



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



Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033

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सेवा में : (संलग्न सूची के अनुसार)

To: As per enclosed list.

विषय : फ़रवरी-2023 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 February, 2023
on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की फ़रवरी -2023 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 February, 2023 has been uploaded on ERPC website www.erpc.gov.in. This is for
your information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

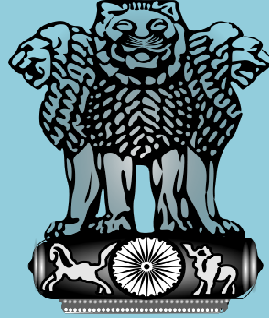
(Srijit Mukherjee)

कार्यकारी अभियंता

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Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

EASTERN REGIONAL POWER COMMITTEE

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

फ़रवरी - 2023

February-2023



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Highlights of Eastern Regional Power System for February- 2023

- The **Maximum Net Demand** met of **Eastern Region (ER)** during the month of **Feb, 2023** was **22689 MW** which is 7.03% more than the **Feb, 2022** (21198 MW). Individual **Peak Demand (MW)** of all the constituents (except Bihar & Sikkim) **increased** compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Feb, 2023** was **454.04 MU** (excluding export), which is 10.81% more than the corresponding period of last year (409.74 MU).
- The **Average regional PLF of thermal units during the month** is **82.09 %**, which is 6.84% more than the corresponding period of the last year (**75.25%**).

Santalidih TPS (WBPDC) registered the highest PLF of 103.03%, followed by Bakreswar TPP (WBPDC) 101.01% and Bokaro-A(1) (DVC) 97.59% during the month of **Feb, 2023**.
- **Maximum Net generation** was **29931.30 MW** against total **Effective Capacity of 41773.41 MW** (including import from Bhutan). At the time of Regional peak (**22689 MW** on 24.02.2023 at 19.00 hrs.), the generation was **28670 MW**, import from CPP was 2024 MW and Net export was 8005 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 64.68% of time during the month. **Average frequency** for the month was **49.99 Hz**. The instantaneous maximum and minimum frequency were 50.40 Hz and 49.51 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.33 Hz** and **49.68 Hz** respectively (refer Annexure-I).
- At 400 kV voltage level, the **maximum Voltage** recorded was 422 KV at Binaguri 400 KV S/s whereas the minimum voltage recorded 388 KV at Jamshedpur 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **11964 MW** (including Nepal and Bangladesh) on 14th Feb, 2023 at 07:00 hrs. Total net energy export during the month was 6024.39 MU (Inc.Transmission loss) which corresponds to 34.48 % of Ex-bus total generation 17472.76 MU of Eastern Region.
- The import from CPPs was 1180.06 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	6240	0	2694.32
WR	3141	1138	862.44
SR	3845	0	1964.33
NER	69	1093	-386.86
BANGLADESH			573.23
NEPAL (via-CTU)			209.05
Chukha, Kurichu, Tala, Mangdechhu			107.88
Total			6024.39
NEPAL by Bihar(NBPDCL)			61.63

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		Feb-23		FEB-2022	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)					
	THERMAL (MW)	32070		32080	-10	-0.03
	HYDRO (MW)	5990	\$	5990	0	0
	DIESEL (MW)	0		0	0	0
	RES (MW)	1518		1518	0	0
	TOTAL (MW)	39577		39587	-10	-0.03
2)	Peak Demand (MW)	22779		21540	1239	5.75
3)	Peak Demand Met (MW)	22689		21198	1491	7.03
4)	Shortage (MW)	90		342	-252	0.00
5)	% Shortage	0.39		1.59	-1.20	0.00
6)	Average Energy Requirement Per Day (MU)	457.76		412.62	45.14	10.94
7)	Average Energy Availability Per Day (MU)	454.04		409.74	44.30	10.81
8)	Average Shortage Per Day (MU)	3.72		2.87	0.85	--
9)	% Shortage	0.81		0.70	0.11	--
10)	Net Generation for the Month					
	Thermal (MU)	16554.00		15067.77	1486.23	9.86
	Hydro (MU)	771.71	*	710.01	61.70	8.69
	RES (MU)	147.04		115.79	0.00	-
	Total (MU)	17472.76		15893.57	1579.19	9.94
11)	Generation at the Time of Max. Regional Demand Met (24-02-23 at 19.00 Hrs.)					
	Thermal (MW)	25329		24521	808	3.29
	Hydro (MW)	3282	*	3186	96	3.03
	RES(MW)	59		15	44	290.85
	Total (MW)	28670		27722	948	3.42
12)	Inter-Regional Energy Transfer					
	Export (MU)	6411.25		5593.41	817.84	14.62
	Import (MU)	386.86		333.05	53.81	16.16
	Net Exp.(+)/Net Imp.(-) (MU)	6024.39		5260.36	764.03	14.52
13)	Import From Captive(MU)	1180.06		839.56	340.50	40.56
14)	Peak Inter Regional Power Transfer					
	Max Export (MW) on 14-02-23 at 07.00Hrs	11964		11501	463	4.03
	Max Import (MW) on 01-02-23 at 03.00Hrs	1728		1920	-192	-9.99
	Max Net Export(+)/Import (-) (MW)	11356		10888	468	4.30
15)	Maximum voltage recorded	422		BINAGURI	400 kv	s/s
16)	Minimum voltage recorded	388		JAMSHEDPUR	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 FEB'2023

A) Net Average Energy Per Day

System	Requirement Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSPHCL	90.17	90.99	0.82	0.90
JUVNL	33.14	36.03	2.89	8.02
DVC	73.55	73.58	0.03	0.04
ODISHA	107.17	107.21	0.04	0.04
WBSEDCL	123.69	123.76	0.08	0.06
CESC	24.33	24.34	0.01	0.04
SIKKIM	1.84	1.84	0.00	0.04
REGION	454.04	457.76	3.72	0.81

B) Peak Demand in MW:

System	Demand Met (MW)	Demand (MW)	Shortage (MW)	% Shortage
BSPHCL	5004	5027	23	0.46
JUVNL	1703	2019	316	15.64
DVC	3338	3338	0	0.00
ODISHA	5563	5567	4	0.07
WBSEDCL	6274	6274	0	0.00
CESC	1515	1515	0	0.0
SIKKIM	121	121	0	0.00
REGION	22689	22779	90	0.39

➤ DIVERSITY FACTOR : 1.04

➤ Regional Peak Demand Met on 24-2-2023 at 19.00 hrs. at 50.02 Hz.

CONSTITUENT-WISE PERFORMANCE DATA FEB-2023

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 Met (MW)	Demand Met (MW)
BSPHCL	0.00	271.41	50.09	321.50	0.00	25.21	0.00	25.21	0.00	246.20	50.09	296.29	0.00	2228.51	2524.80	90.2	5004	5029
JUVNL	3.95	333.96	0.00	337.91	0.00	30.45	0.00	30.45	3.95	303.52	0.00	307.46	33.58	586.85	927.90	33.1	1703	1751
DVC	13.91	3630.49	0.00	3644.40	0.17	231.19	0.00	231.36	13.74	3399.31	0.00	3413.05	4.20	-1357.76	2059.48	73.6	3338	3657
ODISHA(OPGC+OHPC+ITPS)	323.97	972.39	73.45	1369.81	2.40	66.35	0.00	68.75	321.57	906.04	73.45	1301.06	914.01	785.58	3000.65	107.2	5563	5673
WBPDC+WBSEDCL+DPL	177.48	2872.75	21.29	3071.52	0.00	235.12	0.00	235.12	177.48	2637.63	21.29	2836.40	228.27	398.54	3463.21	123.7	6274	6683
CESC	0.00	395.80	0.00	395.80	0.00	31.04	0.00	31.04	0.00	364.76	0.00	364.76	0.00	316.40	681.16	24.3	1515	1581
HEL	0.00	314.14	0.00	314.14	0.00	23.52	0.00	23.52	0.00	290.62	0.00	290.62	0.00	-290.62				
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	50.61	51.61	1.8	121	121
NTPC	0.00	7248.58	1.21	7249.79	0.00	473.28	0.00	473.28	0.00	6775.30	1.21	6776.51	0.00	-6776.51				
MPL	0.00	336.63	0.00	336.63	0.00	20.94	0.00	20.94	0.00	315.69	0.00	315.69	0.00	-315.69				
APNRL	0.00	307.11	0.00	307.11	0.00	24.21	0.00	24.21	0.00	282.91	0.00	282.91	0.00	-282.91				
GMR	0.00	439.43	0.00	439.43	0.00	26.83	0.00	26.83	0.00	412.60	0.00	412.60	0.00	-412.60				
JITPL	0.00	660.01	0.00	660.01	0.00	40.57	0.00	40.57	0.00	619.44	0.00	619.44	0.00	-619.44				
NHPC (Inc TLDP= 37.84 MU)	84.87	0.00	0.00	84.87	0.00	0.00	0.00	0.00	84.87	0.00	0.00	84.87	0.00	-84.87	0.00			
CHUZACHEN HPS	3.02	0.00	0.00	3.02	0.00	0.00	0.00	0.00	3.02	0.00	0.00	3.02	0.00	-3.02	0.00			
DIKCHU HPS	5.91	0.00	0.00	5.91	0.00	0.00	0.00	0.00	5.91	0.00	0.00	5.91	0.00	-5.91	0.00			
JORHANG HPS	6.20	0.00	0.00	6.20	0.00	0.00	0.00	0.00	6.20	0.00	0.00	6.20	0.00	-6.20	0.00			
TASHIDING HPS	7.43	0.00	0.00	7.43	0.00	0.00	0.00	0.00	7.43	0.00	0.00	7.43	0.00	-7.43	0.00			
TEESTA-III HPS	127.38	0.00	0.00	127.38	0.00	0.00	0.00	0.00	127.38	0.00	0.00	127.38	0.00	-127.38	0.00			
RONGNICHU HEP	3.32	0.00	0.00	3.32	0.00	0.00	0.00	0.00	3.32	0.00	0.00	3.32	0.00	-3.32	0.00			
CHPC(Birpara Receipt)	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	-0.05	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	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			
DAGACHU HPS	12.18	0.00	0.00	12.18	0.00	0.00	0.00	0.00	12.18	0.00	0.00	12.18	0.00	-12.18	0.00			
Mangdechhu HEP	4.64	0.00	0.00	4.64	0.00	0.00	0.00	0.00	4.64	0.00	0.00	4.64	0.00	-4.64	0.00			
Total Drawal by HVDC Sahsaram,Alipurduar & Others														4.35	4.35			
Total	774.32	17782.70	147.04	18704.06	2.58	1228.70	0.00	1231.28	771.74	16554.00	147.04	17472.78	1180.06	-5939.69	12713.15	454.04	22689	24579

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

A) Net Average Energy

Month	2021-22					2022-23				
	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	495.89	497.87	1.98	0.40	49.99	542.68	555.15	12.46	2.25	49.93
MAY	429.83	430.89	1.06	0.25	49.99	519.86	524.87	5.02	0.96	49.99
JUNE	462.07	462.84	0.77	0.17	49.99	547.72	553.79	6.07	1.10	49.98
JULY	498.44	500.02	1.57	0.31	50.00	569.64	576.81	7.17	1.24	49.99
AUGUST	501.37	505.13	3.76	0.74	49.99	556.08	563.58	7.50	1.33	49.98
SEPTEMBER	485.60	489.40	3.80	0.78	50.00	554.91	558.02	3.11	0.56	49.99
OCTOBER	453.17	458.67	5.51	1.20	49.98	498.49	500.63	2.14	0.43	50.00
NOVEMBER	388.80	390.35	1.55	0.40	49.99	418.14	422.38	4.24	1.00	49.99
DECEMBER	384.67	388.30	3.63	0.94	49.99	409.75	413.83	4.08	0.98	50.00
JANUARY	409.39	412.33	2.94	0.71	49.99	440.92	444.61	3.69	0.83	49.99
FEBRUARY	409.74	412.62	2.87	0.70	49.99	454.04	457.76	3.72	0.81	49.99
MARCH	474.37	479.88	5.51	1.15	49.97	-	-	-	-	-

B) Peak in MW:

Month	2021-22					2022-23				
	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)	Demand Met (MW)	Demand (MW)	Shortage (MW)	Shortage (%)	Avg. Freq. (HZ)
APRIL	24405	24405	0	0.00	49.99	25690	25735	45	0.17	49.93
MAY	24191	24191	0	0.00	49.99	25070	25369	299	1.18	49.99
JUNE	23494	23521	28	0.12	49.99	26196	26730	534	2.00	49.98
JULY	25145	26019	874	3.36	50.00	26609	27739	1130	4.07	49.99
AUGUST	24157	24236	79	0.33	49.99	27218	28275	1057	3.74	49.98
SEPTEMBER	25010	25454	445	1.75	50.00	26650	26915	266	0.99	49.99
OCTOBER	23675	23979	304	1.27	49.98	26220	26225	5	0.02	50.00
NOVEMBER	20961	20998	37	0.18	49.99	21741	22225	484	2.18	49.99
DECEMBER	20631	20992	362	1.72	49.99	20720	21076	357	1.69	50.00
JANUARY	21204	21396	191	0.89	49.99	22095	22461	366	1.63	49.99
FEBRUARY	21198	21540	342	1.59	49.99	22689	22779	90	0.39	49.99
MARCH	24582	24762	180	0.73	49.97	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF FEB -2023

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 (2022-23) in MU	Cummulative Net Energy Generation upto Current Month (2022-23) in MU
BIHAR	NTPC Thermal	Barauni (U# 6,7)	220.00	210.00	0.00	0.00	33.38	23.60
		Barauni (U# 8)	250.00	250.00	153.27	139.23	1588.58	1444.10
		Barauni (U# 9)	250.00	250.00	118.14	106.97	1669.57	1511.35
	for Bihar) RES	Thermal Total	720.00	710.00	271.41	246.20	3291.53	2979.05
			354.91	354.91	50.09	50.09	323.22	323.22
		Total BIHAR	1074.91	1064.91	321.50	296.29	3614.75	3302.27
	JHARKHAND							
TVNL	Thermal	TVNL	420.00	420.00	194.30	175.61	2415.52	2164.97
TPCL		JOJOBERA	240.00	240.00	139.66	127.91	1158.02	1059.08
JSEB	Hydro RES	Subarnrekha (U#1,2)	130.00	130.00	3.95	3.95	163.90	163.84
			60.41	60.41	0.00	0.00	0.00	0.00
		Total	190.41	190.41	3.95	3.95	163.90	163.84
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.29	0.00	-5.26
		Chandrapura(U7 # 8)	500.00	500.00	199.10	179.48	3294.37	2969.26
		Durgapur(4)			0.00	0.00	135.12	111.48
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	680.42	607.65	7669.24	6839.40
		Mejia(U # 7,8)	1000.00	1000.00	585.95	555.87	6593.32	6228.06
		Bokaro-A(1)	500.00	500.00	327.92	310.45	3476.73	3279.88
		Durgapur STPS (U#1,2)	1000.00	1000.00	646.35	616.65	6408.74	6070.98
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	603.55	570.06	4985.78	4662.02
		Koderma STPS (U#1,2)	1000.00	1000.00	587.22	559.44	6621.92	6270.15
		Total Thermal	6540.00	6540.00	3630.49	3399.31	39185.21	36425.98
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.02	3.99	94.23	93.97
		Panchet (U#1,2)	80.00	80.00	8.80	8.67	133.66	132.61
		Tilaiya (U#1,2)	4.00	4.00	1.09	1.1	2.41	2.3
		Hydro Total	147.20	147.20	13.91	13.74	230.29	228.90
		Total DVC	6687.20	6687.20	3644.40	3413.05	39415.50	36654.88
WEST BENGAL								
WBPDCCL	Thermal	Bandel TPS	320.00	275.00	168.88	154.17	1695.15	1532.28
		Santalidih TPS(U#5&6)	500.00	500.00	346.19	320.15	3631.47	3337.96
		Kolaghat TPS	840.00	840.00	426.62	382.89	4506.21	4002.22
		Bakreswar TPP	1050.00	1050.00	712.74	655.43	7705.39	7050.28
		Sagardighi TPP	1600.00	1600.00	1025.91	951.70	11336.69	10502.78
		DPPS (300+250)	550.00	550.00	192.41	173.30	2481.63	2229.27
		Thermal Total	4860.00	4815.00	2872.75	2637.63	31356.53	28654.78
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.00	0.00	167.11	167.11
		Rammam (4x12.73)	51.00	51.00	7.41	7.41	236.19	236.19
		Teesta C.F. (3x3x7.5)	67.50	67.50	9.06	9.06	127.52	127.52
		Purulia PSS (4x225)	900.00	900.00	161.01	161.01	1486.69	1486.69
		Total Hydro	1053.50	1053.50	177.48	177.48	2017.51	2017.51
		RES	500.76	500.76	21.29	21.29	202.99	202.99

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF FEB -2023

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 (2022-23) in MU	upto Current Month (2022-23) 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	8.39	7.63	580.30	530.25
		Budge-Budge (3x250)	750.00	750.00	387.41	357.12	4837.61	4453.57
		Total CESC	1125.00	1125.00	395.80	364.76	5417.91	4983.82
HEL	Thermal	HEL	600.00	600.00	314.14	290.62	3857.03	3554.98
		Total West Bengal	8139.26	8094.26	3781.46	3491.78	42851.97	39414.08
OPGC	Thermal	IB TPS	420.00	420.00	246.29	219.64	2522.32	2228.39
		IB TPS U#3(660 MW)	660.00	660.00	348.49	329.43	4153.70	3917.59
		IB TPS U#4(660 MW)	660.00	660.00	377.61	356.97	3922.83	3702.83
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	20.75	20.63	890.14	887.88
		Hirakud-II (Chiplima)	72.00	72.00	13.21	13.18	316.83	315.88
		Balimela (6x60+2x75)	510.00	510.00	46.98	46.52	971.64	965.14
		Rengali (5x50)	250.00	250.00	38.53	38.44	735.26	734.24
		Upper Kolab (4x80)	320.00	320.00	79.62	79.35	468.47	466.82
		Indravati HPS (4x150)	600.00	600.00	107.72	106.29	1264.76	1251.01
		Mckd.(Odisha drawal)	57.38	57.38	17.17	17.17	213.93	213.93
		Total Hydro	2084.88	2084.88	323.97	321.57	4861.02	4834.90
		RES	539.57	539.57	73.45	73.45	663.91	663.91
		Total Odisha	4364.45	4364.45	1369.81	1301.06	16123.77	15347.62
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	16.00	16.00
NTPC		MTPS Stg-II	390.00	390.00	255.95	232.45	2720.16	2459.31
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	919.06	850.54	8828.88	8106.51
		FSTPP (U# 6)	500.00	500.00	315.18	296.13	2409.90	2243.84
		KhSTPP (4x210+3x500)	2340.00	2340.00	1306.55	1220.22	14362.87	13324.63
		TSTPP (2x500)	1000.00	1000.00	633.88	589.70	6863.99	6355.99
		BARH STPS II (2X660)	1320.00	1320.00	829.19	784.79	8533.79	8052.88
		BARH STPS I (1X660)	660.00	660.00	262.43	244.14	3664.41	3426.53
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	486.95	451.53	6356.51	5867.01
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1249.81	1175.02	11473.75	10872.08
		NSTPS infirm			0.00	0.00	75.63	69.22
		DSTPP #1&2	1600.00	1600.00	989.58	930.76	10212.78	9572.09
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		NKSTPP_INF			90.61	84.72	196.78	183.99
Total NTPC	12390.00	12390.00	7248.58	6775.30	75608.85	70449.35		
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	0.00	0.00	310.81	310.81
		Teesta (3x170)	510.00	510.00	70.96	70.96	2732.96	2732.96
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	13.91	13.91	1284.18	1284.18
		Total NHPC	862.00	862.00	84.87	84.87	4327.95	4327.95
		MPL (U#1&2)	1050.00	1050.00	336.63	315.69	6899.46	6510.34
		APNRL (U#1,2)	540.00	540.00	307.11	282.91	3274.36	2992.91
		GMR (2x350)	700.00	700.00	439.43	412.60	4220.79	3934.28
		JITPL (2X600)	1200.00	1200.00	660.01	619.44	7088.57	6666.37
		CHUZACHEN** (2x55)	110.00	110.00	3.02	3.02	482.30	482.30
		JORETHANG (2x48)	96.00	96.00	6.20	6.20	421.13	421.13
		TEESTA URJA St III (6x200)	1200.00	1200.00	127.38	127.38	5939.41	5939.41
		Tashilding (2x48.5)	97.00	97.00	7.43	7.43	440.12	440.12
		DICKCHU (2x48)	96.00	96.00	5.91	5.91	522.69	522.69
		RONGNICHU HEP (2x56.5)			3.32	3.32	418.80	418.80
		TALCHER SOLAR	10.00	10.00	1.21	1.21	11.99	11.99
		Total Thermal (E.R)	32125.00	32070.00	17782.70	16554.00	194372.64	180224.72
		Total Hydro (E.R)	5989.58	5989.58	757.45	754.87	19825.12	19797.55
		Total RES	1517.83	1517.83	147.04	147.04	1218.11	1218.11
		EASTERN REGIONAL		TOTAL (E.R)	39632.41	39577.41	18687.19	17455.91
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	0.03	0.03	1569.86	1569.86
	Hydro	Kurichu (4x15)	60.00	60.00	0.00	0.00	28.65	28.65
	Hydro	TALA (6x170)	1020.00	1020.00	0.00	0.00	2417.33	2417.33
	Hydro	DAGACHU (2x63)	126.00	126.00	12.18	12.18	409.46	409.46
		MANGDECHU(4x180)	720.00	720.00	4.64	4.64	2637.56	2637.56
		Grand Total	41918.41	41773.41	18704.04	17472.76	222478.73	208303.24

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF FEB' 2023

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 (2022-23) in MU	Cummulative PLF upto Current Month (%)
BIHAR	NTPC	Barauni (U# 6,7)	220.00	210.00	0.00	-4.38	33.38	0.77
	Thermal	Barauni (U# 8)	250.00	250.00	153.27	91.23	1588.58	79.27
		Barauni (U# 9)	250.00	250.00	118.14	70.32	1669.57	83.31
	for Bihar) RES	Thermal Total	720.00	710.00	271.41	56.88	3291.53	57.47
			354.91	354.91	50.09		323.22	
		Total BIHAR	1074.91	1064.91	321.50		3614.75	
JHARKHAND								
TVNL	Thermal	TVNL	420.00	420.00	194.30	68.84	2415.52	71.75
		JOJOBERA	240.00	240.00	139.66	86.59	1158.02	94.83
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	3.95		163.90	
	RES		60.41	60.41	0.00		0.00	
		Total	190.41	190.41	3.95		163.90	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura(U7 # 8)	500.00	500.00	199.10	59.26	3294.37	82.19
		Durgapur(4)			0.00	0.00	135.12	9.75
		Mezla(1,2,3,4,5,6)	1340.00	1340.00	680.42	75.56	7669.24	71.40
		Mejia(U # 7,8)	1000.00	1000.00	585.95	87.20	6593.32	82.25
		Bokaro-A(1)	500.00	500.00	327.92	97.59	3476.73	86.74
		Durgapur STPS (U#1,2)	1000.00	1000.00	646.35	96.18	6408.74	79.95
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	603.55	74.84	4985.78	51.83
		Koderma STPS (U#1,2)	1000.00	1000.00	587.22	87.38	6621.92	82.61
		Total Thermal	6540.00	6540.00	3630.49	82.61	39185.21	72.82
	Hydro	Maithon (U#1,2,3)	63.20	63.20	4.02		94.23	
		Panchet (U#1,2)	80.00	80.00	8.80		133.66	
		Tilaiya (U#1,2)	4.00	4.00	1.09		2.41	
		Hydro Total	147.20	147.20	13.91		230.29	
		Total DVC	6687.20	6687.20	3644.40		39415.50	
WEST BENGAL								
WBPDC	Thermal	Bandel TPS	320.00	275.00	168.88	91.39	1695.15	76.90
		Santalidih TPS(U#5&6)	500.00	500.00	346.19	103.03	3631.47	90.61
		Kolaghat TPS	840.00	840.00	426.62	75.58	4506.21	66.92
		Bakreswar TPP	1050.00	1050.00	712.74	101.01	7705.39	91.55
		Sagardighi TPP	1600.00	1600.00	1025.91	95.42	11336.69	88.39
		DPPS (300+250)	550.00	550.00	192.41	52.06	2481.63	56.29
		Thermal Total	4860.00	4815.00	2872.75	88.78	31356.53	81.24
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	0.00		167.11	
		Rammam (4x12.73)	51.00	51.00	7.41		236.19	
		Teesta C.F. (3x3x7.5)	67.50	67.50	9.06		127.52	
		Purulia PSS (4x225)	900.00	900.00	161.01		1486.69	
		Total Hydro	1053.50	1053.50	177.48		2017.51	
	RES		500.76	500.76	21.29		202.99	
DE- COMM SSIONED	1.WBPDC,Bandel TPS Unit #1 (IC=1X60 MW,EC=1X60 MW) decommissioned from 21.02.2022.							
	2.WBPDC,Kolaghat TPS Unit #1,2 (IC=2X210 MW,EC=2X210 MW) decommissioned from 21.02.2022.							
	3.BIHAR, Muzaffarpur TPS Unit(KBUNL) #1,2 (IC=2X110 MW, EC=2X110 MW) decommissioned from 08.09.2021.							
	4.NTPC, TTPS Odisha All Six units(4X62.5+2X110) decommissioned from 01.04.2021							
	5.DVC, BTPS(B) Unit #3 (210 MW) de-commissioned from 01.04.2021							
	6. DPL U#6 (110 MW) Decommissioned from 28.01.20 as per CEA.							
	7. CTPS U#6 (140 MW) Decommissioned from 19.03.2020 as per CEA.							
	8.KBUNL Muzaffarpur TPS U-1 & 2, each 110 MW decommissioned on 08.09.2021							
	9. DTSP#4 decommissioned on 19.12.22							
COMMISS- SIONED	1.NTPC NPGCL U#3 (660 MW) COD from 01.06.2022							
	2.NTPC Nabinagar TPP(BRBCL) U#4 (250 MW) COD from 01.12.2021							
	3.NTPC BARAUNI TPP U#9 (250 MW) COD from 01.11.2021							
	4.NTPC Barh St-1, U#1(660 MW) COD from 12.11.2021							
	5.NSTPS U#2 (660 MW) COD from 23.07.2021							
	6.NTPC DARLIPALI STPS U#2 (800 MW) COD 01.09.2021							
	7.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020							
	8.BARAUNI TPS U#1(250 MW) COD 01.03.2020							

PLANT LOAD FACTOR (PLF) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF FEB' 2023

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 (2022-23) in MU	Cummulative PLF upto Current Month (%)
			(in MW)	(in MW)				
CESC	Thermal	Titagarh (4x60)	240.00	240.00	0.00	0.00	0.00	0.00
		Southern (2x67.5)	135.00	135.00	8.39	9.25	580.30	53.62
		Budge-Budge (3x250)	750.00	750.00	387.41	76.87	4837.61	80.47
		Total CESC	1125.00	1125.00	395.80	52.35	5417.91	60.08
HEL	Thermal	HEL	600.00	600.00	314.14	77.91	3857.03	80.19
		Total West Bengal	8139.26	8094.26	3781.46		42851.97	
OPGC	Thermal	IB TPS	420.00	420.00	246.29	87.26	2522.32	74.92
		IB TPS U#3(660 MW)	660.00	660.00	348.49	78.57	4153.70	78.51
		IB TPS U#4(660 MW)	660.00	660.00	377.61	85.14	3922.83	74.15
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	20.75		890.14	
		Hirakud-II (Chiplima)	72.00	72.00	13.21		316.83	
		Balimela (6x60+2x75)	510.00	510.00	46.98		971.64	
		Rengali (5x50)	250.00	250.00	38.53		735.26	
		Upper Kolab (4x80)	320.00	320.00	79.62		468.47	
		Indravati HPS (4x150)	600.00	600.00	107.72		1264.76	
		Mckd.(Odisha drawal)	57.38	57.38	17.17		213.93	
		Total Hydro	2084.88	2084.88	323.97		4861.02	
		RES	539.57	539.57	73.45		663.91	
		Total Odisha	4364.45	4364.45	1369.81		16123.77	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		16.00	
NTPC		MTPS Stg-II	390.00	390.00	255.95	97.66	2720.16	87.01
		FSTPP# I&II (3x200+2x500)	1600.00	1600.00	919.06	85.48	8828.88	68.84
		FSTPP (U# 6)	500.00	500.00	315.18	93.80	2409.90	60.13
		KhSTPP (4x210+3x500)	2340.00	2340.00	1306.55	83.09	14362.87	76.57
		TSTPP (2x500)	1000.00	1000.00	633.88	94.33	6863.99	85.63
		BARH STPS II (2X660)	1320.00	1320.00	829.19	93.48	8533.79	80.65
		BARH STPS I (1X660)	660.00	660.00	262.43	59.17	3664.41	69.26
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	486.95	72.46	6356.51	79.30
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# I&2	1980.00	1980.00	1249.81	93.93	11473.75	76.98
		NSTPS infirm					75.63	
		DSTPP #1&2	1600.00	1600.00	989.58	92.04	10212.78	79.63
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		NKSTPP_INF			90.61		196.78	
		Total NTPC	12390.00	12390.00	7248.58	85.97	75608.85	76.60
NHPC	HYDRO	Rangit (3x20)	60.00	60.00	0.00		310.81	
		Teesta (3x170)	510.00	510.00	70.96		2732.96	
		TLDP(4x33+4x40) for WBSEDCL	292.00	292.00	13.91		1284.18	
		Total NHPC	862.00	862.00	84.87		4327.95	
	Thermal	MPL (U#1&2)	1050.00	1050.00	336.63	47.71	6899.46	81.97
		APNRL (U#1,2)	540.00	540.00	307.11	84.63	3274.36	75.64
		GMR (2x350)	700.00	700.00	439.43	93.42	4220.79	75.22
		JITPL (2X600)	1200.00	1200.00	660.01	81.85	7088.57	73.69
		CHUZACHEN** (2x55)	110.00	110.00	3.02		482.30	
		JORETHANG (2x48)	96.00	96.00	6.20		421.13	
		TEESTA URJA St III (6x200)	1200.00	1200.00	127.38		5939.41	
		Tashilding (2x48.5)	97.00	97.00	7.43		440.12	
		DICKCHU (2x48)	96.00	96.00	5.91		522.69	
		RONGNICHU HEP (2x56.5)			3.32		418.80	
		TALCHER SOLAR	10.00	10.00	1.21		11.99	
		Total Thermal (E.R)	32125.00	32070.00	17782.70	82.09	194372.64	75.10
	EASTERN REGIONAL	Total Hydro (E.R)	5989.58	5989.58	757.45		19825.12	
		Total RES	1517.83	1517.83	147.04		1218.11	
		TOTAL (E.R)	39632.41	39577.41	18687.19		215415.87	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	0.03		1569.86	
	Hydro	Kurichu (4x15)	60.00	60.00	0.00		28.65	
	Hydro	TALA (6x170)	1020.00	1020.00	0.00		2417.33	
	Hydro	DAGACHU (2x63)	126.00	126.00	12.18		409.46	
		MANGDECHU(4x180)	720.00	720.00	4.64		2637.56	
Grand Total			41918.41	41773.41	18704.04		222478.73	

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH
OF FEB'2023 (24-2-2023)

Date 24-Feb-23
Time 19.00 Hrs.
Frequency 50.02 Hz.

						(All Fig. in MW)
System/State	Installed Capacity	Effective Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1075	1065	1	228	0.6	229
JUVNL	850	850	110	430	0	540
DVC	6687	6687	21	4811	0	4832
ODISHA	4364	4364	963	1442	58	2463
WBSEDCL	5864	5819	923	4110	0	5033
TLDP	292	292	142	0	0	142
HEL HALDIA	600	600	0	551	0	551
CESC	1125	1125	0	762	0	762
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	12390	12390	0	10834	0	10834
NHPC	570	570	342	0	0	342
CHUKHA	360	270	51	0	0	51
KURICHU	60	60	-16	0	0	-16
TALA	1020	1020	36	0	0	36
MPL	1050	1050	0	463	0	463
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	489	0	489
Kamalganga (GMR)	700	700	0	652	0	652
JITPL	1200	1200	0	557	0	557
RONGNICHU HEP (2x56.5)	113	113	0	0	0	0
Chuzachen	110	110	30	0	0	30
Jorethang	96	96	35	0	0	35
TEESTA URJA St III	1200	1200	605	0	0	605
Tashilding	97	97	32	0	0	32
DICKCHU	96	96	54	0	0	54
<u>Daghachu</u>	126	126	17	0	0	17
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	-63	0	0	-63
<u>Total</u>	41918	41773	3283	25329	59	28670
Import From Captive:						2024
Export To:						
NER						-579
SR						2638
WR						1083
NR						3910
Bangladesh						801
Nepal						152
Total						8005
➤ Regional Net Peak Demand Met (MW) :						22689

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

Hourly Load Generation Data OF ER on Regional Peak Day During The Month of FEB'2023 (24-2-2023)

(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	636	25119	25755	1586	-239	8220	18882	64	149	19095
2	583	25017	25600	1618	-259	8193	18766	25	149	18939
3	258	25016	25274	1636	-322	8095	18493	6	149	18648
4	230	24914	25144	1689	-304	8160	18370	-3	149	18515
5	313	25129	25442	1723	-107	8618	18441	45	149	18634
6	1179	25168	26348	1802	13	9425	18737	54	238	19029
7	1946	25133	27080	1924	16	9522	19498	14	265	19776
8	2351	25394	27746	1995	30	9320	20451	88	265	20804
9	2011	25399	27410	2005	28	8797	20646	16	199	20861
10	1427	25489	26916	2024	26	8347	20619	132	261	21012
11	1269	25416	26685	1955	27	8052	20615	25	197	20838
12	1165	25461	26626	1955	-7	8144	20430	46	221	20697
13	1109	25289	26398	1903	-323	7871	20107	-14	179	20272
14	623	25009	25631	1814	-350	7963	19132	-45	102	19189
15	524	24945	25470	1756	-334	7980	18912	-15	0	18912
16	619	25127	25746	1886	-107	8389	19136	-3	121	19254
17	957	25296	26253	1966	26	8807	19438	3	121	19563
18	2093	25322	27415	1991	21	8475	20953	-15	251	21189
19	3315	25329	28644	2024	26	8005	22689	-16	106	22779
20	3426	25280	28706	2008	27	8362	22379	-27	262	22613
21	2339	25451	27790	1997	4	8245	21546	17	194	21757
22	1410	25465	26876	1907	-257	8149	20376	9	230	20615
23	1167	25395	26562	1875	-279	8401	19757	29	0	19786
24	821	25015	25835	1753	-271	8042	19275	15	0	19290

Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEB'2023 (6-2-2023)

(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	333	23580	23913	1332	-280	8302	16664	-12	0	16664
2	322	22591	22914	1338	-272	7947	16032	-18	0	16032
3	254	22237	22491	1349	-268	7676	15896	-4	0	15896
4	229	22535	22765	1330	-261	7986	15847	-3	1	15848
5	246	23655	23900	1379	-237	8918	16124	-13	1	16125
6	572	24321	24892	1512	-218	9301	16885	15	161	17060
7	1836	25269	27105	1657	-12	10326	18425	31	327	18782
8	3267	25795	29062	1682	19	10939	19824	7	463	20293
9	3235	25645	28881	1771	23	10258	20372	-39	182	20514
10	2260	25832	28092	1791	22	9653	20203	41	74	20318
11	1785	25723	27508	1718	25	9360	19889	-19	5	19893
12	737	25352	26089	1696	26	8583	19228	-24	1	19229
13	770	25240	26010	1609	-108	8360	19152	-40	1	19153
14	661	25048	25709	1658	-266	8624	18476	-31	133	18579
15	777	25193	25970	1519	-261	9212	18017	30	1	18048
16	755	25234	25988	1325	-231	9201	17882	-5	2	17883
17	585	25368	25952	1559	-8	9109	18394	-42	1	18395
18	1542	25999	27540	1701	25	9327	19940	-37	317	20220
19	3548	26321	29869	1852	24	10312	21442	73	493	22008
20	3451	26338	29789	1800	28	10767	20858	22	359	21239
21	2128	25864	27992	1813	26	9734	20097	-33	357	20420
22	872	25940	26813	1649	16	9901	18577	18	0	18595
23	395	25658	26052	1637	-252	9479	17958	52	0	18010
24	417	25359	25776	1448	-277	9660	17288	61	0	17349

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

FOR THE MONTH OF FEB'2023

POWER CUT / RESTRICTIONS

BSPHCL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 21.97 MU
JUVNL	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 80.52 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 0.69 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

Feb-23

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-Feb	50.01	49.99	50.02	49.96	50.00	50.00	9.75	59.75	30.50	59.75	50.37	22:00:50	49.68	06:13:20	50.19	0:00	49.77	0:00
02-Feb	49.98	49.98	49.95	50.03	49.98	49.98	13.81	65.03	21.16	65.03	50.33	17:03:30	49.70	16:25:50	50.17	0:00	49.82	0:00
03-Feb	49.96	49.98	49.98	50.05	49.95	49.99	14.13	58.81	27.06	58.81	50.34	17:04:50	49.62	00:49:10	50.20	0:00	49.69	0:00
04-Feb	50.00	49.99	49.95	50.01	49.94	49.98	12.56	65.08	22.36	65.08	50.25	18:02:40	49.72	14:50:30	50.10	0:00	49.76	0:00
05-Feb	50.00	49.99	50.06	49.98	49.98	50.01	7.58	61.13	31.28	61.13	50.33	14:01:20	49.76	09:04:40	50.29	0:00	49.86	0:00
06-Feb	50.02	49.98	50.03	49.99	49.91	50.00	13.95	57.71	28.34	57.71	50.39	16:05:30	49.69	18:42:00	50.28	0:00	49.75	0:00
07-Feb	49.92	49.94	50.00	49.98	50.00	49.96	20.56	59.39	20.06	59.39	50.25	17:03:00	49.68	18:31:00	50.12	0:00	49.80	0:00
08-Feb	49.98	49.96	50.00	50.00	50.02	49.99	10.02	68.88	21.10	68.88	50.27	17:02:40	49.67	07:13:30	50.11	0:00	49.83	0:00
09-Feb	50.03	50.01	50.00	50.03	49.98	50.01	6.32	59.92	33.76	59.92	50.35	17:03:50	49.51	11:46:30	50.23	0:00	49.81	0:00
10-Feb	50.02	50.00	50.02	50.01	49.97	50.01	6.11	63.84	30.05	63.84	50.40	13:03:40	49.64	11:31:30	50.33	0:00	49.90	0:00
11-Feb	49.98	49.97	49.98	49.98	49.93	49.97	15.03	67.61	17.36	67.61	50.27	06:02:20	49.66	09:10:10	50.06	0:00	49.75	0:00
12-Feb	50.02	50.03	50.09	50.03	50.05	50.05	1.30	49.83	48.88	49.83	50.38	14:04:20	49.84	21:03:20	50.32	0:00	49.97	0:00
13-Feb	50.00	50.03	49.99	49.99	49.97	50.00	6.75	66.50	26.75	66.50	50.32	00:01:20	49.74	06:12:30	50.16	0:00	49.91	0:00
14-Feb	49.97	49.96	49.97	49.94	49.99	49.96	17.64	65.91	16.45	65.91	50.23	16:04:40	49.59	07:12:40	50.08	0:00	49.73	0:00
15-Feb	49.94	49.93	50.01	49.95	50.00	49.97	14.20	66.42	19.38	66.42	50.23	13:02:30	49.62	18:40:40	50.11	0:00	49.68	0:00
16-Feb	49.99	49.94	49.98	50.02	49.96	49.98	13.72	64.16	22.12	64.16	50.31	18:02:40	49.67	06:41:20	50.12	0:00	49.76	0:00
17-Feb	49.99	50.00	50.01	49.99	49.93	49.99	7.33	66.67	26.00	66.67	50.30	06:02:00	49.58	22:09:10	50.10	0:00	49.80	0:00
18-Feb	49.95	49.98	49.99	50.02	49.91	49.98	10.44	71.44	18.12	71.44	50.37	18:03:30	49.76	22:07:50	50.16	0:00	49.82	0:00
19-Feb	49.97	50.01	50.00	50.03	50.01	50.00	3.04	67.85	29.11	67.85	50.35	18:03:00	49.74	21:06:20	50.18	0:00	49.90	0:00
20-Feb	49.97	50.02	49.99	50.01	49.93	49.99	8.45	65.29	26.26	65.29	50.32	18:03:50	49.70	04:13:20	50.14	0:00	49.85	0:00
21-Feb	49.96	49.96	49.96	49.98	49.94	49.96	14.28	73.53	12.19	73.53	50.20	06:03:10	49.76	22:07:30	50.11	0:00	49.81	0:00
22-Feb	49.97	49.97	49.98	50.03	49.98	49.99	8.33	69.10	22.57	69.10	50.24	17:03:50	49.70	06:14:20	50.11	0:00	49.86	0:00
23-Feb	49.98	50.02	49.99	49.99	49.99	50.00	5.37	70.02	24.61	70.02	50.29	18:04:20	49.70	22:08:30	50.11	0:00	49.86	0:00
24-Feb	49.96	49.91	50.00	50.01	49.97	49.97	15.73	62.30	21.97	62.30	50.30	18:03:20	49.63	09:06:50	50.13	0:00	49.78	0:00
25-Feb	49.98	49.99	49.97	50.00	50.01	49.98	10.88	67.65	21.47	67.65	50.37	18:02:20	49.69	09:05:30	50.17	0:00	49.83	0:00
26-Feb	49.98	50.01	50.00	50.01	49.97	50.00	6.88	66.74	26.39	66.74	50.29	18:02:50	49.77	21:04:50	50.10	0:00	49.89	0:00
27-Feb	50.01	50.01	49.94	49.99	49.94	49.98	13.33	66.00	20.67	66.00	50.33	18:02:40	49.66	22:08:50	50.10	0:00	49.82	0:00
28-Feb	49.98	49.94	49.94	50.04	50.03	49.98	13.61	64.44	21.94	64.44	50.32	18:02:50	49.61	16:27:20	50.15	0:00	49.69	0:00
MAX	50.03	50.03	50.09	50.05	50.05	50.05	20.56	73.53	48.88	73.53	50.40		49.84		50.33		49.97	
MIN	49.92	49.91	49.94	49.94	49.91	49.96	1.30	49.83	12.19	49.83	50.20		49.51		50.05		49.68	
AVG	49.98	49.98	49.99	50.00	49.97	49.99	10.75	64.68	24.57	64.68	50.31		49.68		50.16		49.81	

SUMMARY:

Avg. Frequency :

49.99 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.40 Hz at 13:03 Hrs.

Minimum Frequency : 49.51 Hz at 11:46 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.33 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.68 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	10.75	64.68	24.57

VOLTAGE ANALYSIS

MAXIMUM & MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 KV S/S IN THE MONTH OF FEB'2023

(All figs. in kV)

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	422	397	410	400	420	397	422	399

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	392	405	388	413	402	416	394

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

Feb-23

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(28-02-23)	(28-02-22)		
Hirakud	192	180	188.87	190.23	189.92	01.02.23
Balimela	462	439	447.57	451.01	449.24	01.02.23
Rengali	123	109	118.67	121.28	120.04	01.02.23
Upperkolab	858	844	852.91	850.03	854.35	01.02.23
Indravati	642	625	635.83	631.48	637.03	01.02.23
Subernrekha	590	580	586.13	585.83	586.59	01.02.23

B.

CPP/IPP IMPORT by Eastern Region Constituents during

Feb-23

(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	33.58
West Bengal	65.08	24.34	0	0	0	0	0	138.85	228.27
ODISHA	0	0	17.56	309.89	2.23	11.72	0	572.61	914.01
DVC	0	0	0	0	0	0	4.20	0	4.20
TOTAL	65.08	24.34	17.56	309.89	2.23	11.72	4.20	711.46	1180.06

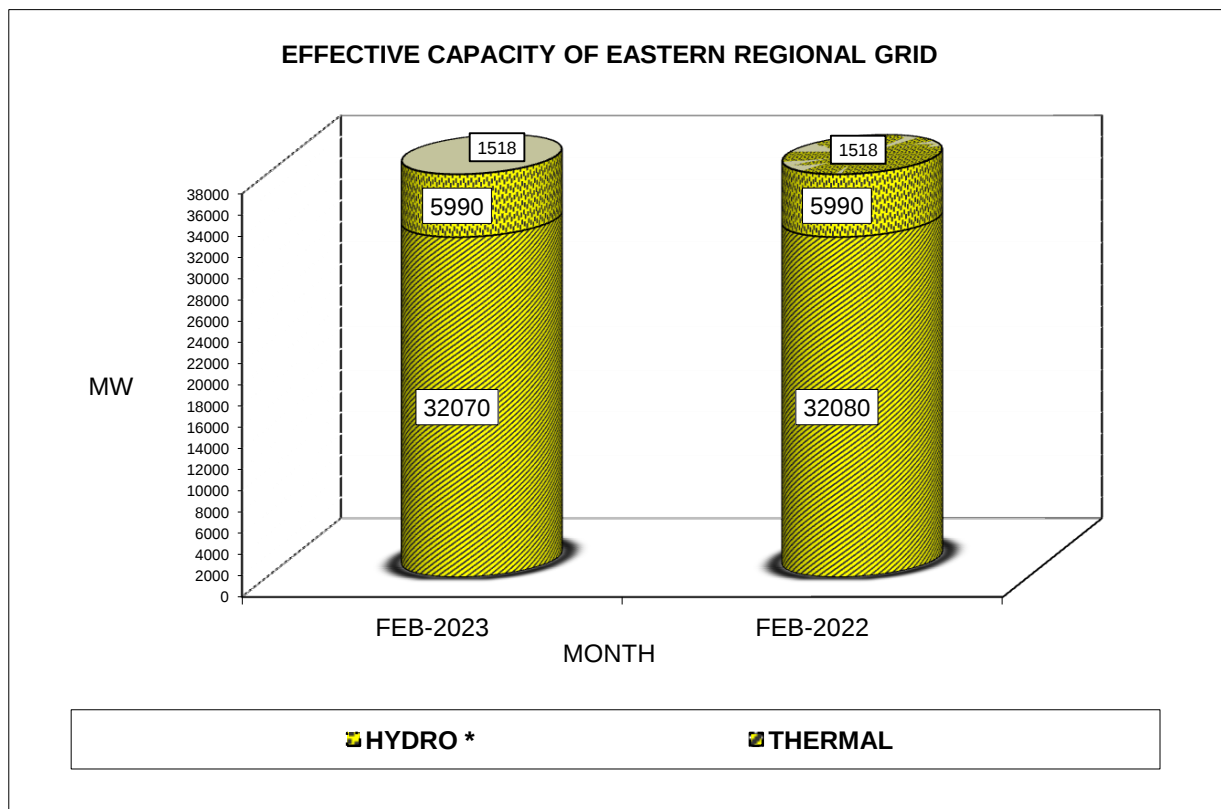
C.

Distribution of Schedule Supply among Key Customers by IPPs during

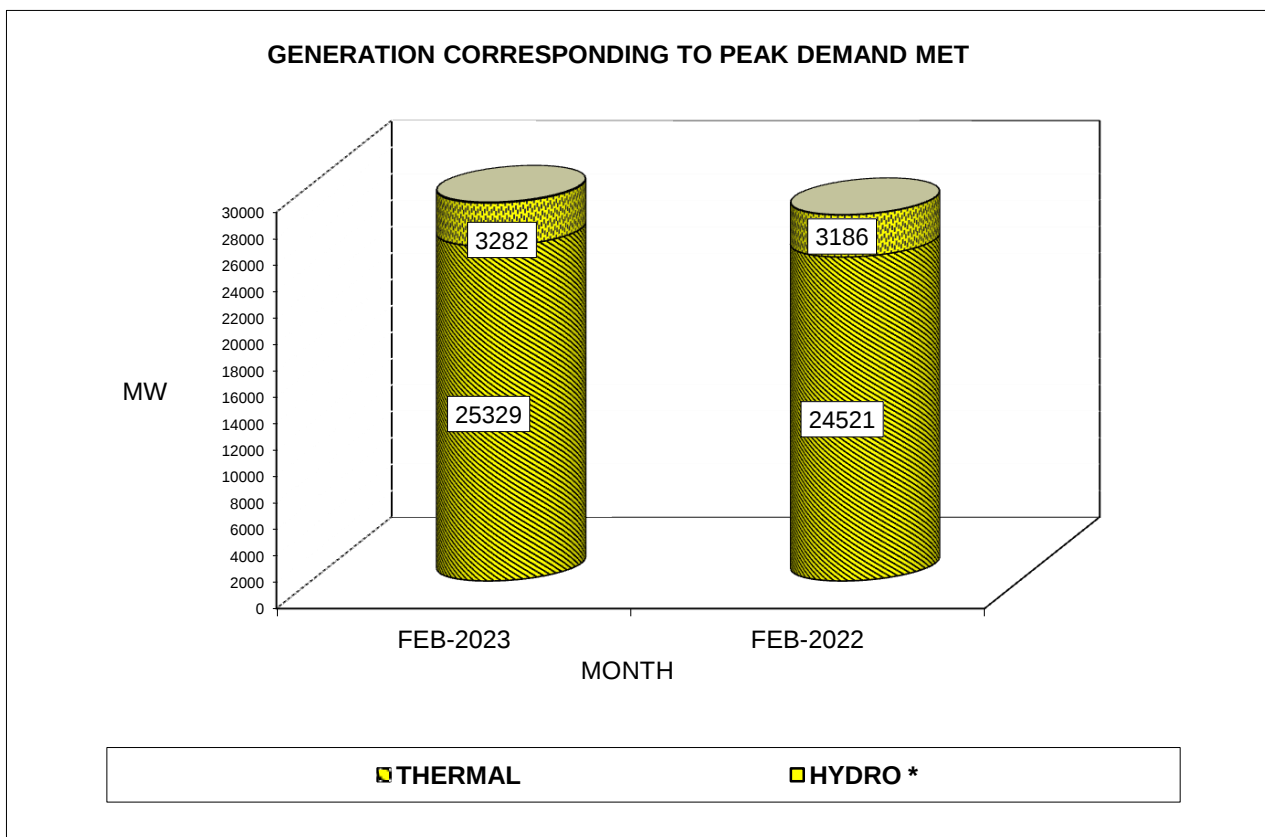
Feb-23

(All figs. are in MU)

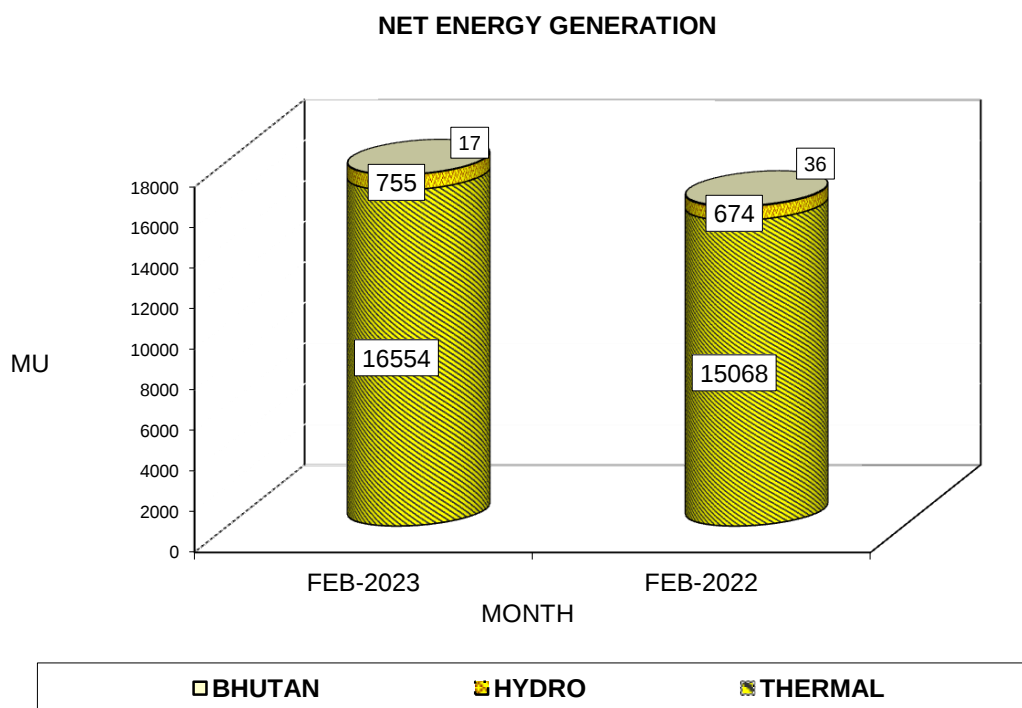
IPP	TPDDL	WBSEDCL/ WBPDCCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	92.83	93.95	47.10	0.00	0	0	79.49	313.37
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	49.79	0	17.14	0.00	123.29	93.19	283.41
Total	92.83	143.74	47.10	17.14	0.00	123.29	172.68	596.78



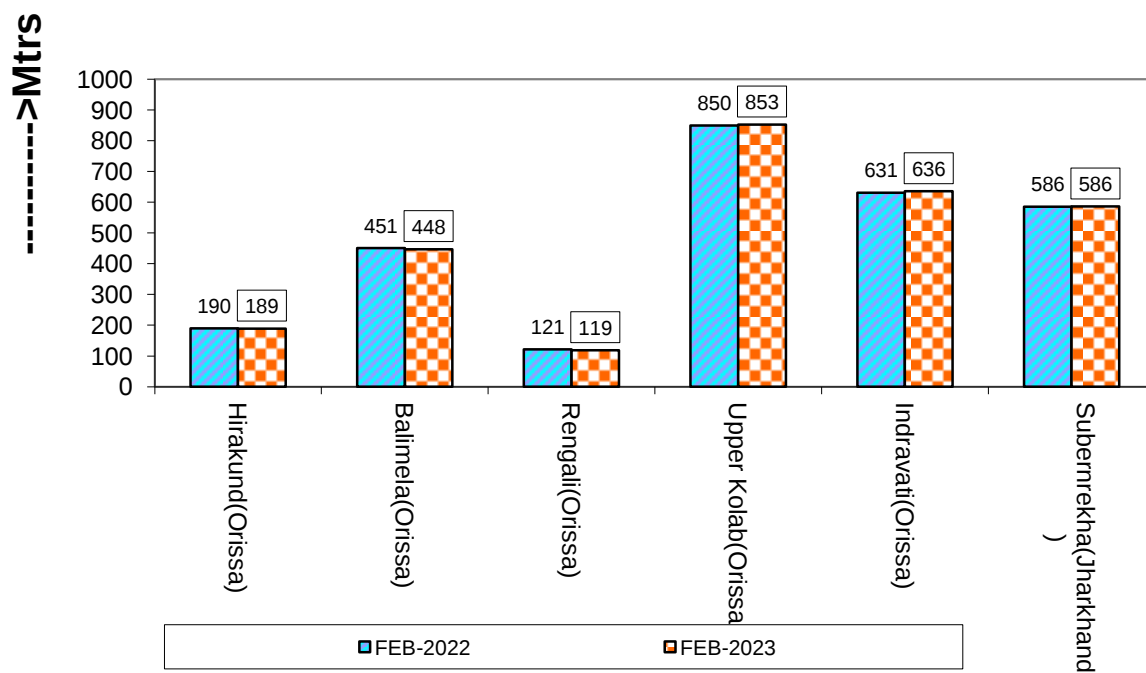
*Excludes contribution from HEPs of Bhutan

