

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009G0188682

Power Supply Position in Northern Region for 22.12.2017
Date of Reporting : 23.12.2017



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
44053	821	44873	50.03	30803	293	31096	50.00	909.59	10.47

*Half hourly (five 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	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total						
Punjab	57.31	11.12	0.00	0.05	0.00	0.12	68.60	35.07	35.91	0.84	104.51	0.00	
Haryana	61.99	0.11	0.00	0.00	0.00	0.00	62.10	61.81	63.79	1.98	125.89	0.19	
Rajasthan	109.99	3.79	3.46	0.37	6.59	4.91	129.11	74.80	76.94	2.14	206.06	0.00	
Delhi	0.00	0.00	13.49	0.00	0.00	0.00	13.49	53.96	53.31	-0.65	66.80	0.00	
UP	174.00	8.35	0.00	0.00	0.00	20.40	202.75	92.87	92.65	-0.23	295.39	0.00	
Uttarakhand	0.00	9.16	2.00	0.44	0.00	0.00	11.59	24.60	24.52	-0.08	36.11	0.00	
HP	0.00	3.88	0.00	0.00	0.00	1.81	5.68	21.54	22.07	0.53	27.75	0.00	
J & K	0.00	4.97	0.00	0.00	0.00	0.00	4.97	40.92	38.61	-2.31	43.58	10.27	
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64	3.49	-0.14	3.49	0.00	
Total	403.29	41.37	18.94	0.86	6.59	27.24	498.30	409.21	411.30	2.09	909.59	10.47	

* Shortage furnished by the respective constituent. Other includes UP Co-generation and JK Diesel

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	STO/AFX transaction	Demand Met	Shortage	UI	STO/AFX transaction			
Punjab	5432	0	140	-1315	2943	0	187	-860	5432	19	0
Haryana	6343	40	-152	-834	4143	0	157	-724	6727	7	113
Rajasthan	9444	0	229	-270	7630	0	88	118	10937	9	0
Delhi	3343	0	-63	-658	1571	0	48	-1043	3940	11	0
UP	13739	250	-366	-175	10748	0	-114	13	14302	18	100
Uttarakhand	1914	0	16	650	1186	0	-65	355	1972	8	0
HP	1538	0	149	406	837	0	-20	502	1538	9	0
J&K	2123	531	68	990	1659	293	-103	852	2123	19	531
Chandigarh	177	0	-35	-30	86	0	4	-30	213	9	0
Total	44053	821	-14	-1237	30803	293	182	-819	44053	19	821

* STO/A figures are at sellers boundary & FX figures are at regional boundary. # figures may not be at simultaneous hour.

