

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GH188682

Power Supply Position in Northern Region for 23.12.2017
Date of Reporting : 24.12.2017



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
43398	532	43930	50.02	31203	295	31498	49.98	896.54	11.51

*Half hourly flow 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	47.38	11.34	0.00	0.05	0.00	0.12	58.90	40.87	41.56	0.70	100.46	0.00
Haryana	60.77	0.10	0.00	0.00	0.00	0.00	60.87	63.93	65.06	1.13	125.93	0.24
Rajasthan	114.43	4.57	1.89	0.00	2.04	4.78	127.69	78.04	80.65	2.60	208.34	0.32
Delhi	0.01	0.00	13.46	0.00	0.00	0.00	13.47	49.52	48.71	-0.80	62.18	0.00
UP	169.31	8.16	0.00	0.00	0.00	20.40	197.87	90.45	91.15	0.70	289.02	0.44
Uttarakhand	0.00	10.23	1.47	0.50	0.00	0.00	12.20	23.55	22.86	-0.68	35.06	0.00
HP	0.00	3.44	0.00	0.00	0.00	1.77	5.21	22.25	22.55	0.30	27.76	0.00
J & K	0.00	4.96	0.00	0.00	0.00	0.00	4.96	41.13	39.54	-1.59	44.50	10.51
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	3.29	-0.36	3.29	0.00
Total	391.90	42.80	16.81	0.55	2.04	27.07	481.17	413.37	415.37	2.01	896.54	11.51

* 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 (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	4740	0	86	-1019	3016	0	-71	-809	5024	8	0
Haryana	6487	0	-152	-763	4141	0	112	-728	6618	7	188
Rajasthan	9398	0	157	114	7890	0	221	159	11061	8	0
Delhi	3138	0	-49	-635	1560	0	-10	-1087	3699	11	0
UP	14005	0	-411	-185	10786	0	364	3	14005	19	0
Uttarakhand	1926	0	82	624	1185	0	-41	345	1926	19	0
HP	1403	0	-54	435	869	0	-54	501	1546	9	0
J&K	2127	532	71	990	1670	295	-110	852	2127	19	532
Chandigarh	174	0	-26	9	86	0	3	-30	199	9	0
Total	43398	532	-296	-431	31203	295	414	-796	43398	19	532

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

III. Regional Entities :

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
Rihand I STPS (2*500)	1000	911	949	978	21.38	891	21.80	-0.42	
Rihand II STPS (2*500)	1000	943	1014	988	22.88	954	22.45	0.44	
Rihand III STPS (2*500)	1000	943	1023	897	22.38	933	21.98	0.40	
Dadri I STPS (4*210)	840	769	798	458	12.56	523	11.47	1.09	
Dadri II STPS (2*490)	980	929	903	519	17.15	715	16.79	0.36	
Unchahar I TPS (2*210)	420	350	374	368	7.10	296	7.24	-0.14	
Unchahar II TPS (2*210)	420	383	400	390	7.66	319	7.58	0.07	
Unchahar III TPS (1*210)	210	192	192	147	3.67	153	3.73	-0.07	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	1031	1046	889	21.90	912	22.16	-0.26	
Dadri GPS (4*130.19+2*154.51)	830	841	121	113	3.44	143	3.55	-0.11	
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	0.04	2	0.04	0.00	
Singrauli Solar(15)	15	3	0	0	0.07	3	0.06	0.00	
KHEP(4*200)	800	792	0	0	2.68	112	2.40	0.28	
Sub Total (A)	12612	10641	8478	7340	179	7459	176	2.55	
B. NPC	NAPS (2*220)	440	412	451	449	9.91	413	9.85	0.06
RAPS- B (2*220)	440	194	216	218	4.59	191	4.66	-0.07	
RAPS- C (2*220)	440	415	461	462	10.09	420	9.96	0.13	
Sub Total (B)	1320	1021	1128	1129	24.59	1025	24.47	0.12	
C. NHPC	Chamera I HPS (3*180)	540	356	359	0	1.64	68	1.50	0.14
Chamera II HPS (3*100)	300	200	204	0	1.34	56	1.18	0.16	
Chamera III HPS (3*77)	231	228	100	0	0.84	35	0.70	0.14	
Bairasuli HPS(3*60)	180	50	122	0	0.51	21	0.36	0.15	
Salal-HPS (6*115)	690	96	345	30	2.67	111	2.31	0.36	
Tanakpur-HPS (3*31.4)	94	25	31	25	0.62	26	0.61	0.01	
Uri-I HPS (4*120)	480	118	251	110	3.07	128	2.84	0.22	
Uri-II HPS (4*60)	240	64	40	74	1.67	70	1.54	0.13	
Dhauliganga-HPS (4*70)	280	42	216	0	1.08	45	1.00	0.08	
Dulhasti-HPS (3*130)	390	257	262	0	3.39	141	3.20	0.19	
Sewa-II HPS (3*40)	120	79	81	0	0.52	22	0.50	0.02	
Parbati 3 (4*130)	520	24	256	0	0.59	25	0.58	0.01	
Sub Total (C)	4065	1540	2267	240	18	748	16	1.63	
D.SJVNL	NJPC (6*250)	1500	1497	1495	0	7.37	307	7.20	0.17
Rampur HEP (6*68.67)	412	412	409	0	2.05	85	2.01	0.04	
Sub Total (D)	1912	1910	1904	0	9.42	392	9.21	0.21	
E. THDC	Tehri HPS (4*250)	1000	988	970	0	9.81	409	9.60	0.21
Koteswar HPS (4*100)	400	137	396	92	3.35	140	3.29	0.06	
Sub Total (E)	1400	1125	1366	92	13.16	548	12.89	0.27	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	701	1223	406	16.91	705	16.83	0.08
Dehar HPS (6*165)	990	137	495	0	3.47	145	3.28	0.19	
Pong HPS (6*66)	396	244	396	66	5.91	246	5.85	0.06	
Sub Total (F)	2765	1082	2114	472	26.28	1095	25.96	0.32	
G. IPP(s)/JV(s)	Allain Duhangan HPS(IPP) (2*96)	192	0	71	0	0.42	17	0.46	-0.04
Karcham Wantoo HPS(IPP) (4*250)	1000	0	775	0	3.87	161	3.79	0.08	
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	120	3.16	132	3.09	0.07	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.00	0	0.18	-0.18	
Sainj HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.41	0.41	
Sub Total (G)	1762	0	995	120	7.45	310	7.51	-0.06	
H. Total Regional Entities (A-G)	25837	17319	18252	9392	277.87	11578	272.83	5.03	

