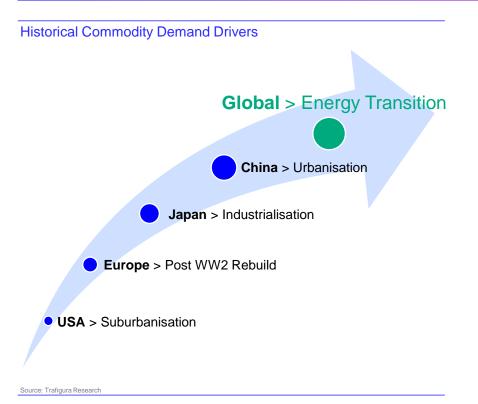
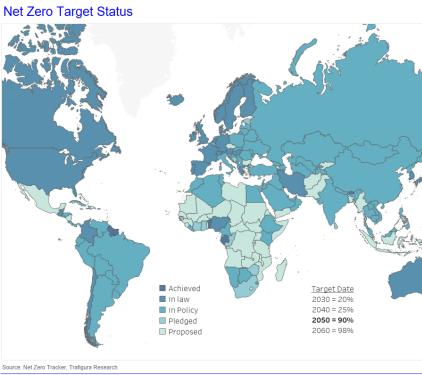


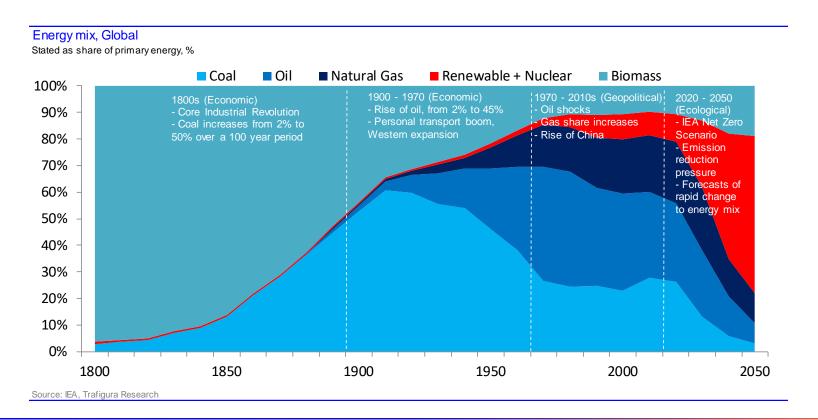
The purpose of this presentation is to guide programs benefiting the copper industry and to provide attendees with information to make independent business decisions.

The energy transition has established the next long term demand cycle

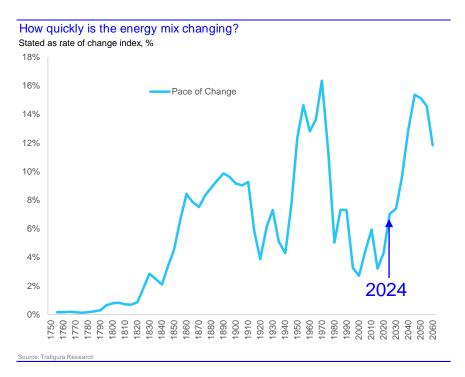


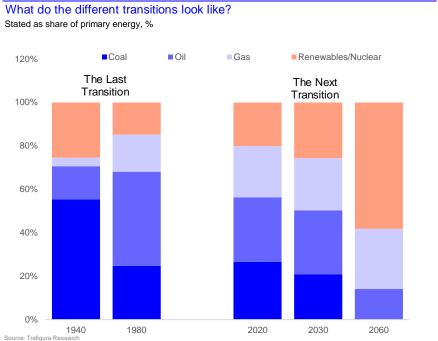


Energy sources have transitioned several times in the past 200 years



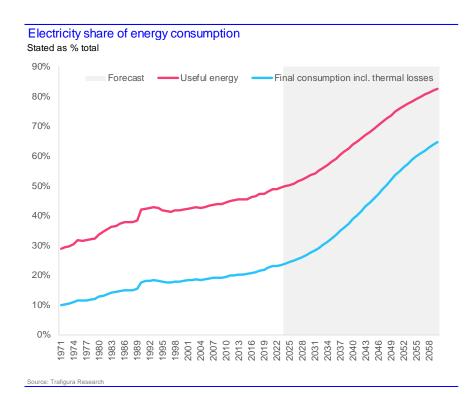
A fast change in the global energy mix is needed in order to decarbonise

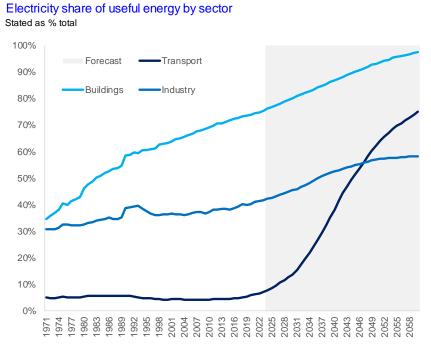




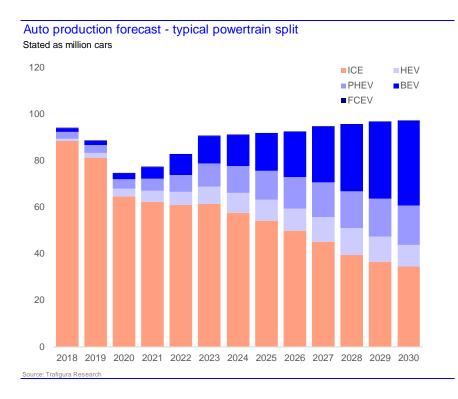
The pace of electrification will increase - transportation being the step-change

Source: Trafigura Research

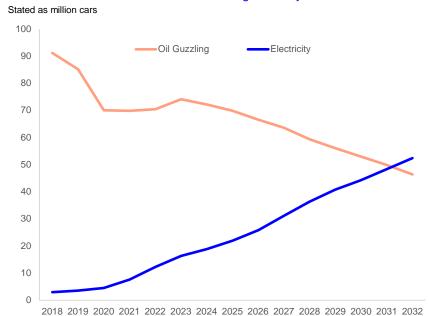




ICE production is falling but most new cars are still using oil



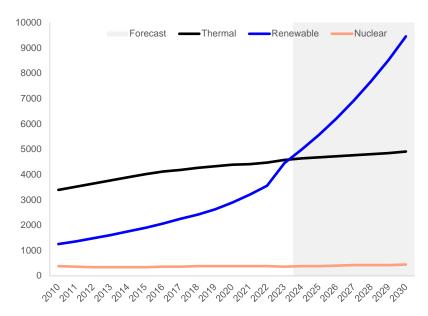




Source: Trafigura Research

Renewable capacity now exceeds thermal – but low utilisation rates a problem

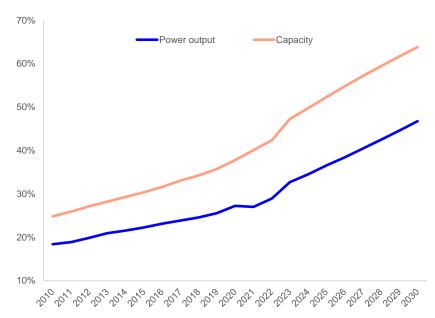




Source: Trafigura Research, IEA Net Zero, TSE, BP, BNEF

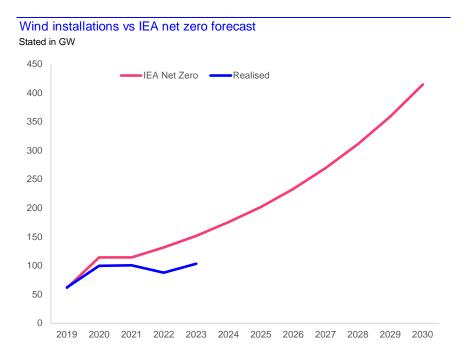


Stated in % total



Source: Trafigura Research, IEA Net Zero, TSE, BP, BNEF

The world is accelerating its renewable installations - especially solar

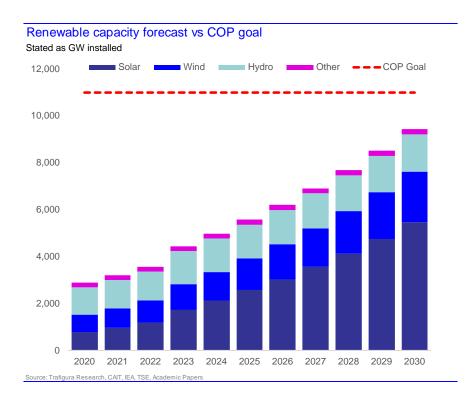


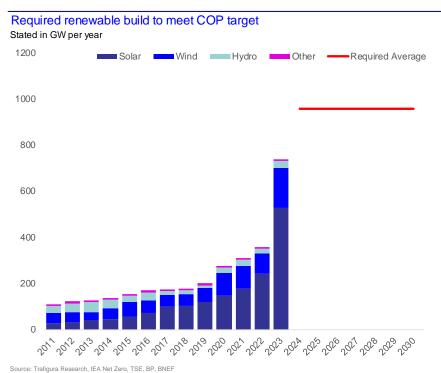


Source: Trafigura Research, IEA Net Zero, TSE, BP, BNEF

Source: Trafigura Research, IEA Net Zero, TSE, BP, BNEF

Is the COP renewables goal achievable? Yes, but it won't be easy

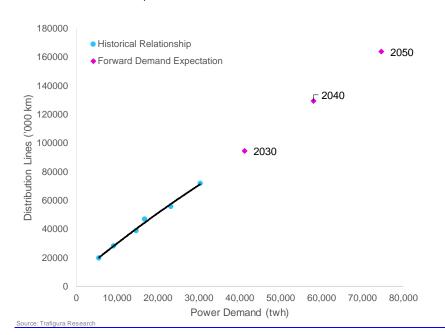




Electrification set to double power demand - and double the number of wires and cables

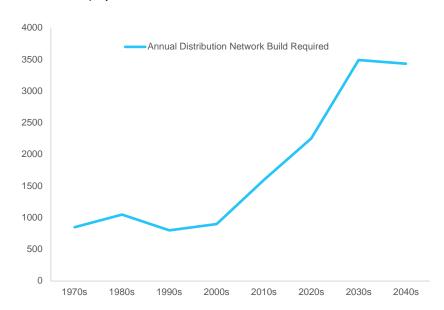
Impact of power demand on distribution cable requirements

Stated as '000kms of installed power lines



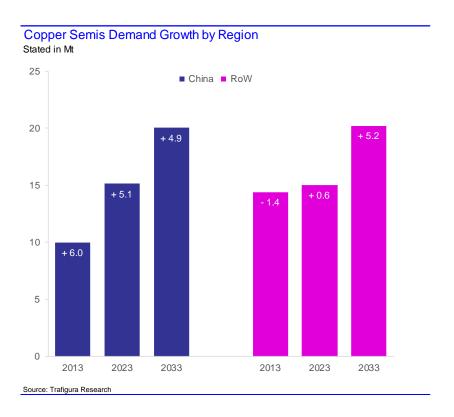
Annual distribution grid building requirement

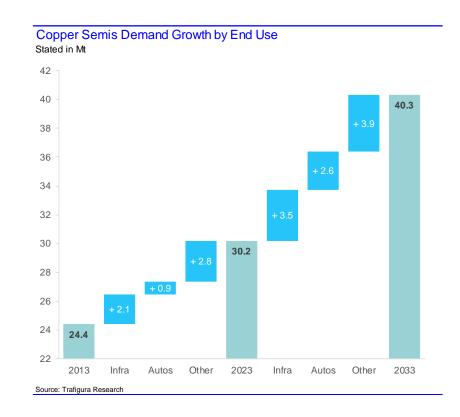
Stated as '000 km per year



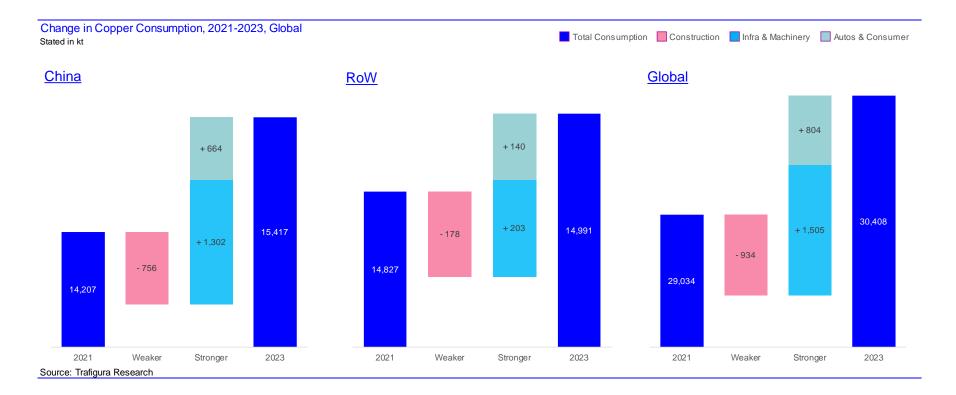
Source: Trafigura Research

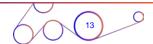
This demand cycle is global in nature - metals are no longer just a China story



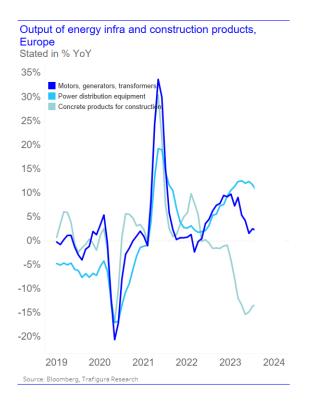


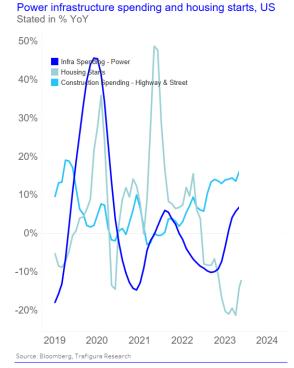
Energy transition sectors have already been an offset to weaker cyclical sectors





In 2023, dynamics in major consuming regions looked quite similar...











...but they look less similar in 2024 - policy approach is becoming a key differentiator

