



सत्यमेव जयते

Government of India

विद्युत मंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

नवंबर- 2018

November -2018



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INDEX

Sl. No.	Contents	Page No.
1	Highlights & Salient Features	1-2
2.	Power Supply Position of Eastern Region and Constituents wise performance	3-3A
5.	Comparative study of power supply position with previous year	4
6.	Entitlement/Schedule/Drawal & Energy Exchanges for the month	5
7.	Performance vis-à-vis Energy Generation from Power Stations	6-7
8.	Plant Load Factor(PLF) of Thermal Power Stations	8- 9
9.	Power Scenario at the time of Regional Peak	10
10.	Hourly Load/Generation Data of region for Peak day & Lean day	11
11	Notified Power Cut, Restriction & Power Supply to Agriculture Sector & Various Meeting held in November'18	12
ANNEXURES		
I	Frequency Analysis	13
II	Voltage Analysis	14
III	Reservoir level of major hydro stations and Import from IPPs/CPPs by Constituents	15
EXHIBITS		
I	Chart: Effective Capacity & Generation Corresponding to Peak Demand Met	16
II	Chart: Net Energy Generation & Reservoir Levels recorded	17
III	Chart: Capacity & Generation pattern of the Peak Day	18
IV	Daily Regional Peak Demand Met & Shortage	19
V	Hourly Load/generation Pattern of Peak Day	20
VI	Hourly Load/generation Pattern of Lean Day	21
VII	Monthly Load Duration Curve	22
VIII	Reservoir Levels	23

Highlights of Eastern Regional Power System for November-2018

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Nov, 2018** was **20322MW** which is 10.59% more than the **Nov, 2017** (18377 MW). Individual **Peak Demand (MW)** of majority constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Nov, 2018** was **368.26 MU** excluding export, which is 10.87% more than the corresponding period of last year (332.17 MU).
- **The Average regional PLF of thermal units during the month is 62.65%**, which is 7.71% more than the corresponding period of the last year (**54.94%**).
- **DVC, (CTPS U#7&8)** registered the highest **PLF of 97.61 %**, followed by NTPC (FSTPP#I&II) 92.62% GRIDCO (TTPS) 90.35% and NTPC (Barh STPS-II) 88.49% during the month of **Nov, 2018**.
- **Maximum Net generation** of ER was **21242 MW** against total **Effective Capacity of 35443 MW** (including import from Bhutan). At the time of Regional peak (20322 MW on 05.11.2018 at 20.00 hrs.) the generation was 20304 MW and import from CPP was 1022 MW, Net export was 1004 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 79.88% of time during the month. **Average frequency** for the month was **49.97 Hz**. The instantaneous maximum and the minimum frequency touched were 50.25 Hz and 49.70 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.18 Hz** and **49.79 Hz** respectively (**refer Annexure-I**).
- The **Maximum Voltage** recorded **430 KV** at Jeerat 400 **KV S/s** whereas the minimum voltage recorded 381 KV at Binaguri 400 KV S/s of Power grid.
- **The Maximum Export from ER to outside region was 6170 MW (including Nepal and Bangladesh) on 21st November, 2018 at 17:00 hrs. Total net energy export during the month was 2336.47 MU which is corresponds to 18.53 % of ex-bus total generation (12607.73 MU) of Eastern Region.**
- **The import from CPPs was 786.53 MU during the month.**
- **Export(+)/Import(-) during the month:**

Region/Country	Max. Export of Power from ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy inc. Transmission loss(MU)
NR	2976	288	1129.46
WR	0	3443	-1159.06
SR	3028	0	1489.43
NER	1094	0	382.35
BANGLADESH	724	0	428.77
NEPAL (via-CTU)	146		65.61
Total(Net)	6170	3472	2336.47
NEPAL by Bihar(NBPDCL)			58.72

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Nov-18	NOV-2017	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	27205	28620	-1415	-4.94
HYDRO	(MW)	5876	\$ 5947	-71	-1
DIESEL	(MW)	0	7	-7	0
RES	(MW)	886	10	0	0
TOTAL	(MW)	33967	34584	-617	-1.78
2) Peak Demand (MW)		20512	18878	1634	8.66
3) Peak Demand Met (MW)		20322	18377	1945	10.59
4) Shortage (MW)		190	500	-310	-62.02
5) % Shortage		0.93	2.65	-1.72	-65.06
6) Average Energy Requirement Per Day (MU)		371.03	336.69	34.34	10.20
7) Average Energy Availability Per Day (MU)		368.26	332.17	36.09	10.87
8) Average Shortage Per Day (MU)		2.77	4.53	-1.76	-38.81
9) % Shortage		0.75	1.34	-0.60	-44.48
10) Net Generation for the Month					
Thermal (MU)		11342.80	10397.57	945.23	9.09
Hydro (MU)		1220.99	* 1288.95	-67.96	-5.27
RES (MU)		43.95	0.00	0.00	-
Total (MU)		12607.73	11699.75	907.98	7.76
11) Generation at the Time of Max. Regional Demand Met (05-11-18 at 20.00 Hrs.)					
Thermal (MW)		16710	14821	1889	12.74
Hydro (MW)		3571	* 4497	-926	-20.59
RES(MW)		24	0	24	-
Total (MW)		20304	19318	986	5.11
12) Inter-Regional Energy Transfer					
Export (MU)		3495.53	2983.06	512.47	17.18
Import (MU)		1159.06	843.38	315.68	37.43
Net Exp.(+)/Net Imp.(-) (MU)		2336.47	2139.68	196.79	9.20
13) Import From Captive(MU)		786.54	1311.86	-525.32	-40.04
14) Peak Inter Regional Power Transfer					
Max Export (MW) on 21-11-18 at 17.00Hrs		6170	5566	604	10.86
Max Import (MW) on 07-11-18 at 20.00Hrs		3472	2666	806	30.21
Max Net Export(+)/Import (-) (MW)		5259	5961	-702	-11.78
15) Maximum voltage recorded		430	JEERAT	400 kv s/s	
16) Minimum voltage recorded		381	BINAGURI	400 kv s/s	

\$ Excludes 1566 MW contribution from HEPs of Bhutan

* Includes contribution from HEP of Bhutan (Chukha, Kurichhu & Tala)

Due to de-commissioning of Units

POWER SUPPLY POSITION FOR THE MONTH OF NOVEMBER'2018

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	73.95	74.19	0.25	0.33
JUVNL	24.03	24.42	0.39	1.62
DVC	60.77	62.57	1.81	2.89
ODISHA	88.72	88.83	0.11	0.12
WBSIEDCL	87.95	88.12	0.17	0.20
CESC	25.37	25.40	0.03	0.12
DPL	5.94	5.95	0.01	0.12
SIKKIM	1.54	1.54	0.00	0.12
REGION	368.26	371.03	2.77	0.75

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSPHCL	4425	4425	0	0.00
JUVNL	1289	1289	0	0.00
DVC	2837	2837	0	0.01
ODISHA	4516	4516	0	0.00
WBSIEDCL	5627	5630	3	0.06
CESC	1758	1763	5	0.3
DPL	273	273	0	0.00
SIKKIM	101	101	0	0.00
REGION	20322	20512	190	1

➤ **DIVERSITY FACTOR** **1.02**

➤ **Regional Peak Demand Met on 5-11-2018 at 20.00 hrs. at 50.02 Hz.**

CONSTITUENT-WISE PERFORMANCE DATA NOVEMBER-18

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total	Import from	Exchange	Energy	Per Day	Net Peak	Gross Peak
													Captive (MU)	Net Import(+)	Consumption(MU)	Cons.(MU)	Demand	Demand
													Net Export(-)			Met (MW)	Met (MW)	
BSPHCL	0.00	60.64	20.23	80.88	0.00	6.97	0.00	6.97	0.00	53.68	20.23	73.91	0.00	2144.57	2218.48	73.9	4425	4436
JUVNL	0.19	236.01	0.00	236.20	0.00	25.36	0.00	25.36	0.19	210.65	0.00	210.84	45.03	464.96	720.82	24.0	1289	1341
DVC	5.41	2615.06	0.00	2620.47	0.07	192.40	0.00	192.47	5.34	2422.66	0.00	2428.00	10.21	-615.23	1822.99	60.8	2837	3122
ODISHA(OPGC+OHPC+TTPS)	389.86	557.21	21.02	968.09	4.64	59.45	0.00	64.09	385.22	497.76	21.02	904.00	547.33	1210.28	2661.61	88.7	4516	4610
WBPDC+WBSEDCL	122.87	1643.60	0.00	1766.47	0.00	162.20	0.00	162.20	122.87	1481.40	0.00	1604.27	183.96	850.25	2638.48	87.9	5627	5936
DPL	0.00	184.11	0.49	184.60	0.00	16.81	0.00	16.81	0.00	167.30	0.49	167.79	0.00	10.52	178.31	5.9	273	298
CESC	0.00	393.36	0.00	393.36	0.00	32.19	0.00	32.19	0.00	361.17	0.00	361.17	0.00	399.88	761.05	25.4	1758	1828
HEL	0.00	377.26	0.00	377.26	0.00	28.37	0.00	28.37	0.00	348.89	0.00	348.89	0.00	-348.89				
SIKKIM	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	45.06	46.06	1.5	101	101
NTPC	0.00	4400.50	0.00	4400.50	0.00	294.25	0.00	294.25	0.00	4106.25	0.00	4106.25	0.00	-4106.25				
BRBCL	0.00	285.01	0.00	285.01	0.00	20.07	0.00	20.07	0.00	264.94	0.00	264.94	0.00	-264.94				
MPL	0.00	595.66	0.00	595.66	0.00	33.69	0.00	33.69	0.00	561.97	0.00	561.97	0.00	-561.97				
APNRL	0.00	270.10	0.00	270.10	0.00	22.15	0.00	22.15	0.00	247.95	0.00	247.95	0.00	-247.95				
GMR	0.00	372.40	0.00	372.40	0.00	21.41	0.00	21.41	0.00	350.98	0.00	350.98	0.00	-350.98				
JITPL	0.00	286.88	0.00	286.88	0.00	19.68	0.00	19.68	0.00	267.20	0.00	267.20	0.00	-267.20				
NHPC (Inc TLDP= 61.59 MU)	236.83	0.00	0.00	236.83	0.00	0.00	0.00	0.00	236.83	0.00	0.00	236.83	0.00	-236.83	0.00			
CHPC(Birpara Receipt)	48.99	0.00	0.00	48.99	0.00	0.00	0.00	0.00	48.99	0.00	0.00	48.99	0.00	-48.99	0.00			
KHPS	11.34	0.00	0.00	11.34	0.00	0.00	0.00	0.00	11.34	0.00	0.00	11.34	0.00	-11.34	0.00			
THPS	48.60	0.00	0.00	48.60	0.00	0.00	0.00	0.00	48.60	0.00	0.00	48.60	0.00	-48.60	0.00			
DAGACHU HPS	19.22	0.00	0.00	19.22	0.00	0.00	0.00	0.00	19.22	0.00	0.00	19.22	0.00	-19.22	0.00			
CHUZACHEN HPS	15.94	0.00	0.00	15.94	0.00	0.00	0.00	0.00	15.94	0.00	0.00	15.94	0.00	-15.94	0.00			
JORHANG HPS	21.70	0.00	0.00	21.70	0.00	0.00	0.00	0.00	21.70	0.00	0.00	21.70	0.00	-21.70	0.00			
TEESTA-III HPS	263.97	0.00	0.00	263.97	0.00	0.00	0.00	0.00	263.97	0.00	0.00	263.97	0.00	-263.97	0.00			
DIKCHU HPS	18.47	0.00	0.00	18.47	0.00	0.00	0.00	0.00	18.47	0.00	0.00	18.47	0.00	-18.47	0.00			
TASHIDING HPS	22.30	0.00	0.00	22.30	0.00	0.00	0.00	0.00	22.30	0.00	0.00	22.30	0.00	-22.30	0.00			
TALCHER SOLAR	0.00	0.00	1.21	1.21	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	0.00	-1.21				
Total Drawal by HVDC Sahasaram,Alipurduar,BRBCL,Indbharat and OPGC														10.03				
Total	1225.70	12277.81	43.95	13547.46	4.71	935.01	0.00	939.71	1220.99	11342.81	43.95	12607.75	786.53	-2336.45	11057.82	368.6	20322	21731

POWER SUPPLY POSITION IN EASTERN REGION DURING THE YEAR AS COMPARED TO PREVIOUS YEAR

A) Net Average Energy

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)	(MU/Day)	(MU/Day)	(MU/Day)	(%)	(HZ)
APRIL	394.05	397.91	3.86	0.97	49.98	393.59	396.98	3.39	0.85	49.96
MAY	389.99	394.80	4.81	1.22	49.98	420.52	425.36	4.84	1.14	49.94
JUNE	398.64	401.43	2.79	0.70	49.99	437.39	441.13	3.74	0.85	49.97
JULY	381.05	383.05	2.00	0.52	49.98	425.68	427.31	1.63	0.38	49.97
AUGUST	394.80	396.81	2.01	0.51	49.98	446.36	449.17	2.81	0.63	49.97
SEPTEMBER	418.67	420.99	2.32	0.55	49.97	440.53	448.47	7.94	1.77	49.96
OCTOBER	390.86	393.65	2.79	0.71	49.96	419.33	423.20	3.87	0.91	49.96
NOVEMBER	332.17	336.69	4.53	1.34	49.96	368.26	371.03	2.77	0.75	49.97
DECEMBER	329.55	331.98	2.43	0.73	49.98	-	-	-	-	-
JANUARY	353.94	356.68	2.74	0.77	49.98	-	-	-	-	-
FEBRUARY	361.36	364.11	2.75	0.76	49.98	-	-	-	-	-
MARCH	393.97	396.42	2.45	0.62	49.97	-	-	-	-	-

B) Peak in MW:

Month	2017-18					2018-19				
	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.	Demand Met	Requirement	Shortage	Shortage	Avg. Freq.
	(MW)	(MW)	(MW)	(%)	(HZ)	(MW)	(MW)	(MW)	(%)	(HZ)
APRIL	19164	19387	224	1.15	49.98	21058	21128	70	0.33	49.96
MAY	19509	19664	155	0.79	49.98	21902	22012	111	0.50	49.94
JUNE	18994	19047	53	0.28	49.99	22080	22964	884	3.85	49.97
JULY	19110	19200	91	0.47	49.98	21790	21849	59	0.27	49.97
AUGUST	19221	19514	293	1.50	49.98	22580	22794	215	0.94	49.97
SEPTEMBER	20283	20670	387	1.87	49.97	22286	22815	529	2.32	49.96
OCTOBER	19882	19966	84	0.42	49.96	22733	23093	360	1.56	49.96
NOVEMBER	18377	18866	489	2.66	49.96	20322	20512	190	0.93	49.97
DECEMBER	17837	18195	358	2.01	49.98	-	-	-	-	-
JANUARY	18238	18508	270	1.48	49.98	-	-	-	-	-
FEBRUARY	18918	19196	278	1.47	49.98	-	-	-	-	-
MARCH	20567	20951	384	1.87	49.97	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOVEMBER'2018

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross	Net	Cummulative Gross	Cummulative Net	
					Energy Generation in MU	Energy Generation in MU	Energy Generation upto Current Month (2018-19) in MU	Energy Generation upto Current Month (2018-19) in MU	
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	39.47	
		Muzaffarpur Stg-I	220.00	220.00	60.64	53.67	338.55	293.41	
		Thermal Total	440.00	430.00	60.64	53.67	383.41	332.88	
	RES		327.40	327.40	20.23	20.23	162.88	162.88	
		Total BIHAR	767.40	757.40	80.87	73.90	546.29	495.76	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	236.01	210.65	1135.17	988.40	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.19	0.19	93.91	93.91	
	RES		29.72	29.72	0.00	0.00	0.00	0.00	
		Total	159.72	159.72	0.19	0.19	93.91	93.91	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	92.67	80.47	486.77	426.92	
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	351.39	320.47	2638.91	2399.99	
		Durgapur(4)	210.00	210.00	96.92	85.20	604.85	526.25	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	513.71	462.18	4416.59	3955.13	
		Mezia(U # 7,8)	1000.00	1000.00	491.79	466.76	3598.99	3409.15	
		Bokaro-A(1,2)	500.00	500.00	0.00	-1.97	2042.84	1925.55	
		Durgapur STPS (U#1,2)	1000.00	1000.00	539.01	512.57	4013.10	3807.30	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	201.57	186.62	1837.01	1706.17	
		Koderma STPS (U#1,2)	1000.00	1000.00	328.00	310.37	4139.24	3939.10	
		Total Thermal	7100.00	7090.00	2615.06	2422.66	23778.29	22094.89	
	6.273	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.91	2.88	90.19	89.86
			Panchet (U#1,2)	80.00	80.00	0.99	0.96	74.69	74.02
			Tilaya (U#1,2)	4.00	4.00	1.51	1.51	1.75	1.71
Hydro Total			147.20	147.20	5.41	5.34	166.63	165.55	
	Total DVC	7247.20	7237.20	2620.47	2428.00	23944.91	22260.44		
WEST BENGAL									
WBPDCCL	Thermal	Bandel TPS	540.00	450.00	92.09	82.63	976.79	867.29	
		Santalidih TPS(U#5&6)	500.00	500.00	278.33	254.37	2326.76	2126.79	
		Kolaghat TPS	1260.00	1260.00	341.78	302.99	3083.40	2730.49	
		Bakreswar TPP	1050.00	1050.00	549.16	498.21	4621.44	4188.13	
		Sagardighi TPP	1600.00	1600.00	382.23	343.21	4133.54	3732.37	
		Thermal Total	4950.00	4860.00	1643.60	1481.40	15141.92	13645.06	
WBSIEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	15.88	15.88	170.91	170.91	
		Ramam (4x12.73)	51.00	51.00	14.97	14.97	198.67	198.67	
		Teesta C.F. (3x3x7.3)	67.30	67.30	8.23	8.23	85.46	85.46	
		Purulia PSS (4x225)	900.00	900.00	83.79	83.79	727.14	727.14	
		Total Hydro	1053.30	1053.30	122.87	122.87	1182.18	1182.18	
		RES	277.52	277.52	0.00	0.00	0.00	0.00	
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	184.11	167.30	1618.15	1449.06	
		RES	5.00	5.00	0.49	0.49	4.12	4.12	
		➤ Chandrapura #1 is retired on 17.01.17							
		➤ Patratu # 1,2,3,5,8 are retired on 21.12.16							

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOVEMBER 2018

ORGANISATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	Net Energy Generation in MU	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative Net Energy Generation upto Current Month (2018-19) in MU		
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00		
		Southern (2x67.5)	135.00	135.00	15.88	14.40	236.24	214.45		
		Budge-Budge (3x250)	750.00	750.00	377.49	346.77	4169.27	3846.48		
		Total CESC	1125.00	1125.00	393.36	361.17	4405.50	4060.93		
HEL	Thermal	HEL	600.00	600.00	377.26	348.89	3282.76	3033.48		
		Total West Bengal	8670.82	8580.82	2721.20	2481.63	25632.17	23372.37		
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	148.68	133.00	1242.60	1107.46		
		Talcher-II	220.00	220.00	150.56	134.69	1107.42	985.12		
		Total Thermal	470.00	460.00	299.24	267.69	2350.02	2092.59		
OPGC	Thermal	IB TPS	420.00	420.00	257.97	230.07	2030.60	1810.41		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	20.00	19.77	321.67	319.83		
		Hirakud-II (Chiplima)	72.00	72.00	10.92	10.85	126.65	126.11		
		Balimela (6x60+2x75)	510.00	510.00	85.40	84.88	1340.61	1336.30		
		Rengali (5x50)	250.00	250.00	17.49	17.36	676.70	675.77		
		Upper Kolab (4x80)	320.00	320.00	52.44	52.14	661.67	659.98		
		Indravati HPS (4x150)	600.00	600.00	181.65	178.26	1604.39	1573.22		
		Mckd.(Odisha drawal)	57.38	57.38	21.96	21.96	164.90	164.90		
		Total Hydro	2084.88	2084.88	389.86	385.22	4896.59	4856.10		
		RES	184.30	184.30	21.02	21.02	110.21	110.21		
		Total Odisha	3159.18	3149.18	968.08	904.00	9387.42	8869.30		
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00	1.00	22.00	22.00		
NTPC		MTPS Stg-II	390.00	390.00	231.439	208.67	1478.51	1317.40		
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1067.00	996.41	7318.63	6811.97		
		FSTPP (U# 6)	500.00	500.00	243.00	226.80	2378.14	2217.47		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1432.00	1337.07	10822.72	10038.14		
		TSTPP (2x500)	1000.00	1000.00	586.06	537.96	5054.77	4644.08		
		BARH STPS II (2X660)	1320.00	1320.00	841.00	799.33	6597.56	6253.23		
		Total NTPC	7150.00	7150.00	4400.50	4106.25	33650.32	31282.28		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	26.83	26.83	288.48	288.48
Teesta (3x170)	510.00			510.00	148.42	148.42	2292.38	2292.38		
TLDP -(4x33+4x40)	292.00			292.00	61.59	61.59	1106.40	1106.40		
Total NHPC	862.00			862.00	236.83	236.83	3687.27	3687.27		
JPP		MPL (U#1&2)	1050.00	1050.00	595.66	561.97	4734.41	4463.50		
		APNRL (U#1,2)	540.00	540.00	270.10	247.95	2097.20	1922.42		
		GMR (2x350)	700.00	700.00	372.40	350.98	2988.01	2816.20		
		JITPL (2X600)	1200.00	1200.00	286.88	267.20	2836.00	2636.86		
		BRBCL # 1,2	500.00	500.00	285.01	264.94	1379.98	1265.41		
		CHUZACHEN** (2x55)	110.00	110.00	15.94	15.94	381.88	380.65		
		JORETHANG (2x48)	96.00	96.00	21.70	21.70	367.21	367.21		
		TEESTA URJA St III (6x200)	1200.00	1200.00	263.97	263.97	3571.94	3571.94		
		Tashilding (2x48.5)	97.00	97.00	22.30	22.30	372.39	372.39		
		DICKCHU (3X32)	96.00	96.00	18.47	18.47	426.43	426.43		
		TALCHER SOLAR	10.00	10.00	1.21	1.21	8.85	8.85		
		Total Thermal (E.R)	27325.00	27205.00	12277.80	11342.80	101811.73	93894.38		
		EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	1097.54	1092.83	15149.42	15106.62
				Total RES	886.05	886.05	43.95	43.95	305.06	305.06
				TOTAL (E.R)	34087.43	33967.43	13419.29	12479.58	117266.21	109306.05
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	48.99	48.99	1298.12	1298.12		
		Kurichu (4x15)	60.00	60.00	11.34	11.34	335.26	335.26		
		TALA (6x170)	1020.00	1020.00	48.60	48.60	2376.98	2376.98		
		DAGACHU (2x63)	126.00	126.00	19.22	19.22	299.90	299.90		
		Grand Total	35653.43	35443.43	13547.44	12607.73	121576.48	113616.32		

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF NOVEMBER' 2018

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY (in MW)	EFFECTIVE CAPACITY (in MW)	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2018-19) in MU	Cummulative PLF upto Current Month (%)
BIHAR	Thermal	Barauni (U# 6&7)	220.00	210.00	0.00	0.00	44.86	3.65
		Muzaffarpur Stg-I	220.00	220.00	60.64	38.28	338.55	26.28
		Thermal Total	440.00	430.00	60.64	19.59	383.41	15.23
	RES			20.23		162.88		
		Total BIHAR	767.40	757.40	80.87		546.29	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	236.01	78.05	1135.17	46.15
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.19		93.91	
		RES	29.72	29.72	0.00		0.00	
		Total	159.72	159.72	0.19		93.91	
DVC	Thermal	Bokaro-B(3)	210.00	210.00	92.67	61.29	486.77	39.58
		Chandrapura (3)	140.00	130.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	351.39	97.61	2638.91	90.13
		Durgapur(4)	210.00	210.00	96.92	64.10	604.85	49.18
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	513.71	53.25	4416.59	56.28
		Mezia(U # 7,8)	1000.00	1000.00	491.79	68.30	3598.99	61.46
		Bokaro-A(1,2)	500.00	500.00	0.00	0.00	2042.84	69.77
		Durgapur STPS (U#1,2)	1000.00	1000.00	539.01	74.86	4013.10	68.53
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	201.57	23.33	1837.01	26.14
	<i>Koderma STPS (U#1,2)</i>	1000.00	1000.00	328.00	45.56	4139.24	70.68	
		Total Thermal	7100.00	7090.00	2615.06	51.23	23778.29	57.27
	Hydro	Maithon (U#1,2,3)	63.20	63.20	2.91		90.19	
		Panchet (U#1,2)	80.00	80.00	0.99		74.69	
Tilaya (U#1,2)		4.00	4.00	1.51		1.75		
Hydro Total		147.20	147.20	5.41		166.63		
	Total DVC	7247.20	7237.20	2620.47		23944.91		
WEST BENGAL								
WBPDCL	Thermal	Bandel TPS	540.00	450.00	92.09	28.42	976.79	37.07
		Santalidih TPS(U#5&6)	500.00	500.00	278.33	77.31	2326.76	79.47
		Kolaghat TPS	1260.00	1260.00	341.78	37.67	3083.40	41.79
		Bakreswar TPP	1050.00	1050.00	549.16	72.64	4621.44	75.16
		Sagardighi TPP	1600.00	1600.00	382.23	33.18	4133.54	44.12
		Thermal Total	4950.00	4860.00	1643.60	46.97	15141.92	53.20
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	15.88		170.91	
		Ramam (4x12.73)	51.00	51.00	14.97		198.67	
		Teesta C.F. (3x3x7.3)	67.30	67.30	8.23		85.46	
		Purulia PSS (4x225)	900.00	900.00	83.79		727.14	
		Total Hydro	1053.30	1053.30	122.87		1182.18	
		RES	277.52	277.52	0.00		0.00	
	TLDP -(4x33+4x40)	292.00	292.00	61.59		1106.40		
DPL	Thermal	DPPS (110+300+250 *)	660.00	660.00	184.11	38.74	1618.15	41.87
		RES	5.00	5.00	0.49		4.12	

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF NOVEMBER' 2018

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross	PLF	Cummulative Gross	Cummulative PLF
					Energy Generation in MU	of Current Month (%)	Energy Generation upto Current Month (2018-19) in MU	upto Current Month (%)
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	15.88	16.33	236.24	29.88
		Budge-Budge (3x250)	750.00	750.00	377.49	69.90	4169.27	94.93
		Total CESC	1125.00	1125.00	393.36	48.56	4405.50	66.87
HEL	Thermal	600.00	600.00	377.26	87.33	3282.76	93.43	
		Total West Bengal	8670.82	8580.82	2721.20		25632.17	
ODISHA (NTPC)	Thermal	Talcher-I	250.00	240.00	148.68	86.04	1242.60	88.41
		Talcher-II	220.00	220.00	150.56	95.05	1107.42	85.96
		Total Thermal	470.00	460.00	299.24	90.35	2350.02	87.24
OPGC	Thermal	IB TPS	420.00	420.00	257.97	85.31	2030.60	82.56
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	20.00		321.67	
		Hirakud-II (Chiplima)	72.00	72.00	10.92		126.65	
		Balimela (6x60+2x75)	510.00	510.00	85.40		1340.61	
		Rengali (5x50)	250.00	250.00	17.49		676.70	
		Upper Kolab (4x80)	320.00	320.00	52.44		661.67	
		Indravati HPS (4x150)	600.00	600.00	181.65		1604.39	
		Mckd.(Odisha drawal)	57.38	57.38	21.96		164.90	
		Total Hydro	2084.88	2084.88	389.86		4896.59	
		RES	184.30	184.30	21.02		110.21	
Total Odisha	3159.18	3149.18	968.08		9387.42			
(**) SIKKIM	Hydro	RES	52.11	52.11	1.00		22.00	
NTPC		MTPS Stg-II	390	390	231.439	82.42	1478.5107	64.74
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	1067.00	92.62	7318.63	78.11
		FSTPP (U# 6)	500.00	500.00	243.00	67.50	2378.14	81.22
		KhSTPP (4x210+3x500)	2340.00	2340.00	1432.00	85.00	10822.72	78.98
		TSTPP (2x500)	1000.00	1000.00	586.06	81.40	5054.77	86.32
		BARH STPS II (2X660)	1320.00	1320.00	841.00	88.49	6597.56	85.35
		Total NTPC	7150.00	7150.00	4400.50	85.48	33650.32	80.37
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	26.83	
Teesta (3x170)	510.00			510.00	148.42		2292.38	
TLDP -(4x33+4x40)	292.00			292.00	61.59		1106.40	
Total NHPC	862.00			862.00	236.83		3687.27	
IPP IPP	Thermal	MPL (U#1&2)	1050.00	1050.00	595.66	78.79	4734.41	77.00
		APNRL (U#1,2)	540.00	540.00	270.10	69.47	2097.20	66.32
		GMR (2x350)	700.00	700.00	372.40	73.89	2988.01	72.89
		JITPL (2X600)	1200.00	1200.00	286.88	33.20	2836.00	40.36
		BRBCL # 1,2	500.00	500.00	285.01	79.17	1379.98	47.13
		CHUZACHEN** (2x55)	110.00	110.00	15.94		381.88	
		JORETHANG (2x48)	96.00	96.00	21.70		367.21	
		TEESTA URJA St III (6x200)	1200.00	1200.00	263.97		3571.94	
		Tashilding (2x48.5)	97.00	97.00	22.30		372.39	
		DICKCHU (3X32)	96.00	96.00	18.47		426.43	
		TALCHER SOLAR	10.00	10.00	1.21		8.85	
		Total Thermal (E.R)	27325.00	27205.00	12277.80	62.68	101811.73	63.91
		EASTERN REGIONAL		Total Hydro (E.R)	5876.38	5876.38	1097.54	
Total RES	886.05			886.05	43.95		305.06	
TOTAL (E.R)	34087.43			33967.43	13419.29		117266.21	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	48.99		1298.12	
		Kurichu (4x15)	60.00	60.00	11.34		335.26	
		TALA (6x170)	1020.00	1020.00	48.60		2376.98	
		DAGACHU (2x63)	126.00	126.00	19.22		299.90	
		Grand Total	35653.43	35443.43	13547.44		121576.48	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF NOVEMBER'2018 (5-11-2018)

Date **5-Nov-18**
Time **20.00** Hrs.
Frequency **50.02** Hz.

(All Fig. in MW)

System/State	Installed	Effective	Hydro	Thermal	RES	Total
	Capacity	Capacity				
BSPHCL	767	757	0	88	0	88
JUVNL	580	580	0	293	0	293
DVC	7247	7237	36	3158	0	3194
ODISHA	3159	3149	1263	693	24	1979
WBSEDCL	6281	6191	384	2683	0	3067
TLDP	292	292	192	0	0	192
HEL HALDIA	600	600	0	538	0	538
CESC	1125	1125	0	827	0	827
DPL	665	665	0	227	0	227
SIKKIM	52	52	0	0	0	0
NTPC	7150	7150	0	5407	0	5407
NHPC	570	570	580	0	0	580
CHUKHA	360	270	122	0	0	122
KURICHU	60	60	33	0	0	33
TALA	1020	1020	121	0	0	121
MPL	1050	1050	0	972	0	972
0	0	0	0	0	0	0
APNRL	540	540	0	411	0	411
Kamalganga (GMR)	700	700	0	585	0	585
JITPL	1200	1200	0	503	0	503
BRBCL	500	500	0	325	0	0
Chuzachen	110	110	101	0	0	101
Jorethang	96	96	23	0	0	23
TEESTA URJA St III	1200	1200	573	0	0	573
Tashilding	97	97	38	0	0	38
DICKCHU	96	96	75	0	0	75
<u>Daghachu</u>	126	126	30	0	0	30
<u>Solar</u>	10	10	0	0	0	0
<u>0</u>	0	0	0	0	0	0
<u>Total</u>	35653	35443	3571	16710	24	20304

Import From Captive:

1022

Export To:

NER

528

SR

1687

WR

-2236

NR

202.38

Bangladesh

712.07

Nepal

110.54

Total

1004

➤ I Net Peak Demand Met (MW) :

20322

Indicates Export(+)/Import(-) of Power

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOVEMBER'2018 (5-11-2018)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From CHPS, KHPS & TALA	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	2053	15408	17461	799	250	1831	16678	13	238	16929
2	1329	15512	16841	805	252	1368	16529	49	295	16874
3	944	15564	16508	813	249	1217	16353	49	298	16699
4	1037	15584	16622	821	249	1278	16414	30	233	16677
5	1181	15582	16763	824	244	1379	16452	46	168	16666
6	1900	15889	17790	847	219	2265	16590	30	393	17014
7	2151	16123	18274	872	186	3549	15783	29	391	16203
8	2138	16163	18301	950	201	3733	15719	36	246	16000
9	1996	16176	18171	966	208	3949	15397	73	321	15790
10	2208	16206	18413	945	195	4218	15336	62	393	15790
11	2236	16106	18343	985	193	3848	15672	22	391	16086
12	2023	16114	18138	933	197	3543	15726	39	258	16022
13	1454	16130	17585	963	199	2763	15984	29	124	16138
14	903	16171	17074	945	217	2631	15605	1	250	15856
15	965	16414	17380	1011	210	3059	15542	29	218	15788
16	1719	16205	17923	951	198	3544	15529	61	94	15684
17	2446	16231	18678	954	219	3299	16553	14	2	16569
18	3495	16560	20055	990	247	1820	19473	55	176	19703
19	3517	16870	20388	1026	281	1473	20222	-4	312	20530
20	3319	16710	20028	1023	276	1004	20322	-14	204	20512
21	2934	16608	19542	977	273	997	19796	3	221	20020
22	2519	16469	18988	1003	270	1329	18932	12	365	19308
23	1839	16339	18178	996	287	1516	17945	11	158	18114
24	1659	15939	17598	1036	295	1143	17787	9	1	17797

Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOVEMBER'2018 (25-11-2018)

(All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From CHPS, KHPS & TALA	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	648	14812	15459	961	113	2591	13943	12	0	13955
2	606	14588	15194	962	113	2505	13765	17	0	13782
3	549	14415	14965	955	100	2513	13506	17	1	13523
4	421	14337	14758	921	101	2333	13447	-11	1	13447
5	435	14625	15060	957	93	2417	13693	-7	0	13693
6	934	14653	15588	944	84	2426	14189	2	1	14192
7	1654	14738	16392	949	70	2909	14501	-3	1	14503
8	2017	14935	16953	927	69	3460	14489	39	104	14632
9	2005	15441	17446	895	71	4252	14160	19	200	14379
10	2041	15376	17417	904	73	4334	14059	16	195	14270
11	1815	15386	17201	877	81	4265	13893	27	186	14105
12	1207	15429	16636	896	73	3938	13668	20	90	13779
13	663	15416	16079	887	80	3583	13463	11	2	13476
14	425	15139	15564	907	88	3660	12900	-8	2	12902
15	315	14810	15126	889	84	3909	12190	-4	2	12192
16	313	14842	15155	918	75	3634	12514	16	1	12532
17	1486	15071	16557	965	52	3937	13638	24	0	13661
18	3335	15297	18632	939	51	2953	16669	26	225	16920
19	3535	15421	18956	1029	156	2711	17430	3	144	17577
20	3418	15219	18637	968	171	2673	17102	-3	144	17243
21	2405	15116	17521	952	189	2215	16447	0	0	16447
22	1717	14946	16663	970	216	2344	15505	4	0	15510
23	847	14774	15621	932	213	2456	14310	0	86	14396
24	534	14549	15083	940	203	2387	13839	-10	86	13915

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR
 FOR THE MONTH OF NOVEMBER'2018
POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 4.68 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 10.98 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 52.05 MU
ODISHA	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 0.00 MU
WEST BENGAL	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 2.04 MU

POWER SUPPLY TO AGRICULTURAL SECTOR

STATE	HOURS OF SUPPLY (AVERAGE / DAY)
BIHAR	18 HRS.00 MINS.
JHARKHAND	ABOUT 20 to 22 HRS.
ODISHA	24 HRS.
WEST BENGAL	23 HRS.

List of Meetings / Workshops held during the month of November, 2018

Sl. No.	Description	Date	Venue
1	Meeting on SCADA	12.11.2018	ERPC, Kolkata
2	39th TCC Meeting	16.11.2018	Jaipur
3	39th ERPC Meeting	17.11.2018	Jaipur
4	151st OCC Meeting	27.11.2018	Farakka
5	73rd PCC Meeting	29.11.2018	ERPC, Kolkata
6	8th Meeting of NPC	30.11.2018	Guwahati

FREQUENCY DETAILS FOR THE MONTH OF Nov-18

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00 TO 05	05 TO 10	10 TO 17	17 TO 22	22 TO 24	00 TO 24	<49.9	49.9 TO 50.1	>50.05	49.9 TO 50.05	MAX HZ	HRS.	MIN HZ	HRS.	MAX HZ	HRS.	MIN HZ	HRS.
	01-Nov	49.97	49.96	49.95	50.00	49.98	49.97	8.70	81.90	9.40	81.90	50.16	13.05.40	49.82	05.12.50	50.10	0:00	49.88
02-Nov	49.99	49.95	49.97	49.96	49.93	49.96	11.20	83.60	5.20	83.60	50.21	13.01.50	49.80	22.08.20	50.08	0:00	49.86	0:00
03-Nov	49.95	49.93	49.93	49.98	49.92	49.94	20.20	75.10	4.70	75.10	50.13	06.02.30	49.78	10.11.00	50.06	0:00	49.83	0:00
04-Nov	49.96	49.98	49.96	49.92	49.93	49.95	15.45	79.35	5.20	79.35	50.18	06.02.50	49.78	20.49.00	50.07	0:00	49.86	0:00
05-Nov	49.94	49.92	49.95	49.98	49.98	49.95	1.60	85.80	12.60	85.80	50.14	13.04.10	49.75	15.17.20	50.06	0:00	49.81	0:00
06-Nov	49.96	49.99	50.00	50.01	50.00	49.99	12.80	82.10	5.10	82.10	50.15	06.02.10	49.87	07.34.50	50.10	0:00	49.91	0:00
07-Nov	49.98	50.01	50.01	50.01	49.99	50.00	0.30	80.10	19.60	80.10	50.16	14.05.10	49.88	17.13.40	50.11	0:00	49.94	0:00
08-Nov	49.97	49.97	49.98	50.00	49.97	49.98	3.20	85.30	11.50	85.30	50.15	14.03.20	49.78	17.42.40	50.09	0:00	49.88	0:00
09-Nov	49.94	49.96	49.97	49.99	49.94	49.96	7.80	83.50	8.70	83.50	50.17	14.03.40	49.78	07.35.40	50.09	0:00	49.89	0:00
10-Nov	49.93	49.95	49.96	49.98	49.95	49.96	11.30	81.90	6.80	81.90	50.15	06.32.20	49.80	17.54.10	50.08	0:00	49.86	0:00
11-Nov	49.94	49.95	49.96	49.98	49.99	49.96	12.00	80.10	7.90	80.10	50.17	18.01.30	49.79	10.18.00	50.07	0:00	49.85	0:00
12-Nov	49.96	49.91	49.96	50.01	50.00	49.96	12.40	74.80	12.80	74.80	50.20	12.05.50	49.70	07.35.50	50.10	0:00	49.81	0:00
13-Nov	49.97	49.97	49.95	49.97	49.99	49.97	9.80	80.20	10.00	80.20	50.16	18.02.00	49.78	17.17.00	50.06	0:00	49.85	0:00
14-Nov	49.95	49.96	49.94	49.96	49.96	49.95	16.10	77.00	6.90	77.00	50.14	13.03.50	49.72	17.54.30	50.10	0:00	49.82	0:00
15-Nov	49.96	49.95	49.94	49.97	49.98	49.95	17.13	75.13	7.74	75.13	50.16	12.01.40	49.83	17.41.00	50.08	0:00	49.82	0:00
16-Nov	49.97	49.96	49.98	49.98	49.95	49.97	7.26	84.36	8.38	84.36	50.20	12.01.30	49.76	08.49.20	50.07	0:00	49.89	0:00
17-Nov	49.95	49.94	49.94	49.97	49.97	49.95	12.70	82.00	5.30	82.00	50.18	06.01.50	49.80	06.45.40	50.06	0:00	49.86	0:00
18-Nov	49.94	49.96	49.97	49.99	49.97	49.96	11.00	79.80	9.20	79.80	50.19	06.01.40	49.75	02.08.50	50.09	0:00	49.89	0:00
19-Nov	49.97	49.96	49.94	49.99	49.97	49.96	12.50	79.20	8.30	79.20	50.14	18.02.50	49.81	14.29.20	50.05	0:00	49.83	0:00
20-Nov	49.97	49.98	49.99	50.00	49.99	49.99	3.80	80.80	15.40	80.80	50.21	13.03.50	49.78	15.55.00	50.10	0:00	49.90	0:00
21-Nov	49.96	49.97	49.96	49.99	49.96	49.97	6.20	86.70	7.10	86.70	50.16	06.03.30	49.84	09.24.30	50.18	0:00	49.85	0:00
22-Nov	49.97	50.01	49.99	50.01	50.03	50.00	2.60	78.30	19.10	78.30	50.25	22.00.10	49.76	05.13.20	50.08	0:00	49.92	0:00
23-Nov	49.97	49.94	49.95	49.97	49.96	49.96	15.10	77.50	7.40	77.50	50.17	06.02.10	49.76	09.13.30	50.08	0:00	49.85	0:00
24-Nov	49.94	49.93	49.94	49.96	49.95	49.94	16.00	80.40	3.60	80.40	50.11	13.01.20	49.77	16.25.10	50.05	0:00	49.83	0:00
25-Nov	49.99	49.97	49.97	49.99	50.01	49.98	3.50	87.70	8.80	87.70	50.16	12.03.10	49.82	17.42.00	50.06	0:00	49.91	0:00
26-Nov	50.00	49.96	49.97	50.00	50.00	49.98	8.80	80.20	11.00	80.20	50.15	13.04.20	49.78	06.13.30	50.07	0:00	49.82	0:00
27-Nov	49.98	49.95	49.95	49.98	49.99	49.96	12.90	76.10	11.00	76.10	50.15	22.00.40	49.75	17.29.30	50.10	0:00	49.83	0:00
28-Nov	49.98	49.96	49.99	49.99	50.01	49.98	4.20	81.90	13.90	81.90	50.17	13.03.30	49.78	05.15.00	50.10	0:00	49.99	0:00
29-Nov	49.92	49.90	49.94	49.98	49.98	49.94	27.34	65.72	6.94	65.72	50.16	22.00.30	49.74	17.15.00	50.08	0:00	49.82	0:00
30-Nov	49.97	49.90	49.94	49.95	50.01	49.94	23.53	69.93	6.54	69.93	50.14	22.01.00	49.72	06.29.50	50.07	0:00	49.79	0:00
MAX	50.00	50.01	50.01	50.01	50.03	50.00	27.34	87.70	19.60	87.70	50.25		49.88		50.18		49.99	
MIN	49.92	49.90	49.93	49.92	49.92	49.94	0.30	65.72	3.60	65.72	50.11		49.70		50.05		49.79	
AVG	49.96	49.95	49.96	49.98	49.97	49.97	10.91	79.88	9.20	79.88	50.17		49.78		50.08		49.86	

SUMMARY:

Avg. Frequency : **49.97 Hz.**

Instantaneous Frequency :

Maximum Frequency : 50.25 Hz at 22.00.10 Hrs.

Minimum Frequency : 49.70 Hz at 07.35.50 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.18 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.79 Hz On 00/01/00 at 00:00 Hrs

Frequency Distribution in % of Time			
Hz	<49.9	49.9-50.05	>50.05
% of Time	10.91	79.88	9.20

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF NOVEMBER'2018

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	428	381	416	408	430	389	418	400

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	413	387	418	403	411	403	422	390

DETAILS OF CONSTITUENT WISE LOAD SHEDDING IMPLEMENTED THROUGH UFRs IN THE EASTERN REGION

Expected Load Relief through UFRs by ER Constituent:

(All Fig. are in MW)

STATES/ UTILITIES	STAGE-I (49.2 Hz) (Inst.)	STAGE-II (49.0 Hz) (Inst.)	STAGE-III (48.8 Hz) (Inst.)	STAGE-IV 48.6 Hz (Inst.)	Total Load Relief by Control Area
BIHAR	98	99	99	101	397
JHARKHAND	61	62	61	62	246
DVC	134	135.5	136	137	542.5
ODISHA	181.5	183.5	184	186	735
WEST BENGAL (incl. CESC)	345.5	350	350	354	1399.5
TOTAL	820	830	830	840	3320

As decided in the National Power Committee (NPC) meeting held on 16.07.2013 and subsequently in the 89th OCC meeting of ERPC to implement the scheme w.e.f. 30.09.2013.

**A. WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN
Nov-18**

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-11-18)	(30-11-17)		
Hirakud	192	180	190.69	191.44	191.14	01.11.18
Balimela	462	439	460.25	452.29	460.71	01.11.18
Rengali	123	109	118.17	123.00	118.70	01.11.18
Upperkolab	858	844	855.48	853.98	855.93	01.11.18
Indravati	642	625	638.45	636.12	639.40	01.11.18
Subernrekha	590	580	585.98	586.77	586.10	01.11.18

B. CPP/IPP IMPORT by Eastern Region Constituents during Nov-18

(All figs. are in MU)

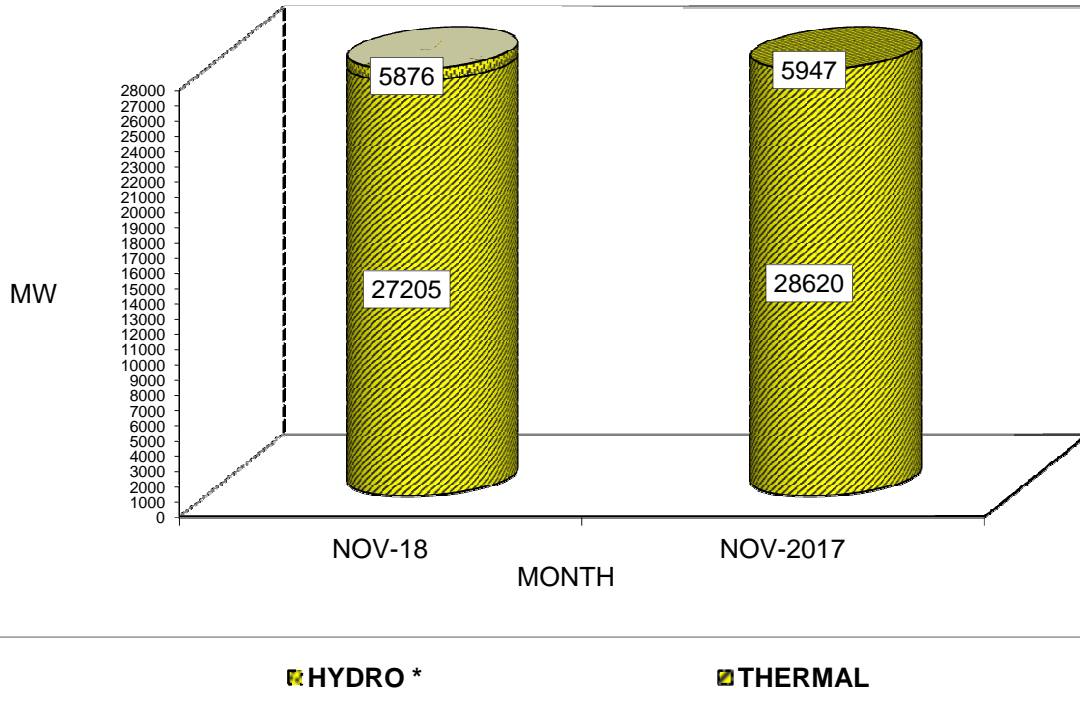
System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	45.03
West Bengal	68.91	25.51	0	0	0	0	0	89.54	183.96
ODISHA	0	0	49.09	133.47	7.93	33.12	0	323.73	547.34
DVC	0	0	0	0	0	0	10.21	0	10.21
TOTAL	68.91	25.51	49.09	133.47	7.93	33.12	10.21	413.27	786.54

C. Distribution of Schedule Supply among Key Customers by IPPs during Nov-18

(All figs. are in MU)

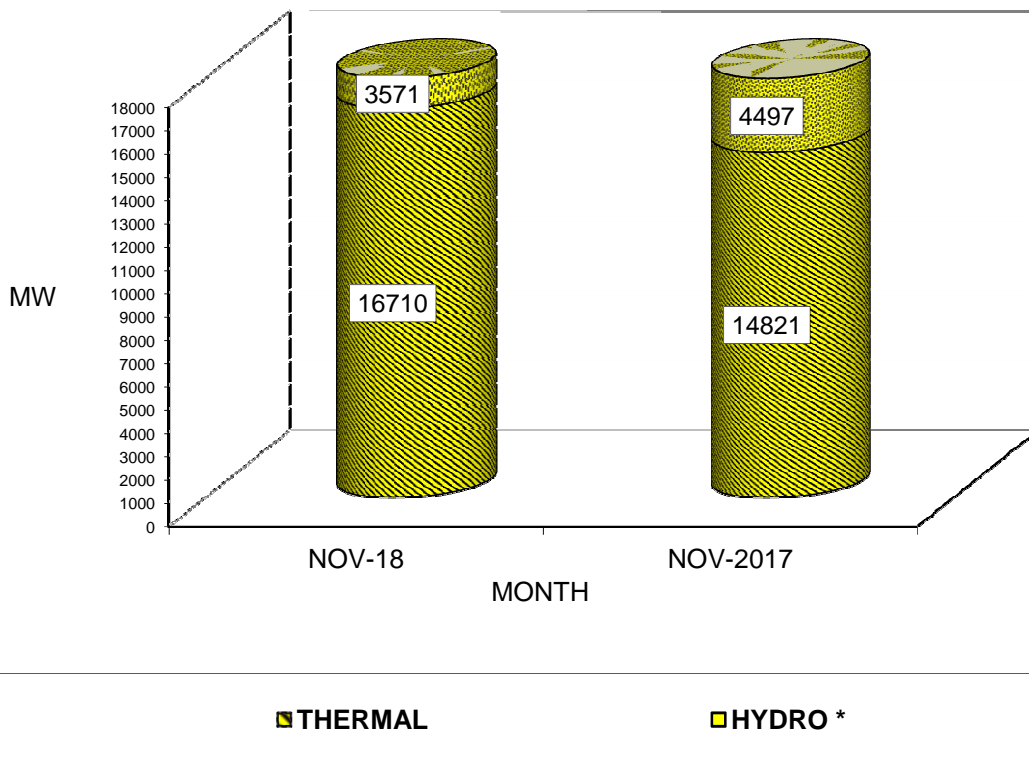
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC *	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	162.28	144.82	87.76	0.00	0	0	168.08	562.94
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	55.71	0	0.00	0.00	112.72	81.21	249.63
Total	162.28	200.53	87.76	0.00	0.00	112.72	249.29	812.57

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID



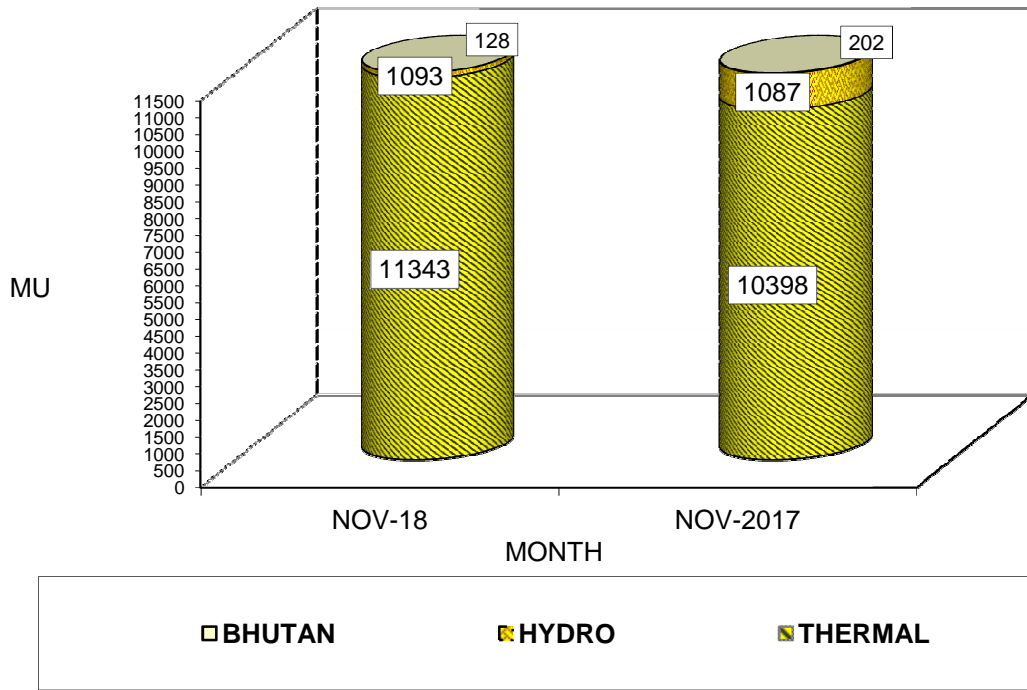
*Excludes 1350 MW contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

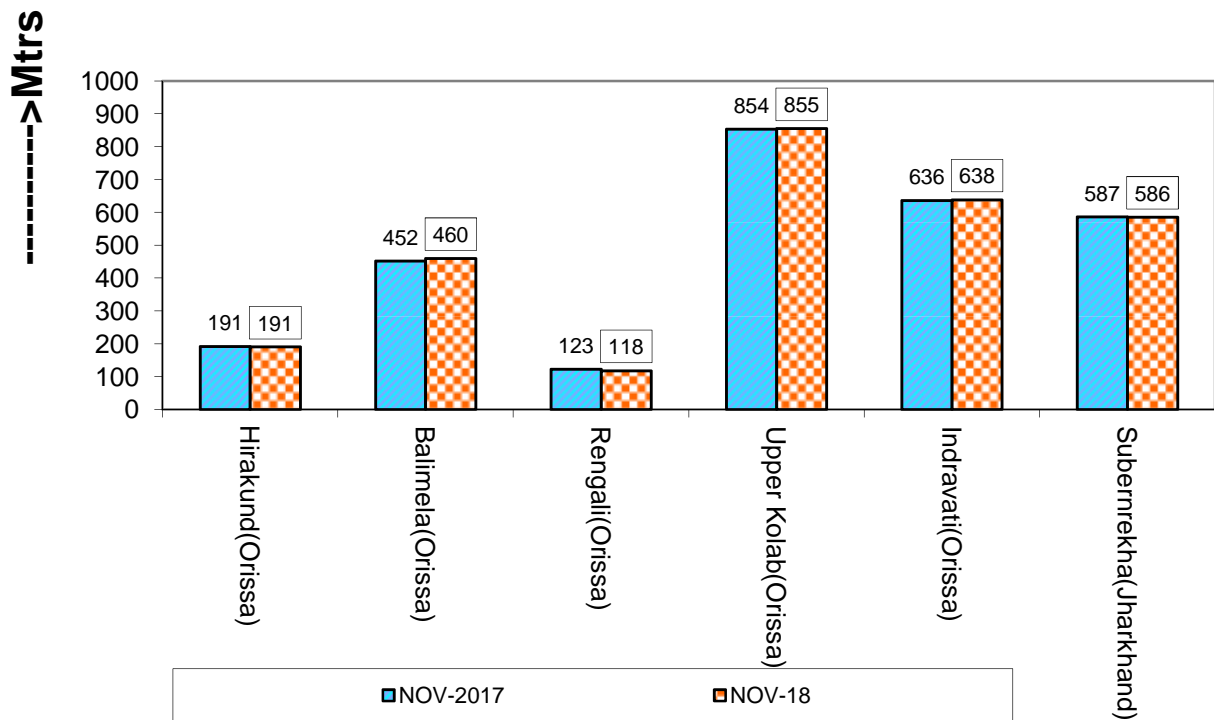


*Includes contribution from HEP of Bhutan

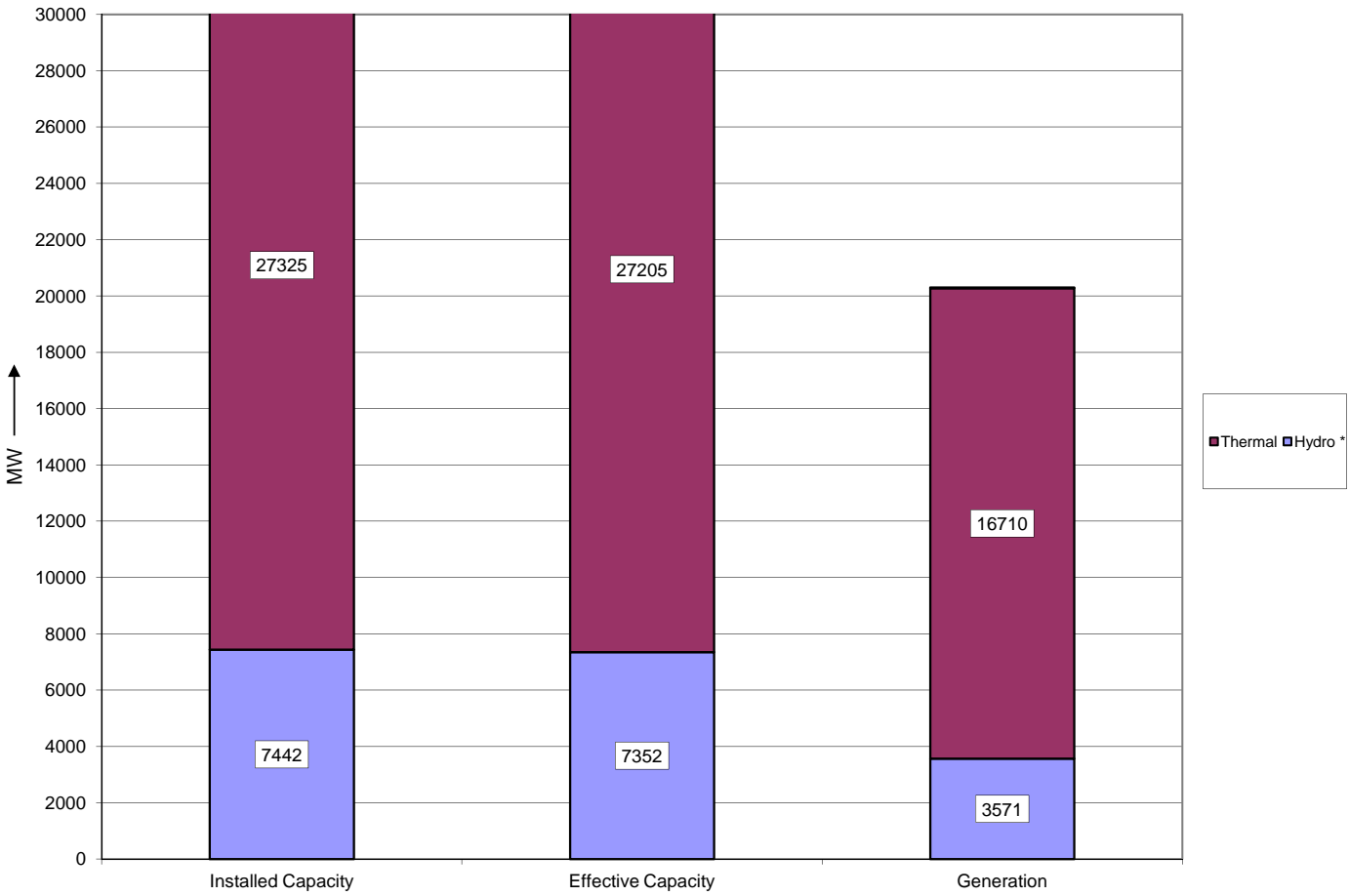
NET ENERGY GENERATION



RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)

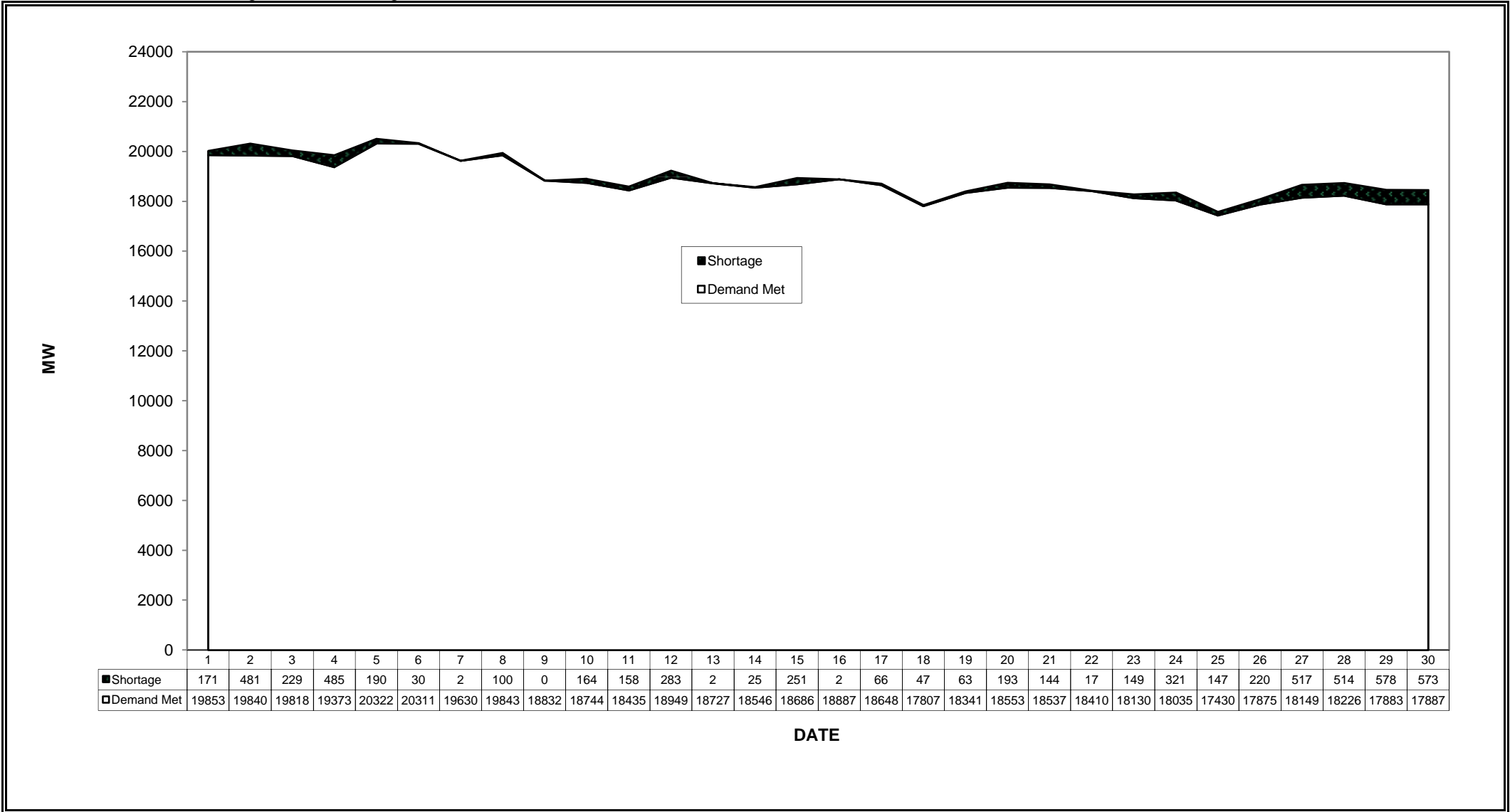


Capacity / Actual Generation Pattern of ER on Peak Day (5-11-2018) at 20.00 hrs.

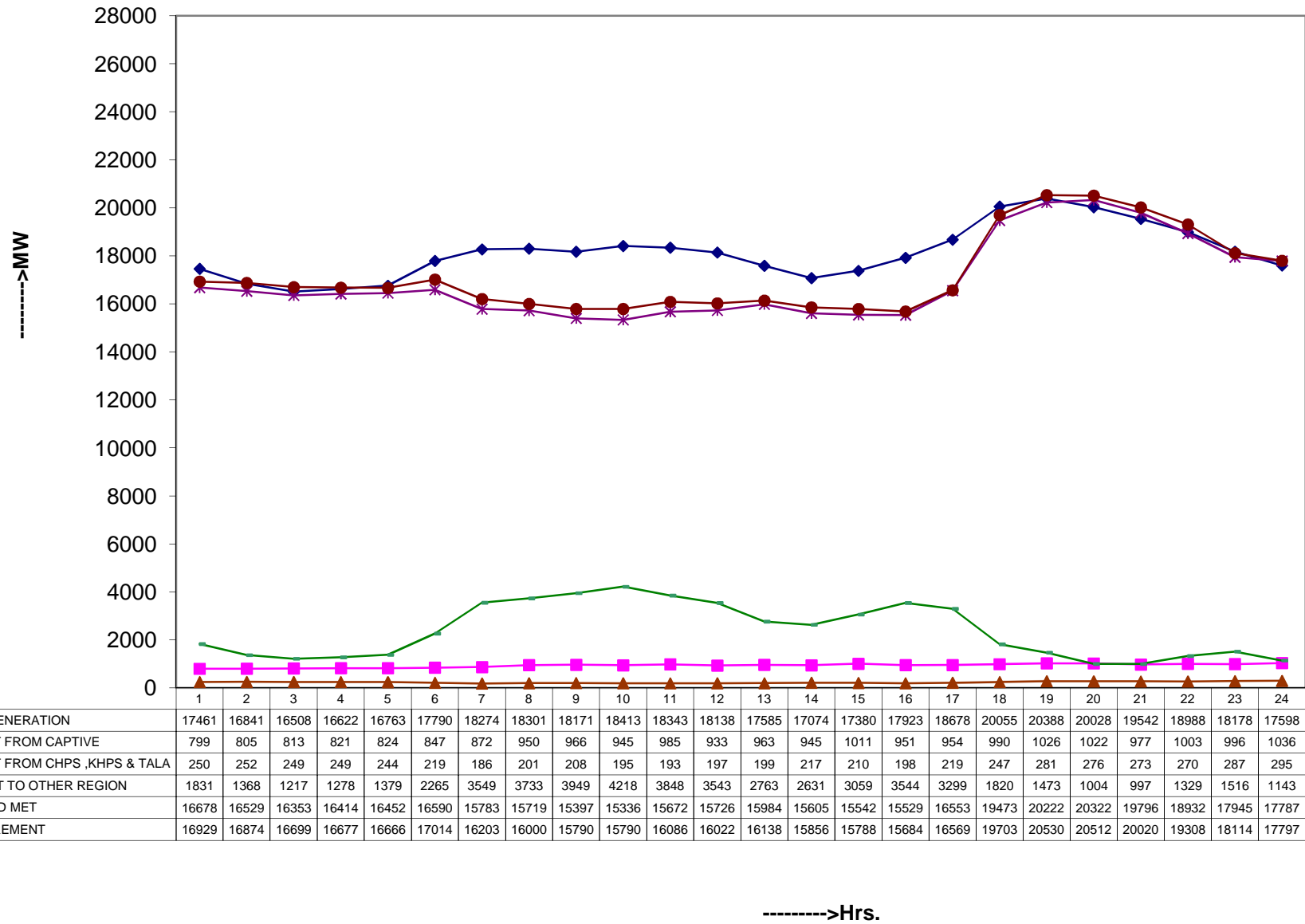


(*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

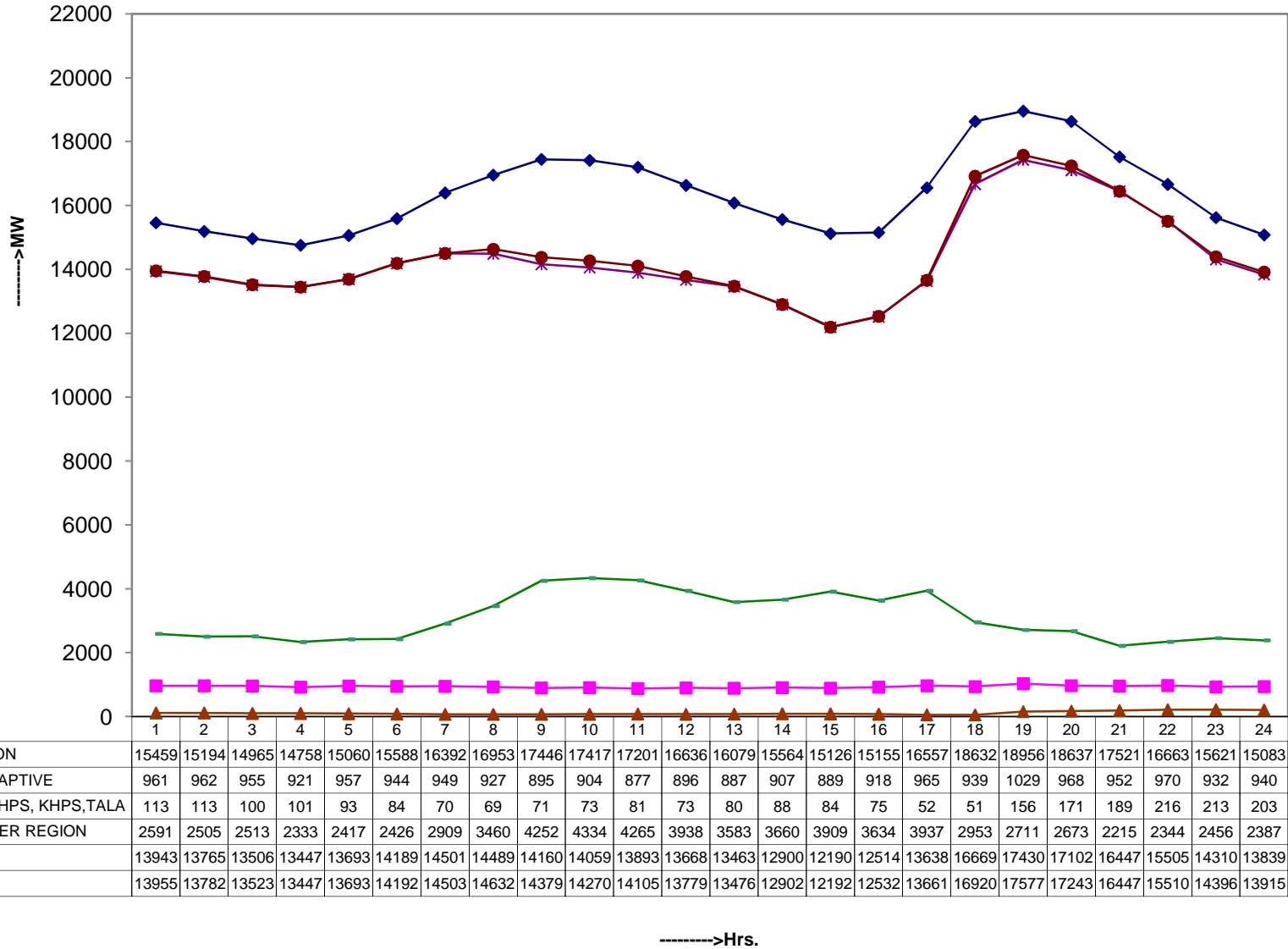
Peak Demand Met / Shortage of Eastern Region For The Month Of NOVEMBER'2018



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOVEMBER'2018 (5-11-2018)

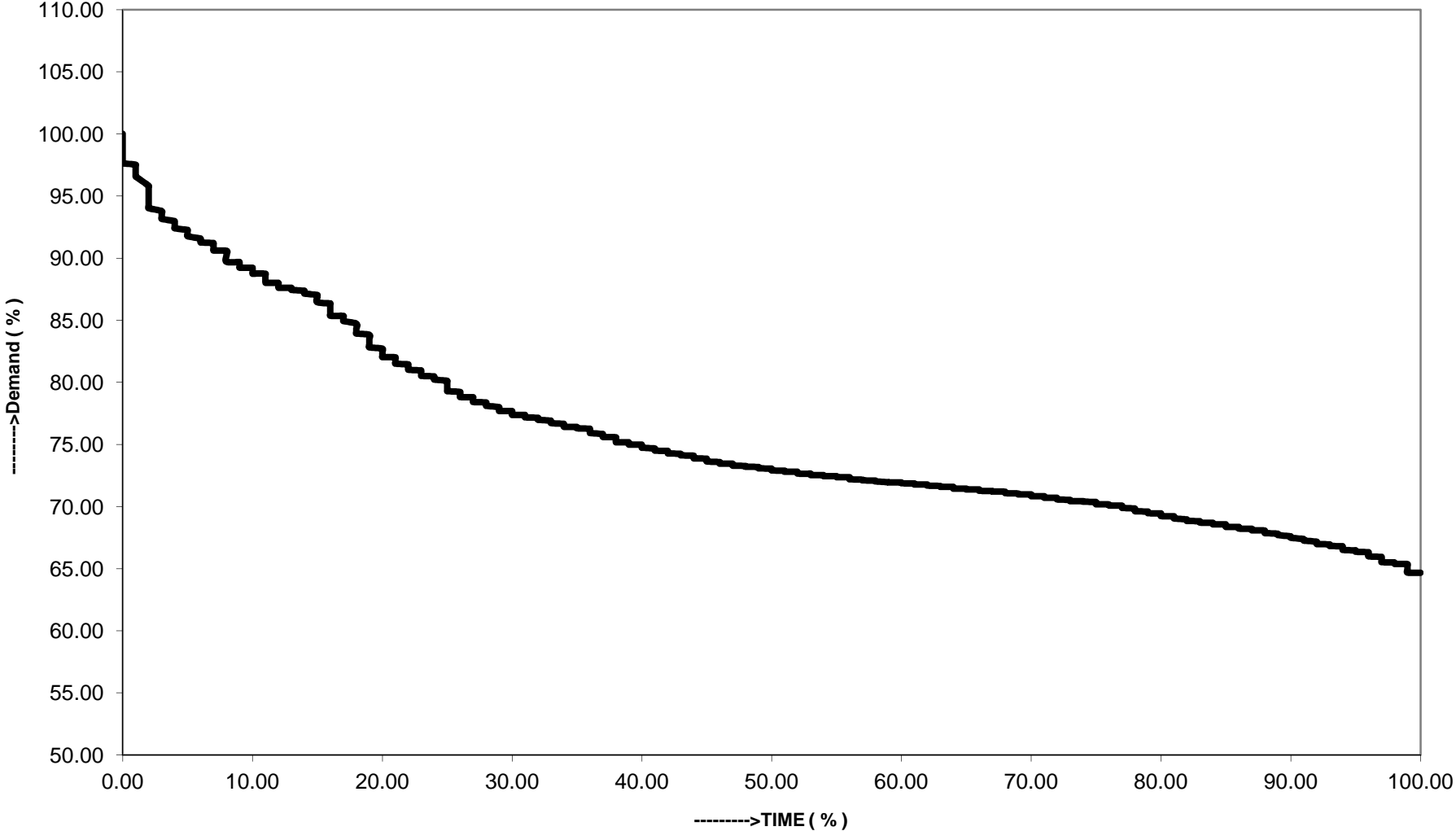


Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOVEMBER'2018 (25-11-2018)



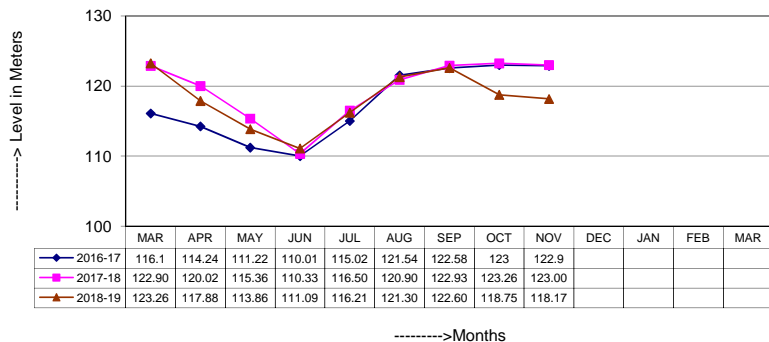
Monthly Load Duration Curve of Eastern Region for NOV-18

Maximum Demand met : 20322 MW
Minimum Demand met: 12190 MW

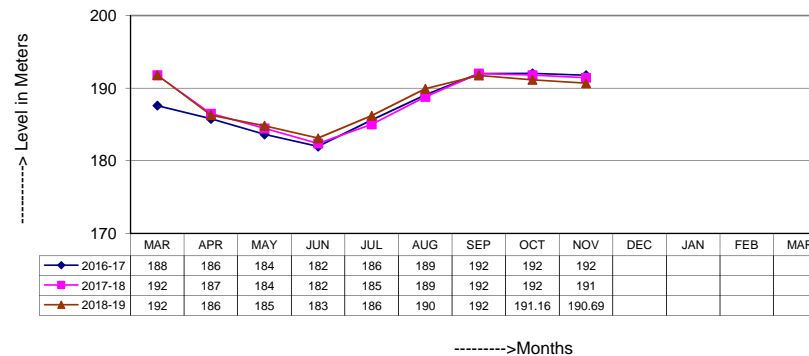


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

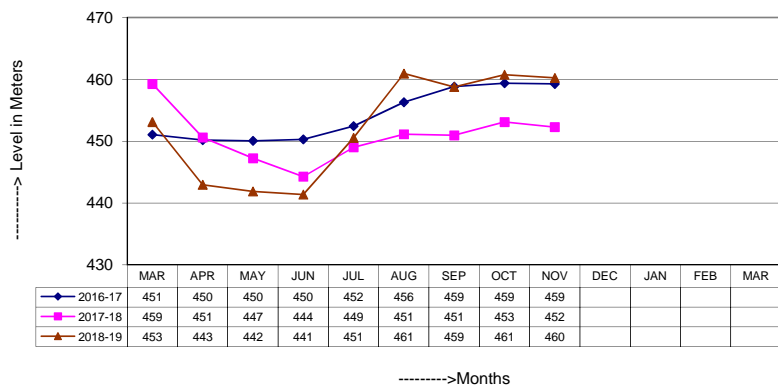
RENGALI RESERVOIR LEVEL



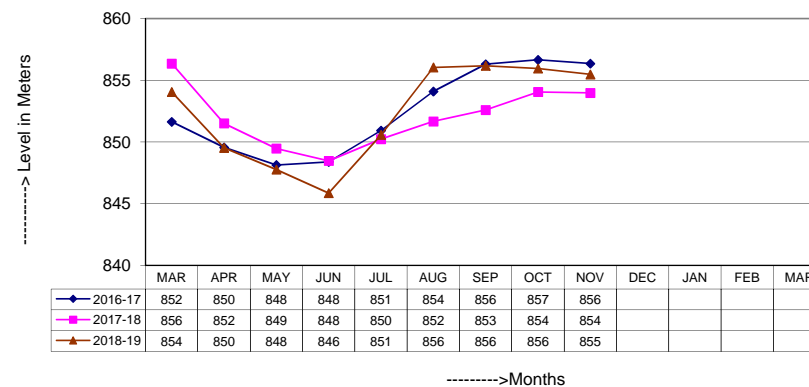
HIRAKUD RESERVOIR LEVEL



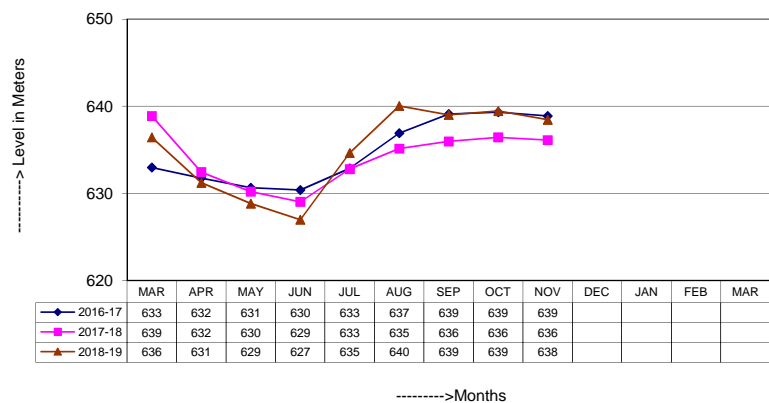
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