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 Net MU	UI Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	1520	1665	1355	36.21	1509	35.53	0.68
Rihand I STPS (2*500)	1000	923	981	954	21.74	906	21.99	-0.26
Rihand II STPS (2*500)	1000	943	1019	922	22.71	946	22.31	0.40
Rihand III STPS (2*500)	1000	943	1006	861	22.27	928	22.05	0.22
Dadri I STPS (4*210)	840	769	456	437	11.76	490	11.60	0.16
Dadri II STPS (2*490)	980	929	845	510	16.88	704	17.44	-0.56
Unchahar I TPS (2*210)	420	350	336	375	6.97	290	7.26	-0.30
Unchahar II TPS (2*210)	420	383	375	416	7.79	325	7.65	0.13
Unchahar III TPS (1*210)	210	192	186	211	3.75	156	3.82	-0.07
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajjar) (3*500)	1500	995	1049	855	21.56	898	21.89	-0.33
Dadri GPS (4*130.19+2*164.51)	830	828	170	112	3.51	146	3.59	-0.08
Anta GPS (3*88.71+1*153.2)	419	418	0	0	0.00	0	0.00	0.00
Auraya GPS (4*111.19+2*109.30)	663	617	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	0.03	1	0.04	-0.01
Singrauli Solar(15)	15	3	0	0	0.05	2	0.07	-0.02
KHEP(4*200)	800	792	638	0	2.81	117	2.50	0.31
Sub Total (A)	12612	10604	8726	7008	178	7419	178	0.28
B. NPC								
NAPS (2*220)	440	414	443	453	9.83	410	9.90	-0.07
RAPS- B (2*220)	440	195	218	218	4.59	191	4.68	-0.09
RAPS- C (2*220)	440	417	460	462	10.02	418	10.00	0.02
Sub Total (B)	1320	1026	1121	1133	24.44	1018	24.58	-0.14
C. NHPC								
Chamera I HPS (3*180)	540	356	355	0	1.65	69	1.50	0.15
Chamera II HPS (3*100)	300	200	200	0	1.41	59	1.27	0.13
Chamera III HPS (3*77)	231	228	93	0	0.88	37	0.77	0.11
Bairasul HPS (3*60)	180	50	121	0	0.48	20	0.42	0.06
Salal-HPS (6*115)	690	97	345	35	2.71	113	2.32	0.39
Tanakpur-HPS (3*31.4)	94	25	31	28	0.63	26	0.60	0.03
Uri-I HPS (4*120)	480	101	250	65	2.66	111	2.43	0.23
Uri-II HPS (4*60)	240	64	85	74	1.62	68	1.54	0.08
Dhauliganga-HPS (4*70)	280	42	206	0	1.07	44	1.00	0.07
Dulhasti-HPS (3*130)	390	257	261	0	3.58	149	3.40	0.18
Sewa-II HPS (3*40)	120	79	72	0	0.26	11	0.24	0.02
Parbati 3 (4*130)	520	24	256	0	0.61	25	0.58	0.03
Sub Total (C)	4065	1523	2275	202	18	731	16	1.49
D. SJVNL								
NJPC (6*250)	1500	1497	1487	0	7.40	308	7.20	0.20
Rampur HEP (6*68.67)	412	412	397	0	2.05	85	2.01	0.04
Sub Total (D)	1912	1910	1884	0	9.44	393	9.21	0.23
E. THDC								
Tehri HPS (4*250)	1000	988	984	0	9.38	391	9.15	0.23
Koteswar HPS (4*100)	400	131	398	91	3.20	133	3.14	0.06
Sub Total (E)	1400	1119	1382	91	12.58	524	12.29	0.29
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	683	1198	406	16.40	683	16.38	0.02
Dehar HPS (6*165)	990	152	495	0	3.75	156	3.64	0.11
Pong HPS (6*66)	396	246	396	66	5.93	247	5.92	0.01
Sub Total (F)	2765	1081	2089	472	26.08	1087	25.94	0.15
G. IPP(s)/JV(s)								
Allain DuhanganHPS(IPP) (2*96)	192	0	51	0	0.46	19	0.46	0.00
Karchem Wantoo HPS(IPP) (4*250)	1000	0	625	0	3.91	163	3.79	0.12
Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS (2*150)	300	0	149	89	3.03	126	3.09	-0.06
Budhil HPS(IPP) (2*35)	70	0	0	0	0.19	8	0.18	0.01
Sainji HPS (IPP) (2*50)	100	0	0	0	0.41	0	0.41	0.00
Sub Total (G)	1762	0	825	89	7.59	316	7.52	0.07
H. Total Regional Entities (A-G)	25837	1762	18302	8994	275.73	11489	273.36	2.38

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average S entout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	-0.12	-5	
	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	-0.09	-4	
	Goindwal(GVK) (2*270)	540	246	145	5.04	210	
	Rajpura (2*700)	1400	1320	760	27.90	1162	
	Talwandi Saboo (3*660)	1980	1228	616	24.60	1025	
	Thermal (Total)	6560	2793	1521	57.31	2388	
	Total Hydro	1000	472	364	11.12	463	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.12	5	
	Solar	859	0	0	0.05	2	
	Renewable(Total)	1162	0	0	0.17	7	
	Total Punjab	8722	3265	1885	68.60	2858	
	Haryana	Paripat TPS (2*210+2*250)	920	229	201	5.32	222
		DCRTPP (Yamuna nagar) (2*300)	600	559	474	12.40	517
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	575	764	18.21	759	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1231	734	26.07	1086	
Thermal (Total)		4497	2594	2173	61.99	2583	
Total Hydro		62	3	6	0.11	5	
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	2597	2179	62.10	2588	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1122	933	24.89	1037
		suratgarh TPS (6*250)	1500	636	541	14.36	598
	Chabra TPS (4*250)	1000	697	582	15.82	659	
	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	145	149	3.46	144	
	RAPS A (NPC) (1*100+1*200)	300	192	238	4.44	185	
	Barsingsar (NLC) (2*125)	250	111	113	2.60	108	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	724	445	16.10	671	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	562	413	12.75	531	
	Kawai(Adani) (2*660)	1320	996	996	23.47	978	
	Thermal (Total)	9536	5185	4410	117.89	4912	
	Total Hydro	550	170	117	3.79	158	
	Wind power	4292	152	469	6.59	275	
	Biomass	102	20	20	0.47	20	
	Solar	1995	7	0	0.37	16	
	Renewable/Others (Total)	6389	179	489	7.43	310	
	Total Rajasthan	16475	5534	5016	129.11	5380	
UP	Anpara TPS (3*210+2*500)	1630	1359	10512	31.90	1329	
	Obra TPS (2*50+2*94+5*200)	1194	471	380	10.51	438	
	Paricha TPS (2*110+2*220+2*250)	1160	431	431	10.65	444	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqani TPS (1*60+1*105+2*250)	665	446	315	9.64	402	
	Tanda TPS (NTPC) (4*110)	440	385	270	8.36	348	
	Roza TPS (IPP) (4*300)	1200	564	564	13.91	579	
	Anpara-C (IPP) (2*600)	1200	1101	745	24.61	1025	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	472	321	10.05	419	
	Lalitpur TPS(3*660)	1980	1124	1125	32.38	1349	
	Bara(2*660)	1320	1000	735	22.00	917	
	Thermal (Total)	12449	7353	15398	174.00	7250	
	Vishnuparvaq_HPS (IPP)(4*110)	440	87	87	2.08	87	
	Alakanada(4*82.5)	330	82	82	1.49	62	
	Other Hydro	527	272	184	4.79	200	
	Cogeneration	981	850	850	20.40	850	
	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	8644	16601	202.75	8448		
Uttarakhand	Other Hydro	1250	675	314	9.16	382	
	Total Gas	450	66	176	2.00	83	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.44	18	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.44	18	
	Total Uttarakhand	2107	741	490	11.59	483	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	40	40	0.85	35	
	Pragati Gas Turbine (2x104+ 1x122)	330	260	274	6.47	269	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	263	249	6.17	257	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	564	563	13.49	562	
	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	564	563	13.49	562		

HP	Baspa HPS (IPP) (3*100)	300	107	0	1.35	56	
	Malana HPS (IPP) (2*43)	86	38	0	0.21	9	
	Other Hydro (>25MW)	372	122	54	2.31	96	
	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	120	47	1.81	75	
	Renewable(Total)	486	120	47	1.81	75	
	Total HP	1244	387	101	5.68	237	
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	148	148	3.55	148
		Other Hydro/IPP(including 98 MW Small Hydro)	308	68	49	1.42	59
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	216	197	5	207	
Total State Control Area Generation		52451	21948	27033	498.30	20762	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]							
Total Regional Availability(Gross)	78288	48334	44215	930.05	38752		

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8944	765	73.02	3035
State Control Area Hydro	7468	2430	1628	41.37	1901
Total Regional Hydro	19702	11374	2393	114.40	4936

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.10	4
State Control Area Renewable	8844	299	536	9.85	410
Total Regional Renewable	8874	299	536	9.94	414

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	100	-200	250	250	2.01	2.34	-0.33
765 KV Gwalior-Agra (D/C)	1593	1966	2608	0	40.25	0.00	40.25
400 KV Zerda-Kankroli	-168	-90	18	289	0.00	3.30	-3.30
400 KV Zerda-Bhimnal	-89	30	166	228	0.00	0.84	-0.84
220 KV Auraja-Malanpur	-71	-56	0	118	0.00	1.92	-1.92
220 KV Badod-Kota/Morak	-84	-5	0	109	0.00	0.83	-0.83
Mundra-Mohindergarh(HVDC Bipole)	2004	1202	2507	0	39.99	0.00	39.99
400 KV RAPPCC-Sujalpur	167	148	320	0	4.23	0.00	4.23
400 KV Vindhychal-Rihand	945	817	0	982	0.00	22.47	-22.47
765 kV Phagi-Gwalior (D/C)	480	1107	1423	0	22.91	0.00	22.91
+/- 800 kV HVDC Champa-Kurushetra	1500	1000	1500	0	21.29	0	21.29
Sub Total WR	6377	5919			130.67	31.70	98.98
400 kV Sasaram - Varanasi	-97	31	181	97	2.28	0.00	2.28
400 kV Sasaram - Allahabad	-139	-26	65	139	0.11	0.00	0.11
400 kV MZP- GKP (D/C)	150	291	550	0	5.09	0.00	5.09
400 kV Patna-Balia(D/C) X 2	692	788	1016	0	17.32	0.00	17.32
400 kV B'Sharif-Balia (D/C)	69	110	206	0	2.93	0.00	2.93
765 KV Gaya-Balia	192	205	275	0	5.20	0.00	5.20
765 KV Gaya-Varanasi (D/C)	276	244	636	0	8.06	0.00	8.06
220 KV Pusauli-Sahupuri	131	87	142	0	2.90	0.00	2.90
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	0	0	0	0	0.00	0.51	-0.51
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-32	-118	172	165	0.38	0.00	0.38
400 KV Motihari -GKP (D/C)	-256	-176	0	272	0.00	4.88	-4.88
400 kV B'Sharif - Varanasi (D/C)	21	-17	199	82	0.83	0.00	0.83
+/- 800 KV HVDC Alipurduar-Agra	0	150	150	0	5.71	0.00	5.71
Sub Total ER	1007	1569			50.81	5.40	45.41
+/- 800 KV HVDC BiswanathChariali-Agra	700	700	700	0.00	11.63	0.00	11.63
Sub Total NER	700	700			11.63	0.00	11.63
Total IR Exch	8084	8188			193.11	37.09	156.02

VI(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
44.74	0.41	45.15	-2.87	-41.27	0.39	9.06	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
42.67	122.87	165.53	57.04	98.98	156.02	14.38	-23.89	-9.51

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

Element	Peak(19:00 Hrs)		Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	Off Peak(03:00 Hrs)	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-37	-22	0	41	0	1	-0.81

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	0.54	15.05	69.32	77.65	6.27	1.30	0.00	0.00

Frequency (Hz)				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.16	12.02	49.77	9.39	49.97	0.052	0.064	50.04	49.83	22.35

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	>420 kV	>430 kV	
Rihand	400	404	2:01	398	5:43	0.0	0.0	0.0	0.0
Gorakhpur	400	418	2:03	399	17:53	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	416	23:51	119	19:41	29.7	29.7	0.0	29.7
Kanpur	400	422	2:02	409	9:34	0.0	0.0	4.1	0.0
Dadri	400	426	2:02	410	11:49	0.0	0.0	23.5	0.0
Ballabgarh	400	423	2:16	406	6:26	0.0	0.0	9.1	0.0
Bawana	400	427	2:44	409	12:15	0.0	0.0	29.8	0.0
Bassi	400	422	4:02	398	6:23	0.0	0.0	2.1	0.0
Hissar	400	419	19:53	402	6:22	0.0	0.0	0.0	0.0
Moga	400	420	19:40	404	12:40	0.0	0.0	0.0	0.0
Abdullapur	400	428	2:02	414	9:41	0.0	0.0	47.9	0.0
Nalagarh	400	428	2:02	413	7:36	0.0	0.0	39.0	0.0
Kishenpur	400	416	21:44	400	7:13	0.0	0.0	0.0	0.0
Wagoora	400	395	22:01	377	10:48	11.3	94.9	0.0	11.3
Amritsar	400	426	2:02	410	9:47	0.0	0.0	34.1	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	421	23:46	406	7:45	0.0	0.0	0.9	0.0
Rishikesh	400	415	2:02	396	9:16	0.0	0.0	0.0	0.0

