

Cu

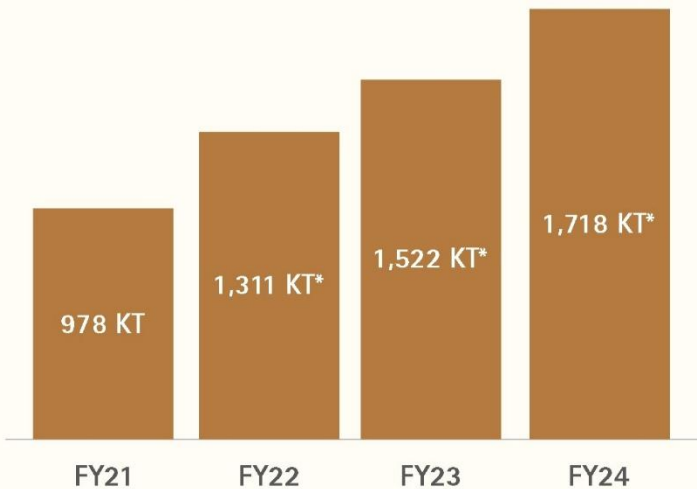
International Copper
Association

ANNUAL UPDATE STUDY ON COPPER DEMAND IN INDIA (FY24)

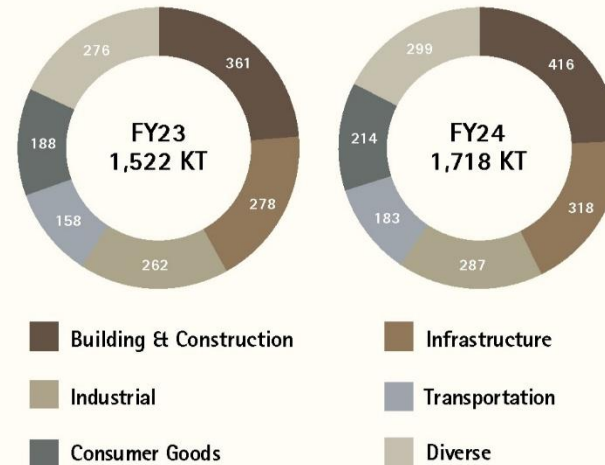
DECEMBER 2024



Copper demand grows by 13% y-o-y in FY24



India Copper Demand in FY23 vs FY24



What's Driving Copper Demand?



Building Construction

- Changing practice of using right size of copper wires and cables for safety in buildings
- Construction GVA grew 9.9% in FY24
- Demand for premium & luxury housing grew by 75%



Infrastructure

- 21% y-o-y growth in renewable energy capacity addition
- Increased demand for copper cables and transformers in T&D sector



Industrial

- Various favourable government initiatives and policy led to 9.9% growth in manufacturing GVA



Transportation

- Changing product mix in 4W cars and preference for top-end models
- EVs sales increased by 41% in FY24, primarily driven by electric 2W and 3W



Consumer Durables

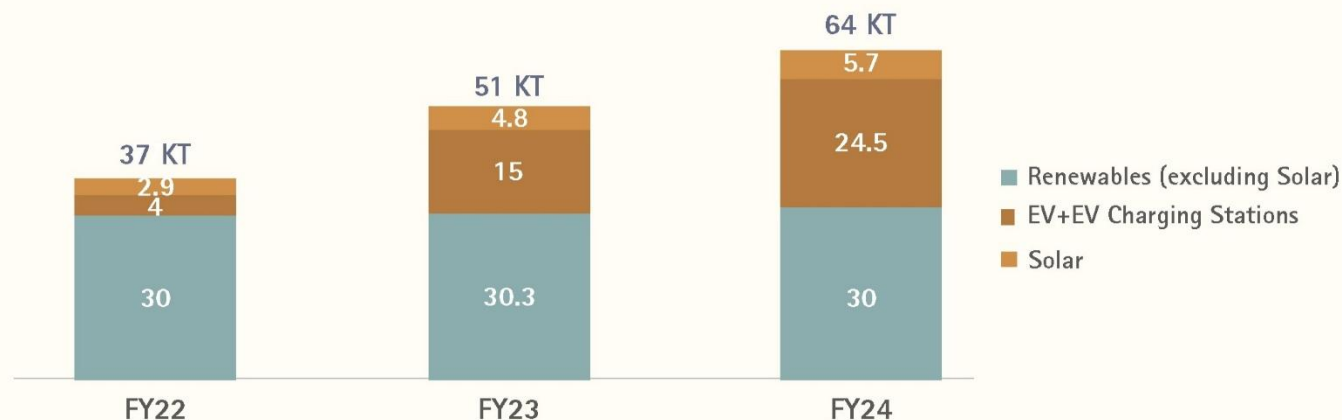
- Acs registered 19% y-o-y growth reaching 11.5 mn units
- Cu density increased in domestic fans driven by mandatory Star Labelling program



Diverse

- Demand for agri-pumps grew by 7% y-o-y with solar agri pumps growing by 18%
- Demand of copper in coins, household accessories, artefacts, utensils etc grew by double digit

Copper demand in net zero transition (KT)



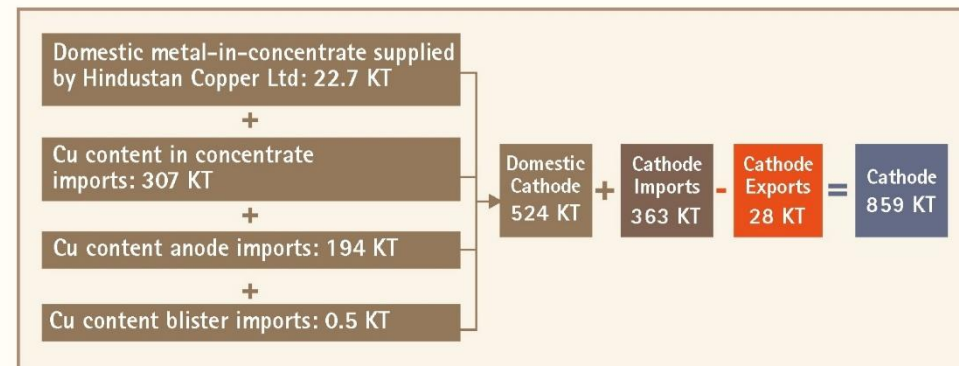
Note:

- The classifications have been improvised in FY24 as per global standards. In the previous versions, high efficiency applications like IE3 & IE4 motors and 5-star-rated appliances were also considered

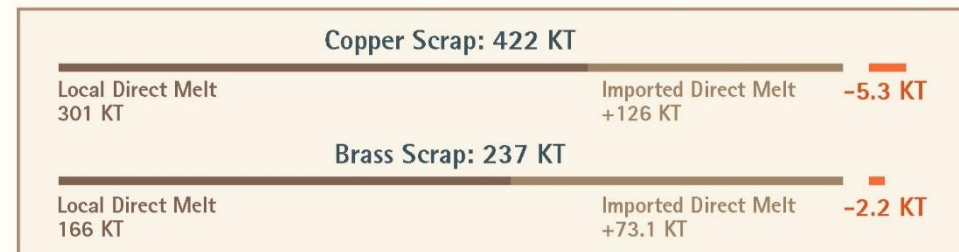
*- Demand includes copper in finished goods imports based on analysis of more than 300 HS codes and also copper demand from after market rewinding

20% jump in copper rods consumption and a 12% surge in pipes & tubes consumption seen over FY24

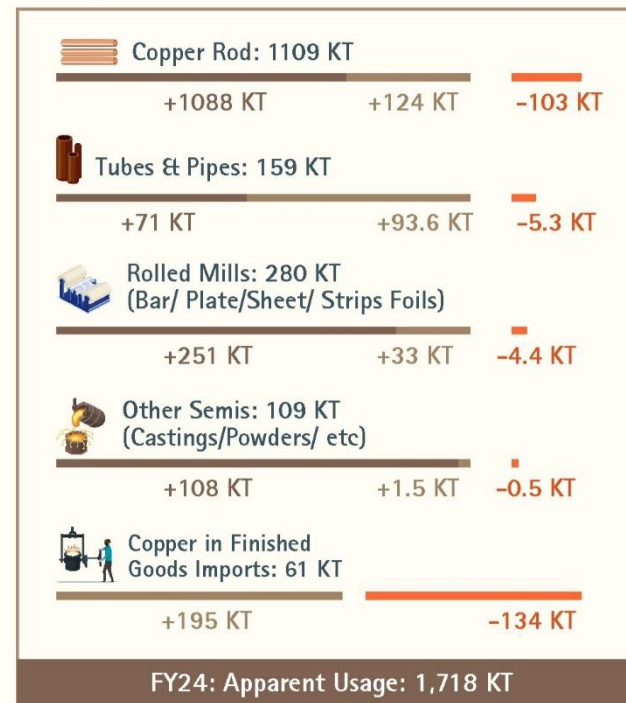
Refined Cu



Secondary Cu



■ Production + ■ Import - ■ Export



KEY TAKEAWAY

Supply Side



Constrained domestic copper cathode supply in FY24 resulted in

- Net imports of cathode grew by 103%
- Secondary copper (mostly direct melt) grew by 15%

Demand Side



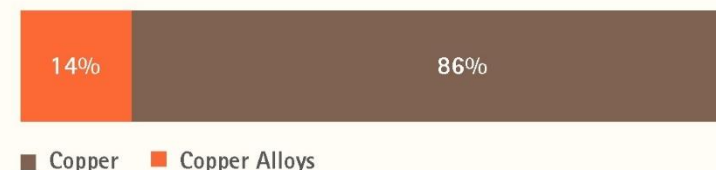
India's copper demand grew by 13% in FY24 driven by :

- Improving standard of living and higher disposable income leading to increased demand in building construction, consumer goods and automobile sector
- Favourable government initiatives and public & private investment fuelling the growth in infrastructure and industrial sector
- Copper demand in net zero transition technology contributes 4% to total copper demand but grew by 27%

Supply of secondary copper to total demand grew to 38.4% vs 38% in FY23

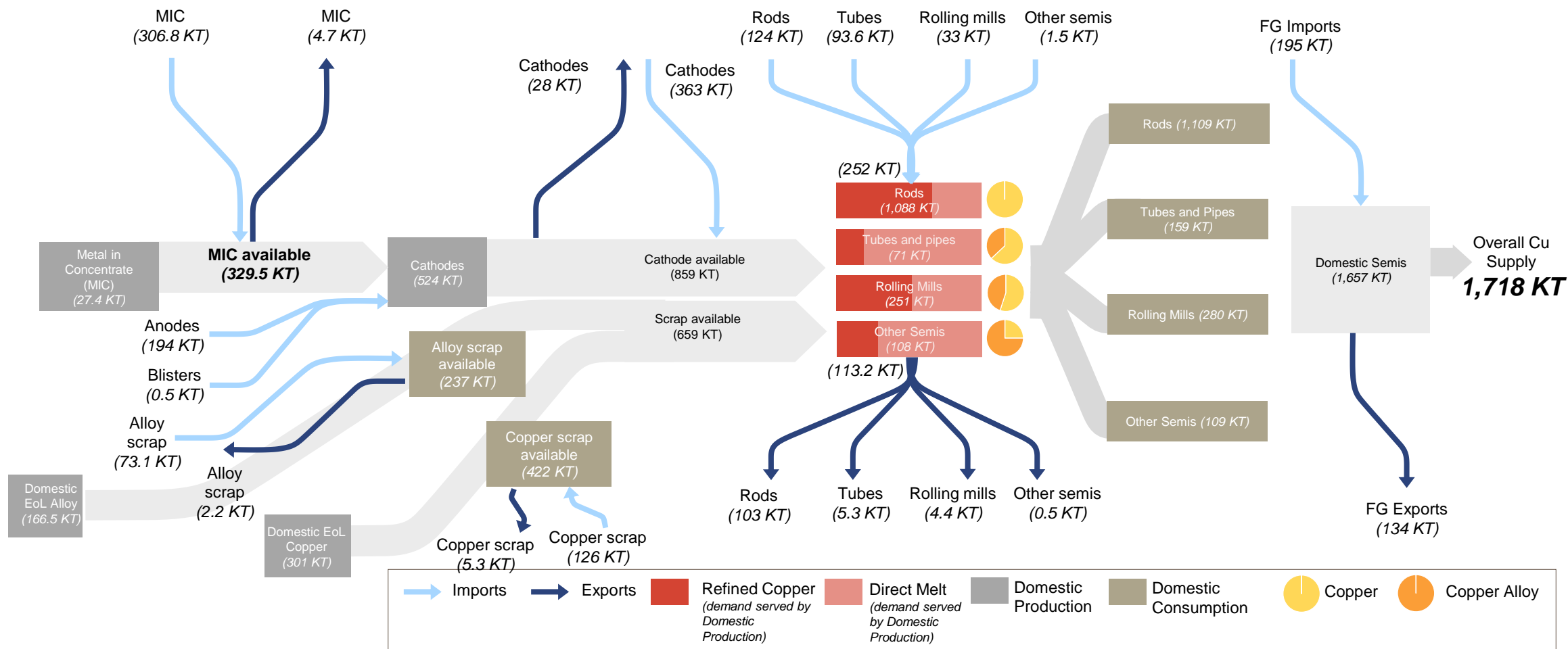


Copper alloys catered to 14% of copper demand in FY24



Note: Product segments updated within Foils (PCB and copper tapes), Cast (Gas stoves, Doors & Knobs, Kitchenware)

Copper Demand & Supply by Semis



Copper Demand includes usage of Primary and Secondary Copper | Includes usage of Copper and Copper alloys | All KT in Cu terms, Note: MIC - Metal in Concentrate, EoL - End-of-Life

Supply side analysis – Primary feedstock

Copper	FY23 (kT)	FY24 (kT)
Concentrate Supply (MIC)	332	329
<i>Domestic Concentrate (MIC)</i>	<i>25</i>	<i>27</i>
<i>Imports</i>	<i>307</i>	<i>306</i>
<i>Exports</i>	<i>-</i>	<i>5</i>
Anode imports	180	194
Blisters imports	51	1
Cathode Supply	728	859
<i>Domestic Cathode</i>	<i>563</i>	<i>524</i>
<i>Imports</i>	<i>175</i>	<i>363</i>
<i>Exports</i>	<i>10</i>	<i>28</i>

MIC - Metal in Concentrate

Supply side analysis – Secondary feedstock

Copper & Alloy scrap	FY23 (kT)	FY24 (kT)
Copper scrap (Copper content)	352	422
<i>Domestic EoL</i>	<i>273</i>	<i>301</i>
<i>Imports</i>	<i>86</i>	<i>126</i>
<i>Exports</i>	<i>7</i>	<i>5</i>
Alloy scrap (Copper content)	226	237
<i>Domestic EoL</i>	141	167
<i>Imports</i>	<i>87</i>	<i>73</i>
<i>Exports</i>	<i>2</i>	<i>2</i>
Total scrap supply (Copper content)	578	659

EoL – End of Life

Supply side analysis – Semis (1/2)

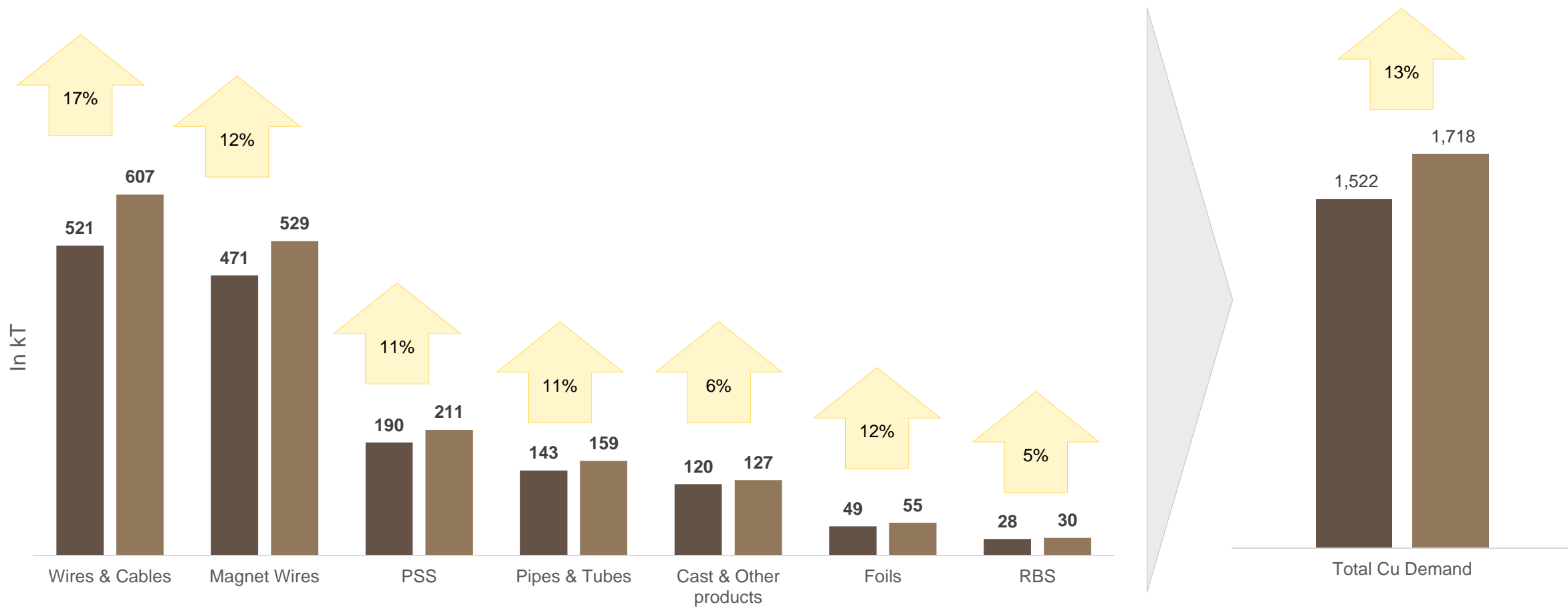
Copper Semis	FY23 (kT)	FY24 (kT)
Rod Supply	963	1109
<i>Domestic production</i>	898	1088
<i>Imports</i>	96	124
<i>Exports</i>	31	103
Tube Supply	142	159
<i>Domestic production</i>	65	71
<i>Imports</i>	85	94
<i>Exports</i>	8	5

Supply side analysis – Semis (2/2)

Copper Semis	FY23 (kT)	FY24 (kT)
Rolling Mill Supply	265	280
<i>Domestic production</i>	<i>241</i>	<i>251</i>
<i>Imports</i>	<i>28</i>	<i>33</i>
<i>Exports</i>	<i>4</i>	<i>4</i>
Cast and other semis Supply	98	109
<i>Domestic production</i>	<i>98</i>	<i>108</i>
<i>Imports</i>	<i>0.4</i>	<i>1.5</i>
<i>Exports</i>	<i>0.2</i>	<i>0.5</i>

Copper Demand by Forms

Wires & cables indicate the highest increase in copper demand (17%) over FY23



Note: PSS – Plate, sheets & strips; RBS – Rod bar section

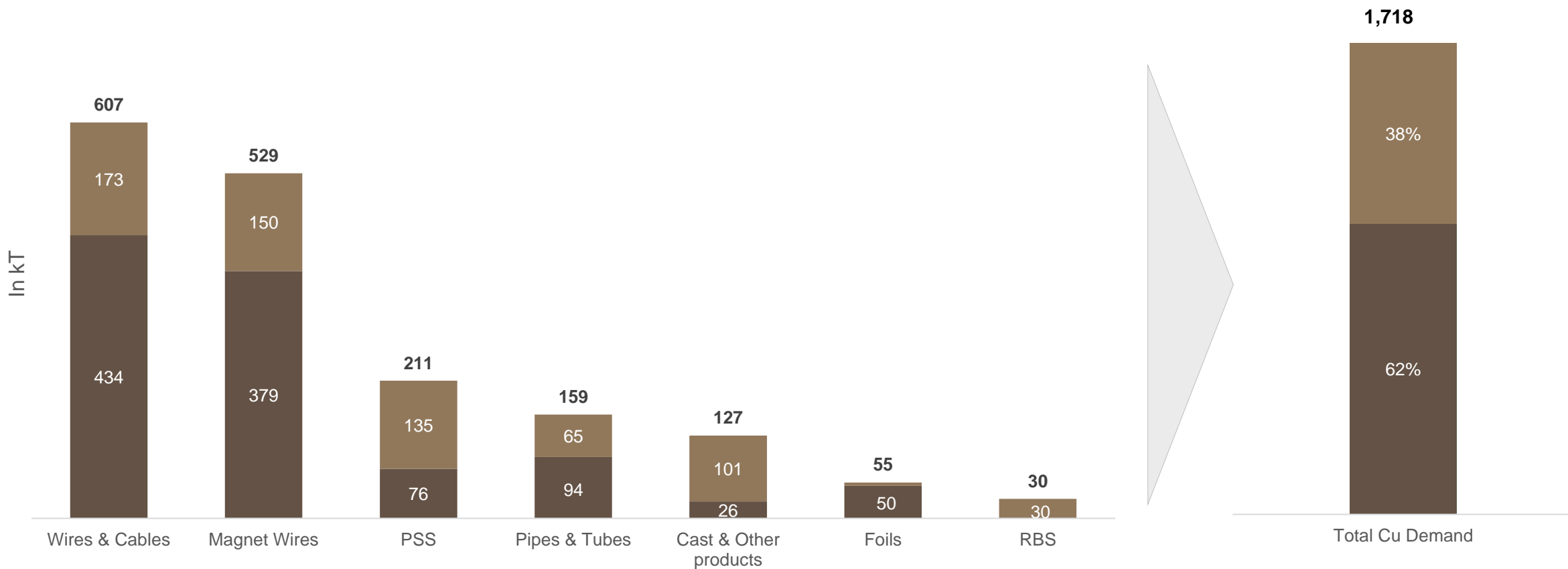
Cu

FY23 FY24

↑ Growth rate over FY23

Refined vs Direct Melt

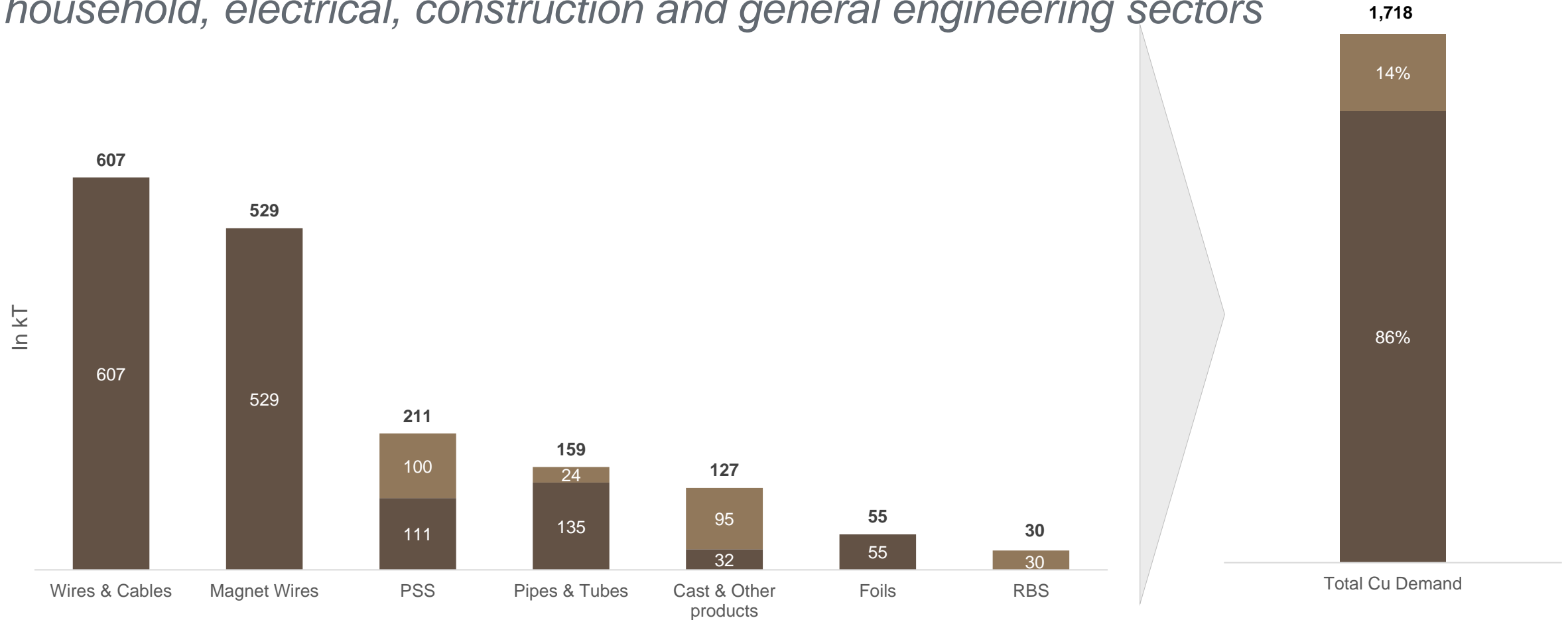
The share of direct melt has marginally increased from 38% to 38.4% in FY24



Note: PSS – Plate, sheets & strips; RBS – Rod bar section

Copper vs Alloy

14% of the consumption takes place using Cu alloys – mainly brass used in household, electrical, construction and general engineering sectors



Note: PSS – Plate, sheets & strips; RBS – Rod bar section

Key takeaways

1

Direct melt proportion to total Copper demand remains similar in FY2024

- Import of copper scrap has grown by 47% from 86 KT in FY23 to 126 KT in FY24
- The proportion of direct melt increased marginally to 38.4% in FY24, from 38% in FY23
- Cu content in multi-metal scrap amounts to 48 kT

2

Cathode imports have surged by ~107% in FY24

- The rise in demand in FY24 has been accommodated by an increase in cathode imports from 176 KT in FY23 to 363 KT in FY24
- Surge seen in semis imports, such as pipes and tubes (from 85KT in FY23 to 94 KT in FY24) & rods (from 96KT in FY23 to 124 KT in FY24)

3

12.9% growth in Copper demand

- Manufacturing PMI index at an all-time high (59.1), coupled with manufacturing and construction GVA growing at 9.9%, respectively, have fueled growth in the industry
- Renewable energy capacity addition, growing penetration of EVs, and charging infrastructure are among the emerging drivers