

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 30.12.2017
Date of Reporting : 31.12.2017



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
44296	892	45188	50.02	30548	301	30849	49.99	897.85	13.26

*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	Gas/Naphtha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	60.16	11.28	0.00	0.06	0.00	0.14	71.64	36.60	37.04	0.44	108.68	0.00
Haryana	60.60	0.10	0.00	0.00	0.00	0.00	60.70	62.13	62.57	0.44	123.26	0.00
Rajasthan	119.68	4.45	2.15	2.19	8.09	4.97	141.53	65.34	68.38	3.03	209.90	1.72
Delhi	0.00	0.00	13.43	0.00	0.00	0.00	13.43	49.25	48.69	-0.57	62.12	0.01
UP	165.09	7.50	0.00	0.00	0.00	21.60	194.19	86.14	87.71	1.56	281.90	0.75
Uttarakhand	0.00	10.44	2.27	0.49	0.00	0.00	13.20	23.16	22.49	-0.67	35.69	0.00
HP	0.00	3.19	0.00	0.00	0.00	1.54	4.73	22.21	20.61	0.40	27.34	0.00
J & K	0.00	4.73	0.00	0.00	0.00	0.00	4.73	42.42	40.95	-1.46	45.68	10.78
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44	3.28	-0.16	3.28	0.00
Total	405.53	41.69	17.85	2.74	8.09	28.24	504.14	390.70	393.71	3.01	897.85	13.26

* 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	5538	0	-75	-1215	3074	0	33	-807	5724	9	0
Haryana	6333	0	0	-966	4129	0	64	-788	6642	7	0
Rajasthan	9701	0	385	-81	7890	0	307	-51	10228	8	0
Delhi	3121	0	-94	-839	1552	0	42	-1122	3634	11	0
UP	14046	360	69	-187	10161	0	145	2	14095	18	330
Uttarakhand	1860	0	38	615	1170	0	-78	349	1950	8	0
HP	1393	0	4	454	781	0	-51	492	1537	9	0
J&K	2128	532	-47	1059	1708	301	-72	912	2178	20	545
Chandigarh	177	0	-23	8	83	0	5	-31	202	9	0
Total	44296	892	256	-1152	30548	301	395	-1042	44296	19	892

* 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	650	731	717	15.84	660	15.59	0.25	
Rihand II STPS (2*500)	1000	943	1009	957	22.64	943	22.50	0.14	
Rihand III STPS (2*500)	1000	943	995	800	22.05	919	21.69	0.36	
Dadri I STPS (4*210)	840	769	454	424	11.69	487	11.61	0.08	
Dadri II STPS (2*490)	980	929	771	510	17.51	730	18.27	-0.76	
Unchahar I TPS (2*210)	420	350	368	232	6.52	272	6.63	-0.10	
Unchahar II TPS (2*210)	420	383	407	247	6.93	289	7.14	-0.21	
Unchahar III TPS (1*210)	210	192	195	128	3.54	148	3.72	-0.18	
Unchahar IV TPS (1*500)	500	0	0	0	0.00	0	0.00	0.00	
ISTPP (Jhajjar) (3*500)	1500	1088	1066	867	22.48	937	22.80	-0.33	
Dadri GPS (4*130.19+2*154.51)	830	838	113	111	3.36	140	3.48	-0.12	
Anta GPS (3*88.71+1*153.2)	419	418	0	0	-0.03	-1	0.00	-0.03	
Auraya GPS (4*111.19+2*109.30)	663	633	0	0	0.00	0	0.00	0.00	
Dadri Solar(5)	5	1	0	0	0.01	1	0.01	0.00	
Unchahar Solar(10)	10	1	0	0	0.01	0	0.02	-0.01	
Singrauli Solar(15)	15	3	0	0	0.05	2	0.07	-0.02	
KHEP(4*200)	800	792	0	0	0.00	0	2.38	-2.38	
Sub Total (A)	12612	10171	7483	5987	162	6759	164	-2.14	
B. NPC	NAPS (2*220)	440	413	450	451	9.91	413	9.88	0.03
RAPS- B (2*220)	440	194	215	218	4.58	191	4.66	-0.07	
RAPS- C (2*220)	440	415	462	462	10.02	418	9.96	0.06	
Sub Total (B)	1320	1022	1127	1131	24.52	1021	24.49	0.02	
C. NHPC	Chamera I HPS (3*180)	540	534	206	0	1.78	74	1.60	0.18
Chamera II HPS (3*100)	300	198	203	0	1.29	54	1.15	0.14	
Chamera III HPS (3*77)	231	228	67	0	0.80	33	0.70	0.10	
Bairasuli HPS(3*60)	180	59	123	0	0.46	19	0.36	0.10	
Salal-HPS (6*115)	690	103	345	30	2.65	111	2.46	0.19	
Tanakpur-HPS (3*31.4)	94	24	28	21	0.61	26	0.58	0.04	
Uri-I HPS (4*120)	480	82	253	53	2.20	92	1.97	0.24	
Uri-II HPS (4*60)	240	0	0	0	0.00	0	0.00	0.00	
Dhauliganga-HPS (4*70)	280	39	209	0	1.01	42	0.93	0.07	
Dulhasti-HPS (3*130)	390	257	264	0	2.86	119	2.66	0.20	
Sewa-II HPS (3*40)	120	119	122	0	0.38	16	0.36	0.02	
Parbati 3 (4*130)	520	24	258	0	0.61	25	0.58	0.03	
Sub Total (C)	4065	1665	2078	104	15	610	13	1.31	
D.SJVNL	NJPC (6*250)	1500	1497	1239	0	6.82	284	6.70	0.12
Rampur HEP (6*68.67)	412	412	345	0	1.89	79	1.87	0.02	
Sub Total (D)	1912	1910	1584	0	8.71	363	8.57	0.14	
E. THDC	Tehri HPS (4*250)	1000	988	1000	0	10.30	429	10.30	0.00
Koteswar HPS (4*100)	400	150	396	92	3.63	151	3.59	0.05	
Sub Total (E)	1400	1138	1396	92	13.94	581	13.89	0.05	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	744	1205	431	17.90	746	17.85	0.05
Dehar HPS (6*165)	990	127	495	0	3.26	136	3.04	0.22	
Pong HPS (6*66)	396	272	396	0	6.57	274	6.53	0.04	
Sub Total (F)	2765	1143	2096	431	27.73	1155	27.42	0.30	
G. IPP(s)/JV(s)	Allain Duhangan HPS(IPP) (2*96)	192	0	105	0	0.38	16	0.36	0.03
Karcham Wantoo HPS(IPP) (4*250)	1000	0	825	0	3.82	159	3.79	0.03	
Malana Stg-II HPS (2*50)	100	0	0	0	0.22	9	0.20	0.01	
Shree Cement TPS (2*150)	300	0	148	88	3.04	126	3.13	-0.09	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.20	8	0.18	0.02	
Sainj HPS (IPP) (2*50)	100	0	0	0	0.37	0	0.37	0.00	
Sub Total (G)	1762	0	1078	88	7.66	319	7.66	0.00	
H. Total Regional Entities (A-G)	25837	17048	16841	7833	259.40	10808	259.72	-0.32	

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UI (CG: +ve), UI: -ve)

