



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति

75
Azadi Ka
Amrit Mahotsav



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

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सं/No: ERPC/MS/Reporting/MPR/2021-22/

दिनांक/Date: 30.12.2021

सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : नवंबर, 2021 माह की ईआरपीसी की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट पर अपलोड -
के संबंध में।

Subject: Upload of Monthly Progress Report of ERPC for the month of November, 2021
on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की नवंबर, 2021 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट
www.erpc.gov.in पर अपलोड कर दी गई है। यह आपकी जानकारी के लिए है।

Monthly Progress Report of Eastern Regional Power Committee for the month of
November, 2021 has been uploaded on ERPC website www.erpc.gov.in. This is for
your information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

(Signature)
30/12/2021

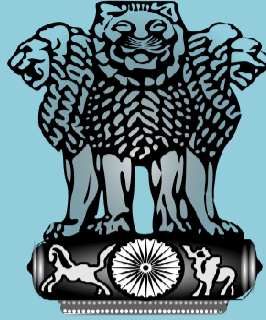
(Swapan Roy)

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Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीयविद्युतसमिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

नवंबर - 2021

November-2021



14, गोल्फ क्लब रोड, टोलीगंज

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Highlights of Eastern Regional Power System for Nov- 2021

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of Nov, 2021 was **20961 MW** which is 2.72% more than the Nov, 2020 (20406 MW). Individual **Peak Demand (MW)** of all the constituents **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of Nov, 2021 was **388.80 MU** excluding export, which is 8.53% more than the corresponding period of last year (358.25 MU).
- The **Average regional PLF of thermal units during the month is 68.35 %**, which is 9.50% more than the corresponding period of the last year (58.85%).

WBPDC (Santalidih TPS) registered the highest **PLF** of 96.26%, followed by WBPDC (Sagardighi TPP) 91.96% and NTPC (TSTPP) 90.74% during the month of Nov, 2021.

- **Maximum Net generation** was **27833 MW** against total **Effective Capacity of 41533.41 MW** (including import from Bhutan). At the time of Regional peak (**20961 MW** on 03.11.2021 at 19.00 hrs.) the generation was **27576 MW** and import from CPP was 1077 MW, Net export was 7691 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 74.09% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and the minimum frequency touched were 50.27 Hz and 49.63 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.16 Hz** and **49.69 Hz** respectively (refer **Annexure-I**).
- The **Maximum Voltage** recorded 422 KV at Binaguri 400 KV S/s whereas the minimum voltage recorded 395 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **10757 MW (including Nepal and Bangladesh)** on 24th Nov, 2021 at 08:00 hrs. Total net energy export during the month was **5459.02 MU (Inc. Transmission loss) MU** which corresponds to 33.49 % of ex-bus total generation 16299.97 MU of Eastern Region.
- The import from CPPs was **823.10 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	5577	0	2498.88
WR	2722	1393	637.82
SR	3909	0	1669.16
NER	829	237	211.21
BANGLADESH	753		485.04
NEPAL (via-CTU)	2	122	-43.09
Total	10757	1393	5459.02
NEPAL by Bihar(NBPDCL)			0.021

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Nov-21		NOV-2020	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	31830		30130	1700	5.64
	HYDRO (MW)	5990	\$	5877	113	2
	DIESEL (MW)	0		0	0	0
	RES (MW)	1518		1489	0	0
	TOTAL (MW)	39337		37496	1841	4.91
2)	Peak Demand (MW)	20998		20465	533	2.60
3)	Peak Demand Met (MW)	20961		20406	555	2.72
4)	Shortage (MW)	37		59	-22	0.00
5)	% Shortage	0.18		0.29	-0.11	0.00
6)	Average Energy Requirement Per Day (MU)	390.35		358.45	31.90	8.90
7)	Average Energy Availability Per Day (MU)	388.80		358.25	30.55	8.53
8)	Average Shortage Per Day (MU)	1.55		0.20	1.35	--
9)	% Shortage	0.40		0.06	0.34	--
10)	Net Generation for the Month					
	Thermal (MU)	14431.40		11785.48	2645.92	22.45
	Hydro (MU)	1772.40	*	1643.13	129.27	7.87
	RES (MU)	96.17		67.39	0.00	-
	Total (MU)	16299.97		13496.00	2803.97	20.78
11)	Generation at the Time of Max. Regional Demand Met (03-11-21 at 19.00 Hrs.)					
	Thermal (MW)	22735		19748	2987	15.12
	Hydro (MW)	4774	*	4871	-97	-2.00
	RES(MW)	67		45	22	48.92
	Total (MW)	27576		24664	2912	11.81
12)	Inter-Regional Energy Transfer					
	Export (MU)	5502.11		4855.10	647.01	13.33
	Import (MU)	43.09		1064.53	-1021.44	-95.95
	Net Exp.(+)/Net Imp.(-) (MU)	5459.02		3790.57	1668.45	44.02
13)	Import From Captive(MU)	823.10		1042.18	-219.08	-21.02
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 24-11-21 at 08.00Hrs	10757		9512	1245	13.08
	Max Import (MW) on 04-11-21 at 21.00Hrs	1393		3898	-2505	-64.26
	Max Net Export(+)/Import (-) (MW)	10757		8928	1829	20.48
15)	Maximum voltage recorded	422		BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	395		JEERAT	400 kv	s/s

\$ Excludes 2196 MW contribution from HEPs of Bhutan

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

POWER SUPPLY POSITION FOR THE MONTH OF NOV'2021

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	74.44	75.04	0.59	0.79
JUVNL	28.26	29.17	0.91	3.12
DVC	63.58	63.61	0.03	0.05
ODISHA	102.90	102.95	0.05	0.05
WBSEDCL	93.65	93.72	0.07	0.07
CESC	24.13	24.15	0.01	0.05
SIKKIM	1.72	1.72	0.00	0.05
REGION	388.80	390.35	1.55	0.40

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	4345	4626	281	6.07
JUVNL	1513	1719	206	11.99
DVC	2998	2998	0	0.00
ODISHA	5342	5344	2	0.03
WBSEDCL	5243	5249	6	0.11
CESC	1530	1530	0	0.0
SIKKIM	118	118	0	0.00
REGION	20961	20998	37	0.18

➤ DIVERSITY FACTOR : 1.01

➤ Regional Peak Demand Met on 3-11-2021 at 19.00 hrs. at 50.05 Hz.

CONSTITUENT-WISE PERFORMANCE DATA NOV-2021

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	Captive (MU)	Net Import(+) Net Export(-)	Consumption(MU)	Cons.(MU)	Demand	Demand
																	Met (MW)	Met (MW)
BSPHCL	0.00	249.42	28.86	278.28	0.00	24.83	0.00	24.83	0.00	224.59	28.86	253.45	0.00	1979.58	2233.02	74.4	4345	4372
JUVNL	15.98	115.34	0.00	131.32	0.01	11.09	0.00	11.10	15.97	104.25	0.00	120.22	40.98	686.47	847.67	28.3	1513	1530
DVC	20.75	3117.21	0.00	3137.96	0.14	227.57	0.00	227.70	20.61	2889.64	0.00	2910.26	7.26	-1010.17	1907.34	63.6	2998	3357
ODISHA(OPGC+OHPC+TTPS)	320.62	818.13	52.24	1191.00	2.15	49.89	0.00	52.04	318.47	768.24	52.24	1138.95	630.74	1317.34	3087.03	102.9	5342	5398
WBPDC+WBSEDCL+DPL	140.80	2740.74	13.10	2894.65	0.00	232.42	0.00	232.42	140.80	2508.32	13.10	2662.23	144.13	3.15	2809.51	93.7	5243	5663
CESC	0.00	373.95	0.00	373.95	0.00	30.37	0.00	30.37	0.00	343.58	0.00	343.58	0.00	380.45	724.03	24.1	1530	1589
HEL	0.00	314.98	0.00	314.98	0.00	23.68	0.00	23.68	0.00	291.30	0.00	291.30	0.00	-291.30				
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	50.58	51.58	1.7		
NTPC	0.00	5865.23	0.98	5866.21	0.00	430.48	0.00	430.48	0.00	5434.75	0.98	5435.73	0.00	-5435.73				
MPL	0.00	602.52	0.00	602.52	0.00	34.64	0.00	34.64	0.00	567.88	0.00	567.88	0.00	-567.88				
APNRL	0.00	304.97	0.00	304.97	0.00	25.41	0.00	25.41	0.00	279.56	0.00	279.56	0.00	-279.56				
GMR	0.00	437.49	0.00	437.49	0.00	26.74	0.00	26.74	0.00	410.74	0.00	410.74	0.00	-410.74				
JITPL	0.00	649.23	0.00	649.23	0.00	41.00	0.00	41.00	0.00	608.23	0.00	608.23	0.00	-608.23				
NHPC (Inc TLDP= 83.21 MU)	296.07	0.00	0.00	296.07	0.00	0.00	0.00	0.00	296.07	0.00	0.00	296.07	0.00	-296.07	0.00			
CHUZACHEN HPS	27.34	0.00	0.00	27.34	0.00	0.00	0.00	0.00	27.34	0.00	0.00	27.34	0.00	-27.34	0.00			
DIKCHU 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			
JORHANG HPS	32.45	0.00	0.00	32.45	0.00	0.00	0.00	0.00	32.45	0.00	0.00	32.45	0.00	-32.45	0.00			
TASHIDING HPS	34.21	0.00	0.00	34.21	0.00	0.00	0.00	0.00	34.21	0.00	0.00	34.21	0.00	-34.21	0.00			
TEESTA-III HPS	340.73	0.00	0.00	340.73	0.00	0.00	0.00	0.00	340.73	0.00	0.00	340.73	0.00	-340.73	0.00			
RONGNICHU HEP	23.84	0.00	0.00	23.84	0.00	0.00	0.00	0.00	23.84	0.00	0.00	23.84	0.00	-23.84	0.00			
CHPC(Birpara Receipt)	151.76	0.00	0.00	151.76	0.00	0.00	0.00	0.00	151.76	0.00	0.00	151.76	0.00	-151.76	0.00			
KHPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
THPS	151.38	0.00	0.00	151.38	0.00	0.00	0.00	0.00	151.38	0.00	0.00	151.38	0.00	-151.38	0.00			
DAGACHU HPS	40.30	0.00	0.00	40.30	0.00	0.00	0.00	0.00	40.30	0.00	0.00	40.30	0.00	-40.30	0.00			
Mangdechhu HEP	156.76	0.00	0.00	156.76	0.00	0.00	0.00	0.00	156.76	0.00	0.00	156.76	0.00	-156.76	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Others														3.51	3.51			
Total	1774.69	15589.21	96.18	17460.08	2.30	1158.12	0.00	1160.42	1772.39	14431.09	96.18	16299.66	823.10	-5459.06	11663.70	388.8	20961	22441

3A

16299.66

11663.70

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

A) Net Average Energy

Month	2020-21					2021-22				
	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	Shortage (%)	Avg. Freq. (HZ)
APRIL	323.27	324.20	0.93	0.29	50.00	495.89	497.87	1.98	0.40	49.99
MAY	355.60	360.37	4.77	1.32	50.00	429.83	430.89	1.06	0.25	49.99
JUNE	425.23	425.91	0.69	0.16	50.00	462.07	462.84	0.77	0.17	49.99
JULY	447.56	448.25	0.70	0.16	49.99	498.44	500.02	1.57	0.31	50.00
AUGUST	447.69	449.62	1.93	0.43	49.99	501.37	505.13	3.76	0.74	49.99
SEPTEMBER	465.31	465.52	0.20	0.04	49.99	485.60	489.40	3.80	0.78	50.00
OCTOBER	448.87	448.96	0.09	0.02	50.00	453.17	458.67	5.51	1.20	49.98
NOVEMBER	358.25	358.45	0.20	0.06	49.99	388.80	390.35	1.55	0.40	49.99
DECEMBER	361.19	361.95	0.76	0.21	50.00	-	-	-	-	-
JANUARY	385.74	386.81	1.07	0.28	49.99	-	-	-	-	-
FEBRUARY	395.83	397.69	1.86	0.47	49.99	-	-	-	-	-
MARCH	452.63	455.10	2.48	0.54	49.99	-	-	-	-	-

B) Peak in MW:

Month	2020-21					2021-22				
	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	18093	18302	209	1.14	50.00	24405	24405	0.00	0.00	49.99
MAY	20166	20306	140	0.69	50.00	24191	24191	0.00	0.00	49.99
JUNE	21832	21989	156	0.71	50.00	23494	23521	28	0.12	49.99
JULY	22643	22735	92	0.40	49.99	25145	26019	874	3.36	50.00
AUGUST	22192	22399	207	0.92	49.99	24157	24236	79	0.33	49.99
SEPTEMBER	23563	23619	56	0.24	49.99	25010	25454	445	1.75	50.00
OCTOBER	23374	23374	0	0.00	50.00	23675	23979	304	1.27	49.98
NOVEMBER	20406	20465	59	0.29	49.99	20961	20998	37	0.18	49.99
DECEMBER	19546	19697	151	0.77	50.00	-	-	-	-	-
JANUARY	20496	20703	207	1.00	49.99	-	-	-	-	-
FEBRUARY	20643	20854	211	1.01	49.99	-	-	-	-	-
MARCH	24016	24016	0	0.00	49.99	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOV -2021

ORGANI- SATION	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 (2021-22) in MU	Cummulative Net Energy Generation upto Current Month (2021-22) in MU
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	-0.55	58.49	42.76
	Thermal	Barauni (U# 8)	250.00	250.00	136.25	124.06	1151.89	1026.27
		Barauni (U# 9)	250.00	250.00	113.17	101.39	158.15	146.37
		(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	247.19
	RES	Thermal Total	940.00	930.00	249.42	224.90	1615.72	1422.32
			354.91	354.91	28.85	28.85	160.50	160.50
		Total BIHAR	1294.91	1284.91	278.27	253.75	1776.21	1582.82
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	115.34	104.25	931.69	824.22
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	15.98	15.98	275.72	275.68
	RES		60.41	60.41	0.00	0.00	0.00	0.00
	Total	190.41	190.41	15.98	15.98	275.72	275.68	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.82	0.00	-6.50
		Chandrapura(U7 # 8)	500.00	500.00	270.68	242.78	2464.32	2231.88
		Durgapur(4)	210.00	210.00	0.00	-0.47	65.16	50.46
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	709.85	633.34	5229.93	4673.17
		Mejia(U # 7,8)	1000.00	1000.00	545.71	515.49	4303.03	4054.99
		Bokaro-A(1)	500.00	500.00	89.46	83.05	2030.05	1911.57
		Durgapur STPS (U#1,2)	1000.00	1000.00	526.27	498.98	3809.32	3586.72
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	401.84	375.03	3885.87	3636.93
		Koderma STPS (U#1,2)	1000.00	1000.00	573.41	542.25	4463.99	4215.26
	Total Thermal	6750.00	6750.00	3117.21	2889.64	26251.68	24354.50	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.93	5.91	193.63	193.36
		Panchet (U#1,2)	80.00	80.00	12.26	12.16	211.64	210.57
		Tilaiya (U#1,2)	4.00	4.00	2.56	2.5	15.03	14.9
		Hydro Total	147.20	147.20	20.75	20.61	420.30	418.88
		Total DVC	6897.20	6897.20	3137.96	2910.26	26671.97	24773.38
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	380.00	335.00	179.66	162.39	1219.77	1099.33
		Santalidih TPS(U#5&6)	500.00	500.00	346.53	319.66	2714.34	2490.85
		Kolaghat TPS	1260.00	1260.00	294.73	260.02	2672.68	2369.69
		Bakreswar TPP	1050.00	1050.00	636.39	583.07	5355.31	4886.00
		Sagardighi TPP	1600.00	1600.00	1059.33	981.77	7317.18	6750.02
		DPPS (300+250 *)	550.00	550.00	224.11	201.42	1638.48	1469.63
		Thermal Total	5340.00	5295.00	2740.74	2508.32	20917.77	19065.52
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	16.11	16.11	164.32	164.32
		Rammam (4x12.73)	51.00	51.00	25.24	25.24	220.03	220.03
		Teesta C.F. (3x3x7.5)	67.50	67.50	5.33	5.33	65.66	65.66
		Purulia PSS (4x225)	900.00	900.00	94.13	94.13	750.18	750.18
		Total Hydro	1053.50	1053.50	140.80	140.80	1200.18	1200.18
		RES	500.76	500.76	13.10	13.10	122.14	122.14
➤		DVC, BTPS"B" U#3 210 MW de- commissioned from 01.04.2021						

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF NOV -2021

ORGANI- SATION	TYPE	POWER STATION	INSTALLED	EFFECTIVE	Gross	Net	Cummulative Gross	Cummulative Net	
			CAPACITY	CAPACITY	Energy	Energy	Energy Generation	Energy Generation	
			(in MW)	(in MW)	Generation in MU	Generation in MU	upto Current Month (2021-22) in MU	upto Current Month (2021-22) 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	8.33	7.56	131.10	119.12	
		Budge-Budge (3x250)	750.00	750.00	365.62	336.02	3910.24	3610.18	
		Total CESC	1125.00	1125.00	373.95	343.58	4041.33	3729.30	
HEL	Thermal	HEL	600.00	600.00	314.98	291.30	3106.24	2869.01	
		Total West Bengal	8619.26	8574.26	3583.58	3297.11	29387.67	26986.16	
OPGC	Thermal	IB TPS	420.00	420.00	273.57	258.75	1897.63	1704.80	
		IB TPS U#3(660 MW)	660.00	660.00	162.59	152.12	1868.34	1744.52	
		IB TPS U#4(660 MW)	660.00	660.00	381.97	357.38	2576.97	2406.66	
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	46.50	46.31	577.75	575.91	
		Hirakud-II (Chiplima)	72.00	72.00	27.70	27.60	182.11	181.38	
		Balimela (6x60+2x75)	510.00	510.00	119.39	118.73	750.28	744.21	
		Rengali (5x50)	250.00	250.00	58.57	58.46	708.19	707.15	
		Upper Kolab (4x80)	320.00	320.00	6.40	6.29	281.46	279.55	
		Indravati HPS (4x150)	600.00	600.00	42.99	42.00	1038.01	1016.81	
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	201.02	201.02	
		Total Hydro	2084.88	2084.88	320.62	318.47	3738.83	3706.03	
		RES	539.57	539.57	52.24	52.24	451.15	451.15	
		Total Odisha	4364.45	4364.45	1191.00	1138.95	10532.92	10013.16	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	13.00	13.00	
NTPC		MTPS Stg-II	390.00	390.00	226.863	204.64	1584.22	1418.10	
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	835.46	770.18	5530.92	5046.40	
		FSTPP (U# 6)	500.00	500.00	275.34	254.95	2065.58	1901.27	
		KhSTPP (4x210+3x500)	2340.00	2340.00	1340.85	1252.61	10749.59	9973.65	
		TSTPP (2x500)	1000.00	1000.00	653.35	602.45	5102.25	4707.88	
		BARH STPS II (2X660)	1320.00	1320.00	76.53	60.36	4601.59	4307.52	
		BARH STPS I (1X660)			253.45	227.04	582.68	493.60	
		BRBCL # 1,2,3(3X250 MW)	750	750	464.98	429.63	3252.97	2985.69	
		BRBCL # 4			41.79	37.40	47.56	41.71	
		NSTPS U# I&2	1320.00	1320.00	671.67	631.49	4552.66	4285.62	
		NSTPS U#2 infirm			0.00	0.00	202.55	175.72	
		DSTPP #1&2	1600.00	1600.00	1024.95	964.00	5615.84	5269.03	
		Total NTPC	11480.00	11480.00	5865.24	5434.75	44178.67	40839.56	
	NHPC	HYDRO	Rangit (3x20)	60.00	60.00	28.03	28.03	270.23	270.23
Teesta (3x170)			510.00	510.00	184.82	184.82	2297.97	2297.97	
TLDP(4x33+4x40) for WBSedCL			292.00	292.00	83.21	83.21	1181.37	1181.37	
Total NHPC			862.00	862.00	296.07	296.07	3749.58	3749.58	
		MPL (U#1&2)	1050.00	1050.00	602.52	567.88	5323.01	5018.09	
		APNRL (U#1,2)	540.00	540.00	304.97	279.56	2312.98	2106.10	
		GMR (2x350)	700.00	700.00	437.49	410.74	3329.64	3102.04	
		JITPL (2X600)	1200.00	1200.00	649.23	608.23	5486.58	5132.45	
		CHUZACHEN** (2x55)	110.00	110.00	27.34	27.34	462.17	462.17	
		JORETHANG (2x48)	96.00	96.00	32.45	32.45	385.51	385.51	
		TEESTA URJA St III (6x200)	1200.00	1200.00	340.73	340.73	5444.20	5444.20	
		Tashilding (2x48.5)	97.00	97.00	34.21	34.21	390.99	390.99	
		DICKCHU (2x48)	96.00	96.00	21.70	21.70	443.31	443.31	
		RONGNICHU HEP (2x56.5)			23.84	23.84	283.43	283.43	
		TALCHER SOLAR	10.00	10.00	0.98	0.98	8.41	8.41	
		Total Thermal (E.R)	31885.00	31830.00	15589.22	14431.40	123838.24	114319.10	
		Total Hydro (E.R)	5989.58	5989.58	1274.49	1272.20	16794.22	16759.97	
		Total RES	1517.83	1517.83	96.17	96.17	755.19	755.19	
EASTERN REGIONAL		TOTAL (E.R)	39392.41	39337.41	16959.88	15799.77	141387.66	131834.26	
BHUTAN		Hydro	CHPC(4x90)	360.00	270.00	151.76	151.76	1635.28	1635.28
	Hydro	Kurichu (4x15)	60.00	60.00	0.00	0.00	116.86	116.86	
	Hydro	TALA (6x170)	1020.00	1020.00	151.38	151.38	2724.19	2724.19	
	Hydro	DAGACHU (2x63)	126.00	126.00	40.30	40.30	418.63	418.63	
		MANGDECHU(4x180)	720.00	720.00	156.76	156.76	2632.71	2632.71	
		Grand Total	41678.41	41533.41	17460.09	16299.97	148915.34	139361.94	

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF NOV' 2021

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 (2021-22) in MU	Cummulative PLF upto Current Month (%)	
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	58.49	4.76	
	Thermal	Barauni (U# 8)	250.00	250.00	136.25	75.69	1151.89	78.68	
		Barauni (U# 9)	250.00	250.00	113.17	0.00	158.15	0.00	
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	247.19	19.19	
	RES	Thermal Total	940.00	930.00	249.42	37.25	1615.72	37.74	
			354.91	354.91	28.85		160.50		
		Total BIHAR		1294.91	1284.91	278.27		1776.21	
JHARKHAND									
TVNL	Thermal	TVNL	420.00	420.00	115.34	38.14	931.69	37.88	
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	15.98		275.72		
	RES		60.41	60.41	0.00		0.00		
		Total		190.41	190.41	15.98		275.72	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00	
		Chandrapura(U7 # 8)	500.00	500.00	270.68	75.19	2464.32	84.16	
		Durgapur(4)	210.00	210.00	0.00	0.00	65.16	5.30	
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	709.85	73.57	5229.93	66.65	
		Mejia(U # 7,8)	1000.00	1000.00	545.71	75.79	4303.03	73.48	
		Bokaro-A(1)	500.00	500.00	89.46	24.85	2030.05	69.33	
		Durgapur STPS (U#1,2)	1000.00	1000.00	526.27	73.09	3809.32	65.05	
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	401.84	46.51	3885.87	55.30	
		Koderma STPS (U#1,2)	1000.00	1000.00	573.41	79.64	4463.99	76.23	
		Total Thermal	6750.00	6750.00	3117.21	64.14	26251.68	66.41	
	Hydro	Maithon (U#1,2,3)	63.20	63.20	5.93		193.63		
		Panchet (U#1,2)	80.00	80.00	12.26		211.64		
		Tilaiya (U#1,2)	4.00	4.00	2.56		15.03		
		Hydro Total	147.20	147.20	20.75		420.30		
		Total DVC	6897.20	6897.20	3137.96		26671.97		
WEST BENGAL									
WBPDCL	Thermal	Bandel TPS	380.00	335.00	179.66	74.48	1219.77	62.18	
		Santalidih TPS(U#5&6)	500.00	500.00	346.53	96.26	2714.34	92.70	
		Kolaghat TPS	1260.00	1260.00	294.73	32.49	2672.68	36.22	
		Bakreswar TPP	1050.00	1050.00	636.39	84.18	5355.31	87.10	
		Sagardighi TPP	1600.00	1600.00	1059.33	91.96	7317.18	78.09	
		DPPS (300+250 *)	550.00	550.00	224.11	56.59	1638.48	50.87	
		Thermal Total	5340.00	5295.00	2740.74	71.89	20917.77	67.46	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	16.11		164.32		
		Rammam (4x12.73)	51.00	51.00	25.24		220.03		
		Teesta C.F. (3x3x7.5)	67.50	67.50	5.33		65.66		
		Purulia PSS (4x225)	900.00	900.00	94.13		750.18		
		Total Hydro	1053.50	1053.50	140.80		1200.18		
		RES	500.76	500.76	13.10		122.14		
	DE- COMM SSIONED	WBPDCL,Bandel TPS Unit #3 & #4 (IC=2X82.5 MW,EC=2X60 MW) decommissioned from 01.04.2018.							
		NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021							
		DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021							
		DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.							
COMMISS- IONED	CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.								
	1. IB U#3 (660 MW)				COD from 03.07.19				
	2. IB U#4 (660 MW)				COD from 21.08.19				
	3.NSTPS U#1(660 MW)				COD from 06.09.2019				
	4.BARAUNI TPS U#1(250 MW)				COD 01.03.2020				
	5.DARLIPALI S TPS U#1(800 MW)				COD 01.03.2020				
6.NSTPS U#2 (660 MW)				COD from 23.07.2021					

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF NOV' 2021

ORGANI- SATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation in MU	PLF of Current Month (%)	Cummulative Gross Energy Generation upto Current Month (2021-22) in MU	Cummulative PLF upto Current Month (%)
CESEC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	8.33	8.57	131.10	16.58
		Budge-Budge (3x250)	750.00	750.00	365.62	67.71	3910.24	89.03
		Total CESC	1125.00	1125.00	373.95	46.17	4041.33	61.34
HEL	Thermal		600.00	600.00	314.98	72.91	3106.24	88.41
		Total West Bengal	8619.26	8574.26	3583.58		29387.67	
OPGC	Thermal	IB TPS	420.00	420.00	273.57	90.47	1897.63	77.15
		IB TPS U#3(660 MW)	660.00	660.00	162.59	34.22	1868.34	48.34
		IB TPS U#4(660 MW)	660.00	660.00	381.97	80.38	2576.97	66.68
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	46.50		577.75	
		Hirakud-II (Chiplima)	72.00	72.00	27.70		182.11	
		Balimela (6x60+2x75)	510.00	510.00	119.39		750.28	
		Rengali (5x50)	250.00	250.00	58.57		708.19	
		Upper Kolab (4x80)	320.00	320.00	6.40		281.46	
		Indravati HPS (4x150)	600.00	600.00	42.99		1038.01	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		201.02	
		Total Hydro	2084.88	2084.88	320.62		3738.83	
		RES	539.57	539.57	52.24		451.15	
		Total Odisha	4364.45	4364.45	1191.00		10532.92	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		13.00	
NTPC		MTPS Stg-II	390	390	226.863	80.79	1584.22	69.37
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	835.46	72.52	5530.92	59.03
		FSTPP (U# 6)	500.00	500.00	275.34	76.48	2065.58	70.55
		KhSTPP (4x210+3x500)	2340.00	2340.00	1340.85	79.59	10749.59	78.45
		TSTPP (2x500)	1000.00	1000.00	653.35	90.74	5102.25	87.13
		BARH STPS II (2X660)	1320.00	1320.00	76.53	8.05	4601.59	59.53
		BARH STPS I (1X660)	660.00	660.00	253.45	83.46	582.68	83.46
		BRBCL # 1,2,3(3X250 MW)	750.00	750.00	464.98	86.11	3252.97	74.07
		BRBCL # 4			41.79	0.00	47.56	0.00
		NSTPS U# 1&2	1320.00	1320.00	671.67	70.67	4552.66	76.64
		NSTPS U#2 infirm					202.55	
		DSTPP #1&2	1600.00	1600.00	1024.95	88.97	5615.84	87.31
		Total NTPC	11480.00	11480.00	5865.24	71.94	44178.67	73.48
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	28.03		270.23	
		Teesta (3x170)	510.00	510.00	184.82		2297.97	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	83.21		1181.37	
		Total NHPC	862.00	862.00	296.07		3749.58	
	Thermal	MPL (U#1&2)	1050.00	1050.00	602.52	79.70	5323.01	86.57
		APNRL (U#1,2)	540.00	540.00	304.97	78.44	2312.98	73.14
		GMR (2x350)	700.00	700.00	437.49	86.80	3329.64	81.23
		JITPL (2X600)	1200.00	1200.00	649.23	75.14	5486.58	78.08
		CHUZACHEN** (2x55)	110.00	110.00	27.34		462.17	
		JORETHANG (2x48)	96.00	96.00	32.45		385.51	
		TEESTA URJA St III (6x200)	1200.00	1200.00	340.73		5444.20	
		Tashilding (2x48.5)	97.00	97.00	34.21		390.99	
		DICKCHU (2x48)	96.00	96.00	21.70		443.31	
		RONGNICHU HEP (2x56.5)			23.84		283.43	
		TALCHER SOLAR	10.00	10.00	0.98		8.41	
		Total Thermal (E.R)	31885.00	31830.00	15589.22	68.35	123838.24	69.52
EASTERN REGIONAL		Total Hydro (E.R)	5989.58	5989.58	1274.49		16794.22	
		Total RES	1517.83	1517.83	96.17		755.19	
		TOTAL (E.R)	39392.41	39337.41	16959.88		141387.66	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	151.76		1635.28	
	Hydro	Kurichu (4x15)	60.00	60.00	0.00		116.86	
	Hydro	TALA (6x170)	1020.00	1020.00	151.38		2724.19	
	Hydro	DAGACHU (2x63)	126.00	126.00	40.30		418.63	
		MANGDECHU(4x180)	720.00	720.00	156.76		2632.71	
		Grand Total	41678.41	41533.41	17460.09		148915.34	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK
DURING THE MONTH OF NOV'2021 (3-11-2021)

Date	3-Nov-21					
Time	19.00	Hrs.				
Frequency	50.05	Hz.				
						(All Fig. in MW)
	Installed	Effective				Net Gen
System/State	Capacity	Capacity	Hydro	Thermal	RES	Total
BSPHCL	1295	1285	0	239	0	239
JUVNL	610	610	110	147	0	257
DVC	6897	6897	26	4808	0	4834
ODISHA	4364	4364	1161	785	67	2013
WBSEDCL	6344	6299	409	3988	0	4397
TLDP	292	292	220	0	0	220
HEL HALDIA	600	600	0	542	0	542
CESC	1125	1125	0	677	0	677
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	11480	11480	0	8683	0	8683
NHPC	570	570	570	0	0	570
CHUKHA	360	270	275	0	0	275
KURICHU	60	60	25	0	0	25
TALA	1020	1020	317	0	0	317
MPL	1050	1050	0	939	0	939
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	399	0	399
Kamalganga (GMR)	700	700	0	633	0	633
JITPL	1200	1200	0	893	0	893
RONGNICHU HEP (2x56.5)	113	113	100	0	0	100
Chuzachen	110	110	107	0	0	107
Jorethang	96	96	54	0	0	54
TEESTA URJA St III	1200	1200	994	0	0	994
Tashilding	97	97	63	0	0	63
DICKCHU	96	96	39	0	0	39
<u>Daghachu</u>	126	126	72	0	0	72
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	233	0	0	233
<u>Total</u>	41678	41533	4774	22735	67	27576
Import From Captive:						1077
Export To:						
NER						263
SR						2978
WR						639
NR						3135
Bangladesh						727
Nepal						-50
Total						7691
➤ nal Net Peak Demand Met (MW) :						20961
Indicates Export(+)/Import(-) of Power						

Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOV'2021 (3-11-2021)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	1345	17824	19169	1173	1165	4878	16630	4	0	16634
2	1310	17569	18880	1182	1166	5080	16149	18	1	16168
3	1303	17461	18765	1182	1166	4736	16377	10	1	16388
4	1203	17341	18543	1196	1163	4753	16149	34	1	16184
5	1128	17621	18749	1171	1154	4714	16359	7	1	16367
6	1619	19631	21250	1159	1111	6761	16759	-3	1	16760
7	2569	21847	24416	1182	1076	9626	17047	7	0	17054
8	2930	22420	25350	1163	1106	10528	17090	24	292	17406
9	2811	22136	24947	1139	1077	9845	17319	58	238	17614
10	2759	21757	24516	1102	1022	9252	17388	62	0	17451
11	1677	21526	23202	1116	915	7938	17297	-30	0	17297
12	1638	21291	22928	1094	908	7539	17391	-24	0	17391
13	1741	20441	22182	1117	896	6889	17305	-3	0	17305
14	1605	19225	20830	1130	883	6324	16520	-10	0	16520
15	1768	19430	21197	1106	857	6863	16297	0	0	16297
16	1801	20093	21895	1092	863	7252	16597	29	0	16626
17	2499	21244	23743	1093	841	8056	17622	-9	0	17622
18	3967	22379	26346	1104	848	8075	20224	23	217	20464
19	3919	22735	26654	1077	922	7691	20961	-39	37	20998
20	3777	22102	25878	1068	999	7156	20788	-22	0	20788
21	2986	20662	23648	1108	1055	5970	19842	2	0	19844
22	2134	19603	21737	1143	1077	5346	18611	20	0	18630
23	1787	19123	20910	1162	1096	5301	17867	33	0	17900
24	1544	18097	19641	1173	1106	5030	16890	4	0	16895

Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOV'2021 (29-11-2021)

(All Figures in MW)

Generation				Import	Net	Net	Demand	Freq.	Load	
Hrs.	Hydro	Thermal	Total	from Captive	Import From Hydro of Bhutan	Export to other region	Met	Correction	Shed	Requirement
1	541	15977	16517	1109	490	4316	13800	-28	0	13800
2	532	15511	16042	1103	492	4325	13311	-5	0	13311
3	496	15418	15914	1077	495	4271	13215	-1	0	13215
4	315	15455	15771	1129	503	4380	13023	-8	0	13023
5	340	15746	16086	1083	504	4235	13437	-1	0	13437
6	786	17555	18340	1099	461	5780	14120	26	0	14146
7	1914	19205	21119	1140	413	7911	14760	40	105	14905
8	2670	20641	23311	1120	391	9187	15634	4	202	15840
9	3015	20903	23917	1092	409	9572	15848	7	203	16058
10	2760	20766	23526	1101	408	9531	15504	-5	251	15749
11	1591	20466	22057	1067	350	8257	15218	-1	249	15466
12	1132	20152	21284	1085	344	7644	15070	-25	249	15294
13	952	19966	20918	1094	431	7346	15096	-26	249	15319
14	890	19004	19894	1070	454	6847	14572	-27	70	14615
15	809	19346	20155	1104	435	7574	14120	-10	70	14179
16	864	20559	21422	1070	434	8731	14194	26	1	14221
17	1839	20906	22745	1098	407	8688	15562	-11	1	15562
18	3251	21076	24328	1159	381	8246	17622	-8	254	17867
19	3946	21029	24975	1114	405	8640	17854	-16	254	18092
20	3312	21042	24354	1113	410	8714	17162	-2	122	17282
21	2678	20456	23134	1115	432	8121	16560	14	1	16575
22	1171	19478	20648	1148	461	6946	15311	3	1	15314
23	881	18347	19228	1154	487	6631	14238	2	0	14241
24	846	17374	18220	1120	494	5978	13857	8	0	13865

NOTIFIED POWER CUTS/RESTRICTIONS ON INDUSTRIES & POWER SUPPLY TO AGRICULTURE SECTOR

FOR THE MONTH OF NOV'2021

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 16.70 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 26.89 MU
DVC	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 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 0.56 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.

FREQUENCY DETAILS FOR THE MONTH OF

Nov-21

D A T E	H O U R S										INST. FREQ.				15 MIN. INTEGRATED			
	00	05	10	17	22	00	49.9	>50.05	49.9		MAX	HRS.	MIN	HRS.	MAX	HRS.	MIN	HRS.
	TO	TO	TO	TO	TO	TO	<49.9	TO	TO		HZ		HZ		HZ		HZ	
	05	10	17	22	24	24		50.1	50.05									
01-Nov	49.97	49.97	49.98	50.00	49.98	49.98	6.70	81.16	12.14	81.16	50.15	05:02:20	49.81	10:10:30	50.08	0:00	49.88	0:00
02-Nov	49.93	49.98	49.97	50.03	50.02	49.98	11.39	72.06	16.55	72.06	50.20	13:02:50	49.72	01:42:50	50.12	0:00	49.80	0:00
03-Nov	49.97	49.95	50.01	50.00	49.97	49.99	6.74	76.88	16.39	76.88	50.13	10:57:40	49.73	09:10:40	50.09	0:00	49.80	0:00
04-Nov	49.94	50.01	50.01	50.03	50.01	50.00	7.74	66.00	26.26	66.00	50.25	17:03:40	49.77	02:12:50	50.16	0:00	49.84	0:00
05-Nov	49.97	50.01	49.99	50.01	49.98	49.99	7.57	68.73	23.70	68.73	50.19	13:36:30	49.75	16:42:50	50.14	0:00	49.83	0:00
06-Nov	49.96	49.99	49.97	50.00	49.94	49.98	9.02	79.92	11.06	79.92	50.19	06:02:50	49.77	15:18:20	50.07	0:00	49.83	0:00
07-Nov	49.97	49.95	49.98	49.98	49.99	49.97	11.10	76.84	12.06	76.84	50.17	14:03:00	49.78	12:19:00	50.11	0:00	49.87	0:00
08-Nov	49.96	49.88	49.96	49.96	50.02	49.95	22.44	65.57	11.99	65.57	50.18	13:02:00	49.63	06:54:00	50.09	0:00	49.72	0:00
09-Nov	49.96	49.98	49.98	49.98	50.02	49.98	8.69	76.18	15.13	76.18	50.18	22:02:20	49.75	16:44:10	50.09	0:00	49.84	0:00
10-Nov	49.97	50.03	49.96	50.02	49.96	49.99	8.03	70.58	21.39	70.58	50.25	06:03:20	49.73	15:36:30	50.11	0:00	49.83	0:00
11-Nov	49.99	49.96	50.00	50.03	50.00	50.00	7.38	68.17	24.44	68.17	50.18	19:01:30	49.72	07:15:30	50.11	0:00	49.83	0:00
12-Nov	50.01	49.97	50.00	49.96	50.01	49.99	8.62	73.69	17.69	73.69	50.18	04:32:30	49.67	17:42:40	50.08	0:00	49.79	0:00
13-Nov	50.01	49.98	49.96	49.98	50.01	49.98	8.72	76.38	14.90	76.38	50.17	14:01:40	49.67	16:56:10	50.10	0:00	49.77	0:00
14-Nov	49.99	49.98	50.00	50.00	50.00	49.99	2.25	82.94	14.81	82.94	50.14	06:02:50	49.80	09:41:20	50.06	0:00	49.85	0:00
15-Nov	49.96	50.00	49.99	49.99	49.99	49.99	4.86	79.54	15.60	79.54	50.20	06:02:10	49.84	13:40:30	50.06	0:00	49.83	0:00
16-Nov	49.99	50.00	50.01	50.00	49.99	50.00	2.31	79.63	18.06	79.63	50.21	13:03:30	49.63	23:07:10	50.11	0:00	49.92	0:00
17-Nov	49.94	50.00	49.91	49.95	49.97	49.95	24.00	63.87	12.13	63.87	50.16	04:03:20	49.68	10:54:30	50.06	0:00	49.69	0:00
18-Nov	49.96	49.92	49.98	49.98	50.01	49.96	17.87	68.41	13.72	68.41	50.19	16:03:40	49.77	15:13:20	50.09	0:00	49.80	0:00
19-Nov	50.02	49.98	50.02	50.00	50.00	50.01	4.98	68.08	26.94	68.08	50.26	13:30:20	49.81	09:15:40	50.14	0:00	49.87	0:00
20-Nov	50.00	50.00	49.99	50.00	49.99	50.00	3.53	77.53	18.94	77.53	50.15	04:03:00	49.87	15:21:00	50.11	0:00	49.86	0:00
21-Nov	49.99	49.99	50.02	50.00	50.00	50.00	0.37	73.88	25.75	73.88	50.17	11:03:20	49.79	05:53:20	50.09	0:00	49.94	0:00
22-Nov	50.01	50.00	49.99	49.97	50.00	50.00	4.56	76.63	18.81	76.63	50.15	05:02:10	49.66	17:56:10	50.10	0:00	49.87	0:00
23-Nov	49.97	50.02	49.99	49.95	49.95	49.98	10.50	72.72	16.78	72.72	50.17	15:04:20	49.66	17:43:30	50.10	0:00	49.74	0:00
24-Nov	49.96	50.01	49.96	49.99	50.00	49.98	7.30	76.70	16.00	76.70	50.17	14:03:10	49.76	16:57:50	50.09	0:00	49.86	0:00
25-Nov	49.95	49.99	49.98	49.99	49.97	49.97	10.52	75.67	13.81	75.67	50.18	06:01:10	49.71	15:56:20	50.10	0:00	49.80	0:00
26-Nov	49.98	49.99	49.99	49.98	50.00	49.99	6.31	77.81	15.88	77.81	50.21	13:03:10	49.78	09:32:10	50.11	0:00	49.88	0:00
27-Nov	50.02	50.00	49.99	49.99	49.98	50.00	4.36	75.51	20.13	75.51	50.17	13:02:00	49.78	14:48:40	50.08	0:00	49.84	0:00
28-Nov	49.99	49.98	50.02	50.02	50.01	50.00	4.09	70.79	25.12	70.79	50.27	06:01:40	49.78	09:21:30	50.12	0:00	49.84	0:00
29-Nov	50.02	49.97	50.02	50.00	49.99	50.00	3.08	73.68	23.24	73.68	50.21	12:01:10	49.75	06:55:10	50.15	0:00	49.83	0:00
30-Nov	49.99	49.98	49.99	49.99	50.03	49.99	5.46	77.28	17.26	77.28	50.20	23:59:10	49.81	15:44:30	50.11	0:00	49.88	0:00
MAX	50.02	50.03	50.02	50.03	50.03	50.01	24.00	82.94	26.94	82.94	50.27		49.87		50.16		49.94	
MIN	49.93	49.88	49.91	49.95	49.94	49.95	0.37	63.87	11.06	63.87	50.13		49.63		50.06		49.69	
AVG	49.98	49.98	49.99	49.99	49.99	49.99	8.02	74.09	17.89	74.09	50.19		49.75		50.10		49.83	

SUMMARY:

Avg. Frequency :

49.99 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.27 Hz at 06:01 Hrs.

Minimum Frequency : 49.63 Hz at 06:54 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.16 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.69 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	8.02	74.09	17.89

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 KV S/S IN THE MONTH OF NOV'2021

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	422	402	413	401	421	395	421	404

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	416	396	421	401	410	396	416	401

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 (49.4 Hz) (Inst.)	STAGE-II (49.2 Hz) (Inst.)	STAGE-III (49.0 Hz) (Inst.)	STAGE-IV 48.8 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. Revised UFR Scheme (Stg-I 49.4Hz. Stg-II 49.2 Hz Stg-III 49.0 Hz and Stg-IV 48.8 Hz) implemented from March/ April-2020

A.

WATER LEVEL OF MAJOR HYDEL RESERVOIRS OF THE REGION IN Nov-21						
Name of the Reservoirs	FRL	MDDL	As on last day of the		(All figs.in mtrs.)	
			As on first day of this month & date			
			(30-11-21)	(30-11-20)		
Hirakud	192	180	191.81	191.29	191.95	01.11.21
Balimela	462	439	452.11	457.23	452.05	01.11.21
Rengali	123	109	122.42	119.96	122.63	01.11.21
Upperkolab	858	844	851.95	852.66	851.42	01.11.21
Indravati	642	625	631.59	637.56	631.50	01.11.21
Subernrekha	590	580	587.08	586.34	587.53	01.11.21

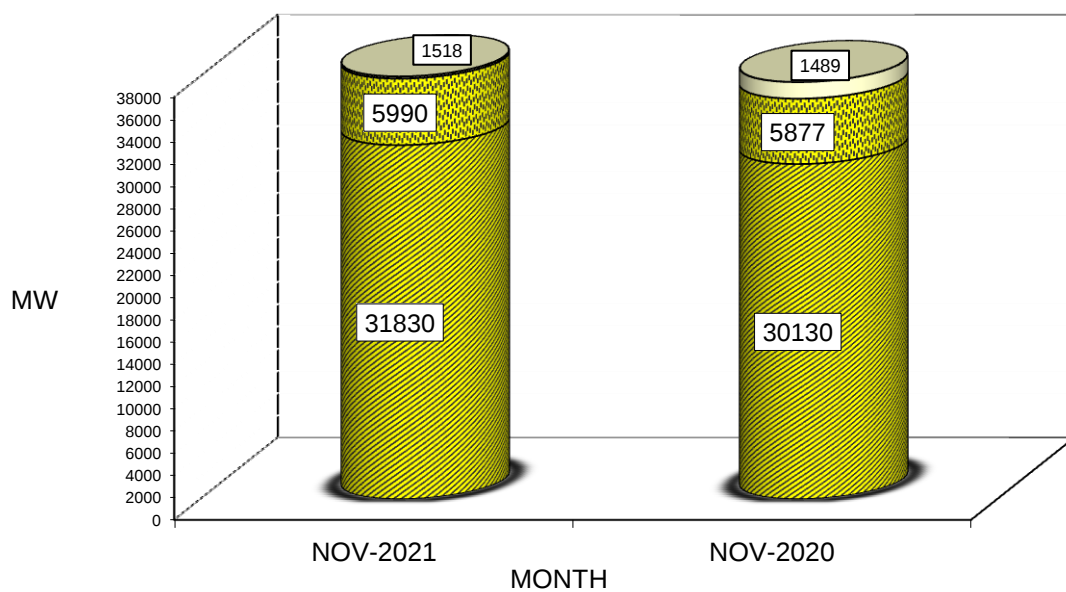
B.

CPP/IPP IMPORT by Eastern Region Constituents during Nov-21								
(All figs. are in MU)								
System	Tata Power	Crescent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Total
JUVNL	0	0	0	0	0	0	0	40.98
West Bengal	74.09	25.94	0	0	0	0	0	144.14
ODISHA	0	0	14.23	223.61	6.70	0.00	0	630.73
DVC	0	0	0	0	0	0	7.26	7.26
TOTAL	74.09	25.94	14.23	223.61	6.70	0.00	7.26	823.10

C.

Distribution of Schedule Supply among Key Customers by IPPs during Nov-21							
(All figs. are in MU)							
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	Total (Excl. Tr. Loss)
MPL	168.93	174.44	100.70	0.00	0	0	563.62
Sterlite	0	0	0	0	0.00	0	0.00
APNRL	0	0.00	0	0.00	0.00	0.00	0.00
Total	168.93	174.44	100.70	0.00	0.00	0.00	563.62

EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID

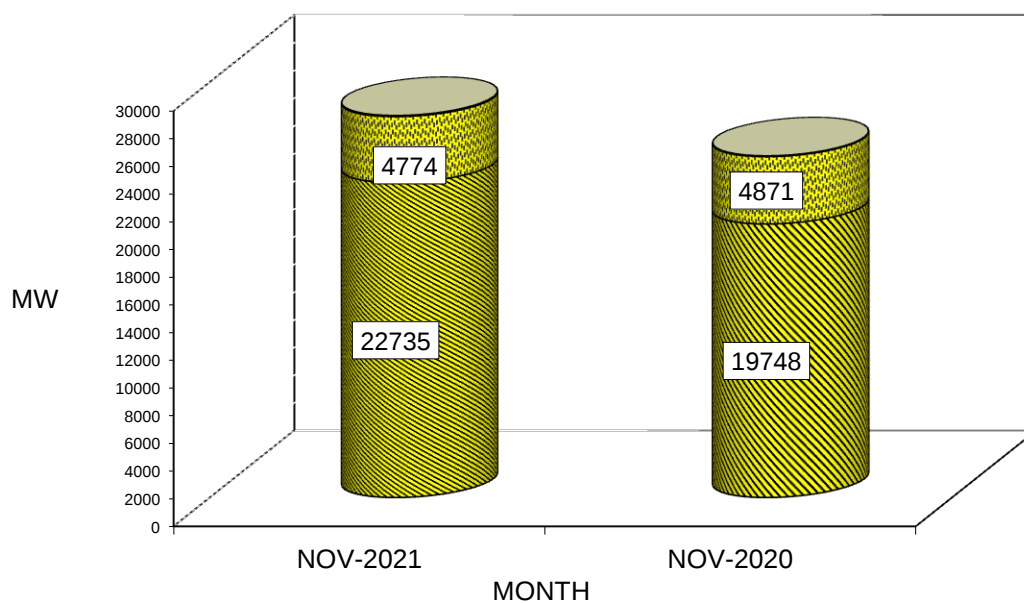


■ HYDRO *

■ THERMAL

*Excludes contribution from HEPs of Bhutan

GENERATION CORRESPONDING TO PEAK DEMAND MET

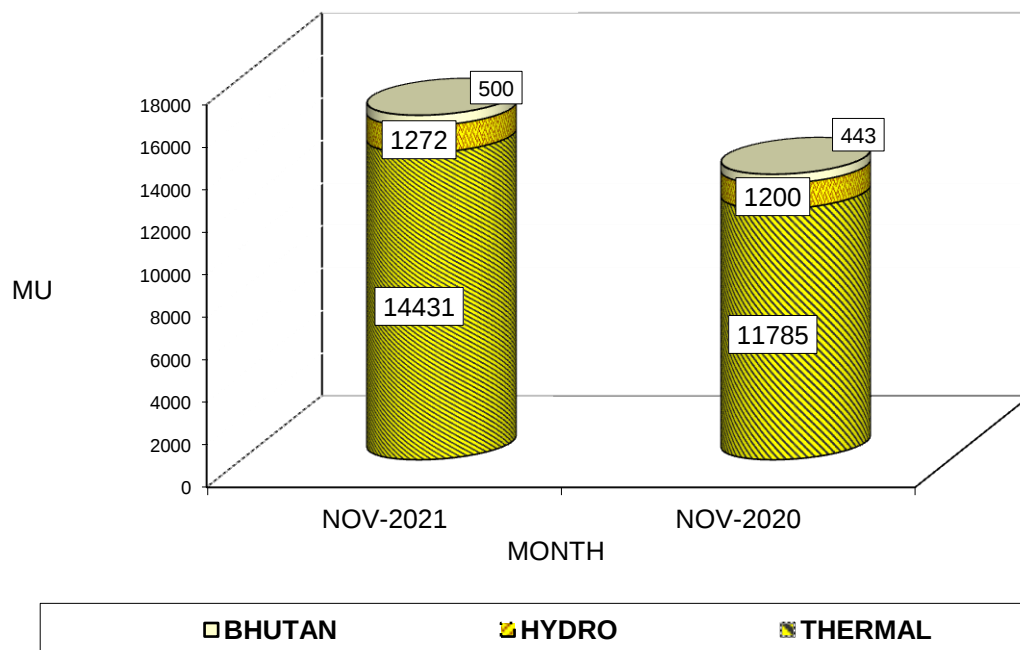


■ HYDRO *

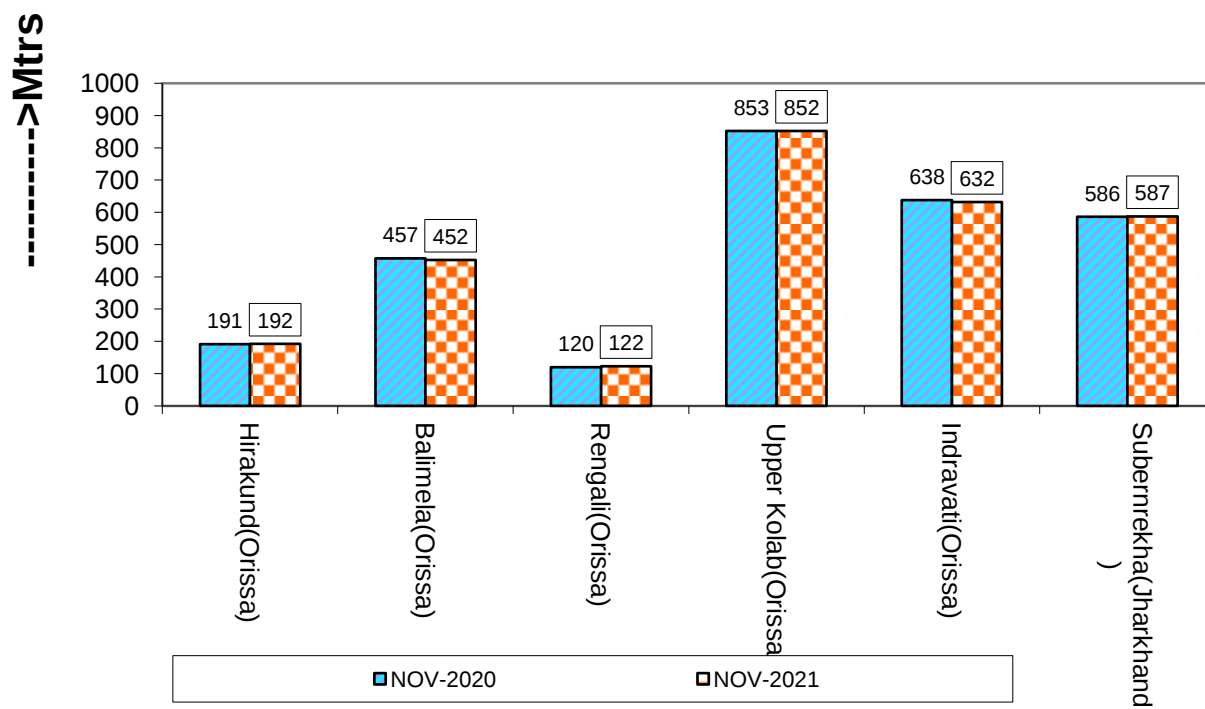
■ RES

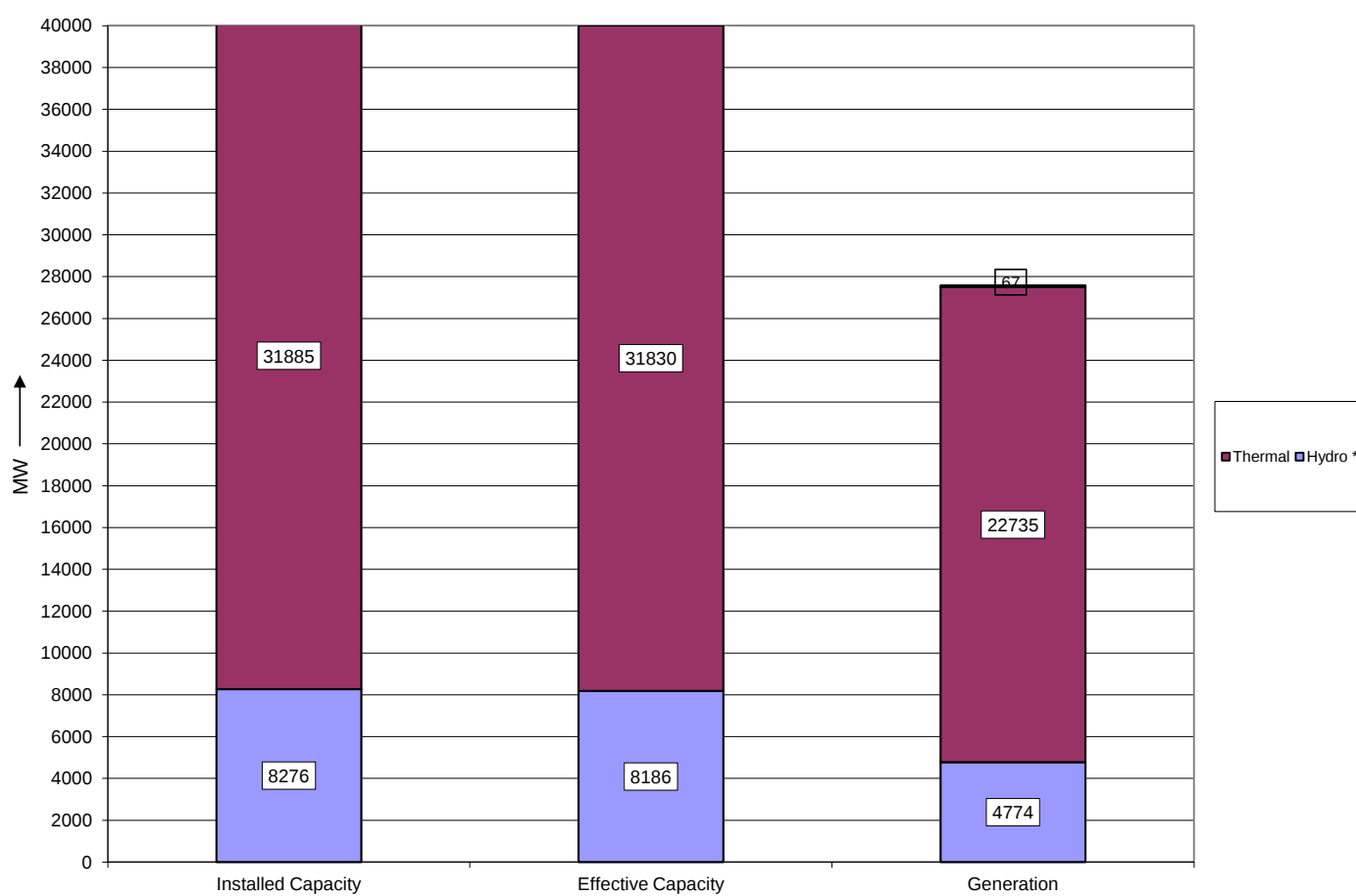
*Includes contribution from HEP of Bhutan

NET ENERGY GENERATION



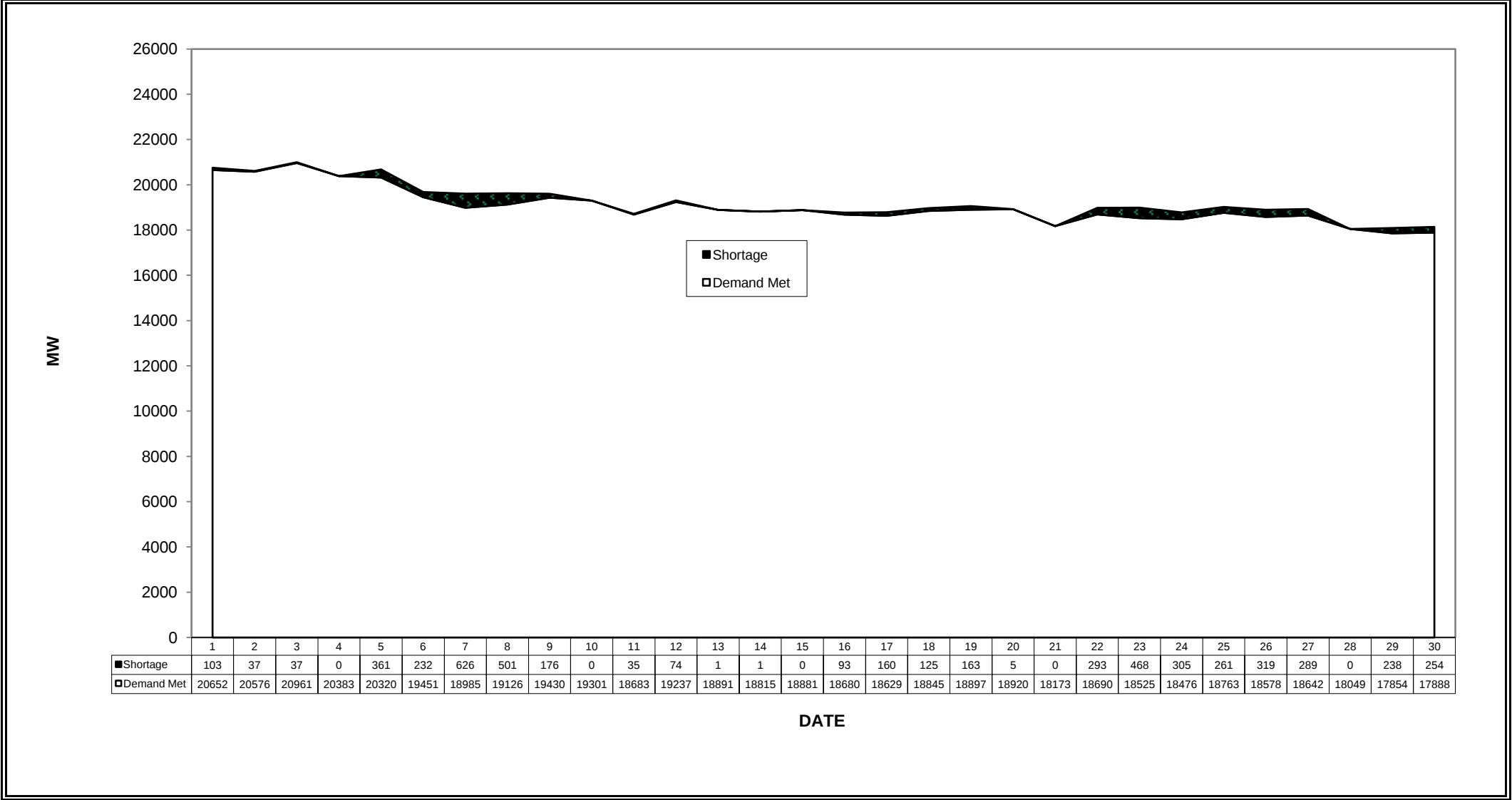
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



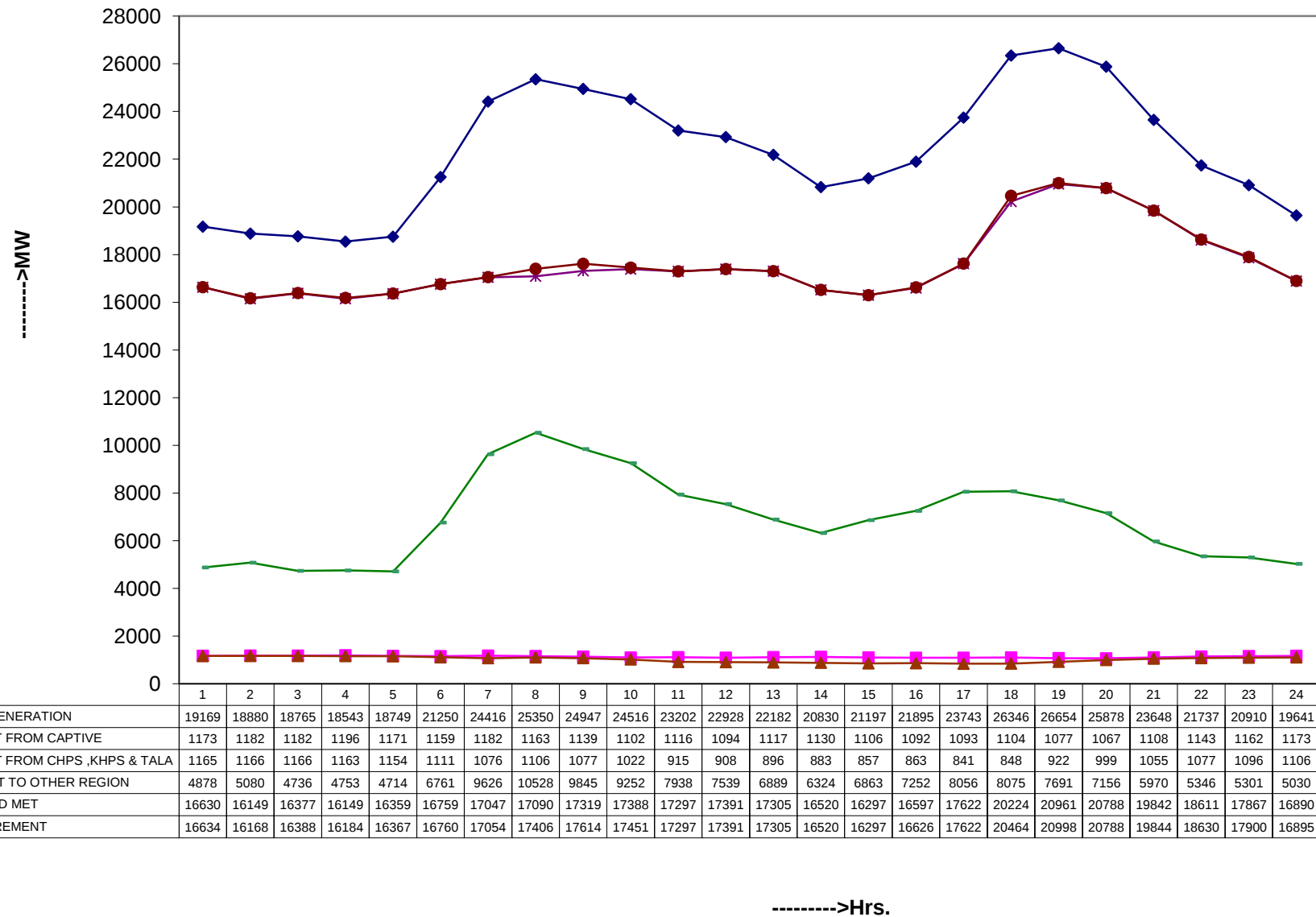
Capacity / Actual Generation Pattern of ER on Peak Day (3-11-2021) at 19.00 hrs.

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

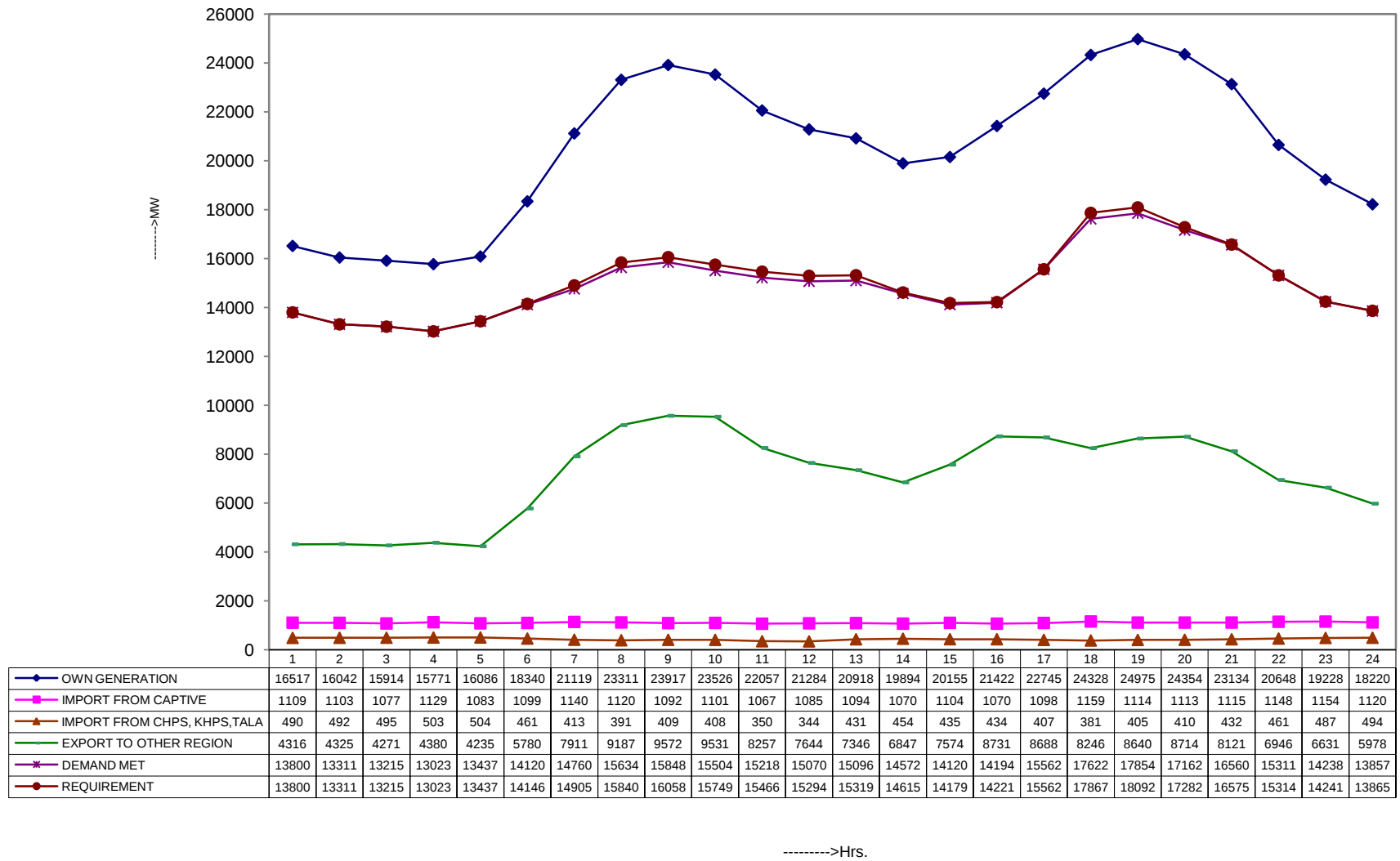
Peak Demand Met / Shortage of Eastern Region For The Month Of NOV'2021



Hourly Load Generation Data OF ER On Regional Peak Day During The Month of NOV'2021 (3-11-2021)

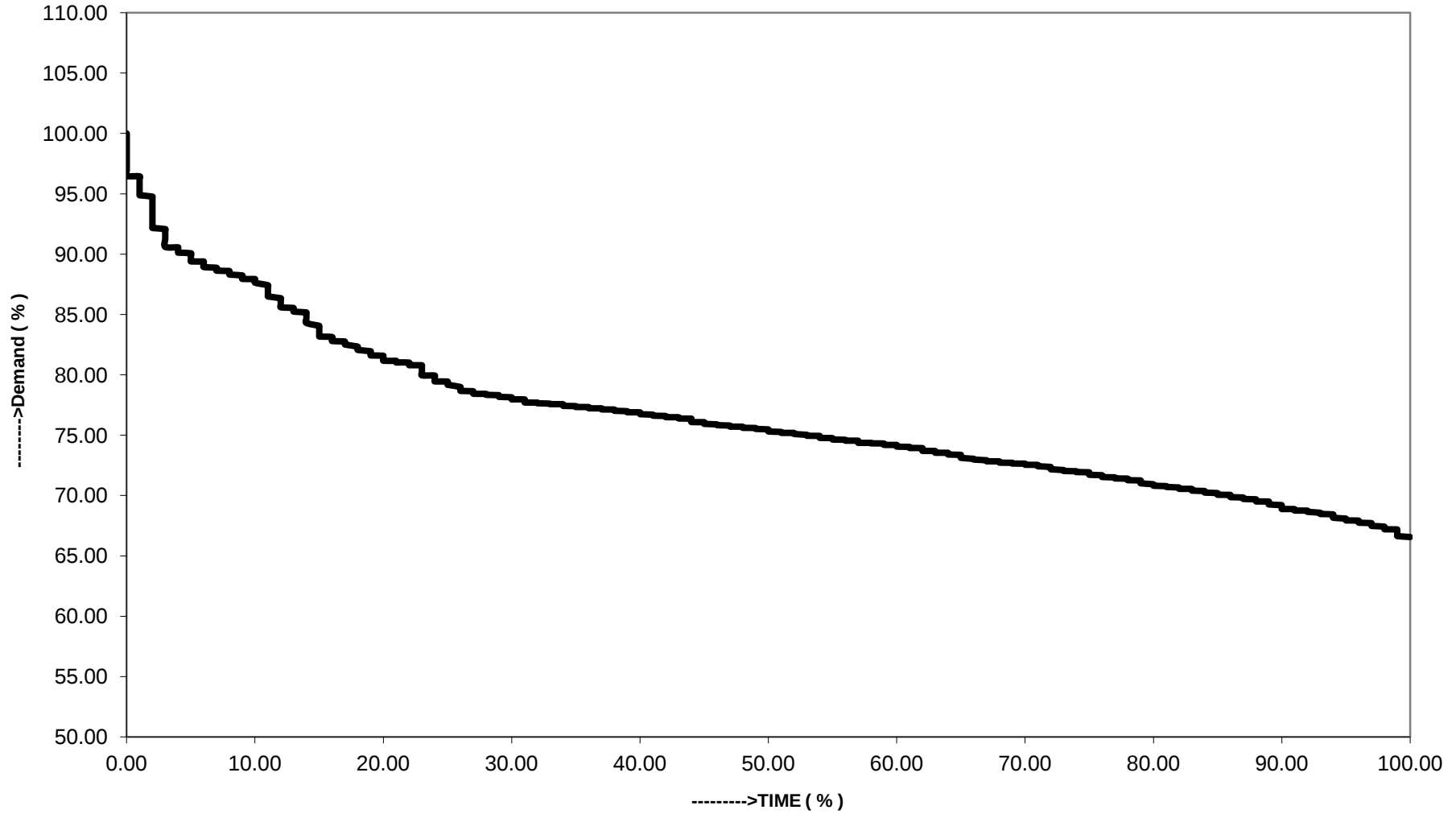


Hourly Load Generation Data of ER On Regional Lean Day During The Month of NOV'2021 (29-11-2021)



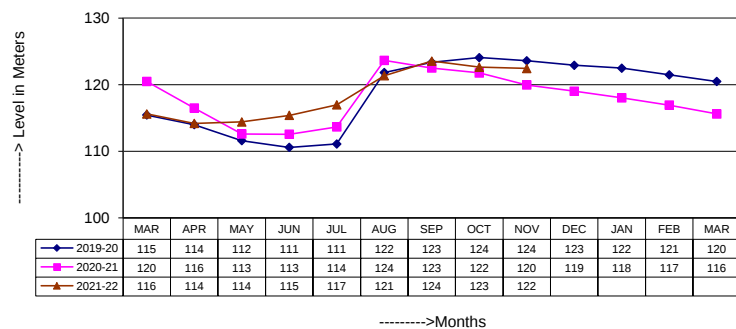
Monthly Load Duration Curve of Eastern Region for NOV-2021

Maximum Demand met : 20961 MW
Minimum Demand met: 13023 MW

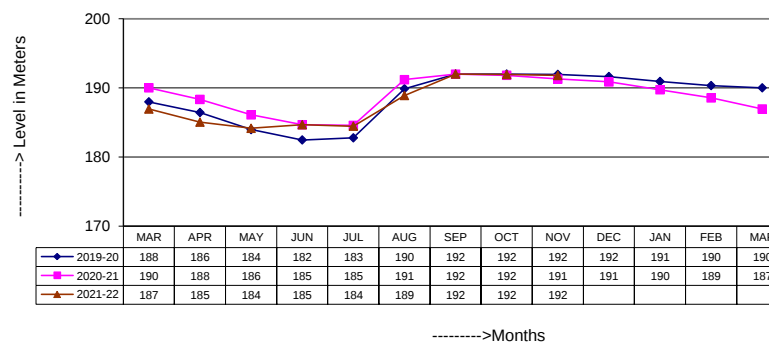


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

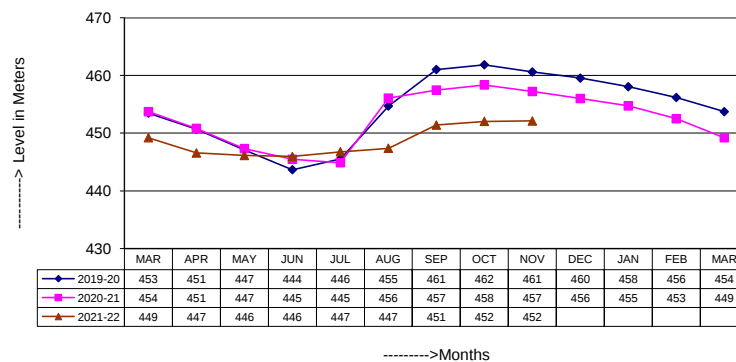
RENGALI RESERVOIR LEVEL



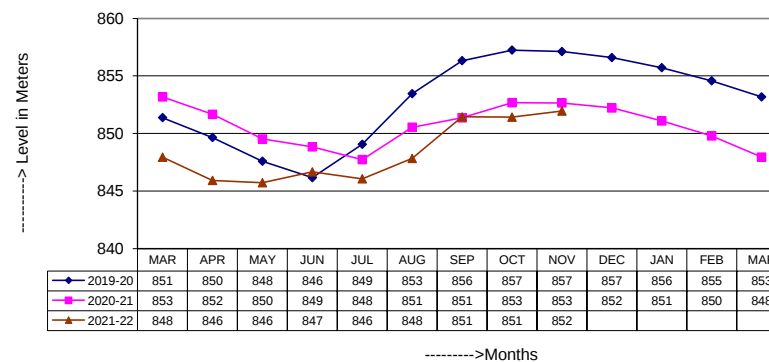
HIRAKUD RESERVOIR LEVEL



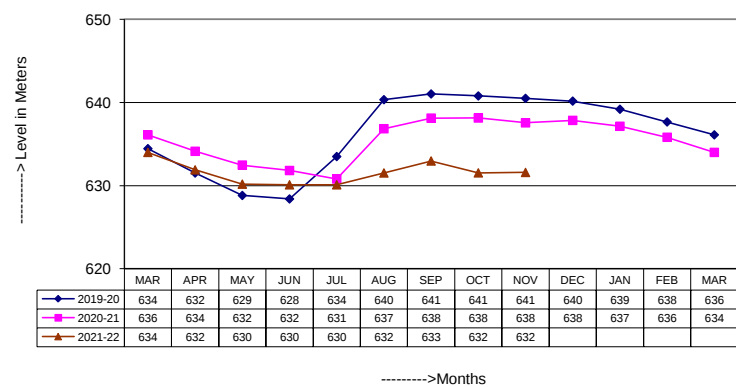
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