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Stentout MW)	
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	0	0	0.13	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	0.10	4	
	Goindwal(GVK) (2*270)	540	246	145	5.32	222	
	Rajpura (2*700)	1400	660	860	16.25	677	
	Talwandi Saboo (3*660)	1980	1228	616	25.57	1065	
	Thermal (Total)	6560	2133	1621	47.38	1974	
	Total Hydro	1000	485	244	11.34	473	
	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	2618	1865	58.90	2454	
	Haryana	Paripat TPS (2*210+2*250)	920	602	201	11.86	494
		DCRTPP (Yamuna nagar) (2*300)	600	530	469	12.40	517
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (kheadar) (IPP) (2*600)		1200	470	379	11.25	469	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1177	740	25.26	1053	
Thermal (Total)		4497	2779	1789	60.77	2532	
Total Hydro		62	3	3	0.10	4	
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	2782	1792	60.87	2536	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1121	909	24.96	1040
		suratgarh TPS (6*250)	1500	655	539	15.08	628
	Chabra TPS (4*250)	1000	708	658	16.10	671	
	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	85	108	1.89	79	
	RAPS A (NPC) (1*100+1*200)	300	167	239	4.40	184	
	Barsingsar (NLC) (2*125)	250	113	111	2.66	111	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	842	722	18.70	779	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	552	454	12.39	516	
	Kawai(Adani) (2*660)	1320	1000	1000	24.54	1022	
	Thermal (Total)	9536	5243	4740	120.72	5030	
	Total Hydro	550	176	169	4.57	190	
	Wind power	4292	69	223	2.04	85	
	Biomass	102	16	16	0.37	16	
	Solar	1995	0	0	0.00	0	
	Renewable/Others (Total)	6389	85	239	2.41	101	
	Total Rajasthan	16475	5504	5148	127.69	5321	
UP	Anpara TPS (3*210+2*500)	1630	1329	1603	32.07	1336	
	Obra TPS (2*50+2*94+5*200)	1194	462	392	10.48	437	
	Paricha TPS (2*110+2*220+2*250)	1160	436	428	10.96	457	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqanj TPS (1*60+1*105+2*250)	665	446	317	9.07	378	
	Tanda TPS (NTPC) (4*110)	440	386	270	7.59	316	
	Roza TPS (IPP) (4*300)	1200	564	549	13.81	576	
	Anpara-C (IPP) (2*600)	1200	1115	731	25.24	1052	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	445	324	9.23	384	
	Lalitpur TPS(3*660)	1980	1590	1123	29.10	1213	
	Bara(2*660)	1320	1104	748	21.75	906	
	Thermal (Total)	12449	7877	6485	169.31	7055	
	Vishnuparvaq_HPS (IPP)(4*110)	440	87	82	2.09	87	
	Alakanada(4*82.5)	330	81	82	1.48	62	
	Other Hydro	527	163	233	4.59	191	
	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	9058	7732	197.87	8245		
Uttarakhand	Other Hydro	1250	667	396	10.23	426	
	Total Gas	450	55	75	1.47	61	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.50	21	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.50	21	
Total Uttarakhand	2107	722	471	12.20	508		
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.01	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	36	35	0.91	38	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	275	6.47	270	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	250	250	6.07	253	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	551	560	13.47	561	
	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	551	560	13.47	561		

