

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(भारत सरकार का उद्यम)

उत्तर क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 24.11.2017

Date of Reporting : 25.11.2017



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
40573	501	41074	50.02	29261	279	29540	50.00	838.70	12.99

* 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/Naptha/Diesal	Solar	Wind	Other (Biomass/ Small hydro/ Co-Generation etc.)	Total					
Punjab	63.81	8.24	0.00	0.05	0.00	0.23	72.33	22.82	23.66	0.84	95.99	0.00
Haryana	35.60	0.44	7.34	0.00	0.00	0.00	43.37	67.25	68.58	1.33	111.95	0.02
Rajasthan	114.12	4.28	4.39	2.70	1.79	4.66	131.93	65.51	66.73	1.21	198.66	0.00
Delhi	0.00	0.00	17.71	0.00	0.00	0.00	17.71	44.36	43.81	-0.56	61.51	0.01
UP	156.94	6.20	0.00	0.00	0.00	19.20	182.34	81.93	82.76	0.83	265.10	3.05
Uttarakhand	0.00	8.35	7.10	0.57	0.00	0.00	16.02	17.14	17.74	0.60	33.76	0.00
HP	0.00	4.12	0.00	0.00	0.00	1.70	5.82	20.37	20.72	0.35	26.54	0.00
J & K	0.00	4.69	0.00	0.00	0.00	0.00	4.69	38.57	37.35	-1.23	42.03	9.91
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.24	3.16	-0.07	3.16	0.00
Total	370.47	36.32	36.53	3.32	1.79	25.78	474.20	361.18	364.50	3.32	838.70	12.99

* 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	5209	0	102	-1464	2818	0	40	-1002	5209	19	0
Haryana	6031	0	126	-680	3499	0	66	-525	6031	19	0
Rajasthan	9101	0	366	-563	7621	0	-6	12	10741	8	0
Delhi	3285	0	70	-830	1528	0	8	-1231	3541	12	0
UP	11813	0	-200	-122	10136	0	200	86	11813	19	0
Uttarakhand	1659	0	-80	331	1165	0	6	238	1838	8	0
HP	1303	0	-10	251	840	0	38	383	1480	8	0
J&K	2004	501	69	927	1580	279	-52	830	2004	19	501
Chandigarh	168	0	-4	-15	75	0	-14	0	184	9	0
Total	40573	501	440	-2165	29261	279	286	-1210	40573	19	501

