

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 22.11.2017

Date of Reporting : 23.11.2017



I. Regional Availability/Demand:

Evening Peak (19:00 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
40119	1194	41313	49.98	30027	285	30312	50.01	833.62	14.40

* 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)							UI [OD:(+ve), UD:(-ve)]				
	Thermal	Hydro	Gas/Naptha/Diesal	Solar	Wind	Other (Biomass/Small hydro/Co-Generation etc.)	Total	Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
Punjab	72.87	8.41	0.00	0.04	0.00	0.22	81.54	12.15	12.76	0.60	94.30	0.00
Haryana	30.48	0.46	7.50	0.00	0.00	0.00	38.44	68.67	70.76	2.08	109.20	0.19
Rajasthan	106.53	4.62	4.32	2.48	3.45	4.71	126.11	63.23	68.97	5.75	195.08	3.85
Delhi	0.00	0.00	18.12	0.00	0.00	0.00	18.12	43.67	41.82	-1.85	59.94	0.03
UP	161.86	6.10	0.00	0.00	0.00	19.20	187.16	81.95	82.90	0.95	270.06	0.00
Uttarakhand	0.00	8.61	7.02	0.51	0.00	0.00	16.14	15.61	16.95	1.34	33.08	0.28
HP	0.00	4.49	0.00	0.00	0.00	1.93	6.42	18.38	19.92	1.54	26.34	0.04
J & K	0.00	4.69	0.00	0.00	0.00	0.00	4.69	37.08	37.75	0.68	42.44	10.01
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	3.18	-0.19	3.18	0.00
Total	371.74	37.38	36.96	3.03	3.45	26.06	478.62	344.10	355.00	10.90	833.62	14.40

* Shortage furnished by the respective constituent. \$ Others include UP Co-generation and JK Diesal

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(Hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	5117	0	57	-2437	2864	0	19	-1412	5117	19	0
Haryana	5948	275	129	-582	3834	0	144	-533	5948	19	275
Rajasthan	8933	422	427	-1176	7823	0	74	203	9971	8	216
Delhi	3216	0	51	-981	1577	0	27	-1250	3269	12	0
UP	11767	0	-120	-122	10344	0	0	86	11990	7	0
Uttarakhand	1643	0	-3	258	1118	0	-1	172	1786	7	0
HP	1334	0	48	188	779	0	0	304	1563	8	1
J&K	1988	497	134	751	1613	285	15	781	2007	20	502
Chandigarh	172	0	-19	-20	75	0	-28	0	184	8	0
Total	40119	1194	703	-4120	30027	285	249	-1648	40119	19	1194

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

Diversity is 1.04

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

III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule		UI Net MU
							Net MU	Net MU	
A. NTPC									
Singrauli STPS (5*200+2*500)	2000	900	1038	922	22.74	947	21.55		1.18
Rihand I STPS (2*500)	1000	923	882	906	19.77	824	19.92		-0.15
Rihand II STPS (2*500)	1000	943	909	860	20.28	845	20.08		0.21
Rihand III STPS (2*500)	1000	943	886	871	19.49	812	20.08		-0.58
Dadri I STPS (4*210)	840	769	246	234	6.63	276	6.73		-0.11
Dadri II STPS (2*490)	980	929	884	522	17.77	740	18.81		-1.04
Unchahar I TPS (2*210)	420	154	148	140	3.22	134	3.18		0.04
Unchahar II TPS (2*210)	420	366	312	256	7.24	301	7.37		-0.14
Unchahar III TPS (1*210)	210	190	179	115	3.68	153	3.90		-0.23
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00		0.00
ISTPP (Jhajhar) (3*500)	1500	948	934	580	18.49	771	19.06		-0.57
Dadri GPS (4*130.19+2*154.51)	830	806	178	115	3.60	150	3.79		-0.18
Anta GPS (3*88.71+1*153.2)	419	409	0	0	0.00	0	0.00		0.00
Auraiya GPS (4*111.19+2*109.30)	663	638	0	0	0.00	0	0.00		0.00
Dadri Solar(5)	5	1	0	0	0.02	1	0.02		0.00
Unchahar Solar(10)	10	2	0	0	0.04	2	0.04		0.00
Singrauli Solar(15)	15	2	0	0	0.06	2	0.06		0.00
KHEP(4*200)	800	792	861	0	3.08	128	2.75		0.33
Sub Total (A)	12612	9712	7457	5521	146	6087	147		-1.24
B. NPC									
NAPS (2*220)	440	410	447	451	9.86	411	9.81		0.05
RAPS- B (2*220)	440	401	443	447	9.63	401	9.50		0.13
RAPS- C (2*220)	440	410	452	451	10.02	418	9.84		0.18
Sub Total (B)	1320	1221	1342	1349	29.51	1230	29.15		0.37
C. NHPC									
Chamera I HPS (3*180)	540	534	506	0	1.78	74	1.60		0.18
Chamera II HPS (3*100)	300	300	298	0	1.45	61	1.30		0.15
Chamera III HPS (3*77)	231	231	231	0	0.91	38	0.77		0.14
Bairasul HPS(3*60)	180	57	122	0	0.40	17	0.42		-0.02
Salal-HPS (6*115)	690	114	328	92	2.99	124	2.74		0.25
Tanakpur-HPS (3*31.4)	94	35	61	61	0.89	37	0.84		0.05
Uri-I HPS (4*120)	480	79	210	35	2.21	92	1.90		0.31
Uri-II HPS (4*60)	240	57	42	52	1.48	62	1.38		0.10
Dhauliganga-HPS (4*70)	280	61	210	0	1.57	66	1.47		0.10
Dulhasti-HPS (3*130)	390	387	397	0	3.59	149	3.30		0.29
Sewa-II HPS (3*40)	120	79	57	0	0.22	9	0.24		-0.02
Parbati 3 (4*130)	520	28	261	0	0.60	25	0.58		0.02
Sub Total (C)	4065	1963	2721	241	18	753	17		1.55
D. SJVNL									
NJPC (6*250)	1500	1497	1504	0	8.89	370	8.79		0.10
Rampur HEP (6*68.67)	412	412	410	0	2.48	103	2.45		0.03
Sub Total (D)	1912	1910	1914	0	11.37	474	11.24		0.13
E. THDC									
Tehri HPS (4*250)	1000	988	994	0	6.39	266	6.24		0.15
Koteshwar HPS (4*100)	400	91	201	92	2.21	92	2.19		0.02
Sub Total (E)	1400	1079	1195	92	8.60	358	8.43		0.17
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	530	1079	374	12.94	539	12.72		0.23
Dehar HPS (6*165)	990	173	495	0	4.33	180	4.16		0.17
Pong HPS (6*66)	396	156	264	66	3.72	155	3.75		-0.03
Sub Total (F)	2765	860	1838	440	21.00	875	20.63		0.37
G. IPP(s)/JV(s)									
Allain DuhanganHPS(IPP) (2*96)	192	0	159	0	0.65	27	0.60		0.05
Karcham Wangtoo HPS(IPP) (4*250)	1000	0	825	0	4.83	201	4.74		0.09
Malana Stg-II HPS (2*50)	100	0	0	0	0.32	13	0.30		0.01
Shree Cement TPS (2*150)	300	0	1	1	0.02	1	0.63		-0.61
Budhil HPS(IPP) (2*35)	70	0	69	0	0.21	9	0.21		0.00
Sainj HPS (IPP) (2*50)	100	0	0	0	0.21	9	0.50		0.00
Sub Total (G)	1762	0	1055	1	6.03	251	6.48		-0.45
H. Total Regional Entities (A-G)	25837	16744	17521	7643	240.68	10028	239.79		0.89
I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)			

Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	0.10	4	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.02	1	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.08	3	
	Goindwal(GVK) (2*270)	540	246	145	4.82	201	
	Rajpura (2*700)	1400	1320	920	29.99	1250	
	Talwandi Saboo (3*660)	1980	1841	924	37.87	1578	
	Thermal (Total)	6560	3407	1989	72.87	3036	
	Total Hydro	1000	334	339	8.41	350	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	9	9	0.22	9	
	Solar	859	0	0	0.04	2	
	Renewable(Total)	1162	9	9	0.26	11	
	Total Punjab	8722	3750	2337	81.54	3398	
	Haryana	Panipat TPS (2*210+2*250)	920	225	198	5.20	217
DCRTPP (Yamuna nagar) (2*300)		600	556	457	12.27	511	
Faridabad GPS (NTPC)(2*137.75+1*156)		432	321	296	7.50	312	
RGTPP (kheadar) (IPP) (2*600)		1200	0	0	0.00	0	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	609	367	13.01	542	
Thermal (Total)		4497	1711	1318	37.98	1582	
Total Hydro		62	13	14	0.46	19	
Wind Power		0	0	0	0.00	0	
Biomass		106	0	0	0.00	0	
Solar		50	0	0	0.00	0	
Renewable(Total)		156	0	0	0.00	0	
Total Haryana		4715	1724	1332	38.44	1602	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	703	703	16.59	691
	suratgarh TPS (6*250)	1500	451	190	9.33	389	
	Chabra TPS (4*250)	1000	1182	1186	28.00	1167	
	Chabra TPS (1*660)	660	0	0	0.00	0	
	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	185	186	4.32	180	
	RAPS A (NPC) (1*100+1*200)	300	197	239	4.25	177	
	Barsingsar (NLC) (2*125)	250	224	224	5.25	219	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	779	721	17.19	716	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	559	849	17.15	715	
	Kawai(Adani) (2*660)	1320	618	438	13.03	543	
	Thermal (Total)	9536	4898	4736	115.10	4796	
	Total Hydro	550	133	131	4.62	192	
	Wind power	4292	176	181	3.45	144	
	Biomass	102	19	19	0.46	19	
	Solar	1995	0	0	2.48	104	
	Renewable/Others (Total)	6389	195	200	6.39	266	
Total Rajasthan	16475	5226	5067	126.11	5254		
UP	Anpara TPS (3*210+2*500)	1630	1307	1135	32.20	1342	
	Obra TPS (2*50+2*94+5*200)	1194	619	550	14.60	608	
	Paricha TPS (2*110+2*220+2*250)	1160	435	430	10.30	429	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaganj TPS (1*60+1*105+2*250)	665	319	317	7.70	321	
	Tanda TPS (NTPC) (4*110)	440	275	269	6.86	286	
	Roza TPS (IPP) (4*300)	1200	753	737	18.70	779	
	Anpara-C (IPP) (2*600)	1200	759	631	22.20	925	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	454	325	10.50	438	
	Lalitpur TPS(3*660)	1980	750	744	17.90	746	
	Bara(2*660)	1320	734	735	20.90	871	
	Thermal (Total)	12449	6405	5873	161.86	6744	
	Vishnuparyag HPS (IPP)(4*110)	440	127	120	2.90	121	
	Alakanada(4*82.5)	330	84	83	2.00	83	
	Other Hydro	527	92	30	1.20	50	
	Cogeneration	981	800	800	19.20	800	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	0.00	0	
	Renewable(Total)	128	0	0	0.00	0	
	Total UP	14855	7508	6906	187.16	7799	
	Uttarakhand	Other Hydro	1250	580	243	8.61	359
Total Gas		450	293	294	7.02	292	
Wind Power		0	0	0	0.00	0	
Biomass		127	0	0	0.00	0	
Solar		100	0	0	0.51	21	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
Renewable(Total)		407	0	0	0.51	21	
Total Uttarakhand		2107	873	537	16.14	672	
Delhi		Rajghat TPS (2*67.5)	135	0	0	0.00	0
		Delhi Gas Turbine (6x30 + 3x34)	282	68	68	1.90	79
	Pragati Gas Turbine (2x104+ 1x122)	330	270	275	6.62	276	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	379	380	9.60	400	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	717	724	18.12	755	
	Wind Power	0	0	0	0.00	0	
	Biomass	16	0	0	0.00	0	
	Solar	2	0	0	0.00	0	
	Renewable(Total)	18	0	0	0.00	0	
Total Delhi	2935	717	724	18.12	755		
HP	Baspa HPS (IPP) (3*100)	300	30	30	1.46	61	
	Malana HPS (IPP) (2*43)	86	51	0	0.32	13	
	Other Hydro (>25MW)	372	103	104	2.71	113	
	Wind Power	0	0	0	0.00	0	
	Biomass	0	0	0	0.00	0	
	Solar	0	0	0	0.00	0	
	Small Hydro (< 25 MW)	486	106	58	1.93	80	
	Renewable(Total)	486	106	58	1.93	80	
Total HP	1244	290	192	6.42	268		
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	147	147	3.53	147	
	Other Hydro/IPP(including 98 MW Small Hydro)	308	64	27	1.16	48	
	Gas/Diesel/Others	190	0	0	0.00	0	
	Wind Power	0	0	0	0.00	0	

Biomass	0	0	0	0.00	0
Solar	0	0	0	0.00	0
Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
Renewable(Total)	98	0	0	0.00	0
Total J & K	1398	211	174	5	195
Total State Control Area Generation	52451	20299	17269	478.62	19942
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4941	5592	136.23	5676
Total Regional Availability(Gross)	78288	42761	30504	855.53	35647

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9513	772	68.14	2830
State Control Area Hydro	7468	2157	1620	37.38	1951
Total Regional Hydro	19702	11669	2393	105.52	4782

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.12	5
State Control Area Renewable	8844	310	267	9.08	379
Total Regional Renewable	8874	310	267	9.20	383

VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	400	-500	0	500	0.00	10.24	-10.24
765 KV Gwalior-Agra (D/C)	959	1861	2094	0	37.88	0.00	37.88
400 KV Zerda-Kankroli	-63	-52	46	188	0.00	1.54	-1.54
400 KV Zerda-Bhinmal	-2	48	252	80	1.29	0.00	1.29
220 KV Auraiya-Malanpur	-115	-45	0	115	0.00	1.80	-1.80
220 KV Badod-Kota/Morak	-87	-56	0	199	0.00	1.87	-1.87
Mundra-Mohindergarh(HVDC Bipole)	702	1198	1203	0	20.61	0.00	20.61
400 KV RAPP- Sujalpur	126	241	470	80	4.52	0.00	4.52
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	329	717	1020	0	16.37	0.00	16.37
+/- 800 kV HVDC Champa-Kurushetra	1000	500	3000	0	17.38	0	17.38
Sub Total WR	3249	3912			98.06	15.45	82.61
400 kV Sasaram - Varanasi	196	177	200	0	4.30	0.00	4.30
400 kV Sasaram - Allahabad	38	66	100	0	1.47	0.00	1.47
400 KV MZP- GKP (D/C)	59	294	474	0	6.47	0.00	6.47
400 KV Patna-Balia(D/C) X 2	567	674	899	0	17.01	0.00	17.01
400 KV B'Sharif-Balia (D/C)	30	88	146	0	1.59	0.00	1.59
765 KV Gaya-Balia	41	162	189	0	3.22	0.00	3.22
765 KV Gaya-Varanasi (D/C)	109	-176	109	330	2.48	0.00	2.48
220 KV Pusauli-Sahupuri	100	66	108	0	2.04	0.00	2.04
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	-36	0	40	0.00	0.38	-0.38
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-198	-82	106	204	0.00	1.04	-1.04
400 KV Motihari -GKP (D/C)	-206	-132	0	222	0.00	3.80	-3.80
400 kV B'Sharif - Varanasi (D/C)	156	29	183	83	1.30	0.00	1.30
+/- 800 KV HVDC Alipurduar-Agra	300	0	300	0	5.24	0.00	5.24
Sub Total ER	1192	1130			45.11	5.22	39.89
+/- 800 KV HVDC BiswanathCharialli-Agra	500	550	700	0.00	13.74	0.00	13.74
Sub Total NER	500	550			13.74	0.00	13.74
Total IR Exch	4941	5592			156.91	20.67	136.23

VI(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
45.02	1.08	46.10	0.73	-38.62	-16.70	-14.98	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
30.13	105.26	135.39	53.63	82.61	136.23	23.50	-22.65	0.85

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	0	0	27	0	0	-0.17

VII. 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	0.07	11.49	57.88	77.41	9.55	2.05	0.00	0.00

Frequency (Hz)				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
Freq	Time	Freq	Time	Hz	Index				
50.16	22.00	49.79	6.30	49.98	0.042	0.062	50.10	49.86	22.59

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	409	1:56	404	10:58	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	4:01	401	17:23	0.0	0.0	0.0	0.0	0.0
Bareilly(PC)400kV	400	419	2:57	406	12:12	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	2:03	408	17:27	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	4:00	411	9:54	0.0	0.0	35.2	0.0	35.2
Ballabhgarh	400	424	4:00	407	9:52	0.0	0.0	26.4	0.0	26.4
Bawana	400	427	3:59	412	6:30	0.0	0.0	43.7	0.0	43.7
Bassi	400	427	20:59	399	6:23	0.0	0.0	15.9	0.0	15.9
Hissar	400	424	4:02	404	6:22	0.0	0.0	17.5	0.0	17.5
Moga	400	423	4:00	404	6:24	0.0	0.0	9.7	0.0	9.7
Abdullapur	400	430	1:09	410	17:53	0.0	0.0	42.9	0.0	42.9
Nalagarh	400	434	22:01	412	17:51	0.0	0.0	45.4	16.7	45.4
Kishenpur	400	423	2:58	400	17:49	0.0	0.0	10.5	0.0	10.5
Wagoora	400	405	13:03	375	18:36	5.3	59.6	0.0	0.0	5.3
Amritsar	400	431	4:02	410	17:55	0.0	0.0	40.0	0.3	40.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	3:59	405	17:54	0.0	0.0	31.7	0.0	31.7