HP	Baspa HPS (IPP) (3*100)	300	32	0	1.09	45
	Malana HPS (IPP) (2*43)	86	45	0	0.24	10
	Other Hydro (>25MW)	372	111	28	2.11	88
	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	114	46	1.77	74
	Renewable(Total)	486	114	46	1.77	74
	Total HP	1244	302	74	5.21	217
	Total J & K	1398	216	197	5	207
Total State Control Area Generation		52451	21753	17839	481.17	20049
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		7075	7781	165.47	8895	
Total Regional Availability(Gross)		78288	47081	35012	924.51	38521

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8497	804	73.78	3074
State Control Area Hydro	7468	2235	1555	42.80	1939
Total Regional Hydro	19702	10732	2358	116.58	5013

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	8844	199	285	4.86	202
Total Regional Renewable	8874	199	285	4.98	208

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)	50	-50	250	200	0.80	1.50	-0.70
765 KV Gwalior-Agra (D/C)	1249	1896	2409	0	42.70	0.00	42.70
400 KV Zerda-Kankroli	-198	-29	0	228	0.00	2.58	-2.58
400 KV Zerda-Bhinmal	-93	79	213	138	0.22	0.00	0.22
220 KV Aurajya-Malanpur	-85	-55	0	135	0.00	2.18	-2.18
220 KV Badod-Kota/Morak	-138	-36	0	36	0.00	1.94	-1.94
Mundra-Mohindergarh(HVDC Bipole)	1499	999	2006	0	36.93	0.00	36.93
400 KV RAPPCC-Sujalpur	159	222	362	0	5.03	0.00	5.03
400 KV Vindhychal-Rihand	983	853	0	985	0.00	22.47	-22.47
765 kV Phagi-Gwalior (D/C)	456	1183	1357	0	22.37	0.00	22.37
+/- 800 kV HVDC Champa-Kurushetra	1500	1000	0	0	28.65	0	28.65
Sub Total WR	5382	6062			136.69	30.66	106.02
400 kV Sasaram - Varanasi	178	-16	185	37	0.56	0.00	0.56
400 kV Sasaram - Allahabad	60	-35	66	65	1.00	0.00	1.00
400 kV MZP- GKP (D/C)	196	292	558	0	7.80	0.00	7.80
400 kV Patna-Balia(D/C) X 2	572	823	1042	0	19.38	0.00	19.38
400 kV B'Sharif-Balia (D/C)	2	136	234	0	3.16	0.00	3.16
765 KV Gaya-Balia	45	232	258	0	4.13	0.00	4.13
765 KV Gaya-Varanasi (D/C)	-55	-315	588	0	8.19	0.00	8.19
220 KV Pusauli-Sahupuri	146	99	146	0	2.63	0.00	2.63
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	0.49	-0.49
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-7	30	226	131	0.27	0.00	0.27
400 KV Mothari -GKP (D/C)	-240	-162	0	248	0.00	4.32	-4.32
400 kV B'Sharif - Varanasi (D/C)	96	-65	241	130	1.33	0.00	1.33
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	993	1019			48.24	4.81	43.43
+/- 800 KV HVDC BiswanathChariali-Agra	700	700	700	0.00	16.02	0.00	16.02
Sub Total NER	700	700			16.02	0.00	16.02
Total IR Exch	7075	7781			200.95	35.47	165.47

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
45.34	0.39	45.73	-2.07	-37.82	0.22	9.55	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
43.88	127.11	170.99	59.45	106.02	165.47	15.57	-21.08	-5.51

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	-40	-25	0	40	0	1	-0.84

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	2.15	22.47	74.41	70.71	5.57	1.62	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	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
50.18	6.02	49.73	16.17	49.95	0.072	0.070	50.05	49.80	29.29

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	408	21:41	397	19:49	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	416	2:01	397	17:24	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	418	1:58	401	17:26	0.0	0.0	0.0	0.0	0.0
Kanpur	400	422	1:59	223	11:24	0.1	0.1	0.6	0.0	0.6
Dadri	400	424	1:58	410	10:49	0.0	0.0	25.7	0.0	25.7
Ballabgarh	400	423	0:00	406	6:18	0.0	0.0	8.6	0.0	8.6
Bawana	400	426	1:58	412	6:17	0.0	0.0	28.1	0.0	28.1
Bassi	400	424	21:46	396	6:15	0.0	0.0	2.8	0.0	2.8
Hissar	400	418	1:58	402	6:40	0.0	0.0	0.0	0.0	0.0
Moga	400	422	19:52	404	6:40	0.0	0.0	0.8	0.0	0.8
Abdullapur	400	430	1:00	415	6:38	0.0	0.0	61.6	0.0	61.6
Nalagarh	400	430	0:57	415	10:49	0.0	0.0	35.8	0.0	35.8
Kishenpur	400	419	4:00	401	11:10	0.0	0.0	0.0	0.0	0.0
Wagoora	400	394	4:00	374	11:14	14.9	83.3	0.0	0.0	14.9
Amritsar	400	428	19:54	413	6:40	0.0	0.0	32.6	0.0	32.6
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	423	0:59	405	20:22	0.0	0.0	4.8	0.0	4.8
Rishikesh	400	0	0:00	0	0:00	0.0	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	>800 kV	>820 kV	
Fatehpur	765	788	13:00	750	18:14	0.0	0.0	0.0	0.0	0.0
Balia	765	787	2:01	755	17:40	0.0	0.0	0.0	0.0	0.0
Moga	765	804	19:55	762	6:20	0.0	0.0	1.0	0.0	1.0
Agra	765	797	13:00	765	9:26	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	803	13:00	774	6:11	0.0	0.0	4.2	0.0	4.2
Unnao	765	776	2:01	747	17:27	0.0	0.0	0.0	0.0	0.0
Lucknow	765	794	1:59	761	17:27	0.0	0.0	0.0	0.0	0.0
Meerut	765	808	19:55	773	6:19	0.0	0.0	5.3	0.0	5.3
Jhatikara	765	804	2:00	766	6:18	0.0	0.0	3.3	0.0	3.3
Bareilly 765 kV	765	798	2:02	766	17:26	0.0	0.0	0.0	0.0	0.0
Anta	765	789	4:01	767	6:11	0.0	0.0	0.0	0.0	0.0
Phagi	765	798	21:29	755	6:49	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)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	500.62	1114.30	490.03	738.95	172.87	496.79
Pong	426.72	384.05	411.35	544.90	409.10	464.36	88.09	379.16
Tehri	829.79	740.04	812.90	860.27	811.35	829.28	38.51	226.00
Koteshwar	612.50	598.50	610.58	4.84	611.09	5.20	226.00	221.52
Chamera-I	760.00	748.75	758.36	0.00	0.00	0.00	50.21	44.06
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	506.05	4.02	506.02	2.88	58.92	170.76

* 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 / PXIL (MU)	Total (MU)
Punjab	-809	0	0	-513	-806	0	-17.03	-3.71	-20.74
Delhi	-787	-300	0	-616	-19	0	-16.74	-0.87	-17.60
Haryana	-900	172	0	-892	129	0	-27.32	2.23	-25.10
HP	395	105	0	377	58	0	12.17	-1.48	10.69
J&K	793	59	0	793	198	0	18.67	0.01	18.68
CHD	-30	0	0	-30	39	0	-0.36	0.12	-0.24
Rajasthan	-101	260	0	-101	214	0	-0.97	11.39	10.42
UP	39	-36	0	-119	-66	0	-11.21	-1.52	-12.73
Uttarakhand	219	125	0	219	404	0	5.41	5.06	10.48
Total	-1181	385	0	-882	452	0	-37.38	11.24	-26.14

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-513	-911	0	-809	0	0
Delhi	-567	-787	443	-302	0	0
Haryana	-753	-1527	174	13	0	0
HP	676	377	105	-882	0	0
J&K	793	763	287	-496	0	0
CHD	0	-30	39	-40	0	0
Rajasthan	85	-306	2047	163	0	0
UP	39	-1144	-36	-72	0	0
Uttarakhand	249	219	478	-7	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	8
Haryana	0	12
Rajasthan	3	16
Delhi	4	28
UP	0	9
Uttarakhand	0	10
HP	2	19
J & K	2	30
Chandigarh	4	19

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 23.12.2017 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

1. 765/400 KV ICT-I, 1500 MVA at Ajmer PG first time charged from 400 KV side at 14:16 hours on 23.12.17.
2. 765 KV Bus-I at Chittorgarh PG first time charged at 17:28 hrs. on 23.12.17.
3. 765/400 KV ICT-II, 1500 MVA first time charged at Ajmer from 400 KV side on No-Load at 19:23 hrs. on 23.12.17.
4. 765 KV Chittorgarh-Ajmer-2 line first time charged from Chittorgarh along with 240 MVAR Line Reactor at both ends and synchronized from Ajmer end at 18:59 hrs. on 23.12.17.

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 : 23.12.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER