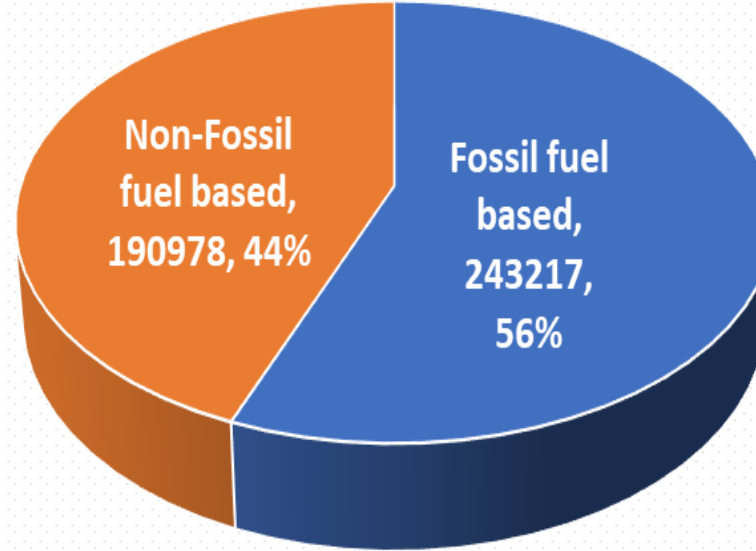
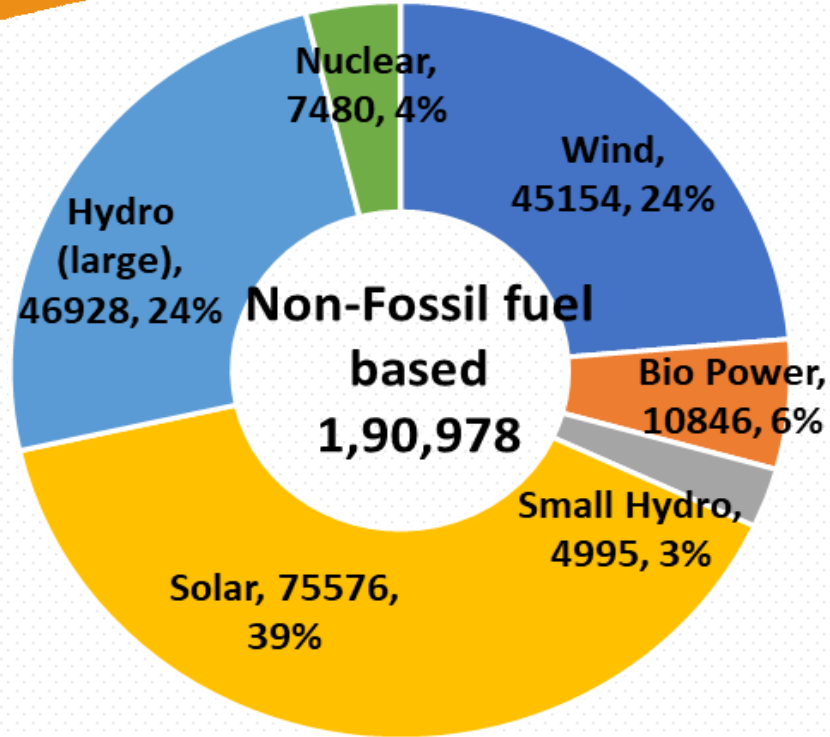




# Status - Indian Electrical Industry April to December 2023

# Status of Installed Generation Capacity

Installed Generation Capacity as on 29 Feb 2024 is 4,34,195 MW



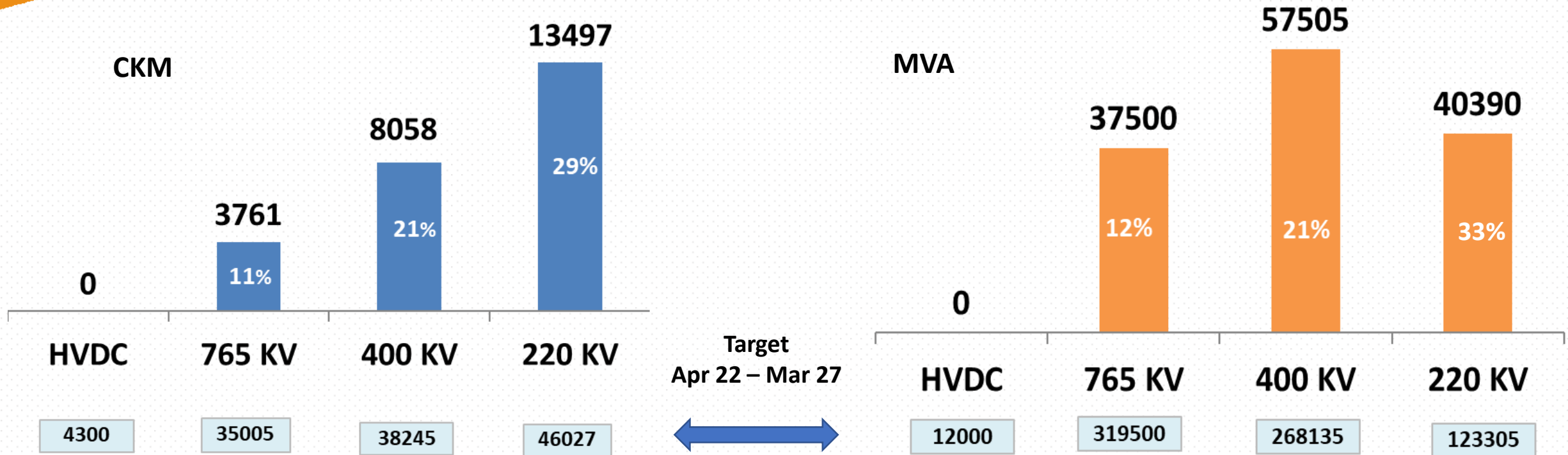
**18,136 MW**  
generation capacity  
added in FY24 till  
Feb 24, 63% is Non-  
Fossil fuel based

Projected Installed Generation Capacity by end of 2026-27 (in MW)

State	Coal	Gas	Hydro	PSP	Nuclear	Wind	Solar	Biomass	Small Hydro	Total	BESS
Total All India	235133	24824	52446	7446	13080	92992	206146	13000	5200	650267	13500

Overall target of addition of capacity in next 3 years – 2,16,072 MW

# Status of Transmission & Substation Achievement during Apr 2022 to Feb 2024



## Estimated Cost of Transmission System during the period 2022-27

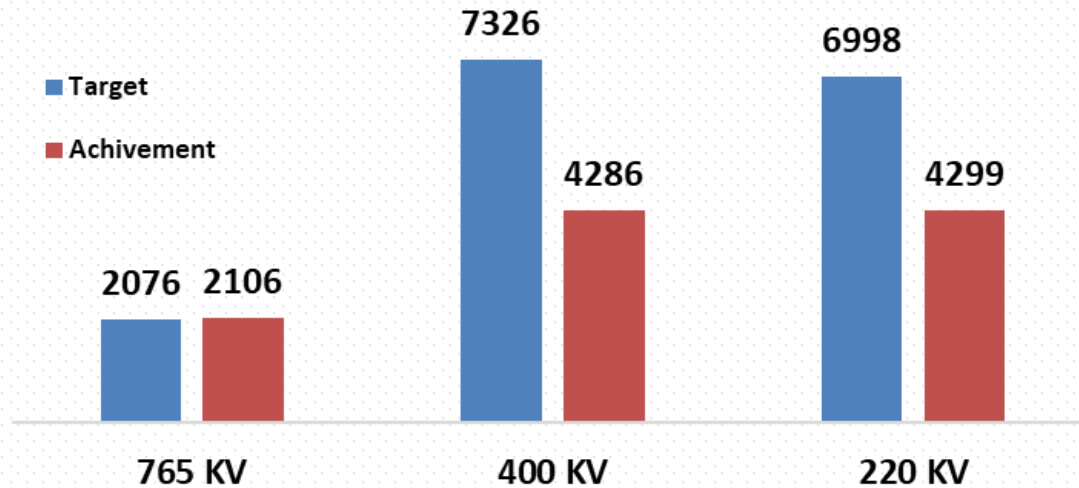
An estimated expenditure of ₹ 4,75,804 crore would be required for implementation of additional transmission system in the country (transmission lines, sub-stations, reactive compensation etc.) during the period 2022-27