Rishikesh	400	419	4:01	403	10:52	0.0	0.0	0.0	0.0	0.0
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VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Voltage Deviation Index
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	774	0:46	744	9:18	0.0	0.0	0.0	0.0	0.0
Balia	765	790	4:02	764	9:18	0.0	0.0	0.0	0.0	0.0
Moga	765	804	19:56	776	17:54	0.0	0.0	0.4	0.0	0.4
Agra	765	796	19:58	763	6:25	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	19:54	777	9:16	0.0	0.0	25.2	0.0	25.2
Unnao	765	780	4:01	755	10:09	0.0	0.0	0.0	0.0	0.0
Lucknow	765	796	4:02	772	9:18	0.0	0.0	0.0	0.0	0.0
Meerut	765	814	19:56	770	6:27	0.0	0.0	7.8	0.0	7.8
Jhatikara	765	806	4:00	775	9:18	0.0	0.0	24.2	0.0	24.2
Bareilly 765 kV	765	799	4:01	775	9:19	0.0	0.0	0.0	0.0	0.0
Anta	765	792	19:54	768	6:20	0.0	0.0	0.0	0.0	0.0
Phagi	765	800	19:55	766	6:23	0.0	0.0	0.0	0.0	0.0

Note : '0' in Max / Min Col -> Telemetry Outage

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)	nflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	505.19	1312.37	496.28	948.89	181.60	369.92
Pong	426.72	384.05	415.09	680.86	412.38	577.87	50.60	229.17
Tehri	829.79	740.04	819.95	1001.27	819.05	982.26	43.13	142.00
Koteshwar	612.50	598.50	610.53	4.90	609.99	4.60	142.00	145.73
Chamera-I	760.00	748.75	756.82	0.00	0.00	0.00	53.17	47.89
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	510.35	3.20	510.50	2.87	41.95	133.18

* NA: Not Available

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

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)			
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX (MU)	PXIL (MU)	Total (MU)
Punjab	-748	-664	0	-748	-1689	0	-18.96	-26.11	-45.08	
Delhi	-970	-280	0	-571	-411	0	-18.25	-4.04	-22.29	
Haryana	-701	168	0	-701	119	0	-23.09	1.27	-21.83	
HP	215	90	0	210	-22	0	7.27	-2.43	4.84	
J&K	497	283	0	497	254	0	11.94	5.58	17.52	
CHD	0	0	0	0	-20	0	0.00	-0.22	-0.22	
Rajasthan	177	27	0	-8	-1168	0	2.86	-4.07	-1.22	
UP	86	0	0	-54	-68	0	-4.56	-1.34	-5.90	
Uttarakhand	120	52	0	120	138	0	3.06	1.53	4.59	
Total	-1323	-324	0	-1254	-2866	0	-39.74	-29.84	-69.58	

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-748	-850	-664	-1790	0	0
Delhi	-570	-970	69	-601	0	0
Haryana	-701	-1377	169	-572	0	0
HP	422	210	93	-809	0	0
J&K	497	497	479	-241	0	0
CHD	0	0	15	-82	0	0
Rajasthan	177	-8	973	-1520	0	0
UP	86	-540	0	-72	0	0
Uttarakhand	178	120	255	-327	0	0

XI. System Reliability Indices(Violation of TTC and ATC):

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	0	10
Haryana	3	27
Rajasthan	5	35
Delhi	3	27
UP	0	11
Uttarakhand	1	13
HP	7	26
J & K	3	26
Chandigarh	5	37

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 22.11.2017 :

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

- 1.FSC-II at Kala Amb first time charged at 16:41 hrs. on 22.11.17.
2. 400 KV Bikaner-Sikar ckt.1,Raj, first time charged at 21:01 hrs. on 22.11.17 from Bikaner end only.

3.Bay No. 210 first time charged at 16:54 hrs. and Bay No. 211 first time charged at 17:14 hrs. at Kaithal PG sub-station on 22.11.17

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data (regarding drawal, generation, shortage, inter-regional flows and reservoir levels) of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 22.11.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER