

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 24.06.2013
Date of Reporting : 25.06.2013

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
39558	1915	41473	50.05	40464	950	41414	50.09	957.3	62.83

* 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	52.82	20.20		73.02	122.13	123.15	1.02	196.17	6.70
Haryana	47.89	0.53		48.42	108.65	108.12	-0.53	156.54	2.15
Rajasthan	85.74	0.00	26.41	112.15	63.62	56.82	-6.79	168.97	0.22
Delhi	30.17			30.17	80.84	79.30	-1.53	109.47	0.41
UP	118.55	3.27	3.60	125.41	108.65	107.95	-0.70	233.36	49.69
Uttarakhand		11.81		11.81	19.66	20.90	1.24	32.71	1.83
HP		23.87		23.87	2.56	0.77	-1.79	24.63	0.13
J & K		13.42	0.00	13.42	16.01	15.67	-0.34	29.09	1.70
Chandigarh				0.00	5.74	6.31	0.57	6.31	0.00
Total	335.16	73.09	30.01	438.26	527.85	519.00	-8.86	957.26	62.83

* 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	8330	0	-158	1877	8351	100	-62	1907	44.48
Haryana	7269	0	-65	1118	6375	0	-87	1081	24.23
Rajasthan	6483	0	-234	336	7025	0	-103	281	7.70
Delhi	4421	0	-285	334	4463	25	-35	96	6.98
UP	9187	1595	-91	279	10833	825	-236	1355	14.07
Uttarakhand	1439	220	135	411	1344	0	-5	279	7.31
HP	978	0	-137	-553	851	0	-116	-1037	-17.45
J&K	1207	100	-7	-277	980	0	-176	-330	-6.37
Chandigarh	244	0	-12	0	241	0	0	0	0.13
Total	39558	1915	-854	3524	40464	950	-819	3632	81.08

* 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	1701	1564	2084	40.00	1667	40.83	-0.83
	Rihand I STPS	1000	490	525	524	11.63	485	11.61	0.02
	Rihand II STPS	1000	945	959	1035	22.49	937	22.35	0.14
	Rihand III STPS	500	464	506	509	10.88	454	10.97	-0.09
	Dadri I STPS	840	810	866	873	17.78	741	17.89	-0.11
	Dadri II STPS	980	975	989	1022	21.78	907	22.43	-0.66
	Unchahar I TPS	420	390	411	382	8.89	371	9.26	-0.36
	Unchahar II TPS	420	201	221	211	4.67	195	4.73	-0.06
	Unchahar III TPS	210	197	213	209	4.59	191	4.62	-0.03
	ISTPP (Jhajjar)	1500	1410	962	891	20.88	870	22.50	-1.62
	Dadri GPS	830	800	483	481	11.27	470	11.35	-0.08
	Anta GPS	419	397	251	255	5.94	248	5.92	0.02
	Auraiva GPS	663	627	257	270	6.39	266	6.34	0.05
	Sub Total (A)	10782	9406	8207	8746	187.20	7800	190.80	-3.59
B. NPC	NAAPS	440	287	330	328	6.96	290	6.89	0.07
	RAPS- B	440	386	428	432	9.24	385	9.26	-0.02
	RAPS- C	440	400	458	461	9.79	408	9.60	0.19
	Sub Total (B)	1320	1073	1216	1221	25.99	1083	25.75	0.24
C. NHPC	Chamera I HPS	540	540	540	540	13.01	542	12.96	0.05
	Chamera II HPS	300	306	310	307	7.32	305	7.34	-0.02
	Chamera III HPS	231	231	232	232	5.52	230	5.55	-0.03
	Bairasuli HPS	180	179	179	30	2.22	92	2.16	0.06
	Salal-HPS	690	670	669	672	16.04	668	16.08	-0.04
	Tanakpur-HPS	94	0	0	0	0.00	0	0.00	0.00
	Uri-HPS	480	470	474	466	11.24	468	11.38	-0.15
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	407	407	9.31	388	9.38	-0.07
	Sewa-II HPS	120	119	122	0	1.13	47	1.06	0.06
Sub Total (C)	3305	2902	2933	2654	65.79	2741	65.92	-0.13	
D. NJPC	Nathpa Jhakri	1500	816	762	1605	18.35	765	18.46	-0.11
	Sub Total (D)	1500	816	762	1605	18.35	765	18.46	-0.11
E. THDC	Tehri HPS	1000	780	787	789	18.66	778	18.50	0.16
	Koteswar HPS	400	385	393	383	7.49	312	7.50	-0.01
	Sub Total (E)	1400	1165	1180	1172	26.15	1090	26.00	0.15
F. BBMB	Bhakra HPS	1480	1135	1259	1101	27.85	1160	27.24	0.61
	Dehar HPS	990	602	825	620	14.86	619	14.46	0.40
	Pong HPS	396	157	306	63	4.02	168	3.78	0.24
	Sub Total (F)	2866	1895	2390	1784	46.73	1947	45.47	1.26
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	230	5.45	227	4.48	0.98
	KWHEP HPS(IPP)	1000	0	1198	1197	21.73	906	27.44	-5.70
	Malana Stg-II HPS	100	0	113	112	2.42	101	1.99	0.43
	Shree Cement TPS	300	0	262	263	6.34	264	6.37	-0.04
	Budhil HPS(IPP)	70	0	70	68	1.53	64	1.45	0.07
	Sub Total (G)	1662	0	1873	1870	37.47	1561	41.72	-4.25
H. Total Regional Entities (A-G)	22836	17257	18561	19052	407.69	16987	414.13	-6.44	

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	1262	1260	28.14	1173
	Guru Nanak Dev TPS(Bhatinda)	440	200	198	4.28	178
	Guru Hargobind Singh TPS(L.mbt)	920	926	931	20.40	850
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2388	2389	52.82	2201
	Total Hydro	1148	840	834	20.20	842
	Total Punjab	3768	3228	3223	73.02	3042
Haryana	Panipat TPS	1367	703	617	16.07	670
	DCRTPP (Yamuna nagar)	600	278	282	6.60	275
	Faridabad GPS (NTPC)	432	161	159	4.16	173
	RGTPP (khedar) (IPP)	1200	1022	485	17.83	743
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	584	0	3.23	135
	Thermal (Total)	4944	2748	1543	47.89	1995
	Total Hydro	62	22	23	0.53	22
	Total Haryana	5006	2770	1566	48.42	2018
	Rajasthan	kota TPS	1240	731	773	17.79
suratgarh TPS		1500	958	1120	24.19	1008
Chabra TPS		500	195	229	4.50	188
Dholpur GPS		330	117	0	2.25	94
Ramgarh GPS		111	64	66	1.63	68
RAPS A (NPC)		300	179	179	4.26	178
Barsingar (NLC)		250	195	196	4.50	188
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	491	596	13.26	553
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	609	365	13.35	556
Thermal (Total)		6956	3539	3524	85.74	3572
Total Hydro		550	0	0	0.00	0
Wind power		2191	890	1082	24.48	1020
Biomass		91	27	27	0.65	27
Solar		201	0	0	1.27	53
Renewable/Others (Total)		2483	917	1109	26.41	1100
Total Rajasthan		9989	4456	4633	112.15	4673
UP	Anpara TPS	1630	1135	1187	28.50	1188
	Obra TPS	1288	320	442	9.30	388
	Paricha TPS	1140	792	727	18.10	754
	Panki TPS	210	54	68	1.90	79
	Harduaganj TPS	665	341	396	8.90	371
	Tanda TPS (NTPC)	440	341	396	7.30	304
	Roza TPS (IPP)	1200	1008	998	24.04	1002
	Anpara-C (IPP)	1200	454	487	11.44	477
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	402	401	9.07	378
	Thermal (Total)	8223	4847	5102	118.55	4939
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	218	59	3.27	136
	Cogeneration	981	150	150	3.60	150
	Total UP	10131	5215	5311	125.41	5226
	Uttarakhand	Total Hydro	1303	394	526	11.81
Total Uttarakhand		1303	394	526	11.81	492
Delhi	Rajghat TPS	135	75	40	1.17	49
	Delhi Gas Turbine	282	186	147	4.11	171
	Pragati Gas Turbine	330	292	262	6.71	280
	Rithala GPS	95	0	0	0.00	0
	Bawana GPS	686	227	219	5.55	231
	Badarpur TPS (NTPC)	705	570	565	12.63	526
	Thermal (Total)	2232	1350	1233	30.17	1257
	Total Delhi	2232	1350	1233	30.17	1257
HP	Baspa HPS (IPP)	330	303	303	7.60	317
	Malana HPS (IPP)	86	79	95	2.11	88
	Other Hydro	589	596	584	14.16	590
	Total HP	1005	978	982	23.87	994
J & K	Baglihar HPS (IPP)	450	436	436	10.47	436
	Other Hydro	323	110	128	2.95	123
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	546	564	13.42	559
Total State Control Area Generation		34390	18937	18038	438.26	18261
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			5581	4998	125.12	5213
Total Regional Availability(Gross)		57226	43079	42088	971.07	40461

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8806	8754	186.63	7776
State Control Area Hydro	5368	2998	2988	73.09	3046
Total Regional Hydro	15731	11804	11742	259.72	10822

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	11.42	0.00	11.42
Gwalior-Agra (D/C)	1907	1721	2031	0	39.19	0.00	39.19
Zerda-Kankroli	44	28	92	194	0.00	1.07	-1.07
Zerda-Bhinmal	54	21	112	198	0.00	0.73	-0.73
Malanpur-Auraiya	-35	-5	0	57	0.00	0.72	-0.72
Badod-Kota/Morak	-3	-11	92	66	0.39	0.34	0.05
Mundra-Mohindergarh(HVDC)	994	1000	1002	0	24.23	0.00	24.23
Sub Total WR	3461	3254			75.23	2.86	72.38
Pusauli Bypass	-238	-294	0	294	0.00	5.09	-5.09
MZP- GKP (D/C)	684	628	880	0	17.13	0.00	17.13
Patna-Balia(D/C)	740	691	876	0	17.82	0.00	17.82
B Sharif-Balia (D/C)	469	441	562	0	11.38	0.00	11.38
Pusauli-Balia	60	73	90	19	1.35	0.00	1.35
Gaya-Fatehpur (765 Kv)	67	5	153	22	1.66	0.00	1.66
Pusauli-Sahupuri	139	166	176	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)	237	74	307	0	5.81	0.00	5.81
Sub Total ER	2120	1744			58.73	5.99	52.75
Total IR Exch	5581	4998			133.96	8.84	125.12

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
40.08	3.39	43.47	11.66	20.66	0.77	10.90	1.97	-1.97

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
57.86	73.28	131.15	52.75	72.38	125.12	-5.12	-0.90	-6.02

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	0.80	92.10	4.50	92.30	57.20	6.90

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					
50.40	16.06	49.58	8.41	50.02	0.16	0.12	50.37	49.76

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	18:04	398	03:07	0.0	0.0	0.0	0.0
Gorakhpur	400	423	18:22	401	00:00	0.0	0.0	3.4	0.0
Bareilly	400	411	06:03	395	00:01	0.0	0.0	0.0	0.0
Kanpur	400	419	18:04	401	00:00	0.0	0.0	0.0	0.0
Dadri	400	409	18:01	393	12:51	0.0	0.0	0.0	0.0
Ballabgarh	400	416	06:04	397	14:49	0.0	0.0	0.0	0.0
Bawana	400	411	18:03	394	15:02	0.0	0.0	0.0	0.0
Bassi	400	421	18:00	397	10:35	0.0	0.0	0.7	0.0
Hissar	400	400	06:02	386	12:07	0.0	11.3	0.0	0.0
Moga	400	409	18:05	395	15:01	0.0	0.0	0.0	0.0
Abdullapur	400	411	07:59	399	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	412	07:56	395	15:01	0.0	0.0	0.0	0.0
Kishenpur	400	410	18:00	400	15:02	0.0	0.0	0.0	0.0
Wagoora	400	411	01:39	397	06:43	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	783	18:04	744	19:46	0.0	0.0	0.0	0.0
Balia	765	774	18:06	724	00:00	4.1	65.4	0.0	0.0
Moga	765	780	18:04	753	15:02	0.0	0.0	0.0	0.0
Agra	765	798	18:05	759	00:00	0.0	0.0	0.0	0.0
Bhiwani	765	775	06:04	752	00:00	0.0	0.0	0.0	0.0
Unnao	765	772	18:05	736	00:00	0.0	4.6	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	487.12	644.48	466.22	212.85	173.70	922.82
Pong	426.72	384.05	402.31	273.51	395.25	131.24	111.48	223.28
Tehri	829.79	740.04	777.75	297.05	818.65	982.26	459.80	512.00
Koteshwar	612.50	598.50	908.95	3.98	NA	NA	512.00	501.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	365.69	352.49
Rihand	268.22	252.98	254.81	69.00	254.63	61.90	NA	NA
RPS	352.80	343.81	348.32	NA	NA	NA	NA	18.58
Jawahar Sagar	298.70	295.78	297.94	NA	NA	NA	NA	17.92
RSD	527.91	487.91	513.10	NA	499.28	NA	285.89	415.83

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 24.06.2013 :

1. Hot and 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. Tanakpur (120 MW) closed down due to high silt level in river water.

Report for : 24.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER