An aerial photograph of a wind farm. Several large white wind turbines with three blades each are positioned on a lush green hillside. The blades have red tips. In the background, there are rolling green hills, a valley with a small town, and a range of mountains under a clear sky. The overall scene is bright and sunny, suggesting a clear day.

**CRU**

Data, Insight,  
Strategy &  
Communities

# Energy Transition and Decarbonisation

# Navigate the *energy transition* with next-level intelligence

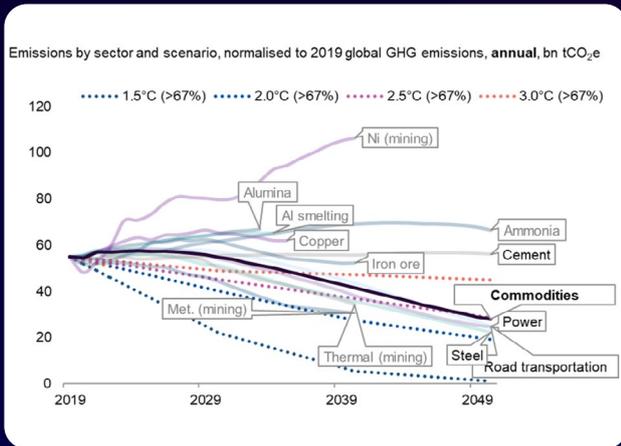
The energy transition is reshaping commodity markets, supply chains and asset competitiveness. Whether driven by regulation, technology disruption or shifting customer demands, these forces are transforming business fundamentals. CRU's Energy Transition and Decarbonisation intelligence provides the comprehensive analysis of how policy shifts, clean technologies, carbon pricing and market dynamics will impact your business.

Underpinned by CRU's deep expertise in commodity markets and over 50 years of rigorous analysis, our intelligence connects energy transition drivers with real-world implications for assets, costs, demand and investment across steel, aluminium, fertilizers, copper, battery materials and other critical commodities.

Whether you are managing regulatory compliance, assessing competitive positioning, evaluating clean technology investments or navigating carbon pricing and policy, CRU can provide the independent, defensible analysis needed for confident decisions.



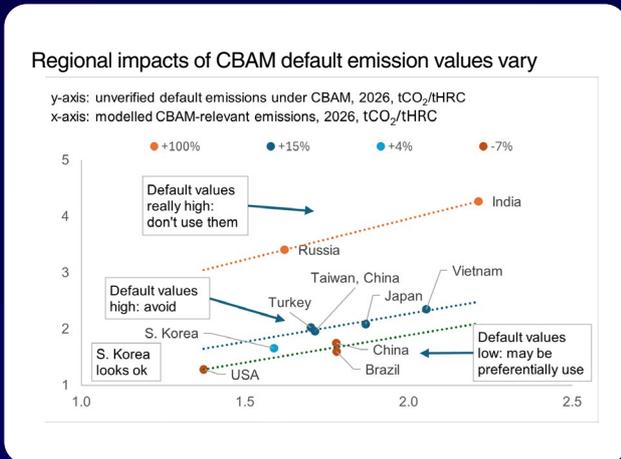
## Understand where global emissions are heading



CRU tracks approximately 28 billion tonnes of CO<sub>2</sub> annually, representing around 60% of global non-land-use emissions. Our asset- and sector-level modelling provides granular insight into where industries stand against regulatory requirements, emissions reduction pathways and evolving compliance standards.

Benchmark your sector and assets against global trajectories and regulatory scenarios, understand what different policy pathways mean for your business, and build credible narratives for investors, lenders and regulators.

## Master the policy and carbon pricing landscape

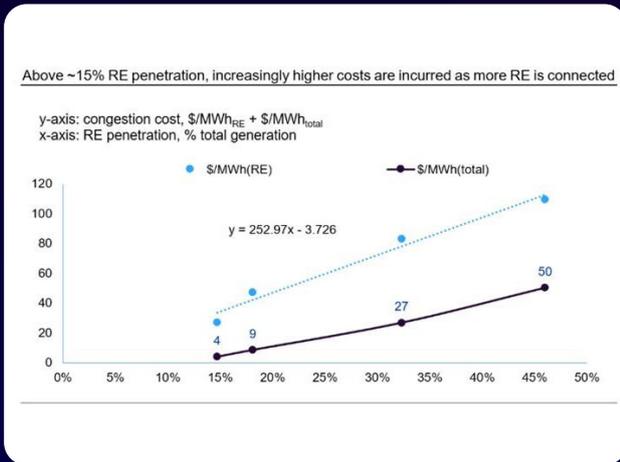


Climate and energy policies – from CBAM to national critical mineral strategies and emissions trading schemes – are redefining competitiveness. Our continuous tracking and rigorous carbon price forecasts help our clients anticipate regulatory change, quantify carbon cost impacts and turn policy complexity into strategic advantages.

Use our carbon pricing intelligence for regulatory insight (including CBAM for EU exposure), shadow pricing, investment appraisal and competitive risk assessment across multiple policy scenarios.



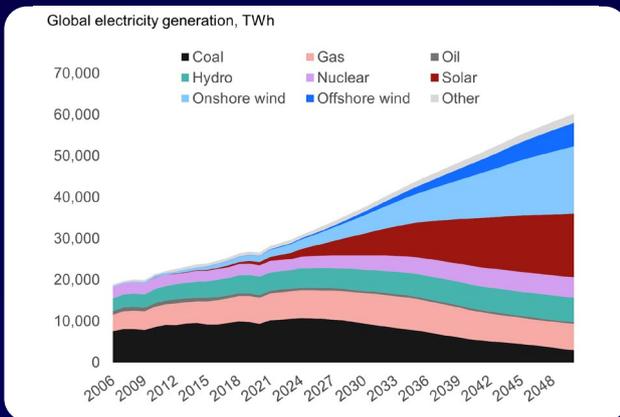
## Cut through the clean technology noise



The energy transition is a capital-intensive transformation where costly mistakes cannot easily be rectified. CRU provides clear techno-economic analysis of the clean technologies needed, such as hydrogen, green ammonia, CCS, renewables and energy storage – all grounded in realistic cost and deployment assumptions.

Our analysis covers complete supply chains – from batteries and energy storage to solar – and delivers regional abatement curves as well as technology cost insights you can trust for decarbonisation roadmaps and investment decisions.

## Decode what is driving the power transition



We forecast power generation and capacity across all technologies – solar, wind, hydro, nuclear, gas and coal – integrating policy, cost dynamics, grid constraints and carbon pricing. Our analysis connects power mix evolution to electricity prices, grid investment needs and demand for steel, aluminium, copper and other critical metals.

This integrated view supports planning for electrification, power procurement, grid-related capex and exposure to clean-tech metal demand.

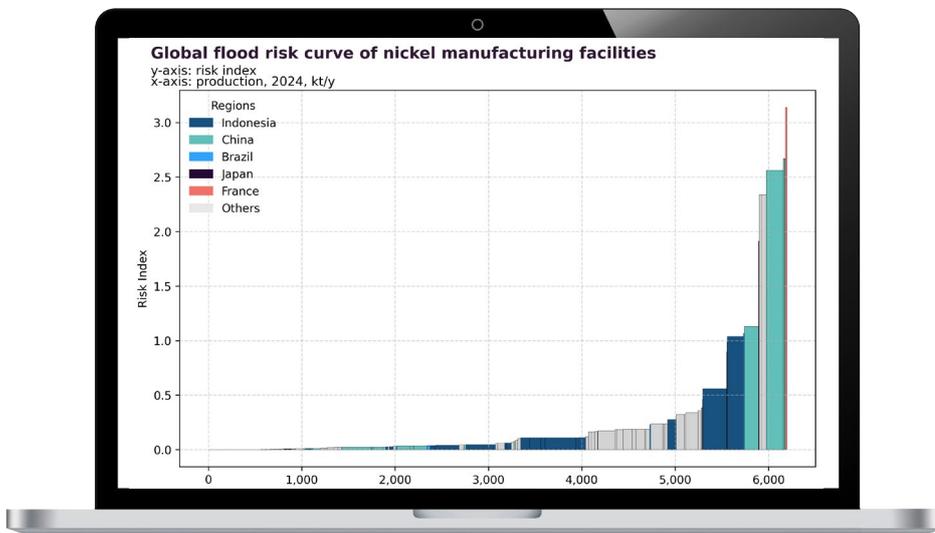
# Navigate uncertainty with *next-generation* climate scenarios

Energy market transformation creates a complex and uncertain future, but strategic decisions cannot wait for certainty.

Our next-generation climate scenarios provide rigorous assessment of how different regulatory, technology and market pathways could unfold, built on granular, asset-level data and real-world action – not aspirational targets.

We integrate bottom-up modelling, market dynamics, policy developments, hard-to-abate sector analysis and clean technology economics into coherent transition pathways that reveal the regulatory, competitive and market risks you need to plan for.

Use our scenarios to stress-test business strategies under different policy and market conditions, benchmark your performance against peers, and identify the key drivers shaping the future energy landscape.



# Commodity-specific *transition intelligence*

Energy transition forces are not generic overlays – they reshape individual commodity markets in distinct ways. CRU embeds transition analysis directly into our core commodity intelligence, providing detailed insight into how regulatory shifts, clean technologies, carbon pricing and policy affect supply, demand, costs and competitiveness.

## Our analysis includes:



**Steel**

Hydrogen-based and DRI-EAF routes, scrap dynamics, carbon costs, CBAM and trade impacts



**Aluminium**

Power sector decarbonisation, renewable PPAs, carbon pricing and low-carbon premiums



**Fertilizers**

Gas and ammonia markets, low-carbon ammonia projects, emission regulations



**Copper**

Electrification demand surges, grid expansion, supply constraints and ESG pressures



**Battery materials**

Lithium, cobalt and nickel demand from EVs and energy storage



**Critical minerals**

Rare earths, graphite and other materials essential for clean technologies

Whether you need to assess regulatory and competitive risks to existing assets, identify new demand opportunities or understand how energy transition is reshaping your market, CRU's commodity-specific intelligence provides the clarity and confidence you need to act.



# Bespoke support for strategic projects

- Strategic planning – acquisitions and growth
- Market decisions – specialised market studies, lenders’ market reports
- Valuation – feasibility studies, M&A support, specialised valuation
- Negotiation support – assistance with contract reviews and risk assessment
- Operational improvements – performance assessment, supply chain reviews, supplier assessment
- Policy and advocacy – independent industry and market impact assessment

**Contact us**

Request a *demo* now

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