

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पॉवरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 25.07.2014
Date of Reporting : 26.07.2014

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
43411	2765	46177	49.81	41961	2790	44751	50.08	1010.9	54.55

* 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	55.73	22.88		78.61	121.96	122.62	0.66	201.24	0.00
Haryana	61.63	0.54		62.17	113.99	112.50	-1.49	174.67	0.00
Rajasthan	115.93	0.00	10.98	126.92	48.29	48.89	0.60	175.81	1.21
Delhi	29.94			29.94	71.14	70.36	-0.78	100.30	0.14
UP	127.50	13.70	1.20	142.40	116.90	120.05	3.15	262.45	50.74
Uttarakhand		20.16		20.16	13.35	14.20	0.84	34.36	0.70
HP		25.52		25.52	-0.52	-0.92	-0.40	24.60	0.06
J & K		13.65	0.00	13.65	17.40	18.42	1.02	32.07	1.70
Chandigarh				0.00	5.42	5.40	-0.02	5.40	0.00
Total	390.73	96.45	12.18	499.36	507.94	511.52	3.58	1010.88	54.55

* 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				# Max(hourly) Demand Met of Day (MW)
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	8601	0	-39	1300	8577	0	159	2015	8725
Haryana	7837	0	-494	1522	7449	0	123	1589	8309
Rajasthan	6830	251	0	-791	7137	0	200	-329	7870
Delhi	4439	0	88	468	3837	0	-82	161	4841
UP	11314	2195	54	954	11193	2790	-261	1034	11815
Uttarakhand	1598	200	124	96	1363	0	31	108	1598
HP	1021	19	21	-1296	895	0	-8	-1440	1173
J&K	1538	100	8	-367	1321	0	75	-430	1828
Chandigarh	233	0	8	0	190	0	-5	0	264
Total	43411	2765	-230	1887	41961	2790	232	2708	44690

* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

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III. Regional Entities :

A. NTPC	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
				(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
	Singrauli STPS	2000	1527	1778	1620	39.81	1659	36.29	3.52
	Rihand I STPS	1000	850	939	928	22.20	925	19.97	2.23
	Rihand II STPS	1000	465	525	517	12.43	518	11.03	1.40
	Rihand III STPS	1000	494	535	491	12.86	536	11.60	1.26
	Dadri I STPS	840	770	838	709	17.08	712	16.25	0.83
	Dadri II STPS	980	475	508	425	10.56	440	10.43	0.13
	Unchahar I TPS	420	395	432	378	10.03	418	9.29	0.74
	Unchahar II TPS	420	400	440	422	10.28	428	9.32	0.97
	Unchahar III TPS	210	198	216	166	4.87	203	4.41	0.45
	ISTPP (Jhajjar)	1500	950	956	700	19.18	799	19.58	-0.40
	Dadri GPS	830	519	370	379	8.61	359	8.79	-0.18
	Anta GPS	419	385	253	256	6.05	252	5.90	0.15
	Auraiya GPS	663	632	152	156	3.53	147	3.55	-0.02
	Dadri Solar	5	1	0	0	0.02	1	0.03	-0.01
	Unchahar Solar	10	3	0	0	0.02	1	0.07	-0.05
	Sub Total (A)	11297	8063	7942	7147	178	7397	167	11
B. NPC	NAPS	440	270	306	310	6.53	272	6.48	0.05
	RAPS- B	440	383	441	446	9.51	396	9.19	0.32
	RAPS- C	440	390	413	414	8.92	372	9.36	-0.44
	Sub Total (B)	1320	1043	1160	1170	24.96	1040	25.03	-0.08
C. NHPC	Chamera I HPS	540	534	551	544	13.19	550	12.82	0.37
	Chamera II HPS	300	301	307	305	7.32	305	7.22	0.10
	Chamera III HPS	231	229	238	233	5.59	233	5.50	0.09
	Bairasui HPS	180	178	180	120	3.58	149	3.44	0.14
	Salal-HPS	690	663	682	682	16.40	683	15.91	0.49
	Tanakpur-HPS	94	85	88	86	2.11	88	2.04	0.07
	Uri-HPS	480	475	477	474	11.49	479	11.40	0.09
	Uri-II HPS	240	240	242	243	5.65	236	5.76	-0.11
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00
	Dulhasti-HPS	390	386	387	386	9.28	387	9.26	0.02
	Sewa-II HPS	120	119	128	0	0.95	40	0.85	0.10
	Parbati 3	390	247	148	263	5.91	246	5.93	-0.02
	Sub Total ©	3935	3458	3428	3336	81	3395	80	1
D.SJVNL	NJPC	1500	1605	1605	1605	38.53	1606	38.52	0.01
	Rampur HEP	275	280	280	280	6.93	289	6.72	0.21
	Sub Total (D)	1775	1885	1885	1885	45.47	1894	45.24	0.22
E. THDC	Tehri HPS	1000	812	813	400	10.16	423	10.00	0.16
	Koteshwar HPS	400	300	300	92	4.28	179	4.25	0.03
	Sub Total (E)	1400	1112	1113	492	14.44	602	14.25	0.19
F. BBMB	Bhakra HPS	1514	943	1338	826	23.13	964	22.64	0.48
	Dehar HPS	990	570	825	580	14.18	591	13.67	0.51
	Pong HPS	396	197	376	63	4.95	206	4.73	0.23
	Sub Total (F)	2900	1710	2539	1469	42.26	1761	41.04	1.22
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	228	229	5.16	215	5.25	-0.10
	KWHEP HPS(IPP)	1000	0	1200	1200	28.69	1195	28.51	0.18
	Malana Stg-II HPS	100	0	114	112	2.44	102	2.51	-0.07
	Shree Cement TPS	300	0	0	0	0.00	0	0.09	-0.09
	Budhil HPS(IPP)	70	0	71	71	1.70	71	1.67	0.02
	Sub Total (G)	1662	0	1613	1612	37.98	1583	38.04	-0.06
H. Total Regional Entities (A-G)		24289	17271	19680	17111	424.12	17672	410.24	13.87

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	870	715	15.81	659	
	Guru Nanak Dev TPS(Bhatinda)	440	332	332	7.02	293	
	Guru Hargobind Singh TPS(L.mbt)	920	864	721	16.55	689	
	Goindwal(GVK)		0	0	0.00	0	
	Rajpura	700	725	696	16.35	681	
	Talwandi Saboo	660	0	0	0.00	0	
	Thermal (Total)	3980	2791	2464	55.73	2322	
	Total Hydro	1148	962	933	22.88	954	
	Total Punjab	5128	3753	3397	78.61	3276	
	Haryana	Panipat TPS	1367	609	609	14.18	591
DCRTPP (Yamuna nagar)		600	513	453	11.02	459	
Faridabad GPS (NTPC)		432	192	194	4.63	193	
RGTPP (khedar) (IPP)		1200	1125	946	22.30	929	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP)		1320	564	370	9.49	395	
Thermal (Total)		4944	3003	2572	61.63	2568	
Total Hydro		62	21	22	0.54	23	
Total Haryana		5006	3024	2594	62.17	2590	
Rajasthan		kota TPS	1240	689	892	19.25	802
		suratgarh TPS	1500	1122	1019	25.92	1080
	Chabra TPS	750	364	353	8.84	368	
	Dholpur GPS	330	92	104	2.34	98	
	Ramgarh GPS	271	137	127	3.53	147	
	RAPS A (NPC)	300	0	0	0.00	0	
	Barsingsar (NLC)	250	97	98	2.19	91	
	Giral LTPS	250	0	0	0.00	0	
	Rajwst LTPS (IPP)	1080	828	348	17.23	718	
	VSLP LTPS (IPP)	135	0	0	0.00	0	
	Kalisindh Thermal	600	408	392	9.92	413	
	Kawai(Adani)	1320	1159	941	26.71	1113	
	Thermal (Total)	8026	4896	4274	116	4831	
	Total Hydro	550	0	0	0.00	0	
	Wind power	2798	114	651	9.91	413	
	Biomass	99	35	35	0.85	35	
	Solar	730	0	0	0.22	9	
	Renewable/Others (Total)	3627	149	686	10.98	458	
	Total Rajasthan	12203	5045	4960	126.92	5288	
	UP	Anpara TPS	1630	916	844	21.10	879
Obra TPS		1288	536	524	12.40	517	
Paricha TPS		1140	727	537	16.50	688	
Panki TPS		210	77	81	1.90	79	
Harduaganj TPS		665	417	427	10.00	417	
Tanda TPS (NTPC)		440	386	373	9.20	383	
Roza TPS (IPP)		1200	1080	1098	26.30	1096	
Anpara-C (IPP)		1200	820	884	21.00	875	
Bajaj Energy Pvt.Ltd(IPP) TPS		450	360	401	9.10	379	
Thermal (Total)		8223	5319	5169	127.50	5313	
Vishnuparyag HPS (IPP)		400	436	436	9.30	388	
Other Hydro		527	218	185	4.40	183	
Cogeneration		981	50	50	1.20	50	
Total UP		10131	6023	5840	142.40	5546	
Uttarakhand		Total Hydro	1303	845	874	20.16	840
		Total Uttarakhand	1303	845	874	20.16	840
Delhi	Rajghat TPS	135	100	96	2.01	84	
	Delhi Gas Turbine	282	148	184	3.82	159	
	Pragati Gas Turbine	330	288	285	6.81	284	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	1370	298	294	6.91	288	
	Badarpur TPS (NTPC)	705	416	423	10.39	433	
	Thermal (Total)	2917	1250	1282	29.94	1247	
	Total Delhi	2917	1250	1282	29.94	1247	
HP	Baspa HPS (IPP)	300	329	329	7.64	318	
	Malana HPS (IPP)	86	104	104	2.47	103	
	Other Hydro	728	628	640	15.42	642	
	Total HP	1114	1061	1073	25.52	1063	
J & K	Baqilhar HPS (IPP)	450	442	438	10.51	438	
	Other Hydro/IPP	436	128	131	3.14	131	
	Gas/Diesel/Others	209	0	0	0.00	0	
	Total J & K	1094	570	569	13.65	569	
Total State Control Area Generation		38896	21571	20589	499.36	20419	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4731	6251	132.62	5526	
Total Regional Availability(Gross)		63186	45982	43951	1056.10	43616	

IV. Total Hydro Generation:

Regional Entities Hydro	11302	10507	8722	219.94	9164
State Control Area Hydro	5589	3677	3656	96.45	3631
Total Regional Hydro	16891	14184	12378	316.39	12795

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	300	500	0	6.86	0.00	6.86
Gwalior-Agra (D/C)	989	1490	2088	0	31.89	0.00	31.89
Zerda-Kankroli	-137	-52	39	224	0.00	2.42	-2.42
Zerda-Bhinmal	-111	-36	-74	224	0.00	1.92	-1.92
Malanpur-Auraiya	-55	-74	0	137	0.00	1.32	-1.32
Badod-Kota/Morak	-92	-71	0	152	0.00	2.14	-2.14
Mundra-Mohindergarh(HVDC)	1998	1997	2013	0	48.37	0.00	48.37
Vindhychal - Rihand	503	493	509	0	12.01	0.00	12.01
Sub Total WR	3595	4047			99.13	7.79	91.34
Pusaui Bypass	400	400	0	400	9.64	0.00	9.64
MZP- GKP (D/C)	234	650	650	650	11.05	0.00	11.05
Patna-Balia(D/C)	259	624	648	0	10.73	0.00	10.73
B'Sharif-Balia (D/C)	141	285	317	0	5.19	0.00	5.19
Pusaui-Balia	-78	-52	0	95	0.00	1.44	-1.44
Gaya-Fatehpur (765 Kv)	13	53	99	71	0.57	0.00	0.57
Pusaui-Sahupuri	131	144	196	196	3.68	0.00	3.68
K'nasa-Sahupuri	0	0	0	0	0.48	0.00	0.48
Son Ngr-Rihand	-22	-40	0	40	0.00	0.76	-0.76
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	58	140	166	27	2.15	0.00	2.15
Sub Total ER	1136	2204			43.48	2.20	41.28
Total IR Exch	4731	6251			142.61	10.00	132.62

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
22.00	3.83	25.83	12.23	9.84	0.25	12.53	-0.40	0.40

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
37.90	79.18	117.08	41.28	91.34	132.62	3.37	12.16	15.54

VI. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	6.60	23.94	52.30	80.92	40.98	5.43	1.79	0.37	NA

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	Hz	Index			
50.25	13.04	49.41	19.44	49.89	0.27	0.12	50.22	49.70

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	405	09:47	399	14:24	0.0	0.0	0.0	0.0
Gorakhpur	400	409	05:06	394	14:14	0.0	0.0	0.0	0.0
Bareilly	400	415	18:04	394	11:34	0.0	0.0	0.0	0.0
Kanpur	400	413	08:51	399	14:19	0.0	0.0	0.0	0.0
Dadri	400	413	06:55	397	12:42	0.0	0.0	0.0	0.0
Ballabgarh	400	421	06:43	402	14:16	0.0	0.0	0.9	0.0
Bawana	400	417	06:54	401	12:42	0.0	0.0	0.0	0.0
Bassi	400	427	04:02	411	10:14	0.0	0.0	31.9	0.0
Hissar	400	409	06:55	396	12:20	0.0	0.0	0.0	0.0
Moga	400	407	11:06	403	01:55	0.0	0.0	0.0	0.0
Abdullapur	400	416	06:43	396	19:44	0.0	0.0	0.0	0.0
Nalagarh	400	414	06:05	401	10:10	0.0	0.0	0.0	0.0
Kishenpur	400	414	06:03	406	19:42	0.0	0.0	0.0	0.0
Wagoora	400	411	00:00	395	19:37	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	776	06:55	747	14:16	0.0	0.0	0.0	0.0
Balia	765	773	06:02	745	14:55	0.0	0.0	0.0	0.0
Moga	765	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Agra	765	792	07:02	760	14:18	0.0	0.0	0.0	0.0
Bhiwani	765	796	07:03	767	14:18	0.0	0.0	0.0	0.0
Unnao	765	750	06:43	723	14:27	3.7	72.7	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	487.48	652.97	491.45	778.28	1057.52	746.49
Pong	426.72	384.05	400.80	237.89	404.34	328.16	215.09	376.70
Tehri	829.79	740.04	748.65	42.00	NA	NA	301.26	205.00
Koteshwar	612.50	598.50	610.77	4.95	608.40	3.76	208.00	207.00
Chamera-I	760.00	748.75	757.00	12.82	NA	NA	505.02	347.40
Rihand	268.22	252.98	258.07	205.10	256.79	149.00	NA	NA
RPS	352.80	343.81	348.06	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	298.80	NA	NA	NA	NA	NA
RSD	527.91	487.91	516.64	144.00	506.65	144.00	224.47	197.51

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	1431	584	0	1184	116	0	30.53	11.46	41.99
Delhi	313	-101	-51	352	187	-71	10.95	0.46	11.41
Haryana	1404	185	0	1485	37	0	35.47	1.43	36.90
HP	-1143	-297	0	-991	-305	0	-23.28	-7.78	-31.05
J&K	-334	-96	0	-334	-33	0	-10.09	-1.70	-11.79
CHD	0	0	0	0	0	0	0.33	0.21	0.54
Rajasthan	-791	458	3	-791	0	0	-17.29	9.64	-7.65
UP	544	442	48	265	639	49	8.87	5.83	14.70
Uttarakhand	96	12	0	96	0	0	2.30	0.18	2.48
Total	1519	1188	1	1267	642	-22	37.79	19.73	57.53

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	1431	1160	678	116	0	0
Delhi	776	264	403	-371	-1	-71
Haryana	1608	1251	199	-373	0	0
HP	-839	-1143	-254	-424	0	0
J&K	-334	-537	59	-343	0	0
CHD	41	0	34	0	0	0
Rajasthan	-550	-791	651	-2	3	0
UP	598	241	639	0	49	0
Uttarakhand	96	96	42	-9	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 25.07.2014 :**
CLOUDY WEATHER IN NR**XIV. Synchronisation of new generating units :**
0.00**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**
400kv Hindon-Alwar charged(First Time) at 19.42hrs of 25.07.2014.**XVI. Tripping of lines in pooling stations :****XVII. Complete generation loss in a generating station :**