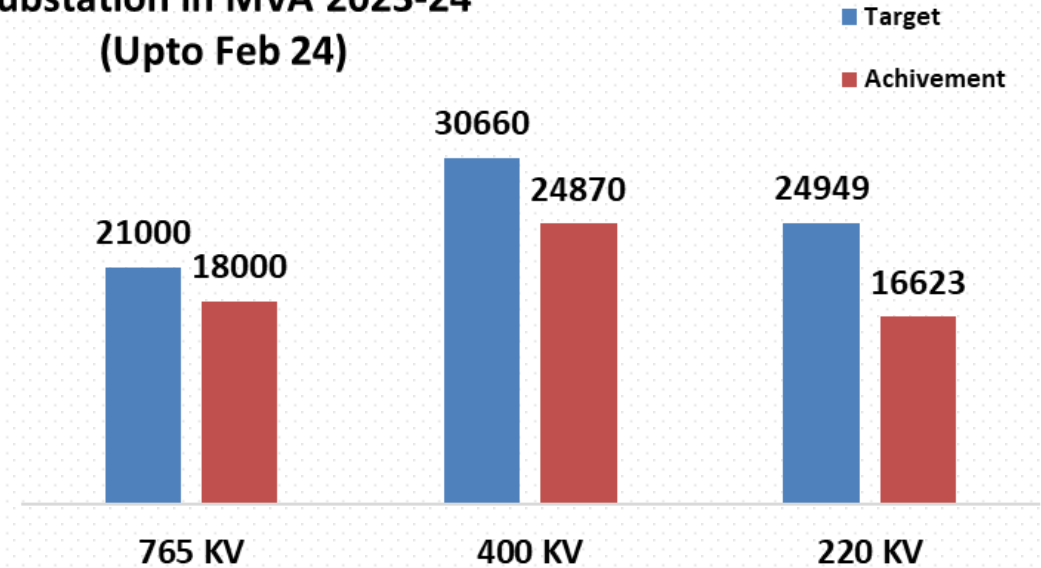
# Status of Transmission & Substation

## Achievement during Apr 2023 to Feb 2024

Transmission Lines in CKM 2023-24  
(Upto Feb 24)



Substation in MVA 2023-24  
(Upto Feb 24)



### Transmission Lines:

10,691 achieved up to Sep 23 against annual target of 16,400 CKM of FY24 (65%)

### Transformation Capacity (Sub-Stations):

59,493 MVA achieved up to Sep 23 against annual target of 76,609 MVA of FY24 (78%)

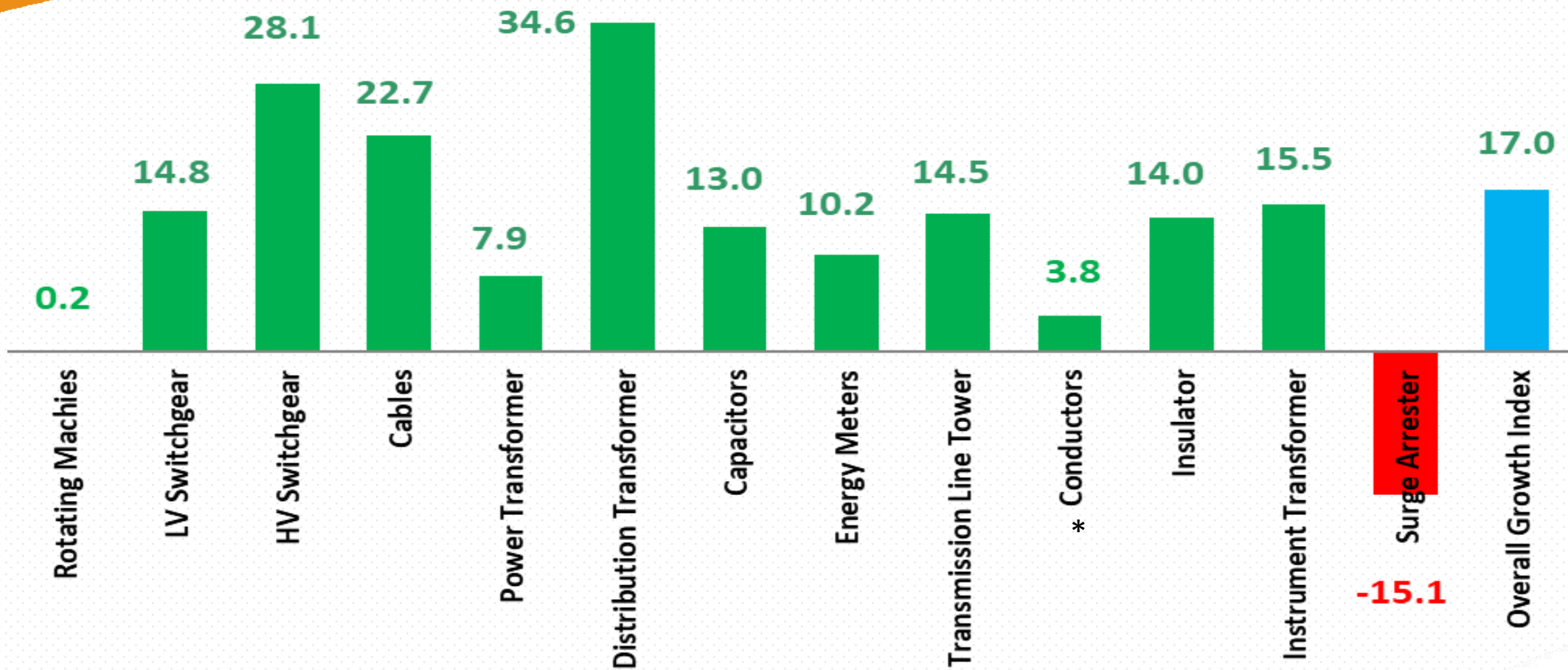
## Distribution plan upto Mar 2025

**Table 4.14: Infrastructure approved under RDSS and the infrastructure proposed by Utilities upto March 2025**

Sr	Description	Unit	Total Addition During 2022-2025	Approved Under RDSS	% Approved
1	<b>Substation Count (66/33/22 kV)</b>	<i>Nos</i>	5462	409.00	7%
2	<b>HT Feeders Length</b>	<i>CKM</i>	505681	273581	54%
3	<b>Distribution Transformer(DT) (11/0.433 KV) count</b>	<i>Nos</i>	1788309	459,718	26%
4	<b>Distribution Transformer(DT) (11/0.433 KV) capacity</b>	<i>MVA</i>	84478	26,609	31%
5	<b>LT Feeders (1-Ph &amp; 3 Ph )</b>	<i>CKM</i>	669630	5446195	81%
6	<b>Capacitor Bank</b>	<i>MVAR</i>	22737	9,021	40%
7	<b>Smart Consumers meters</b>	<i>Nos</i>		19 Crores	

# Growth Index for Electrical Equipment industry

## Apr 2023 – Dec 2023 compared with Apr 2022 – Dec 2022



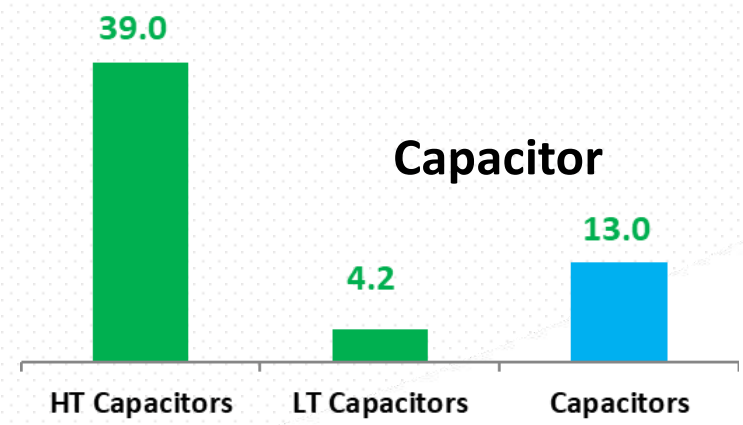
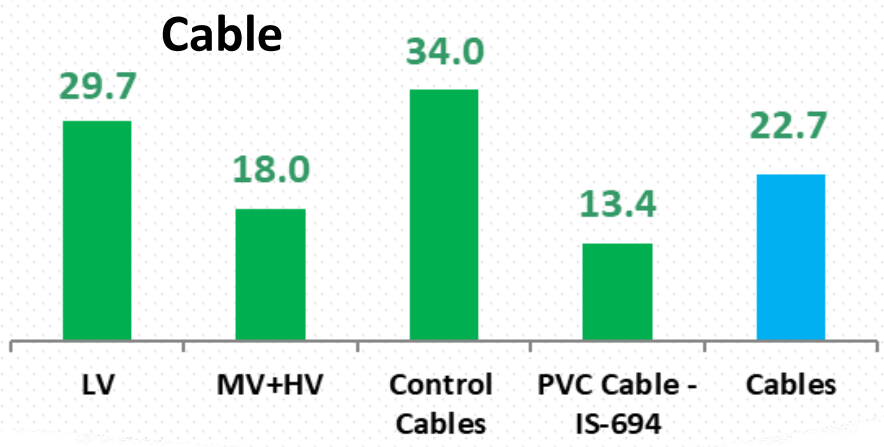
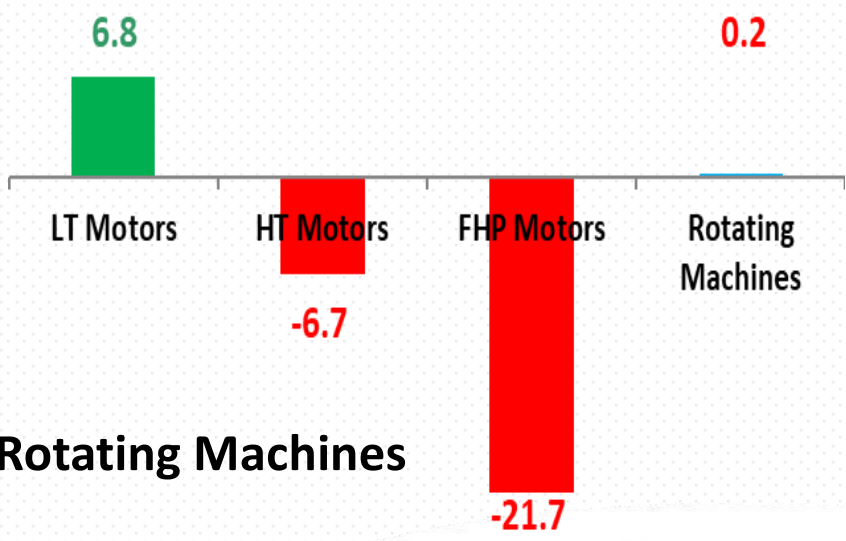
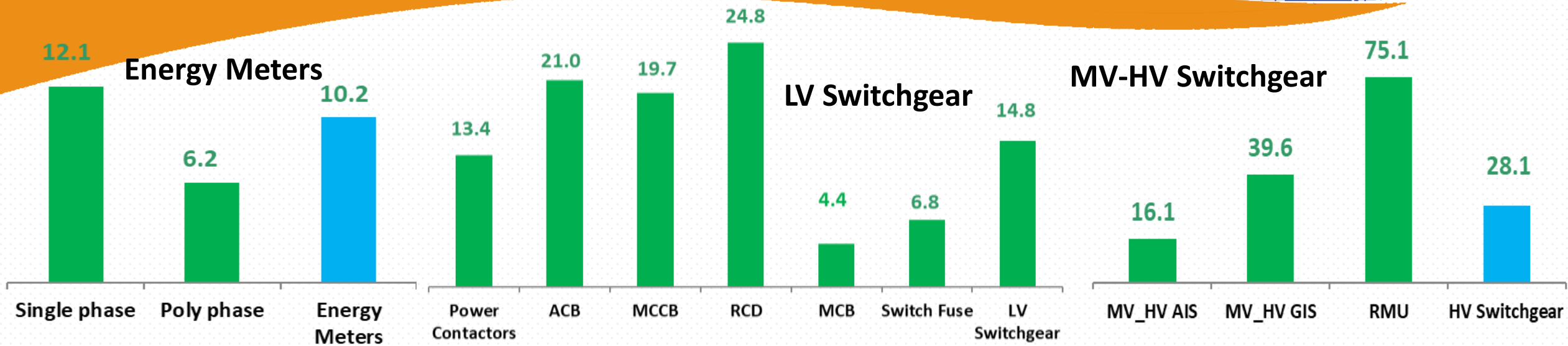
Overall growth seen till Dec 23 except for Surge Arresters

All segments, LV, MV, HV shown growth for most of the products

Production is supported by domestic as well as exports orders, increase for Smart Meters

\***Conductor** growth estimated based on the limited inputs of new technology conductors

# Sector wise break-up of % Growth Index Apr 23 – Dec 23 over Apr 22 – Dec 22



# Detailed Growth Index for Electrical Equipment Industry

Product Category	Apr - Dec 23 compared to Apr - Dec 22	Product Category	Apr - Dec 23 compared to Apr - Dec 22
L.T. Motors	6.8	HT Circuit Breakers - AIS	16.1
FHP Motors	-21.7	MV_HV GIS	39.6
H.T. Motors	-6.7	RMU	75.1
D.C. Machine	-15.9	<b>HV SWGR</b>	<b>28.1</b>
<b>Rotating Machines</b>	<b>0.2</b>	Power Contactors	13.4
Power Cables: LV	29.7	ACB	21.0
Power Cables: MV+HV	18.0	MCCB	19.7
Control Cables & other Special Purpose Cables	34.0	RCD	24.8
PVC Cable - IS-694	13.4	MCB	4.4
<b>Cable</b>	<b>22.7</b>	SDF	6.8
Distribution Transformer	34.6	<b>LVSWGR</b>	<b>14.8</b>
Power Transformer	7.9	<b>Switchgear</b>	<b>17.3</b>
<b>Transformer</b>	<b>22.0</b>	Current Transformer	13.6
Single phase	12.1	Voltage Transformer	19.6
Poly phase	6.2	<b>Instrument Transformer</b>	<b>15.5</b>
<b>Meter</b>	<b>10.2</b>	Polymer	-18.7
Conductors	3.8	Porcelain	-6.4
Transmission Line Towers	14.5	<b>Surge Arrester</b>	<b>-15.1</b>
<b>Tramsmission Lines</b>	<b>8.1</b>	Porcelain	1.3
HT Capacitor	39.0	Composite	55.4
LT Capacitor	4.2	<b>Insulator</b>	<b>14.0</b>
<b>Capacitor</b>	<b>13.0</b>		

**Overall Electrical  
Equipment Industry  
Growth Index**



Apr - Dec 23  
compared to  
Apr - Dec 22  
**17.0**



## Import and Export data

ITC codes	Product Groups	Apr - Dec FY 2023-24		Apr - Dec FY 2022-23		April - Dec FY 24 Vs FY 23		Domestic % Growth April - Dec FY 24 Vs FY 23
		Import	Export	Import	Export	Import	Export	
		Value in Rs. Crores		Value in Rs. Crores		% Variation		
8501 excl. 850110 & 20	Motors & AC Generators	5894	3605	5452	3109	8	16	0.2
850423	Power TRF	64	824	189	769	-66	7	7.9
850421-22, 850433-34	Distribution TRF	842	2911	496	1875	70	55	34.6
853210	Capacitors	454	328	537	248	-15	32	13.0
8535, 853720	HV SWGR incl. Panels	1359	2204	1022	1216	33	81	28.1
8536, 853710	LT Switchgears incl Panels #	13913	10088	12070	6032	15	67	14.8
854442/49/60	Cables - LV & HV	1593	6121	1132	4875	41	26	22.7
902830	Energy Meters	42	234	28	258	50	-9	10.2
73082011/19	Tr. Line Towers	13	2653	32	3298	-59	-20	14.5
7604 & 7614	Conductors	685	4318	622	3908	10	10	3.8

- Import – top countries - China, Germany, Singapore, Korea
- Export – top countries - USA, UK, UAE

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