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

Diversity is 1.06

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 Net MU	UI Net MU
A. NTPC								
Singrauli STPS (5*200+2*500)	2000	900	997	767	21.72	905	20.34	1.39
Rihand I STPS (2*500)	1000	923	898	899	20.02	834	19.89	0.13
Rihand II STPS (2*500)	1000	943	886	899	20.08	836	19.90	0.18
Rihand III STPS (2*500)	1000	943	871	880	19.79	825	19.88	-0.08
Dadri I STPS (4*210)	840	769	322	209	6.15	256	6.29	-0.15
Dadri II STPS (2*490)	980	929	915	495	16.30	679	16.73	-0.44
Unchahar I TPS (2*210)	420	160	132	118	2.98	124	2.78	0.20
Unchahar II TPS (2*210)	420	383	261	237	5.92	247	5.90	0.02
Unchahar III TPS (1*210)	210	192	135	116	3.15	131	3.17	-0.02
Unchahar IV TPS(1*500)	500	0	0	0	0.00	0	0.00	0.00
ISTPP (Jhajhar) (3*500)	1500	948	955	560	18.00	750	18.47	-0.47
Dadri GPS (4*130.19+2*154.51)	830	807	136	138	3.46	144	3.68	-0.22
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	0.07	3	0.06	0.01
KHEP(4*200)	800	792	0	0	3.08	128	2.75	0.33
Sub Total (A)	12612	9738	6508	5318	141	5865	140	0.86
B. NPC								
NAPS (2*220)	440	411	448	454	9.85	410	9.61	0.24
RAPS- B (2*220)	440	402	446	449	9.67	403	9.52	0.15
RAPS- C (2*220)	440	410	455	450	10.05	419	9.61	0.45
Sub Total (B)	1320	1223	1349	1353	29.56	1232	28.73	0.83
C. NHPC								
Chamera I HPS (3*180)	540	534	550	0	1.79	74	1.60	0.18
Chamera II HPS (3*100)	300	200	203	0	1.24	52	1.15	0.09
Chamera III HPS (3*77)	231	70	225	0	0.65	27	0.58	0.07
Bairasul HPS(3*60)	180	57	30	0	0.47	19	0.40	0.07
Salal-HPS (6*115)	690	106	345	33	0.28	12	2.56	-2.27
Tanakpur-HPS (3*31.4)	94	34	33	43	0.86	36	0.81	0.05
Uri-I HPS (4*120)	480	76	61	37	2.14	89	1.83	0.31
Uri-II HPS (4*60)	240	54	39	38	1.38	58	1.31	0.08
Dhauliganga-HPS (4*70)	280	51	213	0	1.32	55	1.23	0.09
Dulhasti-HPS (3*130)	390	387	392	0	3.31	138	3.10	0.21
Sewa-II HPS (3*40)	120	79	81	0	0.22	9	0.24	-0.02
Parbati 3 (4*130)	520	24	265	0	0.62	26	0.58	0.04
Sub Total (C)	4065	1672	2437	151	14	595	15	-1.10
D. SJVNL								
NJPC (6*250)	1500	1497	1465	0	8.64	360	8.50	0.14
Rampur HEP (6*68.67)	412	412	397	0	2.42	101	2.37	0.05
Sub Total (D)	1912	1910	1862	0	11.06	461	10.87	0.19
E. THDC								
Tehri HPS (4*250)	1000	988	705	0	6.44	268	6.29	0.15
Koteshwar HPS (4*100)	400	91	93	91	2.23	93	2.19	0.04
Sub Total (E)	1400	1079	798	91	8.67	361	8.48	0.19
F. BBMB								
Bhakra HPS (2*108+3*126+5*157)	1379	499	1073	388	12.28	512	11.98	0.30
Dehar HPS (6*165)	990	163	495	0	4.04	168	3.92	0.12
Pong HPS (6*66)	396	152	264	66	3.68	154	3.64	0.04
Sub Total (F)	2765	814	1832	454	20.01	834	19.54	0.47
G. IPP(s)/JV(s)								
Allain Duhangan HPS(IPP) (2*96)	192	0	58	0	0.62	26	0.60	0.02
Karcham Wangtoo HPS(IPP) (4*250)	1000	0	580	0	4.62	192	4.50	0.11
Malana Stg-II HPS (2*50)	100	0	0	0	0.30	12	0.28	0.02
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.63	-0.63
Budhil HPS(IPP) (2*35)	70	0	69	0	0.25	10	0.21	0.04
Sainj HPS (IPP) (2*50)	100	0	0	0	0.00	0	0.50	0.00
Sub Total (G)	1762	0	707	0	5.78	241	6.23	-0.44
H. Total Regional Entities (A-G)	25837	16436	15493	7367	230.10	9588	229.11	0.99
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	0.00	0	
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0	
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	0.00	0	
	Goindwal(GVK) (2*270)	540	0	0	0.00	0	
	Rajpura (2*700)	1400	1320	660	28.66	1194	
	Talwandi Saboo (3*660)	1980	1841	924	35.15	1465	
	Thermal (Total)	6560	3161	1584	63.81	2659	
	Total Hydro	1000	362	313	8.24	343	
	Wind Power	0	0	0	0.00	0	
	Biomass	303	0	0	0.23	9	
	Solar	859	0	0	0.05	2	
	Renewable(Total)	1162	0	0	0.27	11	
	Total Punjab	8722	3523	1897	72.33	3014	
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
		DCRTPP (Yamuna nagar) (2*300)	600	558	470	12.39	516
Faridabad GPS (NTPC)(2*137.75+1*156)		432	317	284	7.34	306	
RGTPP (khardar) (IPP) (2*600)		1200	570	301	10.35	431	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	604	369	12.85	536	
Thermal (Total)		4497	2049	1424	42.93	1789	
Total Hydro		62	10	17	0.44	18	
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	2059	1441	43.37	1807	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	705	707	18.19	758
		suratgarh TPS (6*250)	1500	902	884	22.82	951
	Chabra TPS (4*250)	1000	1198	1027	26.59	1108	
	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	178	177	4.39	183	
	RAPS A (NPC) (1*100+1*200)	300	188	220	4.28	178	
	Barsingar (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	666	584	15.96	665	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	543	415	11.89	496	
	Kawai(Adani) (2*660)	1320	616	481	13.42	559	
	Thermal (Total)	9536	5220	4719	122.79	5116	
	Total Hydro	550	235	125	4.28	178	
Wind power	4292	42	50	1.79	75		
Biomass	102	16	16	0.37	16		
Solar	1995	8	0	2.70	112		
Renewable/Others (Total)	6389	66	66	4.86	202		
Total Rajasthan	16475	5521	4910	131.93	5497		
UP	Anpara TPS (3*210+2*500)	1630	1168	931	28.10	1171	
	Obra TPS (2*50+2*94+5*200)	1194	530	521	12.80	533	
	Paricha TPS (2*110+2*220+2*250)	1160	308	437	9.00	375	
	Panki TPS (2*105)	210	0	0	0.00	0	
	Harduaganj TPS (1*60+1*105+2*250)	665	319	319	8.00	333	
	Tanda TPS (NTPC) (4*110)	440	268	272	7.04	293	
	Roza TPS (IPP) (4*300)	1200	751	751	19.30	804	
	Anpara-C (IPP) (2*600)	1200	1110	745	24.00	1000	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	0	0	0.00	0	
	Anpara-D(2*500)	1000	451	317	10.00	417	
	Lalitpur TPS(3*660)	1980	741	744	17.80	742	
	Bara(2*660)	1320	738	731	20.90	871	
	Thermal (Total)	12449	6384	5768	156.94	6539	
	Vishnuparyag HPS (IPP)(4*110)	440	117	112	2.80	117	
	Alakanada(4*82.5)	330	78	80	1.90	79	
Other Hydro	527	141	37	1.50	63		
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	7520	6797	182.34	7598		
Uttarakhand	Other Hydro	1250	690	216	8.35	348	
	Total Gas	450	293	294	7.10	296	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	100	0	0	0.57	24	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	407	0	0	0.57	24	
	Total Uttarakhand	2107	983	510	16.02	667	
	Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
		Delhi Gas Turbine (6x30 + 3x34)	282	76	77	1.90	79
Pragati Gas Turbine (2x104+ 1x122)		330	269	270	6.62	276	
Rithala GPS (3*36)		95	0	0	0.00	0	
Bawana GPS (4*216+2*253)		1370	383	382	9.19	383	
Badarpur TPS (NTPC) (3*95+2*210)		705	0	0	0.00	0	
Thermal (Total)		2917	728	729	17.71	738	
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	728	729	17.71	738		
HP	Baspa HPS (IPP) (3*100)	300	63	0	1.30	54	
	Malana HPS (IPP) (2*43)	86	38	0	0.30	13	
	Other Hydro (>25MW)	372	133	94	2.52	105	
	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	95	50	1.70	71	
	Renewable(Total)	486	95	50	1.70	71	
Total HP	1244	329	144	5.82	243		
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	148	147	3.52	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	212	174	5	195
Total State Control Area Generation	52451	20875	16602	474.20	19758
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4872	6603	148.87	6203
Total Regional Availability(Gross)	78288	41241	30573	853.18	35549

IV. Total Hydro Generation:

Regional Entities Hydro	12234	7567	696	62.86	2609
State Control Area Hydro	7468	2467	1512	36.32	1904
Total Regional Hydro	19702	10034	2209	99.18	4513

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.13	5
State Control Area Renewable	8844	161	116	7.41	309
Total Regional Renewable	8874	161	116	7.53	314

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	-400	0	400	0.00	9.78	-9.78
765 KV Gwalior-Agra (D/C)	1093	1917	2130	0	40.49	0.00	40.49
400 KV Zerda-Kankroli	-120	-43	0	178	0.00	2.10	-2.10
400 KV Zerda-Bhinmal	-41	68	199	90	0.88	0.00	0.88
220 KV Auraiya-Malanpur	106	40	108	0	1.65	0.00	1.65
220 KV Badod-Kota/Morak	-135	-81	0	197	0.00	2.36	-2.36
Mundra-Mohindergarh(HVDC Bipole)	701	700	703	0	16.98	0.00	16.98
400 KV RAPP- Sujalpur	104	200	430	35	3.95	0.00	3.95
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	721	1161	1331	0	20.57	0.00	20.57
+/- 800 kV HVDC Champa-Kurushetra	500	500	1500	0	11.91	0	11.91
Sub Total WR	2529	4062			96.43	14.24	82.19
400 kV Sasaram - Varanasi	192	169	209	0	4.08	0.00	4.08
400 kV Sasaram - Allahabad	45	73	121	0	1.84	0.00	1.84
400 KV MZP- GKP (D/C)	129	269	537	0	7.74	0.00	7.74
400 KV Patna-Balia(D/C) X 2	659	660	1008	0	19.04	0.00	19.04
400 KV B'Sharif-Balia (D/C)	54	90	243	0	3.10	0.00	3.10
765 KV Gaya-Balia	196	200	256	0	4.82	0.00	4.82
765 KV Gaya-Varanasi (D/C)	201	187	311	0	4.93	0.00	4.93
220 KV Pusauli-Sahupuri	97	62	102	0	2.05	0.00	2.05
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-15	-28	0	39	0.00	0.59	-0.59
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-114	-69	132	167	0.00	0.21	-0.21
400 KV Mothari -GKP (D/C)	-182	-118	0	182	0.00	3.52	-3.52
400 kV B'Sharif - Varanasi (D/C)	81	46	155	97	0.31	0.00	0.31
+/- 800 KV HVDC Alipurduar-Agra	300	300	300	0	7.57	0.00	7.57
Sub Total ER	1643	1841			55.47	4.32	51.16
+/- 800 KV HVDC BiswanathCharialli-Agra	700	700	700	0.00	15.53	0.00	15.53
Sub Total NER	700	700			15.53	0.00	15.53
Total IR Exch	4872	6603			167.43	18.56	148.87

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
44.59	1.05	45.64	5.59	-37.65	-1.89	-6.40	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
49.34	113.47	162.81	66.68	82.19	148.87	17.34	-31.28	-13.94

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	-13	0	0	26	0	0	-0.10

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	0.34	11.59	60.84	76.22	11.11	1.67	0.00	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX (Hz)	MIN (Hz)	
50.19	12.01	49.78	15.12	49.98	0.045	0.064	50.10	49.83	23.78

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	410	2:02	405	9:13	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	3:02	399	11:41	0.0	0.0	0.0	0.0	0.0
Bareilly(PC)400kV	400	419	2:32	405	9:25	0.0	0.0	0.0	0.0	0.0
Kanpur	400	417	3:00	406	9:22	0.0	0.0	0.0	0.0	0.0
Dadri	400	424	2:01	410	11:34	0.0	0.0	25.9	0.0	25.9
Ballabhgarh	400	423	3:01	408	9:25	0.0	0.0	14.5	0.0	14.5
Bawana	400	424	4:03	408	18:09	0.0	0.0	23.2	0.0	23.2
Bassi	400	424	20:59	401	6:27	0.0	0.0	15.9	0.0	15.9
Hissar	400	421	4:00	405	6:36	0.0	0.0	0.6	0.0	0.6
Moga	400	420	2:25	406	6:27	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	425	0:01	410	6:27	0.0	0.0	34.5	0.0	34.5
Nalagarh	400	428	20:15	413	18:08	0.0	0.0	45.1	0.0	45.1
Kishenpur	400	427	23:08	401	17:53	0.0	0.0	0.2	0.0	0.2
Wagoora	400	408	23:08	376	17:56	5.7	73.7	0.0	0.0	5.7
Amritsar	400	428	2:32	412	17:54	0.0	0.0	37.9	0.0	37.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	420	2:25	402	6:47	0.0	0.0	0.0	0.0	0.0

Rishikesh	400	419	2:37	402	10:11	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	772	19:59	742	6:25	0.0	0.0	0.0	0.0	0.0
Balia	765	785	3:02	606	11:07	0.2	0.2	0.0	0.0	0.2
Moga	765	800	13:04	775	22:21	0.0	0.0	0.0	0.0	0.0
Agra	765	795	13:14	767	6:35	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	806	13:30	783	9:25	0.0	0.0	6.1	0.0	6.1
Unnao	765	778	3:01	751	11:33	0.0	0.0	0.0	0.0	0.0
Lucknow	765	794	3:01	767	11:37	0.0	0.0	0.0	0.0	0.0
Meerut	765	809	13:22	778	6:25	0.0	0.0	15.6	0.0	15.6
Jhatikara	765	804	4:00	778	6:36	0.0	0.0	9.1	0.0	9.1
Bareilly 765 kV	765	798	3:01	770	11:35	0.0	0.0	0.0	0.0	0.0
Anta	765	794	4:08	771	6:22	0.0	0.0	0.0	0.0	0.0
Phagi	765	798	4:01	769	6:22	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	505.02	1312.37	495.99	937.45	189.95	341.76
Pong	426.72	384.05	414.94	668.52	412.23	566.84	44.09	222.94
Tehri	829.79	740.04	819.60	994.27	818.65	97527.00	42.17	143.00
Koteshwar	612.50	598.50	610.59	4.95	609.85	4.50	143.00	147.05
Chamera-I	760.00	748.75	756.84	0.00	0.00	0.00	48.36	48.36
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	509.97	3.35	510.29	2.88	50.10	152.34

* 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	-254	0	-748	-716	0	-18.96	-11.44		-30.40
Delhi	-959	-272	0	-559	-271	0	-17.79	-2.91		-20.70
Haryana	-701	176	0	-701	22	0	-23.09	0.63		-22.47
HP	293	90	0	221	30	0	7.87	-0.64		7.22
J&K	497	332	0	497	430	0	11.94	6.58		18.52
CHD	0	0	0	0	-15	0	0.00	-0.17		-0.17
Rajasthan	-8	20	0	226	-789	0	7.50	-0.18		7.32
UP	86	0	0	-54	-68	0	-4.56	-1.45		-6.01
Uttarakhand	120	118	0	120	211	0	3.06	3.36		6.41
Total	-1419	209	0	-997	-1168	0	-34.04	-6.24		-40.28

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-748	-850	-254	-870	0	0
Delhi	-559	-959	161	-437	0	0
Haryana	-701	-1377	179	-960	0	0
HP	433	211	258	-723	0	0
J&K	497	497	479	-261	0	0
CHD	0	0	19	-82	0	0
Rajasthan	384	-8	1335	-980	0	0
UP	86	-540	0	-72	0	0
Uttarakhand	178	120	326	-276	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	12
Haryana	3	26
Rajasthan	4	27
Delhi	5	30
UP	0	12
Uttarakhand	2	16
HP	1	21
J & K	2	22
Chandigarh	4	22

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 24.11.2017 :

XVI. Synchronisation of new generating units :

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

1. 400KV Bus-1 at Chithorgarh along with bay no: 419 first time charged @ 19:58Hrs on 24.11.17
2. Bay No: 416 at Chithorgarh first time charged @ 20:00Hrs on 24.11.17.

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 : 24.11.2017

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER