



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

75  
Azadi Ka  
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**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 : अप्रैल, 2022 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 April, 2022 on ERPC website.

महोदय / Sir ,

पूर्वी क्षेत्रीय विद्युत समिति की अप्रैल, 2022 माह की मासिक प्रगति रिपोर्ट ईआरपीसी की वेबसाइट [www.erpc.gov.in](http://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 April, 2022 has been uploaded on ERPC website [www.erpc.gov.in](http://www.erpc.gov.in). This is for your information please.

संलग्नक : यथोपरी।

Encl. – As above.

भवदीय / Yours faithfully

(Swapan Roy)

अधीक्षक अभियंता

Superintending Engineer

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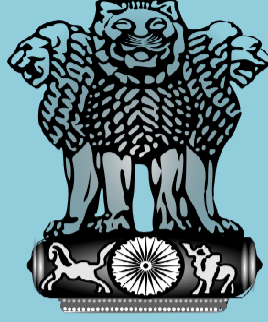
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सत्यमेव जयते

Government of India

विद्युतमंत्रालय

Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

**EASTERN REGIONAL POWER COMMITTEE**

मासिक प्रगति रिपोर्ट

PROGRESS REPORT FOR THE MONTH OF

अप्रैल - 2022

April-2022



14, गोल्फ क्लब रोड, टोलीगंज

14, Golf Club Road, Tollygunge

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## Highlights of Eastern Regional Power System for April- 2022

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Apr, 2022** was **25690 MW** which is 5.27% more than the **Apr, 2021** (24405 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 **Apr, 2022** was **542.68 MU** (excluding export), which is 9.44% more than the corresponding period of last year (495.89 MU).
- **The Average regional PLF of thermal units during the month is 79.76 %**, which is 1.13% more than the corresponding period of the last year (**78.63%**).  
Chandrapura (U7#8) (DVC) registered the highest PLF of 99.07%, followed by Haldia (HEL) 97.71% and Budge-Budge (CESC) 97.70% during the month of **Apr, 2022**.
- **Maximum Net generation** was **29548 MW** against total **Effective Capacity of 41303.41 MW** (including import from Bhutan). At the time of Regional peak (**25690 MW** on 16.04.2022 at 23.00 hrs.), the generation was **28871 MW**, import from CPP was 1579 MW and Net export was 4760 MW.
- The system frequency in the IEGC recommended band (49.9 Hz to 50.05 Hz) remained for 59.24% of time during the month. **Average frequency** for the month was **49.92 Hz**. The instantaneous maximum and minimum frequency were 50.26 Hz and 49.43 Hz, respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.17 Hz** and **49.51 Hz** respectively (**refer Annexure-I**).
- **At 400 kV voltage level**, the **maximum Voltage** recorded was 421 KV at Jeerat 400 KV S/s whereas the minimum voltage recorded 384 KV at Jeerat 400 KV S/s of Power grid.
- The **Maximum Export from ER to outside region** was **9753 MW** (including Nepal and Bangladesh) on **4th Apr, 2022** at 07:00 hrs. **Total net energy export during the month** was **3767.55 MU** (Inc.Transmission loss) which corresponds to **19.91 %** of Ex-bus total generation 18919.05 MU of Eastern Region.
- The import from CPPs was 1128.96 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	4962	584	1725.43
WR	2108	2000	-228.59
SR	4230	0	1843.76
NER	715	1686	-375.34
BANGLADESH			674.87
NEPAL (via-CTU)			127.42
Chukha, Kurichu, Tala			0
<b>Total</b>			<b>3767.55</b>
NEPAL by Bihar(NBPDCL)			87.91

**SALIENT FEATURES**

( YEAR TO YEAR COMPARISON )

		Apr-22	APR-2021	CHANGE	% CHANGE
1) Effective Capacity (end of the Month)					
THERMAL	(MW)	31600	29670	1930	6.50
HYDRO	(MW)	5990	\$ 5877	113	2
DIESEL	(MW)	0	0	0	0
RES	(MW)	1518	1489	0	0
TOTAL	(MW)	39107	37035	2072	5.60
2) Peak Demand ( MW )		25735	24405	1330	5.45
3) Peak Demand Met ( MW )		25690	24405	1285	5.27
4) Shortage ( MW )		45	0	45	0.00
5) % Shortage		0.17	0.00	0.17	0.00
6) Average Energy Requirement Per Day ( MU )		555.15	497.87	57.28	11.50
7) Average Energy Availability Per Day ( MU )		542.68	495.89	46.79	9.44
8) Average Shortage Per Day ( MU )		12.46	1.98	10.48	--
9) % Shortage		2.25	0.40	1.85	--
10) Net Generation for the Month					
Thermal ( MU )		16849.11	15567.74	1281.37	8.23
Hydro ( MU )		1970.68	* 1177.49	793.19	67.36
RES (MU)		99.26	98.94	0.00	-
Total ( MU )		18919.05	16844.16	2074.89	12.32
11) Generation at the Time of Max. Regional Demand Met ( 16-04-22 at 23.00 Hrs. )					
Thermal ( MW )		24425	22799	1626	7.13
Hydro ( MW )		4428	* 3774	654	17.32
RES( MW )		19	19	1	4.35
Total ( MW )		28871	26591	2280	8.58
12) Inter-Regional Energy Transfer					
Export ( MU )		4371.48	4287.99	83.49	1.95
Import ( MU )		603.94	1283.33	-679.39	-52.94
Net Exp.(+)/Net Imp.(-) ( MU )		3767.55	3004.66	762.89	25.39
13) Import From Captive(MU)		1128.96	1037.29	91.67	8.84
14) Peak Inter Regional Power Transfer					
Max Export ( MW ) on 04-04-22 at 07.00Hrs		9753	8286	1467	17.71
Max Import ( MW ) on 18-04-22 at 15.00Hrs		2334	4074	-1740	-42.71
Max Net Export(+)/Import (-) ( MW )		9297	7876	1421	18.04
15) Maximum voltage recorded		421	JEERAT	400 kv s/s	
16) Minimum voltage recorded		384	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 APR'2022

**A ) Net Average Energy Per Day**

<b>System</b>	<b>Requirement Met (MU/Day)</b>	<b>Requirement (MU/Day)</b>	<b>Shortage (MU/Day)</b>	<b>% Shortage</b>
<b>BSPHCL</b>	118.04	122.85	4.81	3.92
<b>JUVNL</b>	34.21	39.57	5.36	13.54
<b>DVC</b>	76.00	76.21	0.21	0.28
<b>ODISHA</b>	117.54	118.84	1.29	1.09
<b>WBSEDCL</b>	158.16	159.03	0.88	0.55
<b>CESC</b>	36.90	37.00	0.10	0.28
<b>SIKKIM</b>	1.63	1.64	0.00	0.28
<b>REGION</b>	<b>542.68</b>	<b>555.15</b>	<b>12.46</b>	<b>2.25</b>

**B) Peak Demand in MW:**

<b>System</b>	<b>Demand Met (MW)</b>	<b>Demand (MW)</b>	<b>Shortage (MW)</b>	<b>% Shortage</b>
<b>BSPHCL</b>	6091	6802	711	10.46
<b>JUVNL</b>	1807	2118	311	14.71
<b>DVC</b>	3396	3402	7	0.20
<b>ODISHA</b>	5674	5703	29	0.50
<b>WBSEDCL</b>	7823	7878	55	0.70
<b>CESC</b>	2327	2356	29	1.2
<b>SIKKIM</b>	115	116	1	0.86
<b>REGION</b>	<b>25690</b>	<b>25735</b>	<b>45</b>	<b>0.17</b>

➤ **DIVERSITY FACTOR :** **1.06**

➤ **Regional Peak Demand Met on 16-4-2022 at 23.00 hrs. at 49.95 Hz.**

**CONSTITUENT-WISE PERFORMANCE DATA APRIL-2022**

SYSTEM	Gross Generation(MU)				Auxiliary power Consumption(MU)				Net Generation (MU)				Import from Captive (MU)	Exchange Net Import(+) Net Export(-)	Energy Consumption(MU)	Per Day Cons.(MU)	Net Peak Demand Met (MW)	Gross Peak Demand Met (MW)									
	HYDRO	Thermal	RES (Hy+Solar)	Total	HYDRO	Thermal	Solar	Total	HYDRO	Thermal	Solar	Total															
BSPHCL	0.00	230.76	19.05	249.82	0.00	23.28	0.00	23.28	0.00	207.48	19.05	226.53	0.00	3314.73	3541.26	118.0	6091	6143									
JUVNL	0.00	225.75	0.00	225.75	0.00	20.34	0.00	20.34	0.00	205.41	0.00	205.41	42.22	778.78	1026.41	34.2	1807	1836									
DVC	22.45	3928.96	0.00	3951.41	0.16	286.06	0.00	286.22	22.29	3642.91	0.00	3665.20	7.38	-1392.55	2280.03	76.0	3396	3816									
ODISHA(OPGC+OHPC+TTPS)	452.95	692.33	65.53	1210.80	2.90	56.54	0.00	59.44	450.04	635.79	65.53	1151.36	783.12	1591.84	3526.33	117.54	5674	5753									
WBPDCL+WBSEDCL+DPL	135.81	2637.19	12.50	2785.51	0.00	234.42	0.00	234.42	135.81	2402.77	12.50	2551.09	296.26	1897.31	4744.66	158.2	7823	8204									
CESC	0.00	618.31	0.00	618.31	0.00	47.72	0.00	47.72	0.00	570.59	0.00	570.59	0.00	536.40	1107.00	36.9	2327	2395									
HEL	0.00	422.12	0.00	422.12	0.00	32.47	0.00	32.47	0.00	389.65	0.00	389.65	0.00	-389.65													
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	48.05	49.05	1.6	115	115									
NTPC	0.00	7352.52	1.18	7353.70	0.00	479.89	0.00	479.89	0.00	6872.63	1.18	6873.81	0.00	-6873.81													
MPL	0.00	649.02	0.00	649.02	0.00	36.76	0.00	36.76	0.00	612.26	0.00	612.26	0.00	-612.26													
APNRL	0.00	300.69	0.00	300.69	0.00	26.05	0.00	26.05	0.00	274.64	0.00	274.64	0.00	-274.64													
GMR	0.00	382.26	0.00	382.26	0.00	25.85	0.00	25.85	0.00	356.41	0.00	356.41	0.00	-356.41													
JITPL	0.00	726.01	0.00	726.01	0.00	47.44	0.00	47.44	0.00	678.57	0.00	678.57	0.00	-678.57													
NHPC (Inc TLDP= 53.02MU)	387.97	0.00	0.00	387.97	0.00	0.00	0.00	0.00	387.97	0.00	0.00	387.97	0.00	-387.97	0.00												
CHUZACHEN HPS	40.21	0.00	0.00	40.21	0.00	0.00	0.00	0.00	40.21	0.00	0.00	40.21	0.00	-40.21	0.00												
DIKCHU HPS	57.68	0.00	0.00	57.68	0.00	0.00	0.00	0.00	57.68	0.00	0.00	57.68	0.00	-57.68	0.00												
JORHANG HPS	19.44	0.00	0.00	19.44	0.00	0.00	0.00	0.00	19.44	0.00	0.00	19.44	0.00	-19.44	0.00												
TASHIDING HPS	17.47	0.00	0.00	17.47	0.00	0.00	0.00	0.00	17.47	0.00	0.00	17.47	0.00	-17.47	0.00												
TEESTA-III HPS	412.28	0.00	0.00	412.28	0.00	0.00	0.00	0.00	412.28	0.00	0.00	412.28	0.00	-412.28	0.00												
RONGNICHU HEP	27.64	0.00	0.00	27.64	0.00	0.00	0.00	0.00	27.64	0.00	0.00	27.64	0.00	-27.64	0.00												
CHPC(Birpara Receipt)	146.82	0.00	0.00	146.82	0.00	0.00	0.00	0.00	146.82	0.00	0.00	146.82	0.00	-146.82	0.00												
KHPS	9.91	0.00	0.00	9.91	0.00	0.00	0.00	0.00	9.91	0.00	0.00	9.91	0.00	-9.91	0.00												
THPS	71.19	0.00	0.00	71.19	0.00	0.00	0.00	0.00	71.19	0.00	0.00	71.19	0.00	-71.19	0.00												
DAGACHU HPS	15.79	0.00	0.00	15.79	0.00	0.00	0.00	0.00	15.79	0.00	0.00	15.79	0.00	-15.79	0.00												
Mangdechhu HEP	156.13	0.00	0.00	156.13	0.00	0.00	0.00	0.00	156.13	0.00	0.00	156.13	0.00	-156.13	0.00												
Total Drawal by HVDC Sahsaram,Alipurduar & Kuruchhu HEP																											
Total	1973.74	18165.93	99.26	20238.93	3.06	1316.82	0.00	1319.88	1970.68	16849.11	99.26	18919.05	1128.99	5.74	16280.48	542.68	25690	27347									

3A 18919.05

16280.48



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	<b>542.68</b>	<b>555.15</b>	<b>12.46</b>	<b>2.25</b>	<b>49.93</b>
MAY	429.83	430.89	1.06	0.25	49.99	-	-	-	-	-
JUNE	462.07	462.84	0.77	0.17	49.99	-	-	-	-	-
JULY	498.44	500.02	1.57	0.31	50.00	-	-	-	-	-
AUGUST	501.37	505.13	3.76	0.74	49.99	-	-	-	-	-
SEPTEMBER	485.60	489.40	3.80	0.78	50.00	-	-	-	-	-
OCTOBER	453.17	458.67	5.51	1.20	49.98	-	-	-	-	-
NOVEMBER	388.80	390.35	1.55	0.40	49.99	-	-	-	-	-
DECEMBER	384.67	388.30	3.63	0.94	49.99	-	-	-	-	-
JANUARY	409.39	412.33	2.94	0.71	49.99	-	-	-	-	-
FEBRUARY	409.74	412.62	2.87	0.70	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	<b>25690</b>	<b>25735</b>	<b>45</b>	<b>0.17</b>	<b>49.93</b>
MAY	24191	24191	0	0.00	49.99	-	-	-	-	-
JUNE	23494	23521	28	0.12	49.99	-	-	-	-	-
JULY	25145	26019	874	3.36	50.00	-	-	-	-	-
AUGUST	24157	24236	79	0.33	49.99	-	-	-	-	-
SEPTEMBER	25010	25454	445	1.75	50.00	-	-	-	-	-
OCTOBER	23675	23979	304	1.27	49.98	-	-	-	-	-
NOVEMBER	20961	20998	37	0.18	49.99	-	-	-	-	-
DECEMBER	20631	20992	362	1.72	49.99	-	-	-	-	-
JANUARY	21204	21396	191	0.89	49.99	-	-	-	-	-
FEBRUARY	21198	21540	342	1.59	49.99	-	-	-	-	-
MARCH	24582	24762	180	0.73	49.97	-	-	-	-	-

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF APR -2022

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	Barauni (U# 6,7 )	220.00	210.00	20.07	18.56	20.07	18.56
	Thermal	Barauni (U# 8)	250.00	250.00	77.84	70.96	77.84	70.96
		Barauni (U# 9)	250.00	250.00	132.85	117.96	132.85	117.96
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
		Thermal Total	940.00	930.00	230.76	207.48	230.76	207.48
	RES		354.91	354.91	19.05	19.05	19.05	19.05
		Total BIHAR		<b>1294.91</b>	<b>1284.91</b>	<b>249.82</b>	<b>226.53</b>	<b>249.82</b>
<b>JHARKHAND</b>								
TVNL	Thermal	TVNL	420.00	420.00	225.75	205.41	225.75	205.41
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00	0.00	0.00	0.00
	RES		60.41	60.41	0.00	0.00	0.00	0.00
		Total	<b>190.41</b>	<b>190.41</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	-0.81	0.00	-0.81
		Chandrapura( U7 # 8)	500.00	500.00	356.64	323.54	356.64	323.54
		Durgapur(4)	210.00	210.00	79.08	67.91	79.08	67.91
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	853.91	762.94	853.91	762.94
		Mejia( U # 7,8)	1000.00	1000.00	624.83	589.91	624.83	589.91
		Bokaro-A(1)	500.00	500.00	333.37	316.00	333.37	316.00
		Durgapur STPS (U#1,2)	1000.00	1000.00	644.19	610.03	644.19	610.03
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	394.64	366.63	394.64	366.63
	Koderma STPS (U#1,2)	1000.00	1000.00	642.31	606.76	642.31	606.76	
		Total Thermal	6750.00	6750.00	3928.96	3642.91	3928.96	3642.91
	Hydro	Maithon (U#1,2,3)	63.20	63.20	15.28	15.25	15.28	15.25
Panchet (U#1,2)		80.00	80.00	7.17	7.05	7.17	7.05	
Tilaiya (U#1,2)		4.00	4.00	0.00	0.0	0.00	0.0	
Hydro Total		<b>147.20</b>	<b>147.20</b>	<b>22.45</b>	<b>22.29</b>	<b>22.45</b>	<b>22.29</b>	
	Total DVC	<b>6897.20</b>	<b>6897.20</b>	<b>3951.41</b>	<b>3665.20</b>	<b>3951.41</b>	<b>3665.20</b>	
<b>WEST BENGAL</b>								
WBPDCCL	Thermal	Bandel TPS	320.00	275.00	155.24	139.60	155.24	139.60
		Santalidih TPS(U#5&6)	500.00	500.00	327.27	300.23	327.27	300.23
		Kolaghat TPS	840.00	840.00	329.62	289.63	329.62	289.63
		Bakreswar TPP	1050.00	1050.00	683.93	624.22	683.93	624.22
		Sagardighi TPP	1600.00	1600.00	914.27	844.16	914.27	844.16
		DPPS (300+250 *)	<b>550.00</b>	<b>550.00</b>	<b>226.85</b>	<b>204.94</b>	<b>226.85</b>	<b>204.94</b>
		Thermal Total	<b>4860.00</b>	<b>4815.00</b>	<b>2637.19</b>	<b>2402.77</b>	<b>2637.19</b>	<b>2402.77</b>
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	15.52	15.52	15.52	15.52
		Rammam (4x12.73)	51.00	51.00	10.58	10.58	10.58	10.58
		Teesta C.F. (3x3x7.5)	67.50	67.50	8.17	8.17	8.17	8.17
		Purulia PSS (4x225)	900.00	900.00	101.55	101.55	101.55	101.55
		Total Hydro	1053.50	1053.50	135.81	135.81	135.81	135.81
RES		500.76	500.76	12.50	12.50	12.50	12.50	

PERFORMANCE OF GENERATING STATIONS IN THE EASTERN REGION DURING THE MONTH OF APR -2022

ORGANISATION	TYPE	POWER STATION	INSTALLED	EFFECTIVE	Gross	Net	Cummulative Gross	Cummulative Net		
			CAPACITY	CAPACITY	Energy	Energy	Energy Generation	Energy Generation		
			( in MW )	( in MW )	in MU	in MU	upto Current Month	upto Current Month		
							( 2022-23) in MU	( 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	90.72	82.66	90.72	82.66		
		Budge-Budge (3x250)	750.00	750.00	527.59	487.93	527.59	487.93		
		Total CESC	1125.00	1125.00	618.31	570.59	618.31	570.59		
HEL	Thermal	HEL	600.00	600.00	422.12	389.65	422.12	389.65		
		Total West Bengal	8139.26	8094.26	3825.93	3511.33	3825.93	3511.33		
OPGC	Thermal	IB TPS	420.00	420.00	260.62	231.08	260.62	231.08		
		IB TPS U#3(660 MW)	660.00	660.00	431.70	404.71	431.70	404.71		
		IB TPS U#4(660 MW)	660.00	660.00	0.00	0.00	0.00	0.00		
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	54.11	53.90	54.11	53.90		
		Hirakud-II (Chiplima)	72.00	72.00	31.60	31.50	31.60	31.50		
		Balimela (6x60+2x75)	510.00	510.00	150.68	149.91	150.68	149.91		
		Rengali (5x50)	250.00	250.00	89.02	88.91	89.02	88.91		
		Upper Kolab (4x80)	320.00	320.00	56.79	56.61	56.79	56.61		
		Indravati HPS (4x150)	600.00	600.00	51.69	50.15	51.69	50.15		
		Mckd.(Odisha drawal)	57.38	57.38	19.07	19.07	19.07	19.07		
		Total Hydro	2084.88	2084.88	452.95	450.04	452.95	450.04		
		RES	539.57	539.57	65.53	65.53	65.53	65.53		
		Total Odisha	4364.45	4364.45	1210.80	1151.36	1210.80	1151.36		
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00	1.00	1.00	1.00		
NTPC		MTPS Stg-II	390.00	390.00	267.28	241.97	267.28	241.97		
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	763.75	704.11	763.75	704.11		
		FSTPP (U# 6)	500.00	500.00	346.97	325.40	346.97	325.40		
		KhSTPP (4x210+3x500)	2340.00	2340.00	1492.11	1385.13	1492.11	1385.13		
		TSTPP (2x500)	1000.00	1000.00	694.46	644.98	694.46	644.98		
		BARH STPS II (2X660)	1320.00	1320.00	893.32	848.82	893.32	848.82		
		BARH STPS I (1X660)	660.00	660.00	378.06	354.04	378.06	354.04		
		BRBCL # 1,2,3,4(4X250 MW)	1000	1000	636.19	588.19	636.19	588.19		
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00		
		NSTPS U# I&2	1320.00	1320.00	915.49	874.96	915.49	874.96		
		NSTPS infirm			0.00	0.00	0.00	0.00		
		DSTPP #1&2	1600.00	1600.00	964.88	905.04	964.88	905.04		
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00		
		Total NTPC	11730.00	11730.00	7352.52	6872.63	7352.52	6872.63		
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	24.35	24.35	24.35	24.35
Teesta (3x170)	510.00			510.00	266.65	266.65	266.65	266.65		
TLDP( 4x33+4x40) for WBSEDCL	292.00			292.00	96.97	96.97	96.97	96.97		
Total NHPC	862.00			862.00	387.97	387.97	387.97	387.97		
MPL (U#1&2)	1050.00			1050.00	649.02	612.26	649.02	612.26		
APNRL (U#1,2)	540.00			540.00	300.69	274.64	300.69	274.64		
GMR (2x350)	700.00			700.00	382.26	356.41	382.26	356.41		
JITPL (2X600)	1200.00			1200.00	726.01	678.57	726.01	678.57		
CHUZACHEN** (2x55)	110.00			110.00	40.21	40.21	40.21	40.21		
JORETHANG (2x48)	96.00			96.00	19.44	19.44	19.44	19.44		
TEESTA URJA St III (6x200)	1200.00			1200.00	412.28	412.28	412.28	412.28		
Tashilding (2x48.5)	97.00			97.00	17.47	17.47	17.47	17.47		
DICKCHU (2x48)	96.00			96.00	57.68	57.68	57.68	57.68		
RONGNICHU HEP (2x56.5)					27.64	27.64	27.64	27.64		
TALCHER SOLAR	10.00			10.00	1.18	1.18	1.18	1.18		
Total Thermal (E.R)	31655.00			31600.00	18165.93	16849.11	18165.93	16849.11		
Total Hydro (E.R)	5989.58			5989.58	1573.91	1570.84	1573.91	1570.84		
Total RES	1517.83			1517.83	99.26	99.26	99.26	99.26		
EASTERN REGIONAL				<b>TOTAL (E.R)</b>	39162.41	39107.41	19839.09	18519.22	19839.09	18519.22
BHUTAN	Hydro			CHPC(4x90)	360.00	270.00	146.82	146.82	146.82	146.82
		Kurichu (4x15)	60.00	60.00	9.91	9.91	9.91	9.91		
		TALA (6x170)	1020.00	1020.00	71.19	71.19	71.19	71.19		
		DAGACHU (2x63)	126.00	126.00	15.79	15.79	15.79	15.79		
		MANGDECHU(4x180 )	720.00	720.00	156.13	156.13	156.13	156.13		
		<b>Grand Total</b>	41448.41	41303.41	20238.93	18919.05	20238.93	18919.05		

PLANT LOAD FACTOR ( PLF ) OF THERMAL POWER STATIONS IN EASTERN REGION DURING THE MONTH OF APR' 2022

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	20.07	0.00	20.07	0.00
	Thermal	Barauni (U# 8)	250.00	250.00	77.84	43.25	77.84	43.25
		Barauni (U# 9)	250.00	250.00	132.85	73.81	132.85	73.81
	(Dedicated for Bihar)	Muzaffarpur Stg-I	220.00	220.00	0.00	0.00	0.00	0.00
	RES	Thermal Total	940.00	930.00	230.76	31.47	230.76	31.47
				354.91	354.91	19.05	19.05	
Total BIHAR			1294.91	1284.91	249.82		249.82	
<b>JHARKHAND</b>								
TVNL	Thermal	TVNL	420.00	420.00	225.75	74.65	225.75	74.65
JSEB	Hydro	Subarnrekha (U#1,2)	130.00	130.00	0.00		0.00	
	RES		60.41	60.41	0.00		0.00	
	Total		190.41	190.41	0.00		0.00	
DVC	Thermal	Bokaro-B(3)	0.00	0.00	0.00	0.00	0.00	0.00
		Chandrapura( U7 # 8)	500.00	500.00	356.64	99.07	356.64	99.07
		Durgapur(4)	210.00	210.00	0.00	52.30	79.08	52.30
		Mezia(1,2,3,4,5,6)	1340.00	1340.00	853.91	88.51	853.91	88.51
		Mejia( U # 7,8)	1000.00	1000.00	624.83	86.78	624.83	86.78
		Bokaro-A(1)	500.00	500.00	333.37	92.60	333.37	92.60
		Durgapur STPS (U#1,2)	1000.00	1000.00	644.19	89.47	644.19	89.47
		Raghunathpur TPS (U#1,2)	1200.00	1200.00	394.64	45.68	394.64	45.68
	Koderma STPS (U#1,2)	1000.00	1000.00	642.31	89.21	642.31	89.21	
	Total Thermal		6750.00	6750.00	3928.96	80.84	3928.96	80.84
	Hydro	Maithon (U#1,2,3)	63.20	63.20	15.28		15.28	
		Panchet (U#1,2)	80.00	80.00	7.17		7.17	
		Tilaiya (U#1,2)	4.00	4.00	0.00		0.00	
		Hydro Total	147.20	147.20	22.45		22.45	
Total DVC		6897.20	6897.20	3951.41		3951.41		
<b>WEST BENGAL</b>								
WBPDC	Thermal	Bandel TPS	320.00	275.00	155.24	78.41	155.24	78.41
		Santalidih TPS(U#5&6)	500.00	500.00	327.27	90.91	327.27	90.91
		Kolaghat TPS	840.00	840.00	329.62	54.50	329.62	54.50
		Bakreswar TPP	1050.00	1050.00	683.93	90.47	683.93	90.47
		Sagardighi TPP	1600.00	1600.00	914.27	79.36	914.27	79.36
		DPPS (300+250 *)	550.00	550.00	226.85	57.29	226.85	57.29
Thermal Total		4860.00	4815.00	2637.19	76.07	2637.19	76.07	
WBSEDCL	Hydro	Jaldhaka (3x9+2x4)	35.00	35.00	15.52		15.52	
		Rammam (4x12.73)	51.00	51.00	10.58		10.58	
		Teesta C.F. (3x3x7.5)	67.50	67.50	8.17		8.17	
		Purulia PSS (4x225)	900.00	900.00	101.55		101.55	
		Total Hydro	1053.50	1053.50	135.81		135.81	
RES		500.76	500.76	12.50		12.50		
DE- COMMI- SIONED	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.							
COMMI- SIONED	1.NTPC Nabinagar TPP(BRBCL) U#4 (250 MW) COD from 01.12.2021							
	2.NTPC BARAUNI TPP U#9 (250 MW) COD from 01.11.2021							
	3.NTPC Barh St-1, U#1(660 MW) COD from 12.11.2021							
	4.NSTPS U#2 (660 MW) COD from 23.07.2021							
	5.NTPC DARLIPALI STPS U#2 (800 MW) COD 01.09.2021							
	6.DARLIPALI S TPS U#1(800 MW) COD 01.03.2020							
	7.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 APR' 2022

ORGANISATION	TYPE	POWER STATION	INSTALLED CAPACITY	EFFECTIVE CAPACITY	Gross Energy Generation	PLF of Current Month	Cummulative Gross Energy Generation upto Current Month	Cummulative PLF upto Current Month
			( in MW )	( in MW )	in MU	( % )	( 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	90.72	93.33	90.72	93.33
		Budge-Budge (3x250)	750.00	750.00	527.59	97.70	527.59	97.70
		<b>Total CESC</b>	<b>1125.00</b>	<b>1125.00</b>	<b>618.31</b>	<b>76.33</b>	<b>618.31</b>	<b>76.33</b>
HEL	Thermal	HEL	600.00	600.00	422.12	97.71	422.12	97.71
		<b>Total West Bengal</b>	<b>8139.26</b>	<b>8094.26</b>	<b>3825.93</b>		<b>3825.93</b>	
OPGC	Thermal	IB TPS	420.00	420.00	260.62	86.18	260.62	86.18
		IB TPS U#3(660 MW)	660.00	660.00	431.70	90.85	431.70	90.85
		IB TPS U#4(660 MW)	660.00	660.00	0.00	0.00	0.00	0.00
OHPC	Hydro	Hirakud-I (Burla)	275.50	275.50	54.11		54.11	
		Hirakud-II (Chiplima)	72.00	72.00	31.60		31.60	
		Balimela (6x60+2x75)	510.00	510.00	150.68		150.68	
		Rengali (5x50)	250.00	250.00	89.02		89.02	
		Upper Kolab (4x80)	320.00	320.00	56.79		56.79	
		Indravati HPS (4x150)	600.00	600.00	51.69		51.69	
		Mckd.(Odisha drawal)	57.38	57.38	19.07		19.07	
		<b>Total Hydro</b>	<b>2084.88</b>	<b>2084.88</b>	<b>452.95</b>		<b>452.95</b>	
		RES	539.57	539.57	65.53		65.53	
		<b>Total Odisha</b>	<b>4364.45</b>	<b>4364.45</b>	<b>1210.80</b>		<b>1210.80</b>	
(**) SIKKIM	Hydro	RES	52.18	52.18	1.00		1.00	
NTPC		MTPS Stg-II	390.00	390.00	267.28	95.19	267.28	95.19
		FSTPP# I&II ( 3x200+2x500)	1600.00	1600.00	763.75	66.30	763.75	66.30
		FSTPP (U# 6)	500.00	500.00	346.97	96.38	346.97	96.38
		KhSTPP (4x210+3x500)	2340.00	2340.00	1492.11	88.56	1492.11	88.56
		TSTPP (2x500)	1000.00	1000.00	694.46	96.45	694.46	96.45
		BARH STPS II (2X660)	1320.00	1320.00	893.32	93.99	893.32	93.99
		BARH STPS I (1X660)	660.00	660.00	378.06	79.56	378.06	79.56
		BRBCL # 1,2,3,4(4X250 MW)	1000.00	1000.00	636.19	88.36	636.19	88.36
		BRBCL # 4 infirm			0.00	0.00	0.00	0.00
		NSTPS U# 1&2	1320.00	1320.00	915.49	96.33	915.49	96.33
		NSTPS infirm					0.00	
		DSTPP #1&2	1600.00	1600.00	964.88	83.76	964.88	83.76
		DSTPP #2 infirm	0.00	0.00	0.00	0.00	0.00	0.00
		<b>Total NTPC</b>	<b>11730.00</b>	<b>11730.00</b>	<b>7352.52</b>	<b>87.06</b>	<b>7352.52</b>	<b>87.06</b>
		NHPC	HYDRO	Rangit (3x20)	60.00	60.00	24.35	
Teesta (3x170)	510.00			510.00	266.65		266.65	
TLDP( 4x33+4x40) for WBSEDCL	292.00			292.00	96.97		96.97	
<b>Total NHPC</b>	<b>862.00</b>			<b>862.00</b>	<b>387.97</b>		<b>387.97</b>	
<b>Total Thermal (E.R)</b>	<b>31655.00</b>			<b>31600.00</b>	<b>18165.93</b>	<b>79.76</b>	<b>18165.93</b>	<b>79.76</b>
Thermal	MPL (U#1&2)		1050.00	1050.00	649.02	85.85	649.02	85.85
	APNRL (U#1,2)		540.00	540.00	300.69	77.34	300.69	77.34
	GMR (2x350)		700.00	700.00	382.26	75.85	382.26	75.85
	JITPL (2X600)		1200.00	1200.00	726.01	84.03	726.01	84.03
	CHUZACHEN** (2x55)		110.00	110.00	40.21		40.21	
	JORETHANG (2x48)		96.00	96.00	19.44		19.44	
	TEESTA URJA St III (6x200)		1200.00	1200.00	412.28		412.28	
	Tashilding (2x48.5)		97.00	97.00	17.47		17.47	
	DICKCHU (2x48)		96.00	96.00	57.68		57.68	
	RONGNICHU HEP (2x56.5)				27.64		27.64	
TALCHER SOLAR	10.00	10.00	1.18		1.18			
EASTERN REGIONAL		<b>Total Hydro (E.R)</b>	<b>5989.58</b>	<b>5989.58</b>	<b>1573.91</b>		<b>1573.91</b>	
		<b>Total RES</b>	<b>1517.83</b>	<b>1517.83</b>	<b>99.26</b>		<b>99.26</b>	
		<b>TOTAL (E.R)</b>	<b>39162.41</b>	<b>39107.41</b>	<b>19839.09</b>		<b>19839.09</b>	
BHUTAN	Hydro	CHPC(4x90)	360.00	270.00	146.82		146.82	
		Kurichu (4x15)	60.00	60.00	9.91		9.91	
		TALA (6x170)	1020.00	1020.00	71.19		71.19	
		DAGACHU (2x63)	126.00	126.00	15.79		15.79	
		MANGDECHU(4x180 )	720.00	720.00	156.13		156.13	
<b>Grand Total</b>	<b>41448.41</b>	<b>41303.41</b>	<b>20238.93</b>		<b>20238.93</b>			

CONTRIBUTIONS OF DIFFERENT CONSTITUENTS AT THE TIME OF REGIONAL PEAK DURING THE MONTH OF APR'2022 (16-4-2022)

Date 16-Apr-22  
Time 23.00 Hrs.  
Frequency 49.95 Hz.

System/State	Installed	Effective				(All Fig. in MW)
	Capacity	Capacity	Hydro	Thermal	RES	Net Gen Total
BSPHCL	1295	1285	0	254	0	254
JUVNL	610	610	0	308	0	308
DVC	6897	6897	46	5051	0	5097
ODISHA	4364	4364	1148	950	19	2118
WBSEDCL	5864	5819	618	3434	0	4053
TLDP	292	292	188	0	0	188
HEL HALDIA	600	600	0	550	0	550
CESC	1125	1125	0	796	0	796
DPL	550	550	0	0	0	0
SIKKIM	52	52	0	0	0	0
NTPC	11730	11730	0	10017	0	10017
NHPC	570	570	552	0	0	552
CHUKHA	360	270	201	0	0	201
KURICHU	60	60	6	0	0	6
TALA	1020	1020	97	0	0	97
MPL	1050	1050	0	951	0	951
OPGC (660 MW)	0	0	0	0	0	0
APNRL	540	540	0	371	0	371
Kamalganga (GMR)	700	700	0	662	0	662
JITPL	1200	1200	0	1078	0	1078
RONGNICHU HEP (2x56.5)	113	113	0	0	0	0
Chuzachen	110	110	51	0	0	51
Jorethang	96	96	39	0	0	39
TEESTA URJA St III	1200	1200	1187	0	0	1187
Tashilding	97	97	6	0	0	6
DICKCHU	96	96	98	0	0	98
<u>Daghachu</u>	126	126	20	0	0	20
<u>Solar</u>	10	10	0	0	0	0
<u>Mangdechu</u>	720	720	171	0	0	171
<u>Total</u>	41448	41303	4428	24425	19	28871
Import From Captive:						1579
Export To:						
NER						-632
SR						1852
WR						-767
NR						3295
Bangladesh						945
Nepal						65
<b>Total</b>						<b>4760</b>
➤ <b>Regional Net Peak Demand Met ( MW ) :</b>						<b>25690</b>

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

**Hourly Load Generation Data OF ER on Regional Peak Day During The Month of APR'2022 (16-4-2022)**

( All Figures in MW)

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	4206	24823	29029	1595	502	6119	25007	92	95	25194
2	3909	24796	28706	1595	488	6305	24484	54	70	24608
3	3415	24688	28103	1588	470	5980	24181	8	0	24189
4	3123	24764	27888	1571	466	5819	24105	57	0	24162
5	2285	24752	27037	1498	465	5428	23572	54	0	23625
6	2221	24777	26998	1476	446	6467	22453	159	141	22753
7	1919	24484	26403	1484	448	6743	21591	32	152	21775
8	1582	24264	25845	1546	441	6128	21705	-23	87	21769
9	1459	24009	25468	1527	422	5432	21985	-6	2	21987
10	1484	24030	25514	1499	426	5003	22436	-4	0	22436
11	1123	23798	24921	1418	417	3742	23015	2	326	23343
12	1166	23790	24956	1401	396	3300	23452	23	1	23476
13	948	23531	24479	1397	407	2378	23905	2	249	24156
14	819	23499	24318	1419	437	2294	23880	4	244	24129
15	723	23564	24287	1444	414	1908	24237	11	0	24247
16	902	23763	24665	1423	416	2013	24492	47	306	24845
17	1226	23958	25183	1499	399	3737	23345	0	100	23445
18	1506	23975	25481	1545	415	5011	22430	2	0	22432
19	2652	24136	26788	1507	420	4875	23840	21	246	24107
20	3290	24340	27630	1520	406	4579	24976	68	224	25267
21	3511	23993	27503	1541	423	4318	25149	-29	0	25149
22	3413	24071	27484	1541	488	4252	25261	-18	201	25444
23	3953	24425	28378	1579	494	4760	25690	45	0	25735
24	3996	24567	28563	1553	528	5061	25583	103	0	25686

**Hourly Load Generation Data of ER On Regional Lean Day During The Month of APR'2022 (30-4-2022)**

( All Figures in MW )

Hrs.	Generation			Import from Captive	Net Import From Hydro of Bhutan	Net Export to other region	Demand Met	Freq. Correction	Load Shed	Requirement
	Hydro	Thermal	Total							
1	3048	22041	25089	1751	341	5381	21801	63	864	22728
2	2796	21672	24467	1746	343	5717	20839	9	1100	21948
3	2516	21609	24125	1769	348	5448	20793	18	674	21485
4	2028	21623	23651	1731	357	5284	20454	14	624	21093
5	2069	21730	23799	1752	341	5688	20203	11	666	20880
6	1822	21903	23724	1750	324	6471	19326	42	653	20022
7	1565	21666	23231	1739	306	6556	18719	3	573	19296
8	1119	21448	22567	1708	335	6306	18303	-14	524	18813
9	1217	21242	22459	1692	380	5744	18788	-41	82	18829
10	1163	21579	22742	1641	360	5035	19709	38	83	19829
11	1168	21712	22881	1669	357	4582	20325	18	79	20422
12	1058	21855	22914	1699	357	4431	20538	49	78	20665
13	931	21840	22771	1716	362	4374	20476	-4	77	20549
14	1127	21775	22902	1705	366	4436	20537	-20	74	20591
15	1453	21949	23402	1728	363	4536	20957	97	69	21122
16	1861	22102	23963	1647	348	4880	21077	53	126	21257
17	1648	21934	23582	1685	300	5165	20402	54	88	20544
18	1837	21596	23433	1656	312	5585	19817	-16	100	19902
19	2320	21499	23819	1673	292	5276	20507	-39	147	20615
20	3061	21939	25001	1696	287	6566	20417	-21	587	20982
21	3716	22023	25739	1696	307	7699	20043	7	607	20657
22	3591	22585	26176	1699	370	8506	19738	24	567	20329
23	3598	21848	25446	1721	401	8179	19388	3	641	20033
24	3743	21948	25690	1717	415	8065	19758	22	604	20384

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

FOR THE MONTH OF APR'2022

**POWER CUT / RESTRICTIONS**

<b>BSPHCL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 134.46 MU
<b>JUVNL</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 157.84 MU
<b>DVC</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 0.00 MU
<b>ODISHA</b>	NO NOTIFIED CUTS/RESTRICTIONS However there was loadshedding of 28.88 MU
<b>WEST BENGAL</b>	NO NOTIFIED CUTS/RESTRICTIONS. However there was loadshedding of 13.09 MU

**POWER SUPPLY TO AGRICULTURAL SECTOR**

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



FREQUENCY DETAILS FOR THE MONTH OF Apr-22

DATE	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	
01-Apr	50.00	50.01	50.00	50.02	49.99	50.00	1.12	79.40	19.48	79.40	50.22	18:02:00	49.82	00:10:50	50.10	0:00	49.88	0:00
02-Apr	50.00	49.99	50.00	49.96	49.86	49.98	9.70	76.80	13.50	76.80	50.21	18:02:20	49.65	22:13:30	50.08	0:00	49.78	0:00
03-Apr	49.94	50.01	49.97	49.94	49.94	49.96	11.86	79.34	8.80	79.34	50.20	08:02:00	49.75	20:33:10	50.09	0:00	49.81	0:00
04-Apr	49.97	49.99	49.94	49.90	49.83	49.94	25.56	68.14	6.30	68.14	50.16	08:02:50	49.58	19:15:20	50.09	0:00	49.71	0:00
05-Apr	49.95	49.92	49.93	49.83	49.75	49.90	41.33	54.68	3.99	54.68	50.14	18:01:40	49.52	22:27:50	50.04	0:00	49.62	0:00
06-Apr	49.87	49.90	49.92	49.84	49.75	49.88	47.95	47.88	4.17	47.88	50.14	13:03:10	49.58	23:07:10	50.06	0:00	49.64	0:00
07-Apr	49.83	49.88	49.86	49.77	49.72	49.83	62.67	35.91	1.41	35.91	50.11	07:57:20	49.51	18:55:50	50.05	0:00	49.58	0:00
08-Apr	49.84	49.93	49.97	49.98	49.84	49.93	34.99	54.29	10.72	54.29	50.24	13:05:50	49.58	05:25:30	50.17	0:00	49.64	0:00
09-Apr	49.87	49.95	49.98	49.85	49.79	49.91	39.16	51.75	9.10	51.75	50.21	13:03:30	49.50	23:30:00	50.12	0:00	49.62	0:00
10-Apr	49.94	50.00	50.04	49.98	49.96	49.99	9.42	66.68	23.90	66.68	50.22	18:02:30	49.55	00:09:30	50.12	0:00	49.69	0:00
11-Apr	49.96	49.99	49.90	49.83	49.91	49.92	30.10	60.73	9.17	60.73	50.16	06:01:00	49.47	19:19:40	50.08	0:00	49.54	0:00
12-Apr	49.88	49.92	49.94	49.84	49.84	49.89	43.34	52.13	4.53	52.13	50.15	13:02:20	49.54	19:22:40	50.06	0:00	49.60	0:00
13-Apr	49.85	49.94	49.87	49.94	49.84	49.89	44.13	51.59	4.28	51.59	50.17	18:01:30	49.57	16:46:40	50.06	0:00	49.67	0:00
14-Apr	49.94	49.99	49.98	50.01	49.93	49.98	9.95	77.44	12.60	77.44	50.26	18:02:40	49.74	22:11:50	50.11	0:00	49.84	0:00
15-Apr	49.98	50.03	50.00	49.97	49.86	49.98	10.22	73.97	15.81	73.97	50.21	18:02:30	49.69	23:06:10	50.09	0:00	49.72	0:00
16-Apr	49.94	49.96	49.99	49.99	49.92	49.97	13.84	75.91	10.24	75.91	50.15	18:01:50	49.75	05:39:40	50.06	0:00	49.74	0:00
17-Apr	49.90	50.01	50.01	49.99	49.97	49.98	11.01	72.41	16.59	72.41	50.22	08:02:39	49.51	00:03:00	50.11	0:00	49.80	0:00
18-Apr	49.91	50.00	49.90	49.89	49.78	49.91	36.53	54.83	8.64	54.83	50.13	10:00:20	49.43	23:08:30	50.06	0:00	49.57	0:00
19-Apr	49.92	49.94	49.81	49.90	49.85	49.88	42.79	55.07	2.14	55.07	50.12	13:02:20	49.44	14:09:10	50.02	0:00	49.55	0:00
20-Apr	49.94	49.98	49.79	49.75	49.78	49.85	46.33	49.02	4.65	49.02	50.13	06:00:50	49.63	14:22:50	50.06	0:00	49.53	0:00
21-Apr	49.77	49.96	49.91	49.93	49.82	49.89	45.43	50.76	3.81	50.76	50.14	18:00:10	49.65	23:07:00	50.04	0:00	49.69	0:00
22-Apr	49.94	49.92	49.87	49.96	49.88	49.91	35.97	59.05	4.98	59.05	50.12	18:01:50	49.59	06:20:20	50.07	0:00	49.70	0:00
23-Apr	49.91	49.92	49.86	49.91	49.78	49.89	47.01	49.73	3.25	49.73	50.24	18:03:00	49.59	14:59:10	50.07	0:00	49.68	0:00
24-Apr	49.90	50.02	50.00	49.97	49.81	49.96	20.47	59.99	19.54	59.99	50.24	18:01:40	49.59	22:13:00	50.11	0:00	49.71	0:00
25-Apr	49.95	49.98	49.87	50.00	49.85	49.93	23.87	67.40	8.74	67.40	50.18	22:00:30	49.54	15:24:10	50.07	0:00	49.60	0:00
26-Apr	49.88	49.99	49.86	49.75	49.80	49.86	51.99	41.12	6.89	41.12	50.16	18:01:20	49.48	22:14:10	50.09	0:00	49.61	0:00
27-Apr	49.89	49.92	49.83	49.84	49.74	49.86	58.26	40.55	1.19	40.55	50.13	18:01:20	49.45	14:40:00	50.01	0:00	49.51	0:00
28-Apr	49.82	49.93	49.79	49.91	49.90	49.86	52.18	44.94	2.88	44.94	50.12	18:02:40	49.46	19:17:00	50.02	0:00	49.58	0:00
29-Apr	49.85	49.91	49.92	49.95	49.87	49.91	40.93	53.75	5.32	53.75	50.22	18:02:20	49.57	00:12:00	50.06	0:00	49.70	0:00
30-Apr	49.97	49.99	49.95	50.01	49.98	49.98	11.17	72.03	16.81	72.03	50.24	18:04:30	49.71	00:12:50	50.14	0:00	49.78	0:00
MAX	50.00	50.03	50.04	50.02	49.99	50.00	62.67	79.40	23.90	79.40	50.26		49.82		50.17		49.88	
MIN	49.77	49.88	49.79	49.75	49.72	49.83	1.12	35.91	1.19	35.91	50.11		49.43		50.01		49.51	
AVG	49.91	49.96	49.92	49.91	49.85	49.92	31.98	59.24	8.78	59.24	50.18		49.58		50.08		49.67	

SUMMARY:

Avg. Frequency : 49.92 Hz.

Instantaneous Frequency :

Maximum Frequency : 50.26 Hz at 18:02 Hrs.

Minimum Frequency : 49.43 Hz at 14:09 Hrs.

15 Minutes Integrated Frequency :

Maximum Frequency : 50.17 Hz On 00/01/00 at 00:00 Hrs.

Minimum Frequency : 49.51 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	31.98	59.24	8.78

## VOLTAGE ANALYSIS

## MAXIMUM &amp; MINIMUM VOLTAGES RECORDED AT IMPORTANT 400 kV S/S IN THE MONTH OF APR'2022

( All figs. in kV )

PGCIL	BINAGURI		MAITHON		JEERAT		BIHARSHARIFF	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	419	399	408	397	421	384	420	397

PGCIL	MUZAFFARPUR		JAMSHEDPUR		ROURKELA		JEYPORE	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	417	389	415	396	403	390	417	402

## 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
<b>TOTAL</b>	<b>820</b>	<b>830</b>	<b>830</b>	<b>840</b>	<b>3320</b>

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

Apr-22

(All figs.in mtrs.)

Name of the Reservoirs	FRL	MDDL	As on last day of the		As on first day of this month & date	
			(30-04-22)	(30-04-21)		
Hirakud	192	180	186.07	185.06	188.59	01.04.22
Balimela	462	439	444.58	446.56	448.45	01.04.22
Rengali	123	109	115.45	114.18	119.24	01.04.22
Upperkolab	858	844	846.09	845.92	847.95	01.04.22
Indravati	642	625	629.68	631.90	630.57	01.04.22
Subernrekha	590	580	584.76	584.39	585.03	01.04.22

B.

## CPP/IPP IMPORT by Eastern Region Constituents during

Apr-22

(All figs. are in MU)

System	Tata Power	Cresent Power	JSPL, Angul	Sterlite	Jindal	NALCO	TISCO	Others	Total
JUVNL	0	0	0	0	0	0	0	0	42.22
West Bengal	74.73	24.80	0	0	0	0	0	196.73	296.26
ODISHA	0	0	41.82	256.89	7.22	0.00	0	477.18	783.12
DVC	0	0	0	0	0	0	7.35	0	7.35
<b>TOTAL</b>	<b>74.73</b>	<b>24.80</b>	<b>41.82</b>	<b>256.89</b>	<b>7.22</b>	<b>0.00</b>	<b>7.35</b>	<b>673.91</b>	<b>1128.96</b>

C.

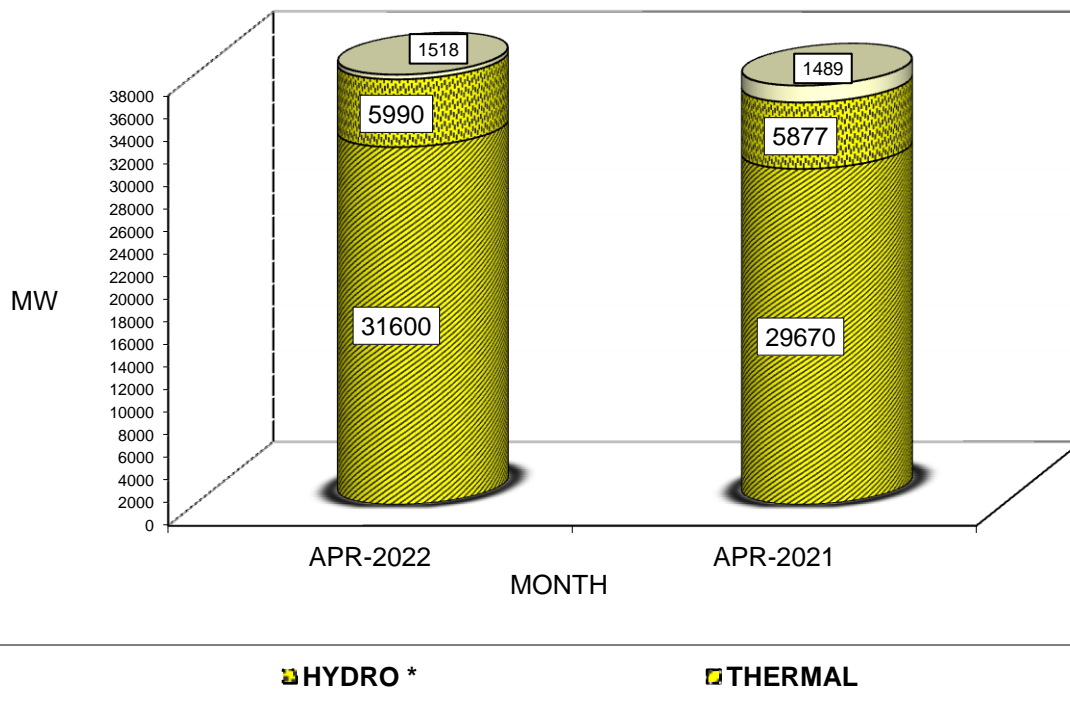
## Distribution of Schedule Supply among Key Customers by IPPs during

Apr-22

(All figs. are in MU)

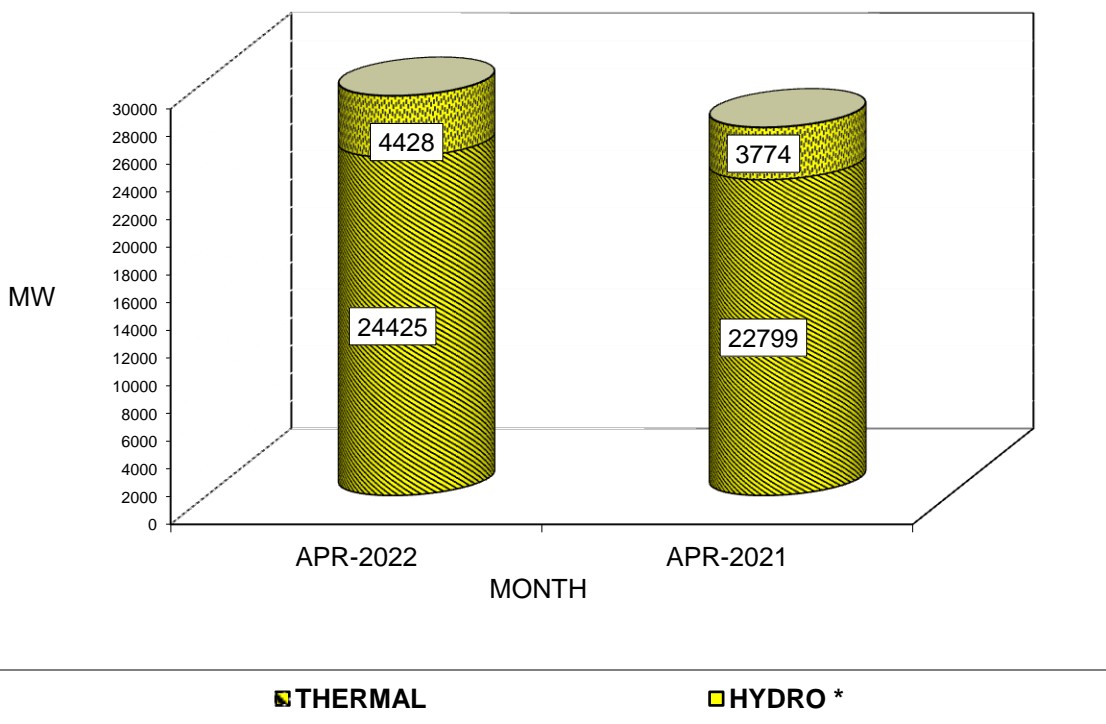
IPP	TPDDL	WBSEDCL/ WBPDCL	DVC	Sale at IEX/NPCL	ODISHA	JSEB	CTU/Others	Total (Excl. Tr. Loss)
MPL	178.77	178.77	89.20	0.00	0	0	165.32	612.06
Sterlite	0	0	0	0	0.00	0	0.00	0.00
APNRL	0	9.31	0	84.00	0.00	101.62	83.30	278.23
Total	178.77	188.08	89.20	84.00	0.00	101.62	248.62	890.29

**EFFECTIVE CAPACITY OF EASTERN REGIONAL GRID**



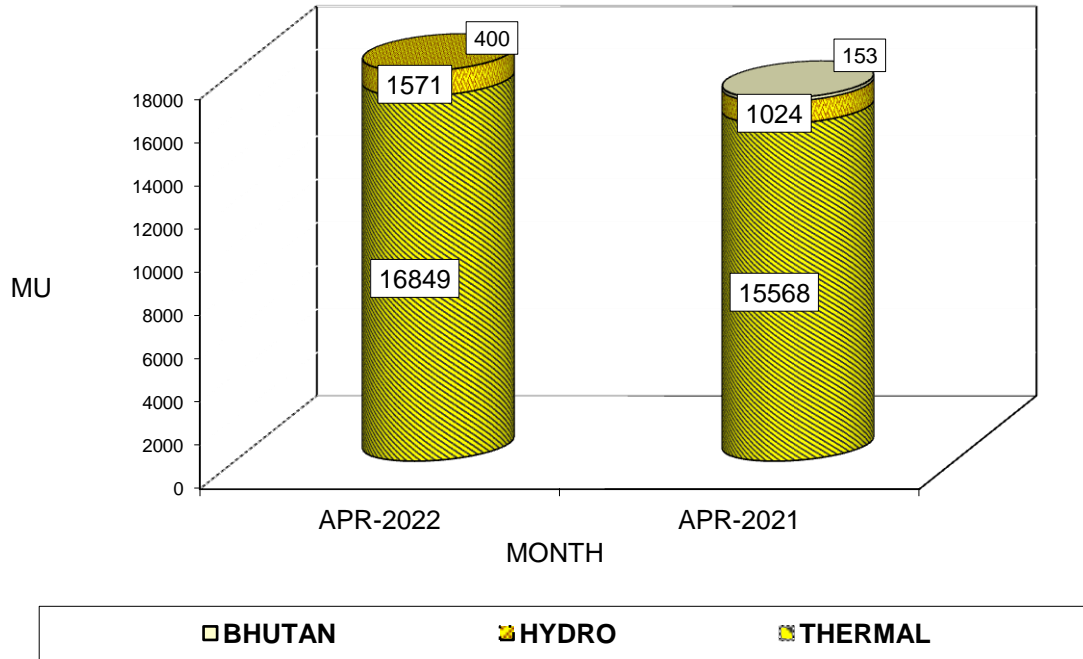
\*Excludes contribution from HEPs of Bhutan

**GENERATION CORRESPONDING TO PEAK DEMAND MET**

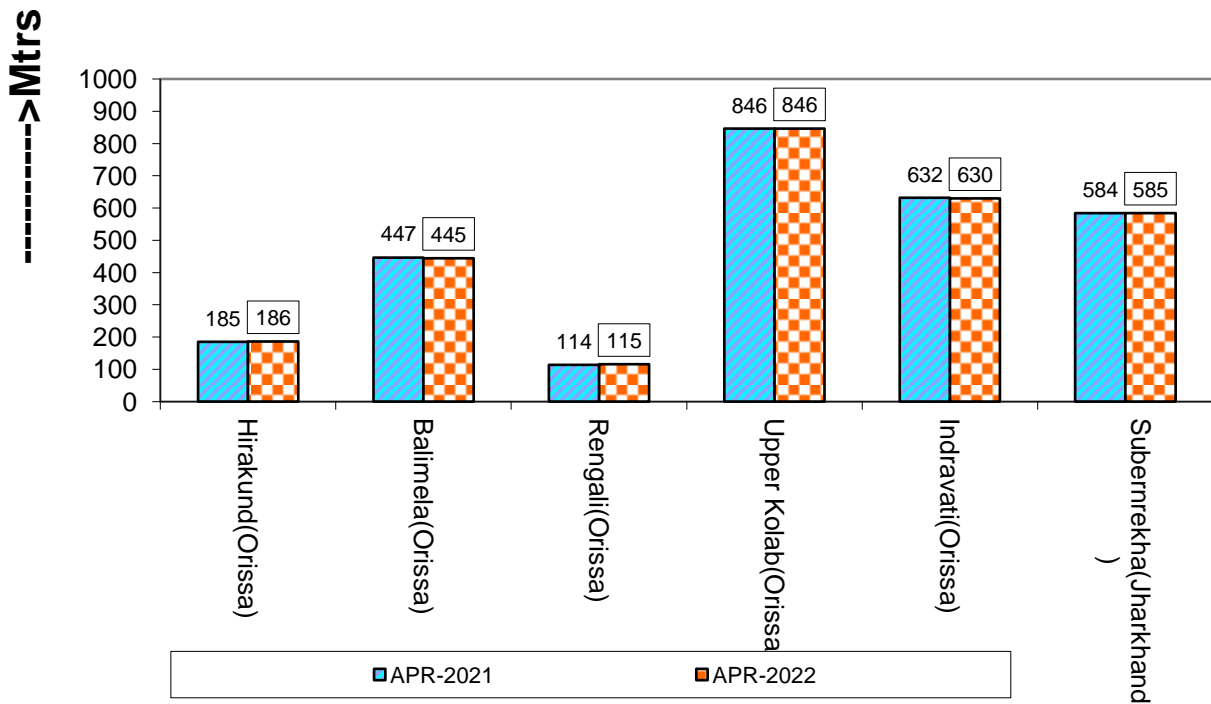


\*Includes contribution from HEP of Bhutan

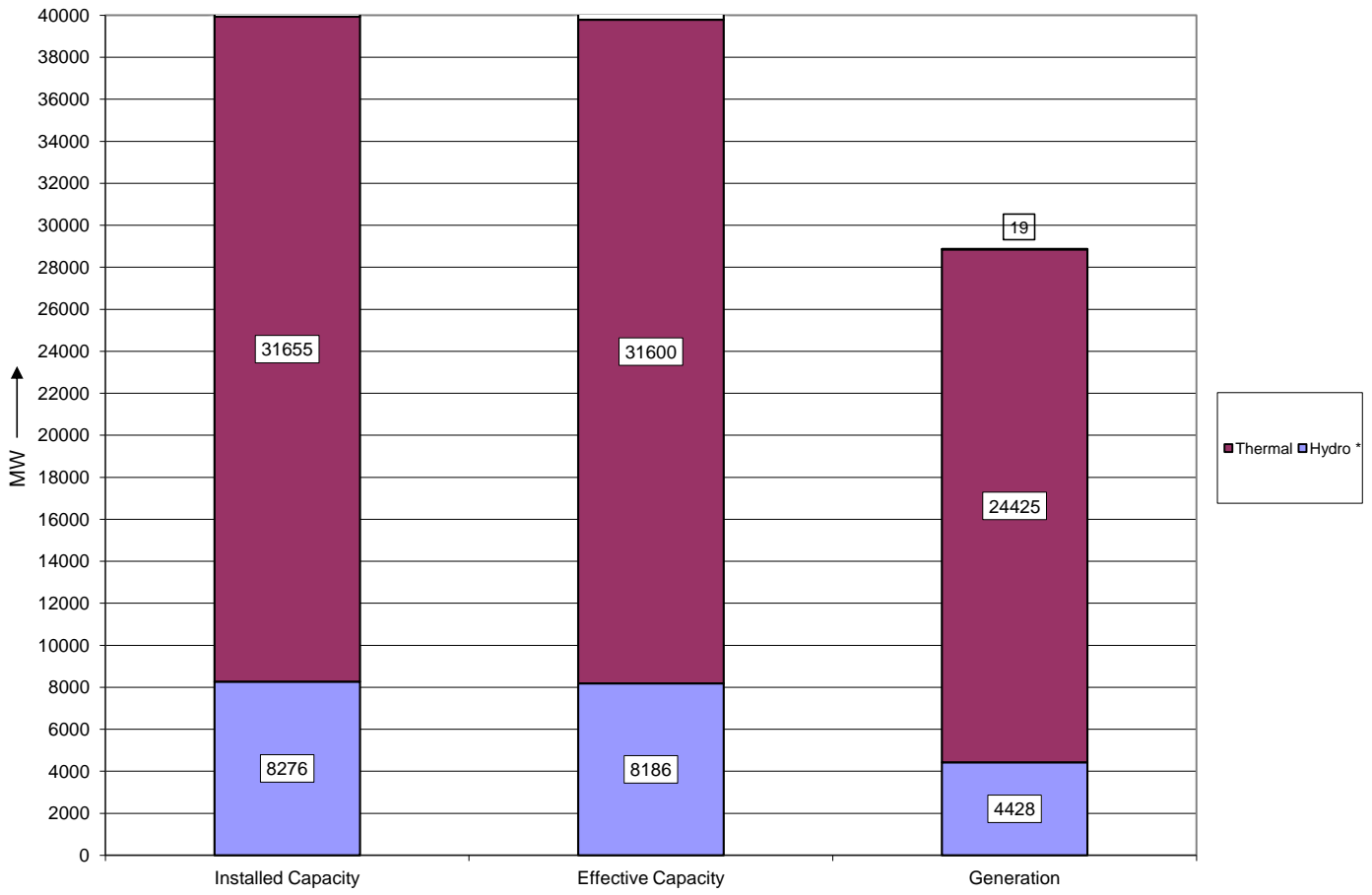
**NET ENERGY GENERATION**



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

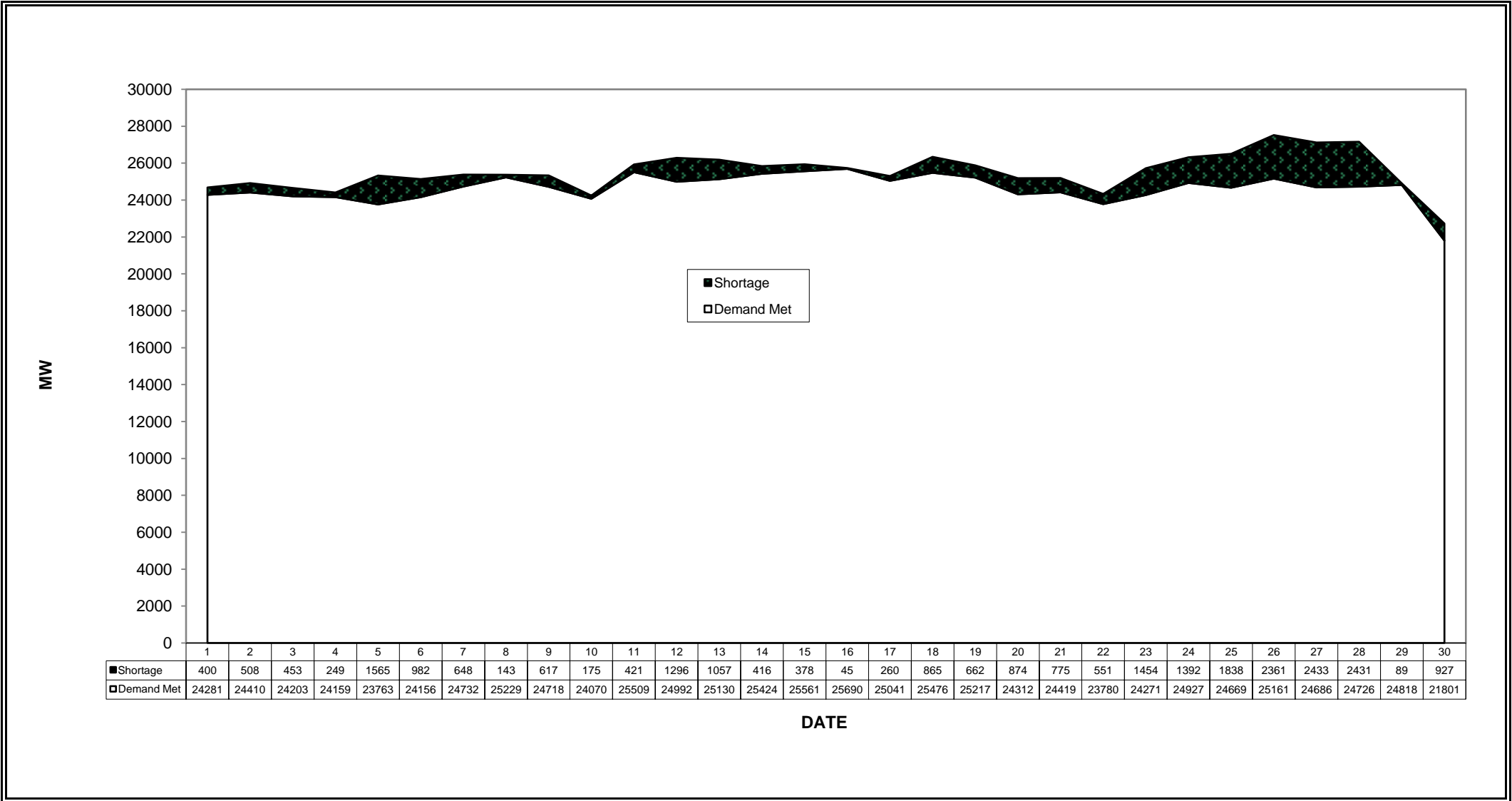


**Capacity / Actual Generation Pattern of ER on Peak Day (16-4-2022) at 23.00 hrs.**

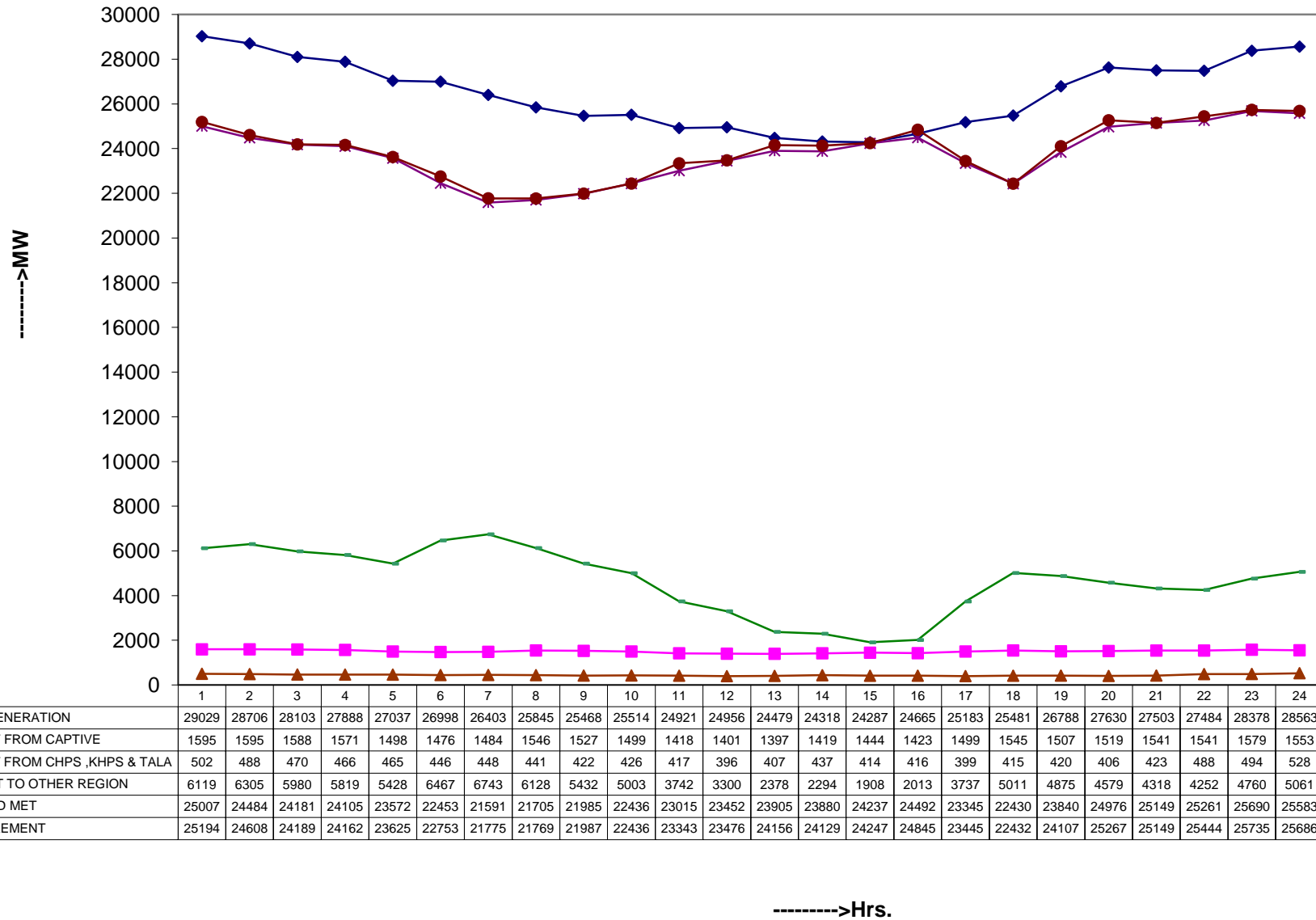


(\*)--Includes contribution from HEP of Bhutan (Chukka, Kurichhu & Tala)

Peak Demand Met / Shortage of Eastern Region For The Month Of APR'2022

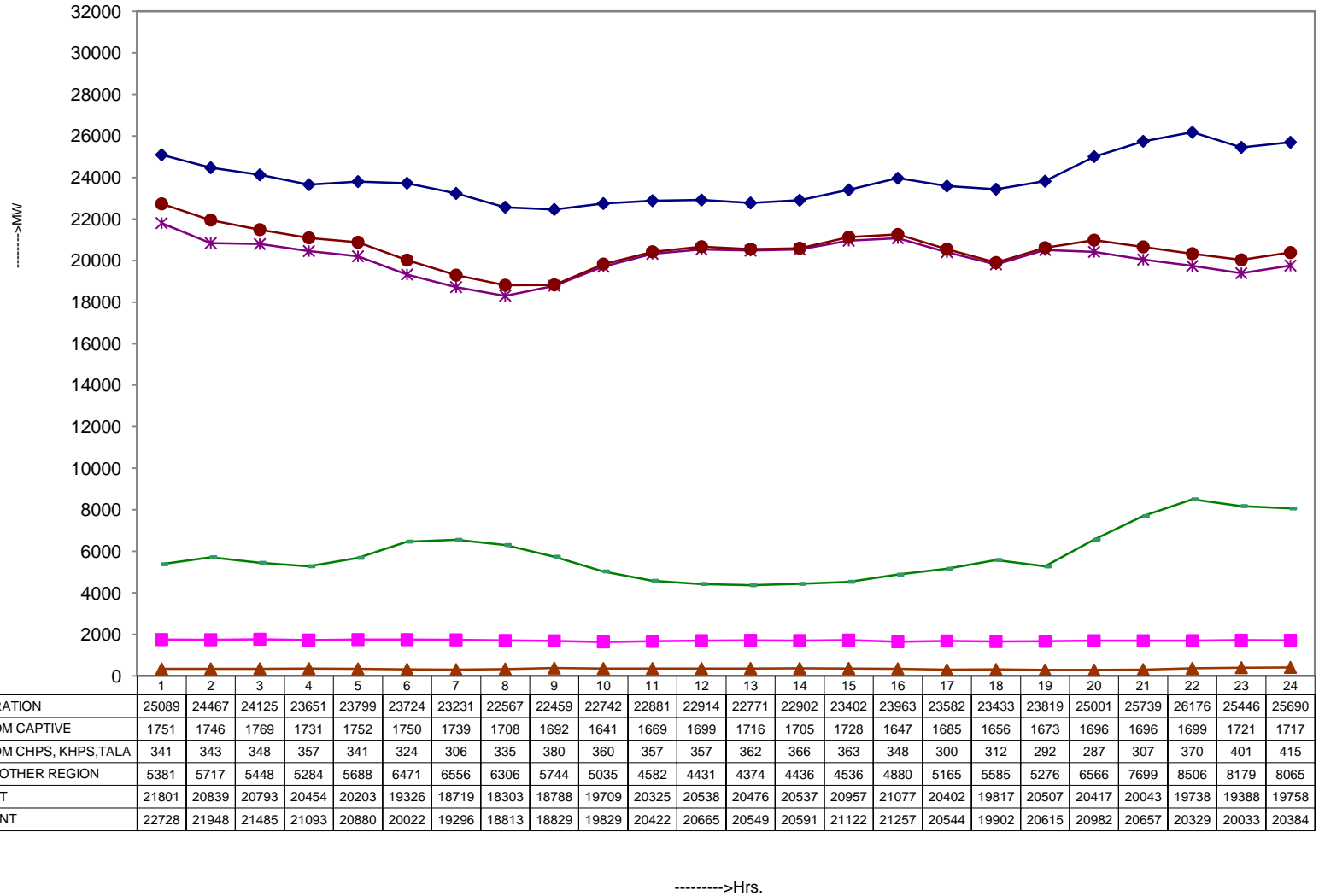


Hourly Load Generation Data OF ER on Regional Peak Day During The Month of APR'2022 (16-4-2022)



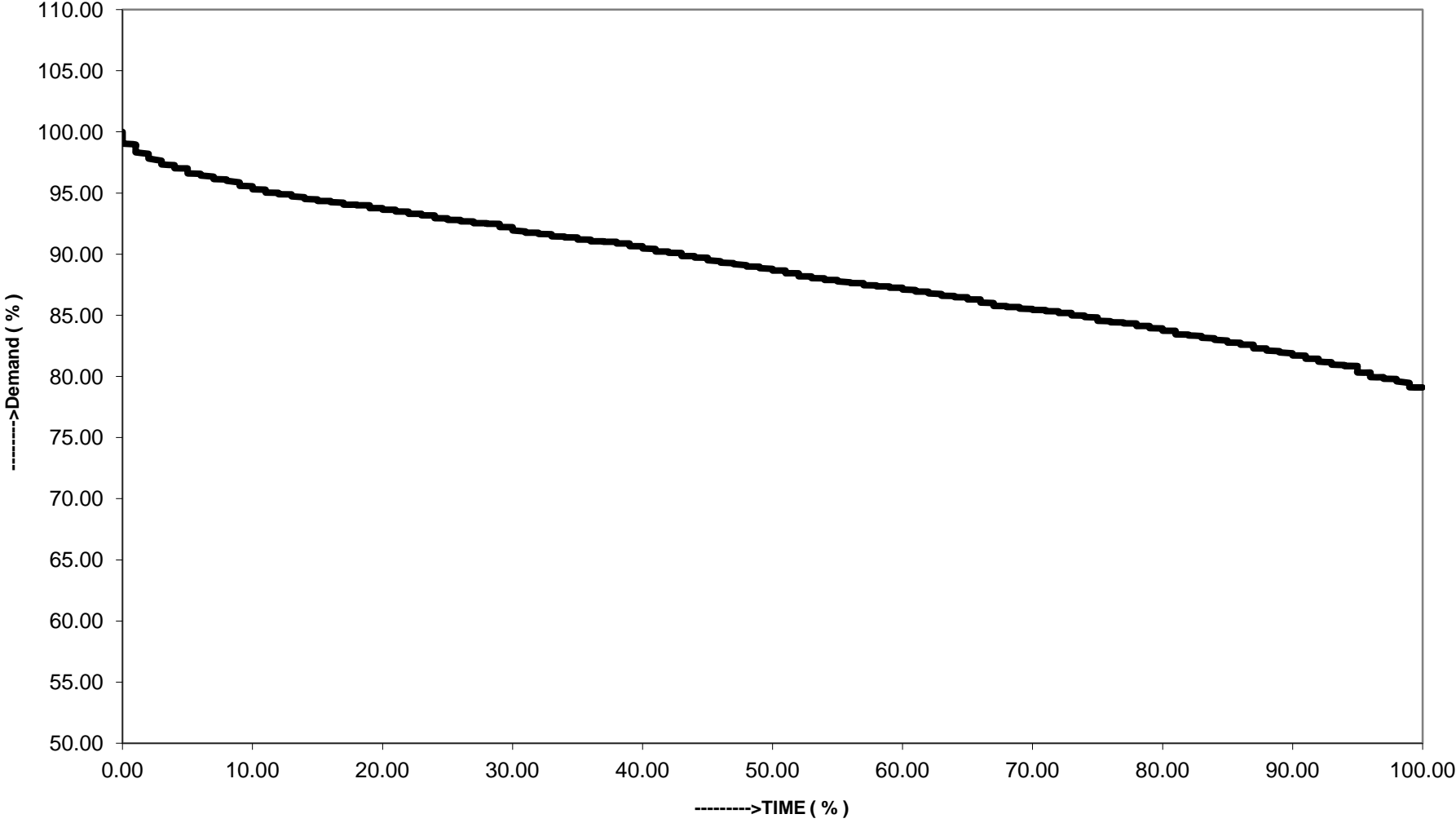


Hourly Load Generation Data of ER On Regional Lean Day During The Month of APR'2022 (30-4-2022)



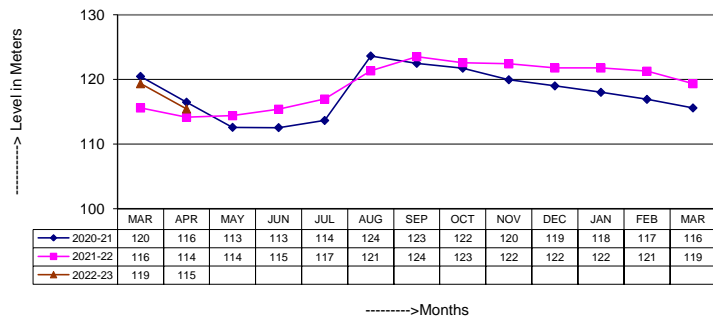
Monthly Load Duration Curve of Eastern Region for APR-2022

Maximum Demand met : 25690 MW  
Minimum Demand met: 18303 MW

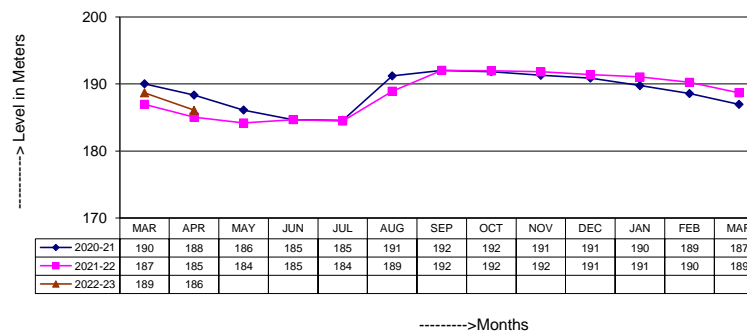


WATER LEVEL IN MAJOR RESERVOIRS ON LAST DATE OF MONTH

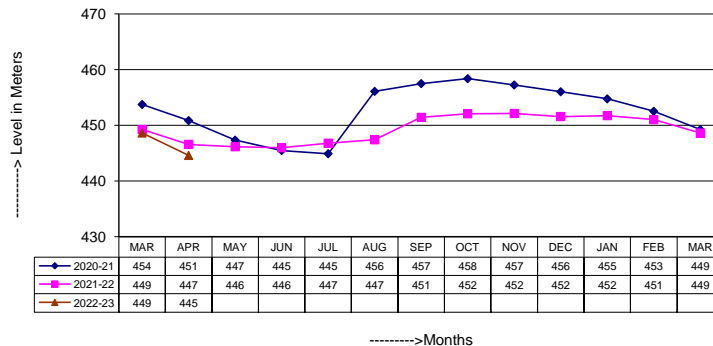
RENGALI RESERVOIR LEVEL



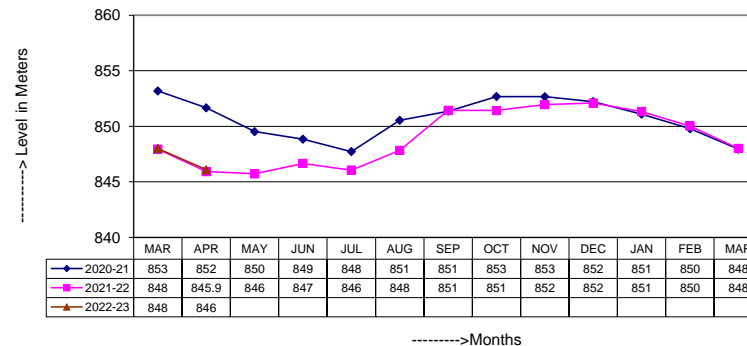
HIRAKUD RESERVOIR LEVEL



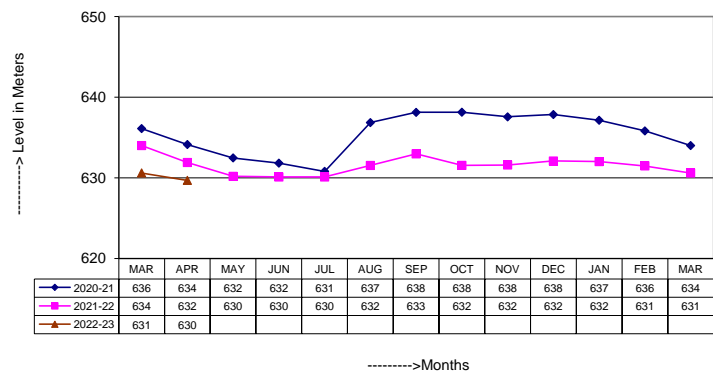
BALIMELA RESERVOIR LEVEL



UPPER KOLAB RESERVOIR LEVEL



INDRAVATI RESERVOIR LEVEL



SUBERNREKHA RESERVOIR LEVEL