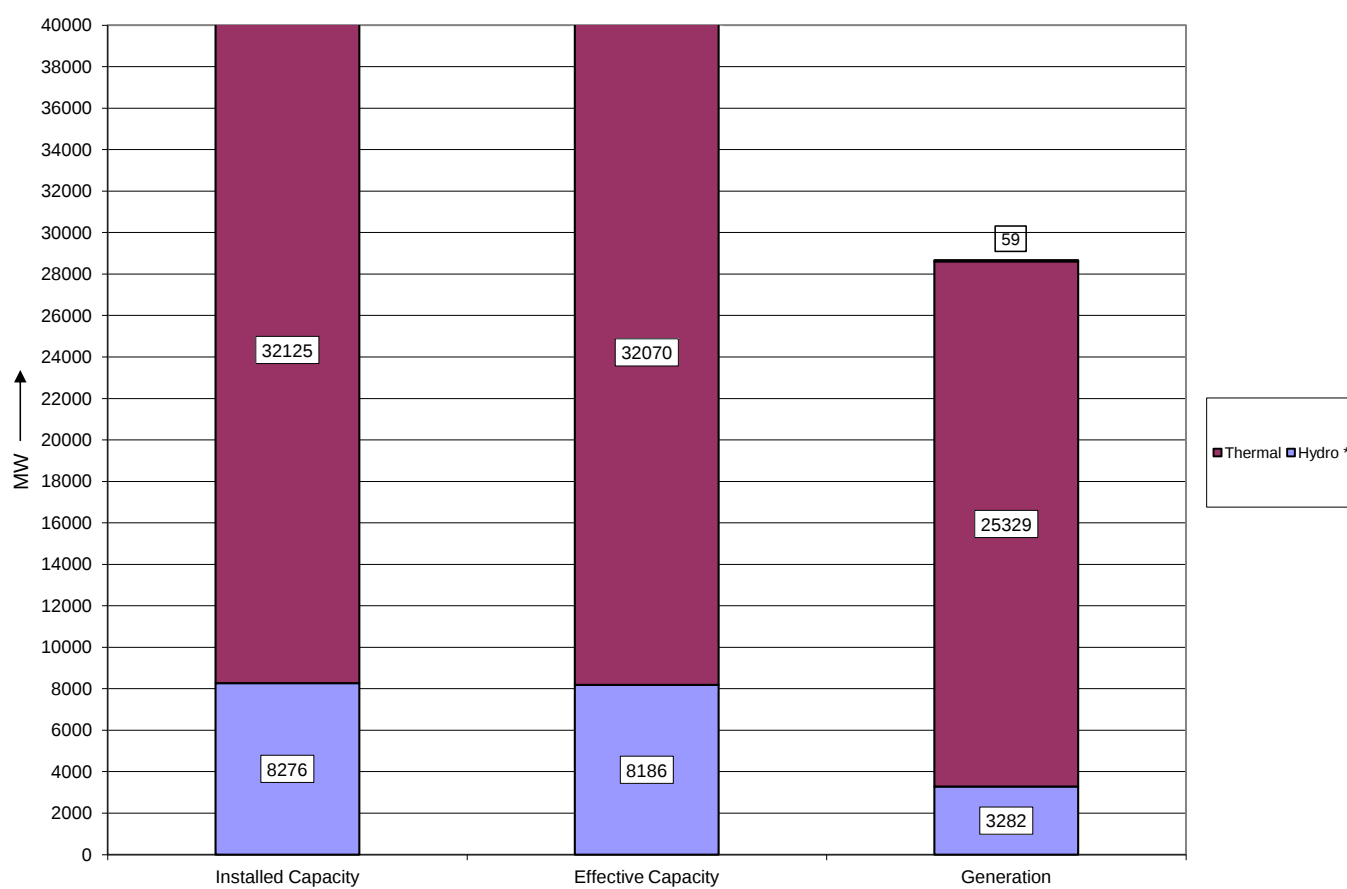


*Includes contribution from HEP of Bhutan



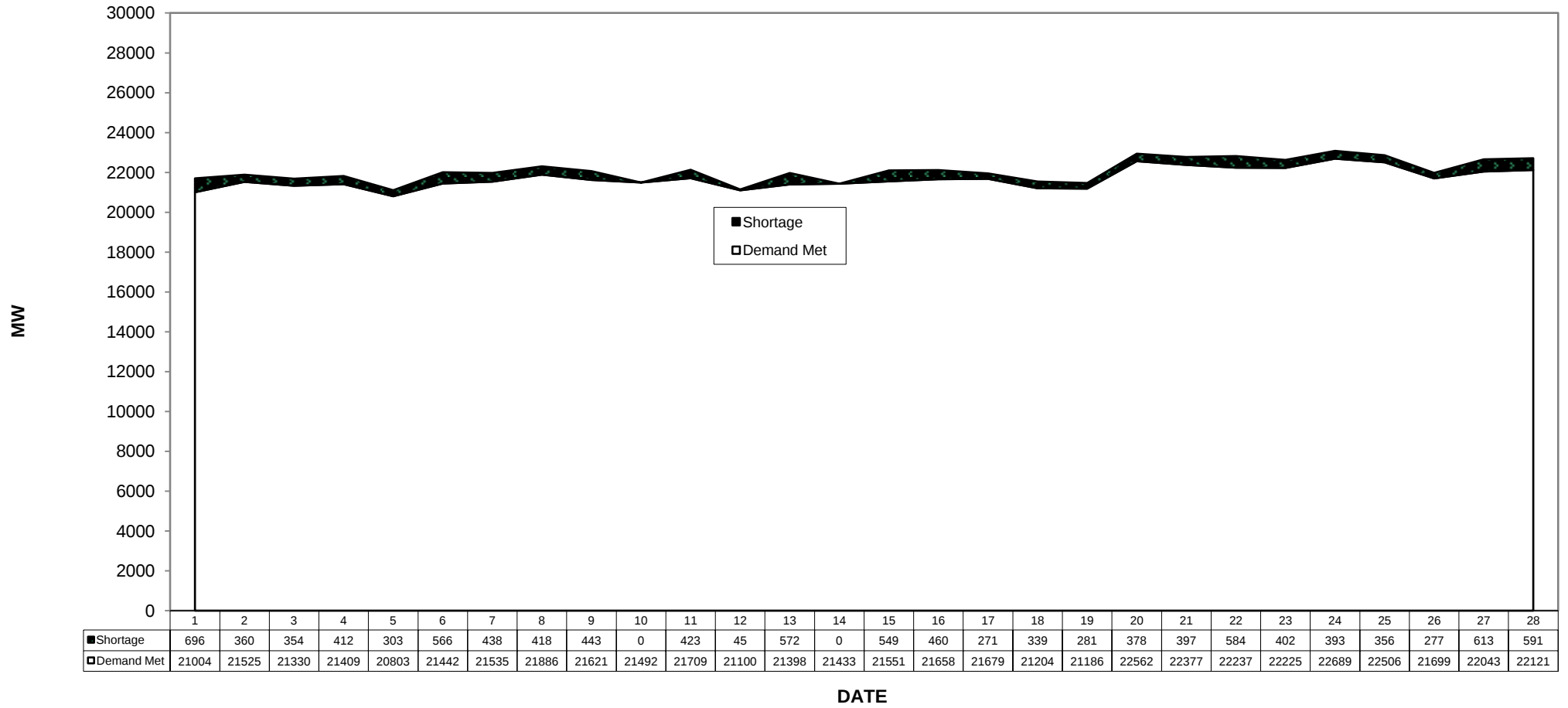
RESERVOIR LEVEL OF HPS OF ER (RECORDED ON LAST DAY OF MONTH)



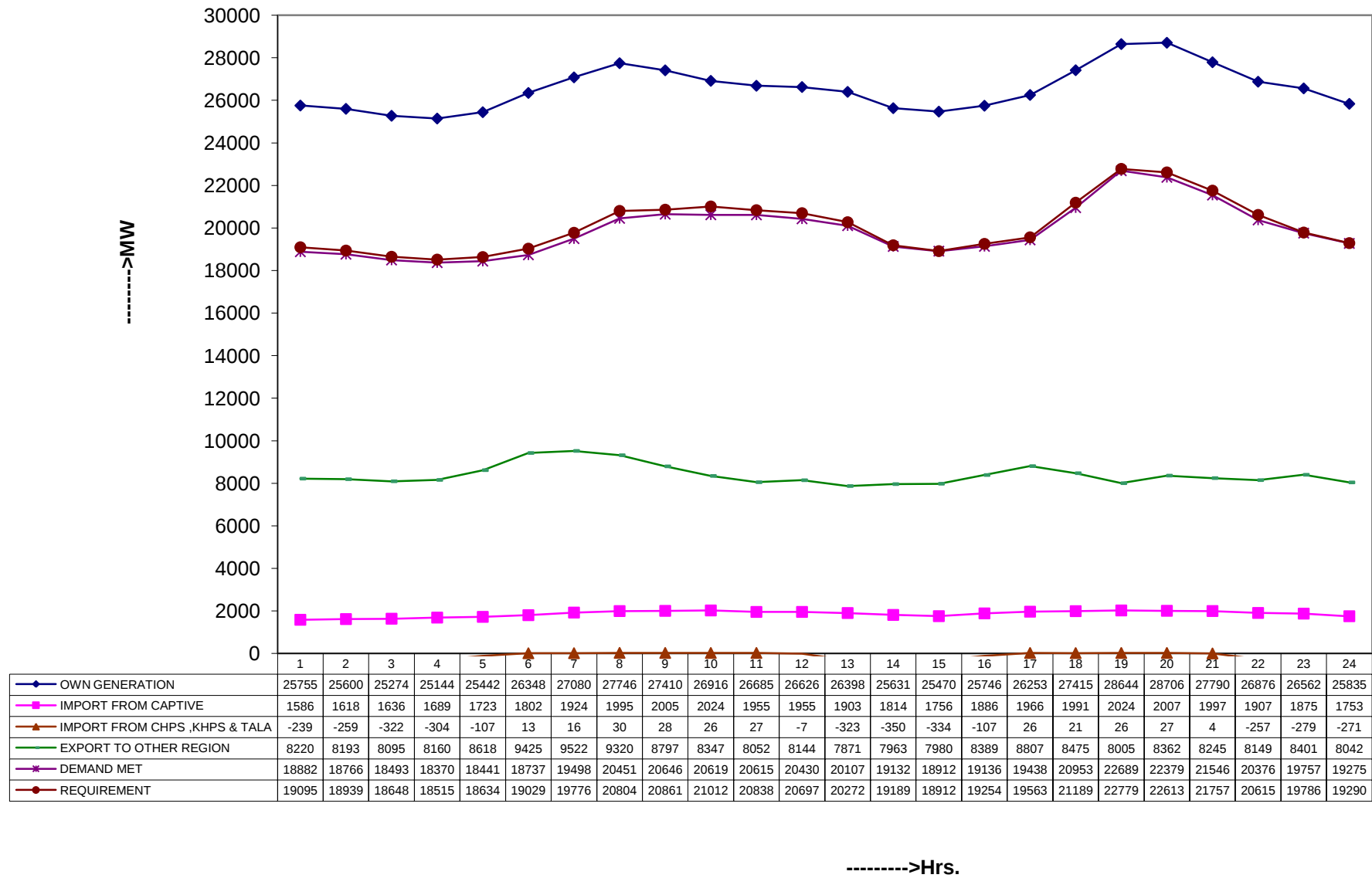
Capacity / Actual Generation Pattern of ER on Peak Day (24-2-2023) at 19.00 hrs.

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

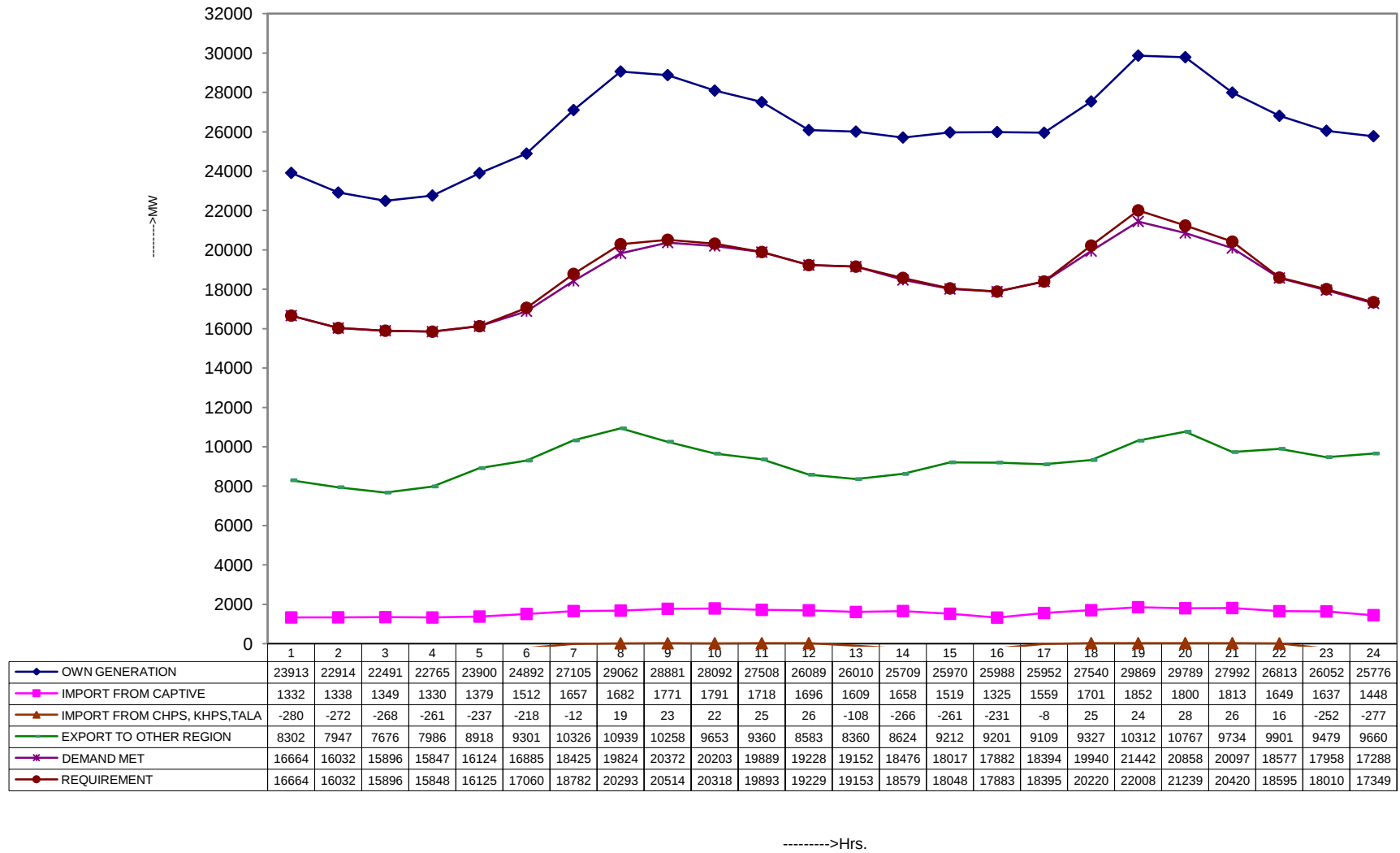
Peak Demand Met / Shortage of Eastern Region For The Month Of FEB'2023



Hourly Load Generation Data OF ER on Regional Peak Day During The Month of FEB'2023 (24-2-2023)

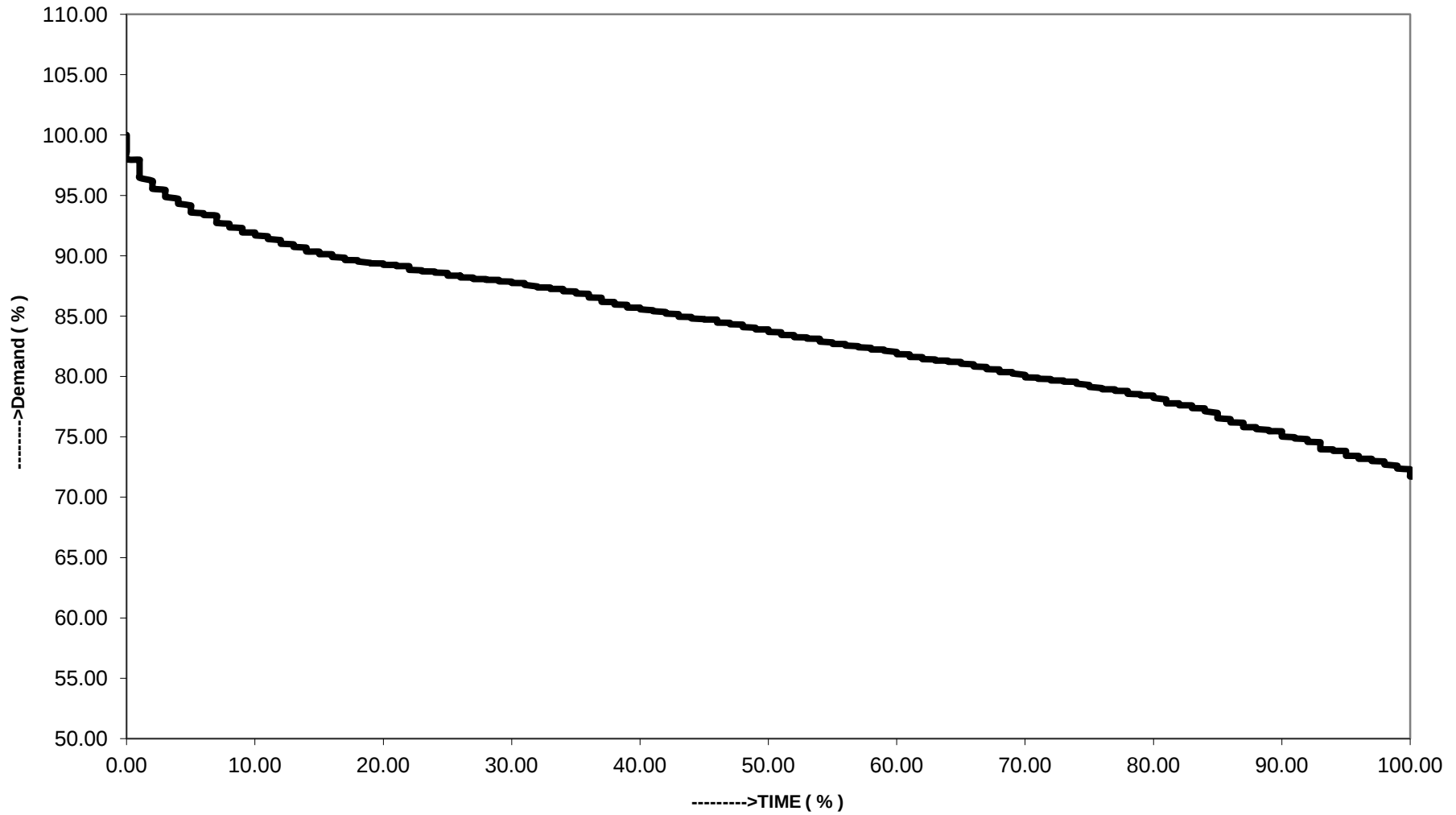


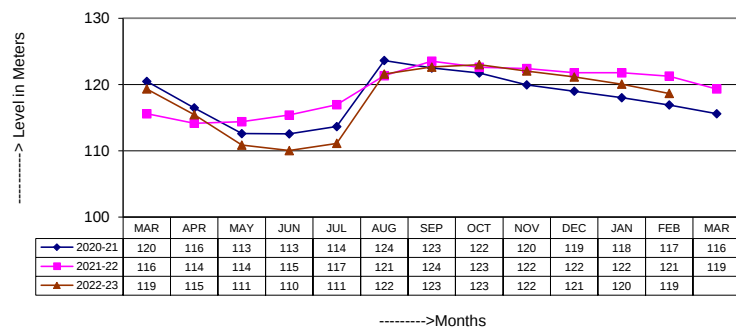
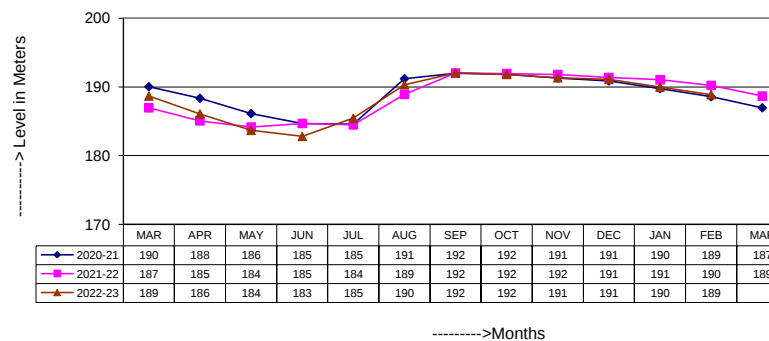
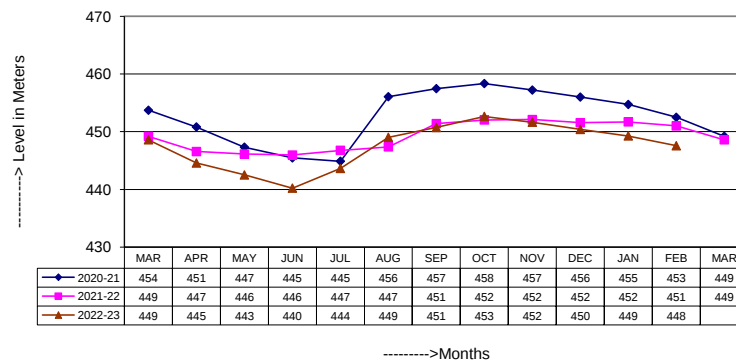
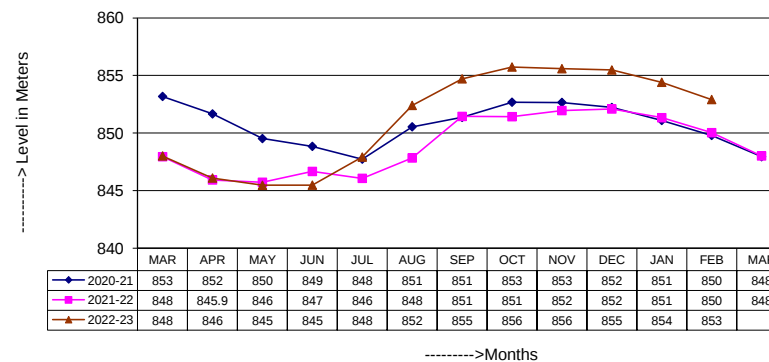
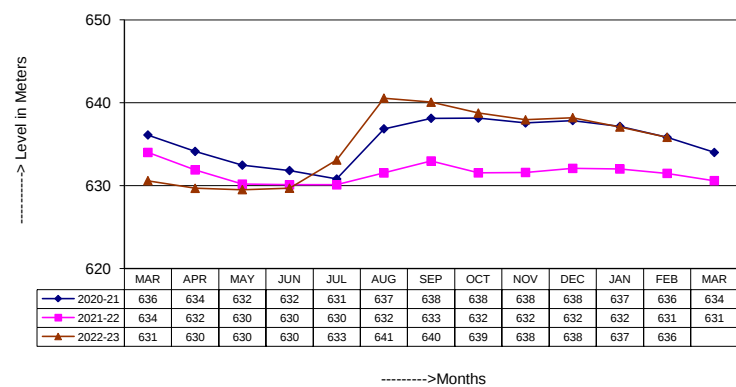
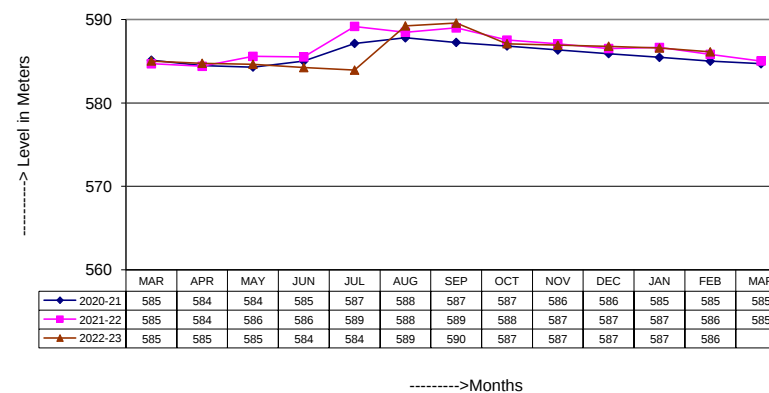
Hourly Load Generation Data of ER On Regional Lean Day During The Month of FEB'2023 (6-2-2023)



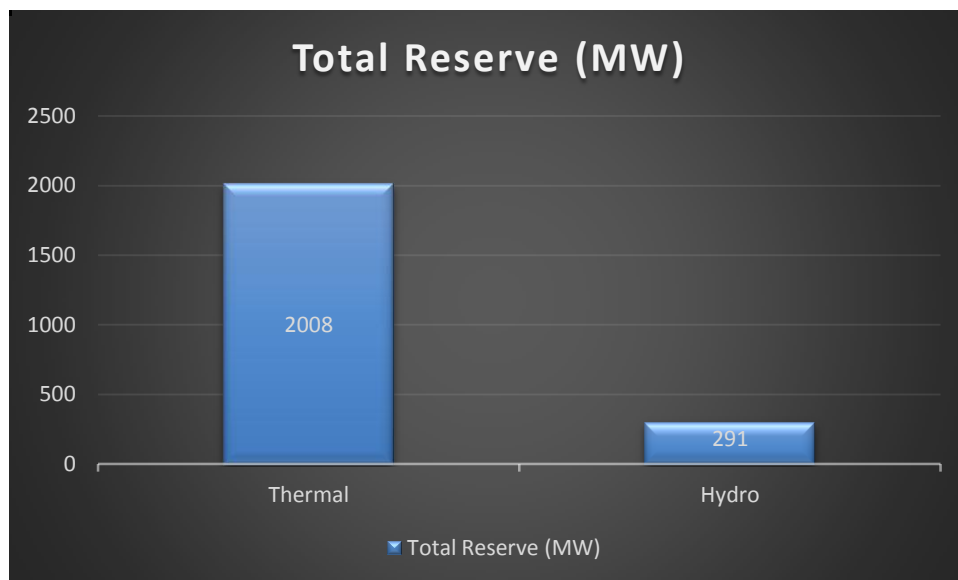
Monthly Load Duration Curve of Eastern Region for FEB-2023

Maximum Demand met : 22689 MW
Minimum Demand met: 15847 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**

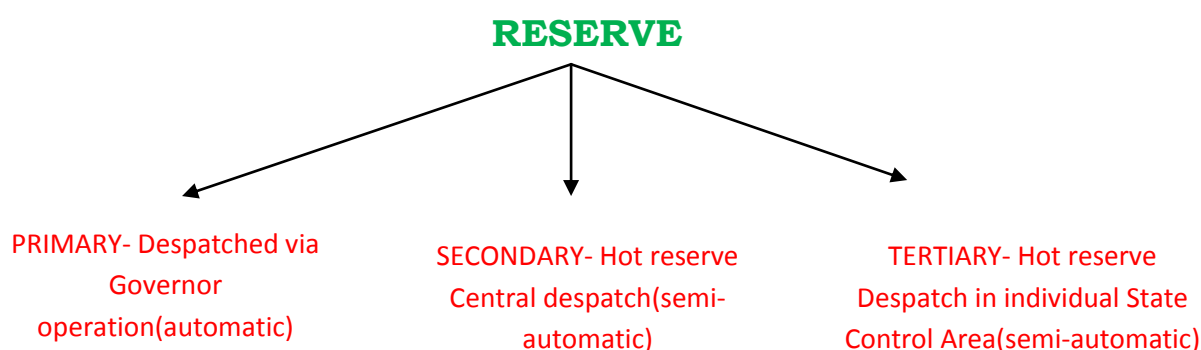
REPORT ON GENERATION RESERVES IN EASTERN REGION FOR FEB'23



GENESIS

In an ever changing power scenario of the country having generation reserves is like a “BRAHMASTRA” in the hand of the Grid operators. During system exigency like loss of generation, high drawal, grid disturbances, tripping of important corridors this reserve can be dispatched by the system operator and provides immediate relief to the stressed out grid.

Hon’ble CERC in its report on Spinning Reserve dated. Sep’2015 and subsequent order dated. 13.10.2015 laid out the broad guidelines for quantum of different types of reserves in the Indian power system.



Hon’ble CERC outlined the following requirement:

Primary: 4000MW on all India basis

Secondary: Minimum 660MW(for Eastern Region) corresponding to largest unit size in the region

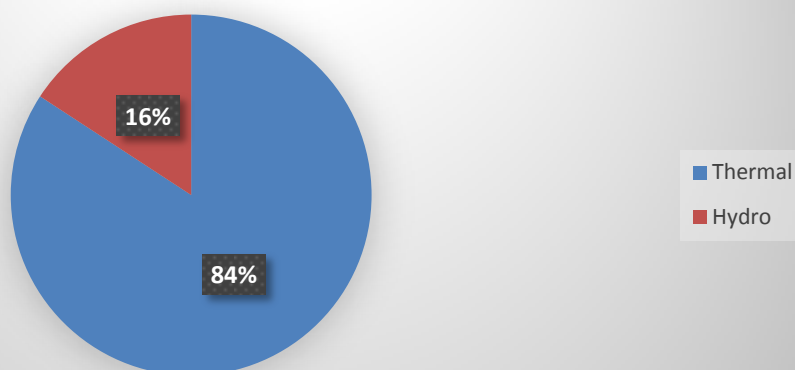
Tertiary: Quantum to be maintained in de-centralized fashion by each state control area for at least 50% of the largest generating unit available in the state control area.

On 31.12.2022 the following are the reserves available in the Eastern Region including only on-bar units which have FGMO/RGMO:

PRIMARY

Category	Installed Capacity(MW)	Reserve quantum(MW)	Reserve quantum as percentage of IC(%)
Thermal	28310	1416	5
Hydro	5215	266	5.09
Total	33525	1681	5.01

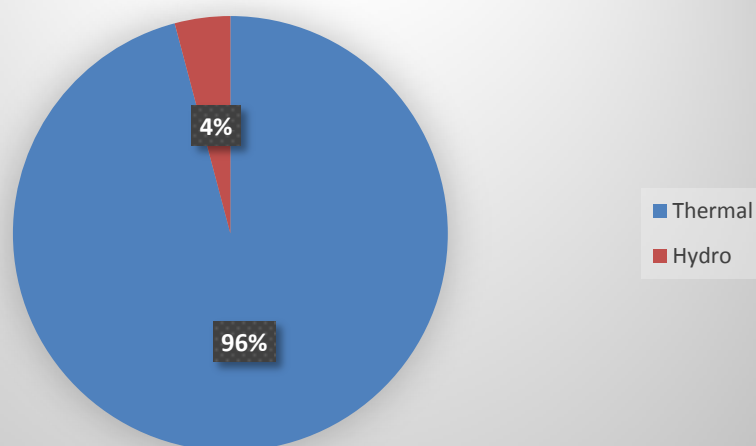
Primary Reserve (MW)



SECONDARY

Category	Installed Capacity(MW)	Secondary Reserve quantum(MW)	Reserve quantum as percentage of IC(%)
Thermal	11400	592.5	5.20
Hydro	576	25.5	4.43
Total	11976	618	5.16

Secondary Reserve quantum(MW)

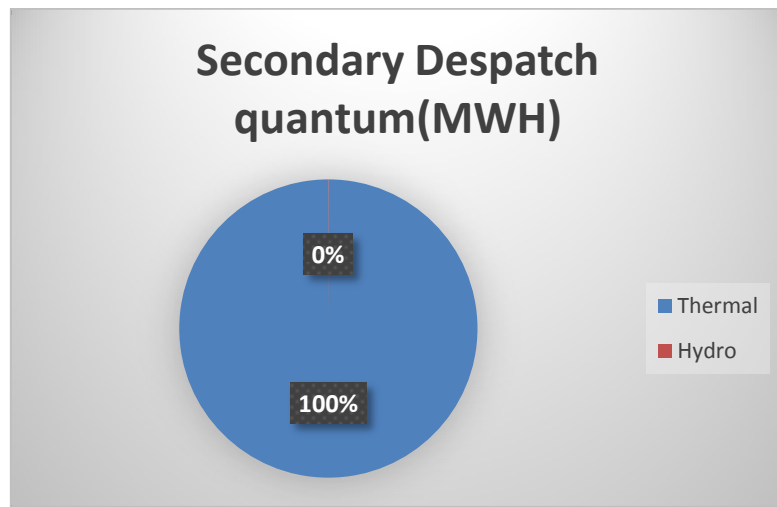


Actual Despatch of Secondary Reserve

Name of Reserve Provider	Installed Capacity (MW)	Net RRAS (MWH)	Net SCED (MWH)	Net SRAS (MWH)	Total Despatch under Ancillary Service(MWH)	Reserve Despatch as % of Installed Capacity
BARH	1320	2398.7	20721.8	15381.7	38502.2	3.92
BARH-I	660	131.8	5840.4	1530.0	7502.23	1.53
BRBCL	1000	528.0	2371.0	0.0	2898.99	0.39
Darlipali_NTPC	1600	5.1	42.0	0.0	47.165	0.00
FSTPP I & II	1600	2515.2	22052.6	15269.3	39837.1	3.35
FSTPP-III	500	747.0	6850.2	7084.1	14681.3	3.95
KHSTPP-I	840	1488.8	8474.6	0.0	9963.38	1.59
KHSTPP-II	1500	1996.9	24438.9	21298.1	47733.9	4.28
MPL	1050	284.4	2412.8	15853.6	18550.8	2.37
MTPS-II	390	195.8	1921.0	5251.1	7367.94	2.54
NPGC	660	1427.0	16074.3	26728.9	44230.2	9.01
TSTPP-I	1000	28.9	117.3	4875.5	5021.7	0.67
Teesta-V	510	0.0	0.0	460.7	460.706	0.12

Category wise Despatch of Secondary Reserve

Category	Installed Capacity(MW)	Secondary Despatch quantum(MWH)	Reserve quantum as percentage of IC(%)
Thermal	11400	236336.8368	2.79
Hydro	510	460.7061	0.12
Total	11910	236797.5429	2.67



Tertiary Reserve under implementation in Eastern Region.