

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 27.06.2013
Date of Reporting : 28.06.2013

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
38010	1602	39612	50.10	39698	940	40638	50.20	923.3	43.12

* 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	51.28	18.11		69.38	119.63	120.62	0.99	190.00	12.59
Haryana	63.75	0.54		64.29	107.14	103.81	-3.33	168.10	0.00
Rajasthan	72.89	0.00	35.14	108.02	57.19	48.90	-8.30	156.92	0.34
Delhi	31.12			31.12	76.34	73.02	-3.33	104.14	0.35
UP	103.14	3.92	3.60	110.66	109.73	107.19	-2.54	217.85	24.86
Uttarakhand		10.30		10.30	18.00	20.43	2.42	30.72	3.28
HP		23.41		23.41	2.02	0.69	-1.33	24.10	0.00
J & K		13.39	0.00	13.39	13.58	12.53	-1.05	25.92	1.70
Chandigarh				0.00	5.75	5.54	-0.20	5.54	0.00
Total	322.17	69.66	38.74	430.57	509.38	492.72	-16.67	923.29	43.12

* 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	
Punjab	8109	400	-180	1936	8438	400	49	1907	41.27
Haryana	7072	0	-570	1134	7105	0	-163	1118	26.11
Rajasthan	6046	0	-385	175	6448	0	-374	257	6.09
Delhi	4205	7	-359	-109	4098	0	-180	-128	0.24
UP	8722	950	27	143	10176	540	9	853	9.22
Uttarakhand	1386	145	79	346	1353	0	141	239	6.34
HP	933	0	-134	-524	932	0	-15	-1023	-16.83
J&K	1294	100	108	-314	933	0	-159	-459	-8.91
Chandigarh	244	0	-11	0	215	0	-6	0	0.16
Total	38010	1602	-1425	2786	39698	940	-698	2765	63.68

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

III. Regional Entities :

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

A. NTPC	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
		Singrauli STPS	2000	1935	2083	2080	46.28	1928	46.35
	Rihand I STPS	1000	489	510	405	10.36	432	10.81	-0.45
	Rihand II STPS	1000	955	1021	1037	21.89	912	21.69	0.20
	Rihand III STPS	500	480	460	478	9.98	416	10.74	-0.76
	Dadri I STPS	840	807	647	709	16.08	670	16.46	-0.38
	Dadri II STPS	980	968	933	761	19.48	812	19.93	-0.45
	Unchahar I TPS	420	388	390	336	8.05	336	8.42	-0.37
	Unchahar II TPS	420	201	182	177	3.92	163	3.97	-0.06
	Unchahar III TPS	210	198	170	156	3.83	160	3.86	-0.03
	ISTPP (Jhajjar)	1500	1410	900	730	16.52	688	17.73	-1.21
	Dadri GPS	830	800	484	499	11.29	470	11.40	-0.12
	Anta GPS	419	398	231	0	2.95	123	3.63	-0.67
	Auraiya GPS	663	627	290	304	6.79	283	6.69	0.09
	Sub Total (A)	10782	9655	8301	7672	177.40	7392	181.68	-4.27
B. NPC	NAAPS	440	295	339	335	7.10	296	7.08	0.02
	RAPS- B	440	388	429	433	9.31	388	9.31	0.00
	RAPS- C	440	400	462	460	9.88	412	9.60	0.28
	Sub Total (B)	1320	1083	1230	1228	26.29	1096	25.99	0.30
C. NHPC	Chamera I HPS	540	540	540	540	13.01	542	12.96	0.05
	Chamera II HPS	300	306	306	307	7.32	305	7.34	-0.02
	Chamera III HPS	231	231	230	232	5.51	230	5.52	-0.01
	Bairasul HPS	180	179	150	30	2.54	106	2.57	-0.03
	Salal-HPS	690	666	662	657	15.69	654	15.99	-0.30
	Tanakpur-HPS	94	85	93	85	1.93	80	2.03	-0.11
	Uri-HPS	480	475	473	459	11.03	460	11.16	-0.13
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	387	404	401	9.30	387	9.31	-0.02
	Sewa-II HPS	120	119	123	0	1.15	48	1.13	0.02
	Sub Total (C)	3305	2988	2981	2711	67.47	2811	68.02	-0.54
D. NJPC	Nathpa Jhakri	1500	628	0	1571	15.23	634	15.20	0.03
	Sub Total (D)	1500	628	0	1571	15.23	634	15.20	0.03
E. THDC	Tehri HPS	1000	780	792	751	18.31	763	18.33	-0.02
	Koteswar HPS	400	364	388	276	7.54	314	7.70	-0.16
	Sub Total (E)	1400	1144	1180	1027	25.85	1077	26.03	-0.18
F. BBMB	Bhakra HPS	1480	1150	1259	1102	27.73	1155	27.59	0.14
	Dehar HPS	990	605	825	600	14.90	621	14.53	0.37
	Pong HPS	396	108	252	63	2.89	120	2.58	0.31
	Sub Total (F)	2866	1863	2336	1765	45.52	1897	44.70	0.82
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	230	230	5.48	228	5.29	0.19
	KWHEP HPS(IPP)	1000	0	1207	929	15.59	649	22.61	-7.03
	Malana Stg-II HPS	100	0	112	110	2.66	111	2.36	0.29
	Shree Cement TPS	300	0	261	261	6.29	262	6.37	-0.08
	Budhil HPS(IPP)	70	0	70	70	1.65	69	1.46	0.20
	Sub Total (G)	1662	0	1880	1600	31.67	1319	38.09	-6.43
H. Total Regional Entities (A-G)		22836	17360	17908	17574	389.43	16226	399.71	-10.28

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	1260	1260	27.28	1136	
	Guru Nanak Dev TPS(Bhatinda)	440	197	203	4.04	168	
	Guru Hargobind Singh TPS(L.mbt)	920	895	928	19.96	832	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2352	2391	51.28	2136	
	Total Hydro	1148	705	823	18.11	754	
	Total Punjab	3768	3057	3214	69.38	2891	
Haryana	Panipat TPS	1367	725	683	16.66	694	
	DCRTPP (Yamuna nagar)	600	278	282	6.32	263	
	Faridabad GPS (NTPC)	432	181	181	4.28	178	
	RGTPP (khedar) (IPP)	1200	1014	1053	22.96	957	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	533	515	13.54	564	
	Thermal (Total)	4944	2731	2714	63.75	2656	
	Total Hydro	62	18	15	0.54	22	
		Total Haryana	5006	2749	2729	64.29	2679
	Rajasthan	kota TPS	1240	632	823	16.71	696
suratgarh TPS		1500	686	738	17.43	726	
Chabra TPS		500	95	198	3.40	142	
Dholpur GPS		330	136	136	3.61	151	
Ramgarh GPS		111	65	43	1.34	56	
RAPS A (NPC)		300	179	179	4.26	178	
Barsingar (NLC)		250	187	176	3.92	163	
Giral LTPS		250	0	0	0.00	0	
Rajwest LTPS (IPP)		1080	687	692	17.19	716	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	0	233	5.03	210	
Thermal (Total)		6956	2667	3218	72.89	3037	
Total Hydro		550	0	0	0.00	0	
Wind power		2191	1453	1129	33.23	1384	
Biomass		91	25	25	0.60	25	
Solar		201	0	0	1.31	55	
Renewable/Others (Total)		2483	1478	1154	35.14	1464	
		Total Rajasthan	9989	4145	4372	108.02	4501
UP		Anpara TPS	1630	1312	1303	28.60	1192
	Obra TPS	1288	501	475	10.40	433	
	Paricha TPS	1140	655	673	13.10	546	
	Panki TPS	210	155	110	2.90	121	
	Harduaganj TPS	665	0	0	0.00	0	
	Tanda TPS (NTPC)	440	191	298	5.97	249	
	Roza TPS (IPP)	1200	819	1007	22.18	924	
	Anpara-C (IPP)	1200	504	484	11.66	486	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	314	405	8.34	347	
	Thermal (Total)	8223	4451	4755	103.14	4297	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	146	146	3.92	163	
	Cogeneration	981	150	150	3.60	150	
		Total UP	10131	4747	5051	110.66	4611
	Uttarakhand	Total Hydro	1303	472	480	10.30	429
Total Uttarakhand		1303	472	480	10.30	429	
Delhi	Rajghat TPS	135	88	89	2.37	99	
	Delhi Gas Turbine	282	192	193	4.69	195	
	Pragati Gas Turbine	330	294	264	6.92	288	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	200	239	5.12	213	
	Badarpur TPS (NTPC)	705	565	585	12.03	501	
	Thermal (Total)	2232	1339	1370	31.12	1297	
		Total Delhi	2232	1339	1370	31.12	1297
HP	Baspa HPS (IPP)	330	327	327	7.78	324	
	Malana HPS (IPP)	86	97	45	1.78	74	
	Other Hydro	589	588	567	13.85	577	
		Total HP	1005	1012	939	23.41	976
J & K	Baglihar HPS (IPP)	450	471	432	10.43	435	
	Other Hydro	323	110	128	2.95	123	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	581	560	13.39	558
Total State Control Area Generation		34390	18102	18715	430.57	17940	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4693	4276	110.68	4612	
Total Regional Availability(Gross)		57226	40703	40565	930.68	38778	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	8046	8343	177.79	7408
State Control Area Hydro	5368	2934	2963	69.66	2903
Total Regional Hydro	15731	10980	11306	247.45	10311

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	100	100	500	4.53	0.44	4.10
Gwalior-Agra (D/C)	1464	1319	1761	0	34.31	0.00	34.31
Zerda-Kankroli	-59	-79	0	267	0.00	3.11	-3.11
Zerda-Bhinmal	-90	-80	63	311	0.00	3.25	-3.25
Malanpur-Auraiya	-57	-40	0	67	0.00	1.11	-1.11
Badod-Kota/Morak	-22	-24	0	57	0.00	0.67	-0.67
Mundra-Mohindergarh(HVDC)	1450	1449	1450	0	33.46	0.00	33.46
Sub Total WR	2786	2645			72.30	8.58	63.72
Pusauli Bypass	-206	-248	0	-343	0.00	5.83	-5.83
MZP- GKP (D/C)	722	664	942	0	18.76	0.00	18.76
Patna-Balia(D/C)	557	531	686	0	13.38	0.00	13.38
B Sharif-Balia (D/C)	290	266	465	0	7.84	0.00	7.84
Pusauli-Balia	-28	16	42	45	0.00	0.45	-0.45
Gaya-Fatehpur (765 Kv)	126	39	258	0	3.05	0.00	3.05
Pusauli-Sahupuri	144	168	168	0	3.51	0.00	3.51
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)	340	235	429	0	7.61	0.00	7.61
Sub Total ER	1907	1631			54.14	7.18	46.96
Total IR Exch	4693	4276			126.44	15.76	110.68

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
41.03	3.81	44.84	11.91	17.52	-0.51	1.38	1.23	-1.23

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
57.48	69.16	126.64	46.96	63.72	110.68	-10.51	-5.44	-15.96

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	83.80	1.20	83.80	76.20	16.20

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					
50.44	13.06	49.72	15.38	50.08	0.21	0.12	50.43	49.93

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	416	06:05	401	15:16	0.0	0.0	0.0	0.0
Gorakhpur	400	429	07:39	402	12:22	0.2	0.2	14.0	0.0
Bareilly	400	419	07:04	393	14:22	0.0	0.0	0.0	0.0
Kanpur	400	425	06:16	403	14:27	0.0	0.0	15.7	0.0
Dadri	400	416	07:02	394	14:25	0.0	0.0	0.0	0.0
Ballabgarh	400	424	06:18	394	14:28	0.0	0.0	14.4	0.0
Bawana	400	415	06:04	396	14:25	0.0	0.0	0.0	0.0
Bassi	400	430	04:02	401	14:21	0.0	0.0	28.0	0.0
Hissar	400	404	04:04	387	12:12	0.0	6.4	0.0	0.0
Moga	400	414	10:27	394	14:26	0.0	0.0	0.0	0.0
Abdullapur	400	415	10:29	400	11:47	0.0	0.0	0.0	0.0
Nalagarh	400	419	10:25	402	14:26	0.0	0.0	0.0	0.0
Kishenpur	400	417	08:02	404	15:36	0.0	0.0	0.0	0.0
Wagoora	400	416	10:25	401	15:36	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	791	06:18	743	14:25	0.0	0.0	0.0	0.0
Balia	765	773	06:49	725	14:28	2.4	38.2	0.0	0.0
Moga	765	790	10:27	752	14:26	0.0	0.0	0.0	0.0
Agra	765	808	04:02	755	14:27	0.0	0.0	11.1	0.0
Bhiwani	765	787	07:07	747	14:26	0.0	0.0	0.0	0.0
Unnao	765	779	06:16	726	12:12	0.7	24.6	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	489.91	729.18	467.66	230.40	2132.44	903.11
Pong	426.72	384.05	404.00	312.39	394.57	121.45	1149.27	201.33
Tehri	829.79	740.04	779.45	314.00	818.65	982.26	584.46	504.00
Koteshwar	612.50	598.50	608.95	3.98	605.50	2.46	504.00	590.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	408.76	352.47
Rihand	268.22	252.98	254.69	64.30	254.45	54.90	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	513.36	NA	499.53	NA	539.32	413.62

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 27.06.2013 :

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. Vishnuprayag(UPPCL) (400 MW) Closed due to High Silt level in river water.

Report for : 27.06.2013

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER