

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 17.05.2015
Date of Reporting : 18.05.2015

I. Regional Availability/Demand:

Demand Met	Evening Peak (20:00 Hrs) MW			Freq* (Hz)	Off Peak (03:00 Hrs) MW			Demand Met	Day Energy (Net MU)	
	Shortage	Requirement			Shortage	Requirement			Shortage	
39078	1937	41015		50.04	38613	1386	39998	50.15	906.2	26.44

* 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	27.08	19.37		46.46	86.88	87.14	0.26	133.60	0.00
Haryana	46.10	0.65		46.75	76.36	75.56	-0.80	122.31	0.00
Rajasthan	92.77	0.00	21.94	114.71	72.75	75.25	2.50	189.96	0.00
Delhi	20.70			20.70	68.31	67.09	-1.22	87.79	0.02
UP	129.15	13.87		143.02	129.57	128.48	-1.09	271.50	19.56
Uttarakhand		17.55		17.55	18.80	19.90	1.10	37.45	0.00
HP		20.96		20.96	4.25	3.67	-0.59	24.63	0.00
J & K		14.32	0.00	14.32	21.00	20.02	-0.99	34.34	6.87
Chandigarh				0.00	4.59	4.63	0.27	4.63	0.00
Total	315.80	86.73	21.94	424.47	482.53	481.73	-0.56	906.20	26.44

* 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	5906	0	3	339	5437	0	-15	571	6133
Haryana	5851	0	-164	127	5736	0	-133	151	6337
Rajasthan	7487	0	9	462	7908	0	216	593	8521
Delhi	3672	0	-312	429	3843	0	158	494	4503
UP	11631	1620	217	920	11629	1110	-258	1030	11992
Uttarakhand	1717	0	109	188	1558	0	106	126	1723
HP	1008	0	23	-1378	942	0	-14	-1136	1127
J&K	1585	317	147	-150	1378	276	-87	-409	1705
Chandigarh	220	0	14	0	182	0	22	0	242
Total	39078	1937	46	938	38613	1386	-5	1419	40996

* 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 (5*200+2*500)	2000	1593	1625	1778	39.99	1666	36.86	3.13
	Rihand I STPS (2*500)	1000	810	840	841	18.02	751	16.54	1.48
	Rihand II STPS (2*500)	1000	970	930	922	21.10	879	19.83	1.27
	Rihand III STPS (2*500)	1000	970	975	875	20.66	861	19.96	0.70
	Dadri I STPS (4*210)	840	615	422	436	11.10	462	10.40	0.70
	Dadri II STPS (2*490)	980	980	635	652	16.61	692	16.52	0.09
	Unchahar I TPS (2*210)	420	405	317	326	6.59	275	7.49	-0.90
	Unchahar II TPS (2*210)	420	401	306	344	6.35	264	7.03	-0.68
	Unchahar III TPS (1*220)	210	201	167	128	3.16	132	3.51	-0.35
	ISTPP (Jhajjhar) (3*500)	1500	1500	643	632	14.07	586	14.40	-0.33
	Dadri GPS (4*130.19+2*154.51)	830	828	300	378	8.49	354	8.65	-0.17
	Anta GPS (3*88.71+1*153.2)	419	381	209	228	5.08	212	5.15	-0.08
	Auraiya GPS (4*111.19+2*109.30)	663	644	154	153	3.68	153	3.80	-0.12
	Dadri Solar	5	1	0	0	0.03	1	0.03	0.00
	Unchahar Solar	10	3	0	0	0.04	2	0.06	-0.03
	Singrauli Solar	15	3	0	0	0.00	0	0.07	-0.07
	KHEP	400	0	0	0	0.47	20	0.00	0.47
	Sub Total (A)	11712	10305	7523	7693	175	7309	170	5
B. NPC	NAPS (2*220)	440	416	415	428	9.22	384	9.98	-0.76
	RAPS- B (2*220)	440	371	407	420	8.83	368	7.30	1.53
	RAPS- C (2*220)	440	405	433	442	9.47	395	9.72	-0.25
	Sub Total (B)	1320	1192	1255	1290	27.52	1147	27.00	0.52
C. NHPC	Chamera I HPS (3*180)	540	534	538	530	12.81	534	12.81	0.00
	Chamera II HPS (3*100)	300	300	312	302	7.28	303	7.20	0.08
	Chamera III HPS (3*77)	231	231	237	232	5.59	233	5.55	0.04
	Bairasul HPS(3*60)	180	179	181	181	4.36	182	4.26	0.10
	Salal-HPS (6*115)	690	215	0	665	5.25	219	5.16	0.09
	Tanakpur-HPS (3*40)	94	54	58	51	1.32	55	1.28	0.04
	Uri-I HPS (4*120)	480	475	471	478	11.63	484	11.40	0.23
	Uri-II HPS (4*60)	240	0	0	0	0.00	0	0.00	0.00
	Dhauliganga-HPS (4*70)	280	210	222	133	3.84	160	3.75	0.09
	Dulhasti-HPS (3*130)	390	387	407	394	9.39	391	9.29	0.10
	Sewa-II HPS (3*40)	120	119	130	130	3.08	128	2.86	0.22
	Parbati 3 (4*130)	520	334	263	0	2.36	98	2.31	0.05
	Sub Total (C)	4065	3039	2820	3096	67	2788	66	1
D.SJVNL	NJPC (6*250)	1500	1605	1622	1587	38.48	1603	37.57	0.91
	Rampur HEP (6*68.67)	412	438	438	437	10.63	443	10.51	0.12
	Sub Total (D)	1912	2043	2060	2024	49.11	2046	48.08	1.03
E. THDC	Tehri HPS (4*250)	1000	450	445	151	8.94	373	9.00	-0.06
	Koteswar HPS (4*100)	400	188	303	202	4.49	187	4.50	-0.01
	Sub Total (E)	1400	638	748	353	13.43	560	13.50	-0.07
F. BBMB	Bhakra HPS (3*108+2*126+6*157)	1514	785	1163	488	19.08	795	18.83	0.24
	Dehar HPS (6*165)	990	601	825	495	14.96	623	14.43	0.53
	Pong HPS (6*66)	396	99	252	66	2.31	96	2.37	-0.06
	Sub Total (F)	2900	1485	2240	1049	36.35	1514	35.63	0.71
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	193	102	3.01	125	2.82	0.19
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	1050	1000	25.88	1078	23.96	1.92
	Malana Stg-II HPS (2*50)	100	0	110	45	0.00	0	1.36	-1.36
	Shree Cement TPS (2*150)	300	0	178	286	4.49	187	5.12	-0.63
	Budhil HPS(IPP)	70	0	69	69	1.50	63	1.49	0.01
	Sub Total (G)	1662	0	1599	1502	34.89	1454	34.75	0.14
H. Total Regional Entities (A-G)		24972	18701	18245	17007	403.62	16818	395.13	8.49

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) (6*210)	1260	160	160	3.98	166
	Guru Nanak Dev TPS(Bhatinda) (4*110)	440	90	90	2.20	92
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	174	192	4.45	185
	Goindwal(GVK)		0	0	0.00	0
	Rajpura (2*700)	1400	1021	664	16.45	685
	Talwandi Saboo (1*660)	660	0	0	0.00	0
	Thermal (Total)	4680	1445	1106	27.08	1128
	Total Hydro	1148	811	797	19.37	807
	Total Punjab	5828	2256	1903	46.46	1936
	Haryana	Panipat TPS (4*110+2*210+2*250)	1367	454	450	10.08
DCRTPP (Yamuna nagar) (2*300)		600	481	475	11.42	476
Faridabad GPS (NTPC)		432	175	171	4.58	191
RGTPP (kheadar) (2*600)		1200	364	370	9.16	382
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	413	562	10.86	453
Thermal (Total)		4944	1887	2028	46.10	1921
Total Hydro		62	28	29	0.65	27
Total Haryana		5006	1915	2057	46.75	1948
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	716	686	16.95
	suratgarh TPS (6*250)	1500	594	570	14.63	610
	Chabra TPS (4*250)	1000	500	411	10.59	441
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS (1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	192	182	4.68	195
	RAPS A (NPC) (1*100+1*200)	300	140	143	3.47	145
	Barsingar (NLC) (2*125)	250	90	90	1.97	82
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	685	698	16.81	700
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(1*600)	600	446	454	10.29	429
	Kawai(Adani) (2*660)	1320	544	600	13.37	557
	Thermal (Total)	8276	3907	3834	93	3865
	Total Hydro	550	0	0	0.00	0
	Wind power	2798	567	1090	21.30	887
	Biomass	99	26	26	0.61	26
	Solar	730	0	0	0.03	1
	Renewable/Others (Total)	3627	593	1116	21.94	914
	Total Rajasthan	12453	4500	4950	114.71	4780
	UP	Anpara TPS (3*210+2*500)	1630	1335	1172	29.80
Obra TPS (2*50+2*94+5*200)		1194	472	458	11.02	459
Paricha TPS (2*110+2*220+2*250)		1140	824	818	19.49	812
Panki TPS (2*105)		210	104	126	2.71	113
Harduaganj TPS (1*60+1*105+2*250)		665	218	224	5.08	212
Tanda TPS (NTPC) (4*110)		440	275	391	7.67	320
Roza TPS (IPP) (4*300)		1200	761	1044	20.16	840
Anpara-C (IPP) (2*600)		1200	995	1085	24.45	1019
Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)		450	227	227	5.17	215
Anpara-D		500	59	0	0.71	30
Thermal (Total)		8629	5270	5545	126	5261
Vishnuparyag HPS (IPP)(including Alaknanda)		400	582	406	12.28	512
Other Hydro		527	79	78	1.59	66
Cogeneration		981	120	120	2.88	120
Total UP		10537	6051	6149	143.02	5447
Uttarakhand		Total Hydro	1398	724	692	17.55
	Total Uttarakhand	1398	724	692	17.55	731
Delhi	Rajghat TPS (2*67.5)	135	44	42	1.13	47
	Delhi Gas Turbine (6x30 + 3x34)	282	106	111	2.63	110
	Praagati Gas Turbine (2x104+ 1x122)	330	144	150	3.53	147
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (6*250)	1370	274	272	6.52	272
	Badarpur TPS (NTPC) (3*95+2*210)	705	327	321	6.90	287
	Thermal (Total)	2917	895	896	20.70	863
	Total Delhi	2917	895	896	20.70	863
HP	Baspa HPS (IPP) (2*150)	300	246	268	6.76	282
	Malana HPS (IPP) (2*43)	86	78	42	1.37	57
	Other Hydro	728	530	552	12.84	535
	Total HP	1114	854	862	20.96	873
J & K	Baglihar HPS (IPP) (3*150)	450	438	440	10.55	440
	Other Hydro/IPP	436	163	145	3.77	157
	Gas/Diesel/Others	209	0	0	0.00	0
	Total J & K	1094	601	585	14.32	597
Total State Control Area Generation		40347	17796	18094	424.47	17175
J. Net Inter Regional Exchange (import +ve)/Export (-ve)			4074	3965	101.29	4220
Total Regional Availability(Gross)		65319	40115	39066	929.38	38213

IV. Total Hydro Generation:

Regional Entities Hydro	11969	9221	7669	195.154771	8131
State Control Area Hydro	5684	3097	3043	86.73	3102
Total Regional Hydro	17654	12318	10712	281.88	11233

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	
Vindhyachal B/B	-150	-150	0	250	0.00	3.70	-3.70		
Gwalior-Agra (D/C)	1387	1041	1435	0	23.01	0.00	23.01		
Zerda-Kankroli	-90	-228	0	297	0.00	4.99	-4.99		
Zerda-Bhinmal	47	197	0	261	0.00	3.67	-3.67		
Malanpur-Auraiya	-73	-82	0	88	0.00	1.67	-1.67		
Badod-Kota/Morak	-36	-64	7	58	0.00	1.24	-1.24		
Mundra-Mohinderghar(HVDC)	2002	2002	2006	0	48.37	0.00	48.37		
Vindhyachal - Rihand	484	454	491	0	10.21	0.00	10.21		
Sub Total WR	3571	3170			81.58	15.28	66.30		
Pusaui Bypass	-332	-257	0	348	0.00	5.40	-5.40		
MZP- GKP (D/C)	-372	-420	597	0	9.24	0.00	9.24		
Patna-Balia(D/C)	398	500	561	0	11.53	0.00	11.53		
B'Sharif-Balia (D/C)	151	176	253	0	4.66	0.00	4.66		
Pusaui-Balia	237	287	345	0	3.41	0.00	3.41		
Gaya-Fatehpur (765 Kv)	0	0	0	0	0.00	0.00	0.00		
Pusaui-Sahupuri	215	170	215	0	4.37	0.00	4.37		
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00		
Son Ngr-Rihand	0	0	0	0	0.00	0.00	0.00		
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00		
Sasaram - Fatehpur(765 KV)	206	339	389	0	7.17	0.00	7.17		
Sub Total ER	503	795			40.39	5.40	34.99		
Total IR Exch	4074	3965			121.97	20.69	101.29		

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)			Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR	
	31.61	1.64	33.25	11.20	-3.09	0.35	-1.62	0.79	-0.79

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
45.58	58.91	104.49	34.99	66.30	101.29	-10.60	7.39	-3.20

V(C). Inter National Exchange with Nepal [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	
132 KV Tanakpur - Mahendarnagar	-8	-24	0	27	0	0	0	-0.41	

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	0.00	0.15	3.43	32.61	61.55	21.08	12.18	1.89	NA

Frequency (Hz) <----->				Average Frequency Hz	Frequency Variation Index	Std. Dev. (Hz)	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time	50.03	0.06	0.07	50.31	49.96
50.32	17.04	49.78	19.25					

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	403	00:00	399	21:40	0.0	0.0
Gorakhpur	400	415	17:04	398	19:25	0.0	0.0	0.0	0.0
Bareilly	400	418	08:00	396	20:00	0.0	0.0	1.5	0.0
Kanpur	400	421	18:00	400	22:19	0.0	0.0	0.6	0.0
Dadri	400	424	17:07	402	22:32	77.6	77.6	0.8	0.0
Ballabgarh	400	425	18:04	403	22:28	0.0	0.0	12.3	0.0
Bawana	400	421	18:00	403	22:29	0.0	0.0	0.8	0.0
Bassi	400	422	18:06	398	23:08	0.0	0.0	1.1	0.0
Hissar	400	410	17:02	391	23:02	0.0	0.0	0.0	0.0
Moga	400	415	06:01	401	23:02	0.0	0.0	0.0	0.0
Abdullapur	400	418	18:02	396	22:43	0.0	0.0	0.0	0.0
Nalagarh	400	416	03:33	403	22:22	0.0	0.0	0.0	0.0
Kishenpur	400	418	02:40	410	19:25	0.0	0.0	0.0	0.0
Wagoora	400	414	14:02	395	18:42	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	0	00:00	9999	00:00	0.0	0.0
Balia	765	774	17:04	745	22:27	0.0	0.0	0.0	0.0
Moga	765	798	18:05	767	22:27	0.0	0.0	0.0	0.0
Agra	765	789	18:05	748	22:22	0.0	0.0	0.0	0.0
Bhiwani	765	802	18:01	768	22:22	0.0	0.0	1.1	0.0
Unnao	765	778	18:03	738	23:18	0.0	6.8	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	486.49	627.57	480.85	481.64	715.23	655.11
Pong	426.72	384.05	405.41	352.07	403.26	296.79	165.79	159.76
Tehri	829.79	740.04	754.05	77.00	747.00	34.10	142.49	290.00
Koteswar	612.50	598.50	611.20	5.20	610.44	4.95	290.00	298.00
Chamera-I	760.00	748.75	754.93	0.00	0.00	0.00	408.47	346.90
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	523.20	10.76	520.73	7.12	325.23	420.58

* 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	32	539	0	23	317	0	0.84	12.09	12.93
Delhi	672	-162	-16	514	-69	-16	13.98	-2.25	11.73
Haryana	-33	184	0	-8	135	0	-1.89	3.80	1.91
HP	-661	-475	0	-509	-869	0	-13.43	-14.66	-28.09
J&K	-409	0	0	-297	148	0	-7.38	0.73	-6.66
CHD	0	0	0	0	0	0	0.24	-0.03	0.21
Rajasthan	-121	712	2	-117	577	2	-2.86	15.55	12.69
UP	1030	0	0	920	0	0	22.28	0.00	22.28
Uttarakhand	74	53	0	74	114	0	1.76	1.71	3.48
Total	582	851	-14	599	353	-14	13.54	16.95	30.49

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	44	23	611	311	0	0
Delhi	672	475	157	-370	-16	-16
Haryana	-8	-138	185	135	0	0
HP	-509	-661	-245	-937	0	0
J&K	-158	-409	221	-51	0	0
CHD	30	0	0	-10	0	0
Rajasthan	-117	-121	942	294	2	2
UP	1046	842	0	0	0	0
Uttarakhand	74	74	115	4	0	0

XI. System Constraints:**XII. Grid Disturbance / Any Other Significant Event:****XIII. Weather Conditions For 17.05.2015 :**

Rainfall in Jammu and Kashmir

XIV. Synchronisation of new generating units :**XV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :**

0.00

XVI. Tripping of lines in pooling stations :**XVII. Complete generation loss in a generating station :**