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	>820 kV	
Fatehpur	765	781	17:01	756	6:13	0.0	0.0	0.0	0.0
Balia	765	788	2:44	761	17:56	0.0	0.0	0.0	0.0
Moga	765	802	19:52	763	5:38	0.0	0.0	0.4	0.0
Agra	765	795	17:02	767	5:40	0.0	0.0	0.0	0.0
Bhiwani	765	801	17:04	775	6:25	0.0	0.0	2.5	0.0
Unnao	765	778	2:44	749	17:55	0.0	0.0	0.0	0.0
Lucknow	765	796	2:32	767	17:54	0.0	0.0	0.0	0.0
Meerut	765	806	19:52	772	6:28	0.0	0.0	4.4	0.0
Jhatikara	765	803	2:44	769	5:40	0.0	0.0	5.2	0.0
Bareilly 765 kV	765	799	2:44	768	9:39	0.0	0.0	0.0	0.0
Anta	765	793	19:54	764	6:01	0.0	0.0	0.0	0.0
Phagi	765	800	19:54	756	6:02	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)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	500.82	1127.29	490.24	738.95	204.82	483.14
Pong	426.72	384.05	411.49	544.90	409.22	474.29	74.33	380.63
Tehri	829.79	740.04	813.35	869.27	811.70	836.28	46.80	215.00
Koteshwar	612.50	598.50	610.46	4.78	610.97	5.07	215.00	211.78
Chamera-I	760.00	748.75	758.29	0.00	0.00	0.00	48.70	44.31
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	506.30	3.80	506.19	2.88	48.50	149.90

* 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)		Total (MU)
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	
Punjab	-860	0	0	-860	-455	0	-21.65	-3.47	-25.13
Delhi	-797	-247	0	-626	-32	0	-17.01	0.90	-16.11
Haryana	-900	176	0	-920	85	0	-27.96	2.32	-25.65
HP	395	107	0	377	29	0	12.17	-1.51	10.65
J&K	793	59	0	793	198	0	18.67	0.04	18.71
CHD	-30	0	0	-30	0	0	-0.36	0.12	-0.24
Rajasthan	-101	218	0	-101	-169	0	-0.56	8.11	7.55
UP	49	-36	0	-109	-66	0	-10.94	-1.45	-12.39
Uttarakhand	219	135	0	219	431	0	5.41	6.61	12.02
Total	-1232	413	0	-1258	20	0	-42.24	11.66	-30.59

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-860	-961	0	-809	0	0
Delhi	-577	-797	609	-247	0	0
Haryana	-900	-1527	180	1	0	0
HP	675	377	107	-811	0	0
J&K	793	763	287	-496	0	0
CHD	0	-30	39	-30	0	0
Rajasthan	85	-101	1711	-200	0	0
UP	49	-1131	-36	-72	0	0
Uttarakhand	249	219	557	102	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%
----------------	-------

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	1	16
Haryana	0	11
Rajasthan	3	37
Delhi	3	44
UP	0	11
Uttarakhand	2	19
HP	4	34
J & K	3	29
Chandigarh	4	33

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 22.12.2017 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1. 765/400 kV Bus-2 at Ajmer PG was charged for the first time at 1518Hrs.
2. 240 MVAR 765kV Bus-Reactor-1 at Ajmer PG was charged for the first time at 1616Hrs.
3. 400KV Ajmer (PG)-Ajmer(RRVPNL)-2 was charged for the first time at 1737Hrs.
4. 400KV Bus-Reactor-2 at Ajmer(PG) was charged for the first time at 1737Hrs.
5. 400KV Bus-1 at Ajmer (PG) was charged for the first time at 1744Hrs.
6. 400KV Ajmer (PG)-Ajmer(RRVPNL)-1 was charged for the first time at 1839Hrs.

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 : 22.12.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER