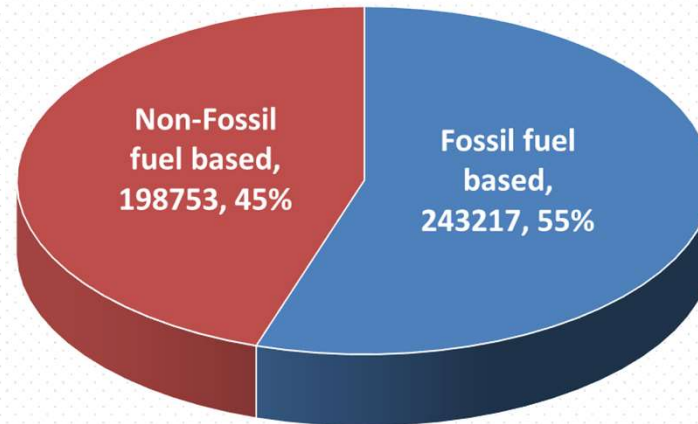
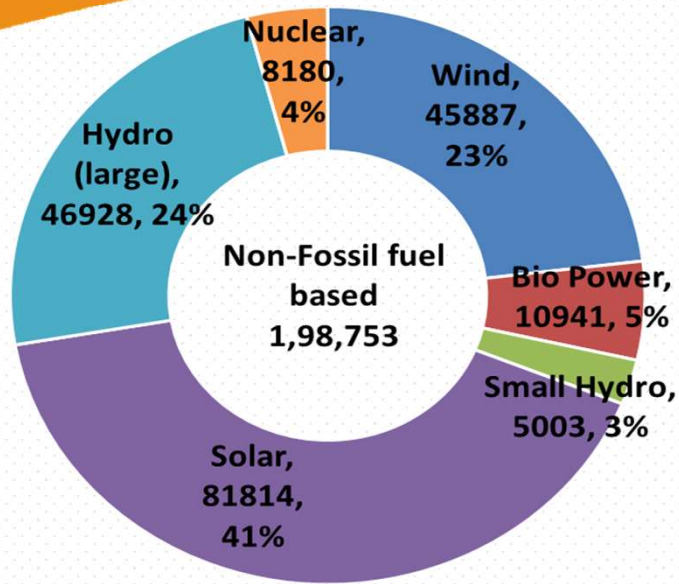




Status - Indian Electrical Industry April to March 2024

Status of Installed Generation Capacity

Installed Generation Capacity as on 31 Mar 2024 is 4,41,970 MW



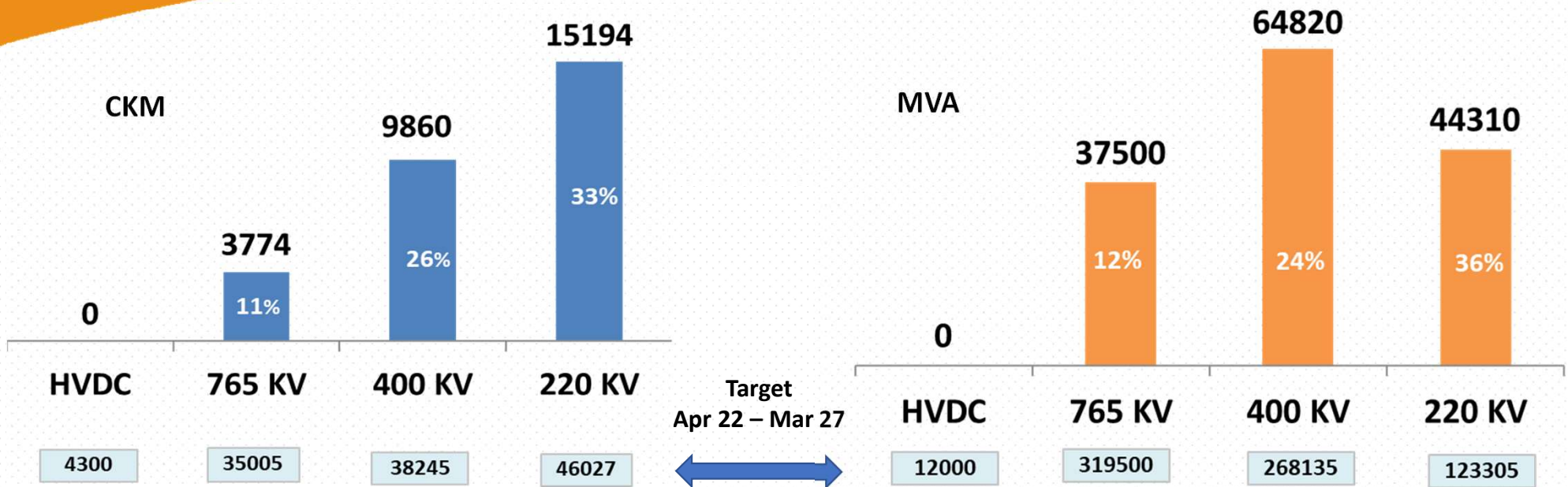
18,563 MW
generation capacity
added in FY24, 72%
is Non-Fossil fuel
based

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 Mar 2024



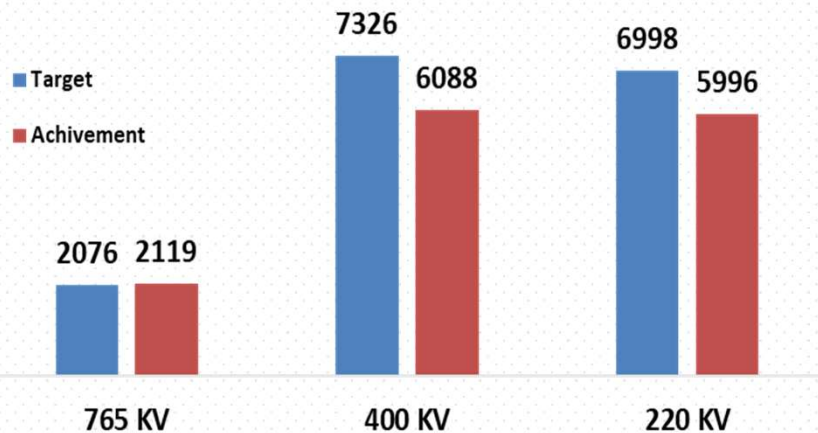
Transmission System augmentation required during the period 2022-27

About 1,23,577 ckm of transmission lines and 7,10,940 MVA of transformation capacity in the substations (at 220 kV above voltage levels) are required to be added during the period 2022-2027



Status of Transmission & Substation Achievement during Apr 2023 to Mar 2024

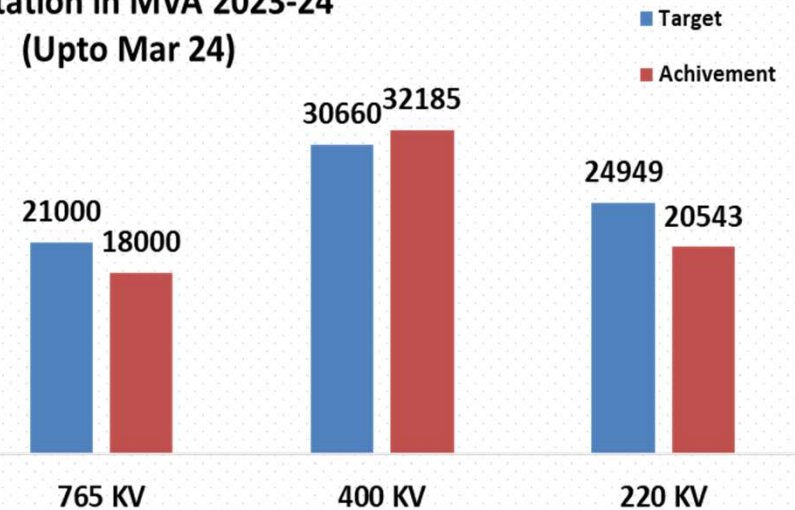
**Transmission Lines in CKM 2023-24
(Upto Mar 24)**



Transmission Lines:

14,203 achieved up to Mar 24 against annual target of 16,400 CKM of FY24 (87%)

**Substation in MVA 2023-24
(Upto Mar 24)**



Transformation Capacity (Sub-Stations):

70,728 MVA achieved up to Mar 24 against annual target of 76,609 MVA of FY24 (92%)

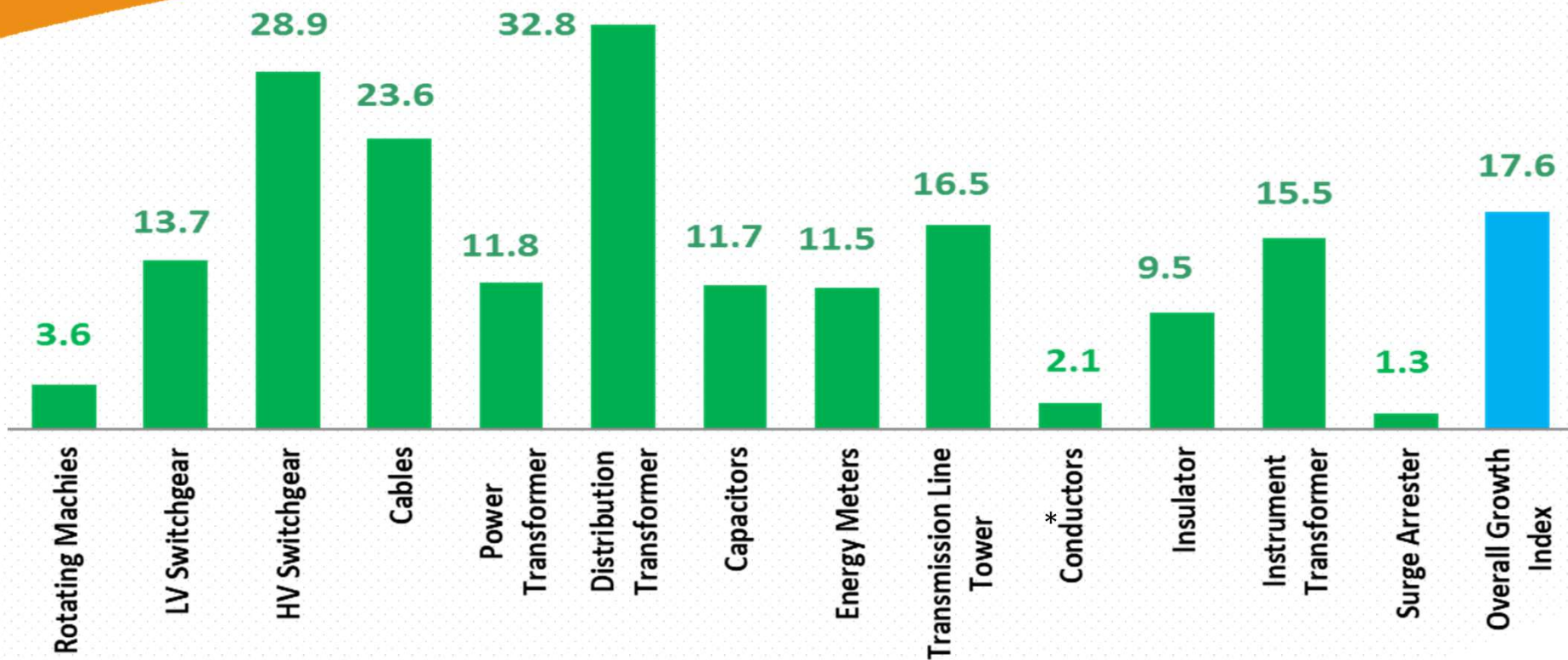


Distribution plan up to Mar 2030

Table 4.13: Summary of Distribution infrastructure available in March 2022 and proposed upto March 2030

Sr	Description	Unit	March-22	March-30
1	Substation Count (66/33/22 kV)	<i>Nos</i>	39,965	52,157
2	Substation Capacity (66/33/22 kV)	<i>MVA</i>	482810	624332
3	Feeders (66/33/22kV) Count	<i>No</i>	36,804	54,639
4	Feeders (66/33/22kV) Length	<i>CKM</i>	589304	777994
5	Feeders (11kV) Nos	<i>Nos</i>	230979	323899
6	Feeders (11kV) Length	<i>CKM</i>	4935279	5903782
7	Distribution Transformer(DT) count	<i>Nos</i>	14674261	19332115
8	Distribution Transformer(DT)	<i>MVA</i>	689192	927656
9	LT Feeders (1-Ph & 3 Ph)	<i>CKM</i>	7945758	9774634
10	Capacitor Bank	<i>MVAR</i>	59,255	105209
11	Consumers	<i>Nos</i>	33 Crs	52 Crs

Growth Index for Electrical Equipment industry Apr 2023 – Mar 2024 compared with Apr 2022 – Mar 2023



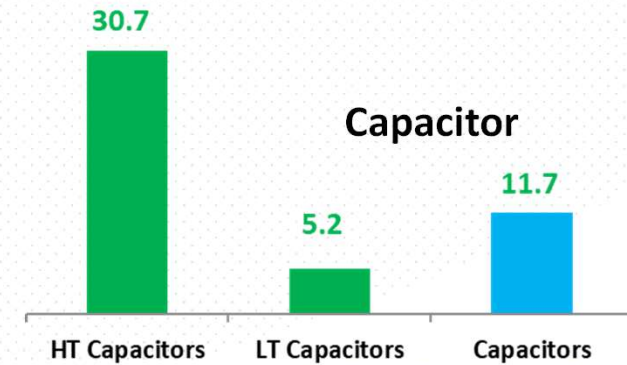
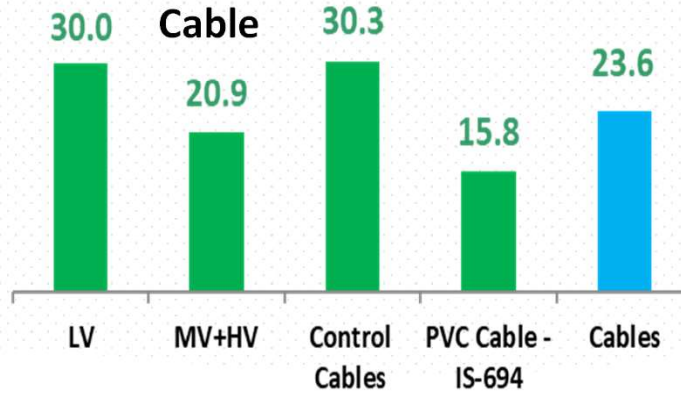
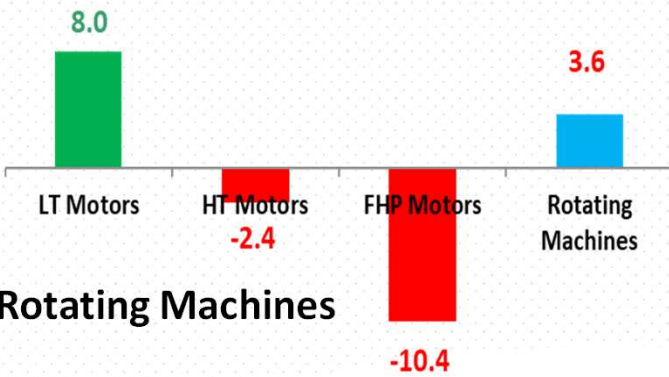
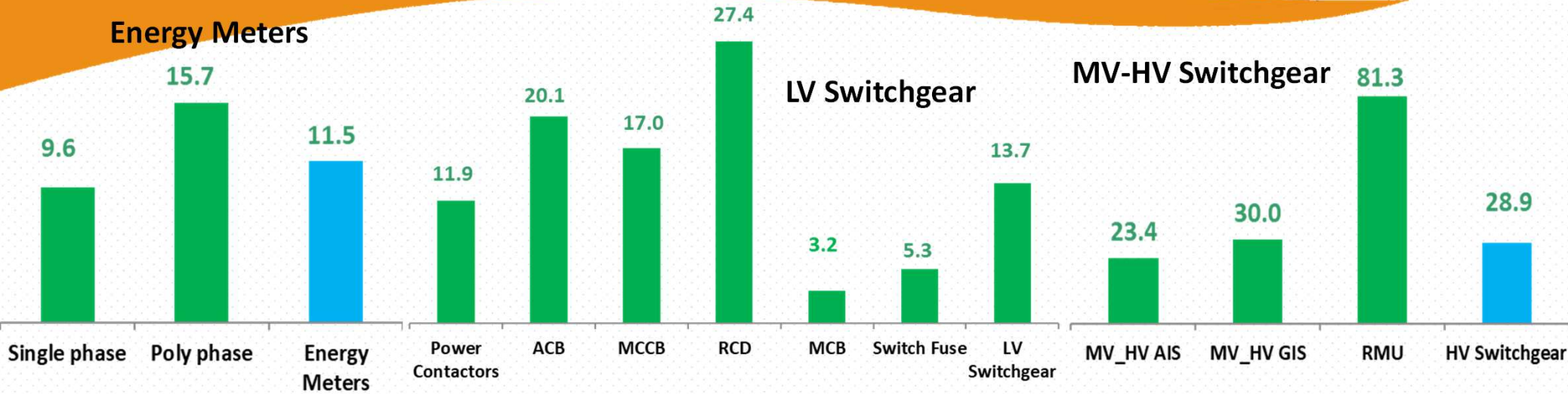
All segments, LV, MV, HV shown growth for most of the products

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 – Mar 24 over Apr 22 – Mar 23

Energy Meters



Detailed Growth Index for Electrical Equipment Industry

Product Category	Apr - Mar 24 compared to Apr - Mar 23	Product Category	Apr - Mar 24 compared to Apr - Mar 23
L.T. Motors	8.0	HT Circuit Breakers - AIS	23.4
FHP Motors	-10.4	MV_HV GIS	30.0
H.T. Motors	-2.4	RMU	81.3
D.C. Machine	-0.7	HV SWGR	28.9
Rotating Machines	3.6	Power Contactors	11.9
Power Cables: LV	30.0	ACB	20.1
Power Cables: MV+HV	20.9	MCCB	17.0
Control Cables & other Special Purpose Cables	30.3	RCD	27.4
PVC Cable - IS-694	15.8	MCB	3.2
Cable	23.6	SDF	5.3
Distribution Transformer	32.8	LVSWGR	13.7
Power Transformer	11.8	Switchgear	16.5
Transformer	22.9	Current Transformer	17.6
Single phase	9.6	Voltage Transformer	11.0
Poly phase	15.7	Instrument Transformer	15.5
Meter	11.5	Polymer	1.2
Conductors	2.1	Porcelain	1.6
Transmission Line Towers	16.5	Surge Arrester	1.3
Tramsmission Lines	8.0	Porcelain	3.4
HT Capacitor	30.7	Composite	29.2
LT Capacitor	5.2	Insulator	9.5
Capacitor	11.7		

**Overall Electrical
Equipment Industry
Growth Index**



Apr - Mar 24
compared to
Apr - Mar 23

17.6

Quarterly Growth Index for Electrical Equipment Industry

Product	Q1 FY 24 compared to Q1 FY 23	Q2 FY 24 compared to Q2 FY 23	Q3 FY 24 compared to Q3 FY 23	Q4 FY 24 compared to Q4 FY 23
Rotating Machines	-4.9	3.0	4.1	15.3
LV Switchgear	8.7	15.1	22.2	10.7
HV Switchgear	20.9	14.1	34.1	50.4
Cables	24.0	23.0	21.3	26.1
Power Transformers	-3.4	18.3	13.8	25.6
Dist Transformers	60.3	55.5	14.8	35.1
Capacitors	10.5	-5.7	37.8	10.1
Energy Meters	44.8	18.0	-12.9	16.7
Transmission Lines	33.8	12.5	8.2	20.7
Conductors	-4.2	-33.1	-29.9	-1.0
Insulators	17.8	20.3	16.9	4.6
Electrical Equipment Industry Growth Index	18.0	16.0	13.9	21.0

Import and Export data

ITC codes	Product Groups	Apr - Mar FY 2023-24		Apr - Mar FY 2022-23		April - Mar FY 24 Vs FY 23		Domestic % Growth April - Mar 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	7787	4899	7435	4292	5	14	3.6
850423	Power TRF	71	1090	212	949	-67	15	11.8
850421-22, 850433-34	Distribution TRF	968	3998	604	2607	60	53	32.8
853210	Capacitors	557	431	682	340	-18	27	11.7
8535, 853720	HV SWGR incl. Panels	1406	3037	1397	2650	1	15	28.9
8536, 853710	LT Switchgears incl Panels #	20185	13925	16646	12401	21	12	13.7
854442/49/60	Cables - LV & HV	2158	8005	1734	6890	24	16	23.6
902830	Energy Meters	59	375	45	349	31	7	11.5
73082011/19	Tr. Line Towers	33	3690	41	2375	-20	55	16.5
7604 & 7614	Conductors	945	5881	797	5504	19	7	2.1

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

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