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	-0.09	-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	-0.09	-4	
	Goindwal(GVK) (2*270)	540	246	145	4.99	208	
	Rajpura (2*700)	1400	1320	660	26.11	1088	
	Talwandi Saboo (3*660)	1980	1200	924	29.25	1219	
	Thermal (Total)	6560	2766	1729	60.16	2507	
	Total Hydro	1000	483	257	11.28	470	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.14	6	
	Solar	859	0	0	0.06	2	
	Renewable(Total)	1162	0	0	0.19	8	
	Total Punjab	8722	3249	1986	71.64	2985	
	Haryana	Paripat TPS (2*210+2*250)	920	0	201	2.99	125
		DCRTPP (Yamuna nagar) (2*300)	600	540	475	12.07	503
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	776	754	19.94	831	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	1232	737	25.60	1067	
Thermal (Total)		4497	2548	2167	60.60	2525	
Total Hydro		62	5	5	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	2553	2172	60.70	2529	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	970	922	23.92	996
		suratgarh TPS (6*250)	1500	363	358	9.51	396
	Chabra TPS (4*250)	1000	690	572	14.65	610	
	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	90	2.15	90	
	RAPS A (NPC) (1*100+1*200)	300	182	231	4.40	183	
	Barsingsar (NLC) (2*125)	250	111	111	2.45	102	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	841	441	18.14	756	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	1128	839	23.60	983	
	Kawai(Adani) (2*660)	1320	1198	867	27.41	1142	
	Thermal (Total)	9536	5568	4431	126.22	5259	
	Total Hydro	550	167	147	4.45	185	
	Wind power	4292	145	820	8.09	337	
	Biomass	102	24	24	0.57	24	
	Solar	1995	0	0	2.19	91	
	Renewable/Others (Total)	6389	169	844	10.85	452	
	Total Rajasthan	16475	5904	5422	141.53	5897	
UP	Anpara TPS (3*210+2*500)	1630	1315	1043	30.20	1258	
	Obra TPS (2*500+2*94+5*200)	1194	506	375	10.20	425	
	Paricha TPS (2*110+2*220+2*250)	1160	440	434	10.60	442	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaqanj TPS (1*60+1*105+2*250)	665	447	317	8.70	363	
	Tanda TPS (NTPC) (4*110)	440	390	272	7.39	308	
	Roza TPS (IPP) (4*300)	1200	754	746	18.30	763	
	Anpara-C (IPP) (2*600)	1200	1096	722	23.30	971	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	446	324	9.30	388	
	Lalitpur TPS(3*660)	1980	1120	1111	29.00	1208	
	Bara(2*660)	1320	752	739	18.10	754	
	Thermal (Total)	12449	7266	6083	165.09	6879	
	Vishnuparvaq_HPS (IPP)(4*110)	440	82	82	2.00	83	
	Alakanada(4*82.5)	330	81	0	1.40	58	
	Other Hydro	527	252	47	4.10	171	
	Cogeneration	981	900	900	21.60	900	
	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	8581	7112	194.19	8091		
Uttarakhand	Other Hydro	1250	622	421	10.44	435	
	Total Gas	450	83	98	2.27	95	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.49	20	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.49	20	
	Total Uttarakhand	2107	705	519	13.20	550	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	37	38	0.94	39	
	Pragati Gas Turbine (2x104+ 1x122)	330	260	274	6.47	270	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	246	251	6.02	251	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	543	563	13.43	560	
	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	543	563	13.43	560		

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.14	48	
	Malana HPS (IPP) (2*43)	86	0	0	0.22	9	
	Other Hydro (>25MW)	372	90	32	1.83	76	
	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	110	33	1.54	64	
	Renewable(Total)	486	110	33	1.54	64	
	Total HP	1244	200	65	4.73	197	
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	148	148	3.55	148
		Other Hydro/IPP(including 98 MW Small Hydro)	308	86	31	1.18	49
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	234	179	5	197	
Total State Control Area Generation		52451	21969	18018	504.14	21006	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]							
Total Regional Availability(Gross)	78288	46465	33688	919.70	38321		

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8084	627	69.64	2893
State Control Area Hydro	7468	2209	1301	41.69	1916
Total Regional Hydro	19702	10293	1927	111.33	4810

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.07	3
State Control Area Renewable	8844	279	877	13.08	545
Total Regional Renewable	8874	279	877	13.15	548

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-150	250	250	250	2.11	1.57	0.55
765 KV Gwalior-Agra (D/C)	1700	1962	2459	0	46.94	0.00	46.94
400 KV Zerda-Kankroli	-128	-58	21	187	0.00	2.03	-2.03
400 KV Zerda-Bhimmal	-33	-5	73	120	0.00	0.33	-0.33
220 KV Aurajya-Malanpur	-74	-68	0	128	0.00	2.16	-2.16
220 KV Badod-Kota/Morak	-60	-27	22	165	0.00	1.21	-1.21
Mundra-Mohindergarh(HVDC Bipole)	1140	1500	1506	0	35.10	0.00	35.10
400 KV RAPPCC-Sujalpur	181	130	310	0	4.20	0.00	4.20
400 KV Vindhychal-Rihand	954	759	0	975	0.00	23.31	-23.31
765 kV Phagi-Gwalior (D/C)	512	1076	1186	0	21.87	0.00	21.87
+/- 800 kV HVDC Champa-Kurushetra	1500	0	2000	0	13.73	0	13.73
Sub Total WR	5542	5519			123.95	30.60	93.35
400 kV Sasaram - Varanasi	-29	-32	43	0	0.53	0.00	0.53
400 kV Sasaram - Allahabad	23	28	0	41	0.00	0.59	-0.59
400 kV MZP- GKP (D/C)	375	348	731	0	9.68	0.00	9.68
400 kV Patna-Balia(D/C) X 2	910	758	1173	0	20.92	0.00	20.92
400 kV B'Sharif-Balia (D/C)	158	193	378	0	5.20	0.00	5.20
765 KV Gaya-Balia	0	0	311	0	1.07	0.00	1.07
765 KV Gaya-Varanasi (D/C)	456	384	807	0	10.89	0.00	10.89
220 KV Pusauli-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-21	-22	0	26	0.00	0.52	-0.52
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	24	105	223	230	2.96	0.00	2.96
400 KV Motihari -GKP (D/C)	-284	-110	0	284	0.00	4.44	-4.44
400 kV B'Sharif - Varanasi (D/C)	-99	-34	171	0	1.48	0.00	1.48
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1513	1618			52.72	5.55	47.17
+/- 800 KV HVDC BiswanathChariali-Agra	600	700	700	0.00	15.63	0.00	15.63
Sub Total NER	600	700			15.63	0.00	15.63
Total IR Exch	7655	7837			192.30	36.15	156.15

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
44.97	0.30	45.27	-2.66	-41.36	-0.79	5.95	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
41.82	125.97	167.79	62.80	93.35	156.15	20.99	-32.62	-11.64

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-36	-22	0	40	0	1	-0.76

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	0.00	12.62	57.77	73.37	12.14	2.45	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)	
50.17	6.00	49.77	9.19	49.98	0.047	0.066	50.09	49.86	26.63

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	
Rihand	400	404	1:59	398	6:39	0.0	0.0	0.0	0.0
Gorakhpur	400	417	0:04	396	18:10	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	2:57	401	6:24	0.0	0.0	0.0	0.0
Kanpur	400	424	2:59	408	9:17	0.0	0.0	11.1	0.0
Dadri	400	426	2:39	408	10:05	0.0	0.0	24.9	0.0
Ballabgarh	400	424	3:06	404	9:17	0.0	0.0	10.1	0.0
Bawana	400	426	2:01	406	12:12	0.0	0.0	27.2	0.0
Bassi	400	422	20:28	396	7:15	0.0	0.0	1.5	0.0
Hissar	400	418	2:59	400	9:17	0.0	0.0	0.0	0.0
Moga	400	418	3:01	401	11:33	0.0	0.0	0.0	0.0
Abdullapur	400	426	2:58	405	11:38	0.0	0.0	26.2	0.0
Nalagarh	400	429	2:20	410	11:33	0.0	0.0	36.1	0.0
Kishenpur	400	421	22:01	401	11:36	0.0	0.0	0.0	0.0
Wagoora	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Amritsar	400	427	2:40	405	11:36	0.0	0.0	28.0	0.0
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0
Hamirpur	400	413	0:00	413	0:00	0.0	0.0	0.0	0.0
Rishikesh	400	416	2:01	393	9:19	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	
Fatehpur	765	786	1:26	754	9:16	0.0	0.0	0.0	0.0
Balia	765	797	1:29	762	17:24	0.0	0.0	0.0	0.0
Moga	765	795	19:53	760	6:41	0.0	0.0	0.0	0.0
Agra	765	795	3:00	763	9:17	0.0	0.0	0.0	0.0
Bhiwani	765	799	2:00	772	6:26	0.0	0.0	0.0	0.0
Unnao	765	785	2:59	753	10:09	0.0	0.0	0.0	0.0
Lucknow	765	800	2:59	766	18:10	0.0	0.0	0.0	0.0
Meerut	765	804	3:00	772	6:39	0.0	0.0	5.0	0.0
Jhatikara	765	805	2:57	766	6:41	0.0	0.0	5.1	0.0
Bareilly 765 kV	765	801	2:58	770	10:11	0.0	0.0	0.6	0.0
Anta	765	786	2:41	760	9:18	0.0	0.0	0.0	0.0
Phagi	765	793	2:58	764	6:27	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	499.06	1053.16	488.57	690.35	174.04	516.30
Pong	426.72	384.05	410.22	504.32	408.19	435.19	85.88	426.99
Tehri	829.79	740.04	809.65	795.44	808.80	778.88	46.42	241.00
Koteshwar	612.50	598.50	610.37	4.69	610.23	4.69	241.00	240.04
Chamera-I	760.00	748.75	758.38	0.00	0.00	0.00	48.64	47.76
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 Saagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	504.59	3.58	504.96	2.35	58.92	144.61

* 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	-807	0	0	-807	-408	0	-20.38	-1.83	-22.21
Delhi	-805	-317	0	-634	-205	0	-17.15	-3.41	-20.57
Haryana	-908	120	0	-909	-57	0	-27.64	0.62	-27.02
HP	387	105	0	371	83	0	11.96	-1.07	10.89
J&K	785	127	0	785	274	0	18.49	2.71	21.20
CHD	-31	0	0	-31	39	0	-0.37	-0.07	-0.44
Rajasthan	-309	258	0	-102	21	0	-1.64	5.11	3.48
UP	38	-36	0	-121	-66	0	-11.32	-1.52	-12.85
Uttarakhand	217	132	0	217	398	0	5.36	5.88	11.24
Total	-1431	390	0	-1230	78	0	-42.69	6.42	-36.28

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-807	-909	0	-562	0	0
Delhi	-584	-805	431	-452	0	0
Haryana	-765	-1541	142	-723	0	0
HP	666	369	105	-812	0	0
J&K	785	756	470	-429	0	0
CHD	0	-31	39	-51	0	0
Rajasthan	83	-309	763	-190	0	0
UP	38	-1155	-36	-72	0	0
Uttarakhand	247	217	514	24	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	2	20
Haryana	2	15
Rajasthan	0	10
Delhi	2	20
UP	0	9
Uttarakhand	4	51
HP	2	13
J & K	6	65
Chandigarh	4	31

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 30.12.2017 :****XVI. Synchronisation of new generating units :****XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :**

- 500 MVA ICT-1 charged from 400kV side on No-Load at Moradabad (UPPCL) at 15.52 Hrs on 30.12.2017
- 315 MVA ICT-2 charged from 400kV side on No-Load at Muradnagar New (UPPCL) at 1606Hrs on 30.12.2017 .

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 : 30.12.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER