14:50	0.3	0.3	0.0	0.0
Kanpur	400	416	23:57	404	00:14	0.0	0.0	0.0	0.0
Dadri	400	412	06:08	396	14:39	0.0	0.0	0.0	0.0
Ballabhgarh	400	422	06:06	406	14:39	0.0	0.0	1.1	0.0
Bawana	400	414	18:50	400	14:52	0.0	0.0	0.0	0.0
Bassi	400	423	06:08	409	14:37	0.0	0.0	4.9	0.0
Hissar	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Moga	400	414	05:03	401	14:34	0.0	0.0	0.0	0.0
Abdullapur	400	411	06:09	395	14:44	0.0	0.0	0.0	0.0
Nalagarh	400	412	23:59	399	14:49	0.0	0.0	0.0	0.0
Kishenpur	400	419	02:03	405	14:38	0.0	0.0	0.0	0.0
Wagoora	400	420	02:06	394	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	770	23:35	733	14:36	0.0	8.3	0.0	0.0
Balia	765	772	18:09	725	03:09	4.1	43.1	0.0	0.0
Moga	765	788	06:08	762	14:37	0.0	0.0	0.0	0.0
Agra	765	800	06:05	767	14:39	0.0	0.0	0.0	0.0
Bhiwani	765	798	06:08	768	14:56	0.0	0.0	0.0	0.0
Unnao	765	757	06:08	732	00:13	0.0	44.0	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	501.11	1140.00	476.20	374.70	1566.00	1034.00
Pong	426.72	384.05	414.24	644.91	393.25	97.37	1560.17	396.24
Tehri	829.79	740.04	808.50	774.00	818.65	982.26	1471.92	572.00
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	512.38	144.00	500.13	144.00	412.80	298.01

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

1. Rihand - Dadri (HVDC POLE - I) fire in Y - Phase terminal of converter transformer at 18.21 Hrs/25.07.2013. Replacement with spare transformer is being arranged and restoration of Pole - I expected on 29.07.2013.

XII. Weather Conditions For 25.07.2013 :

1. Rains Uttranchal, HP , J & K , Rajasthan , NCR .

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)/Uttrakhand closed down due to flush flooding.
3. Chhibro & Khodri (360MW)/Uttrakhand closed down at 06.50 hrs dt 23.07.13 due to high PPM.
5. Chila (144MW)/Uttrakhand closed down at 22.00 hrs dt 24.07.13 due to high PPM.

Report for : 25.07.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER