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A novel approach to solve the trade-off between higher energy performance equipment and a rational use of raw materials

By

Fernando Nuño

International Copper Association Europe

Abstract

The EU Ecodesign for Sustainable Products Regulation (ESPR) goes beyond energy performance requirements for energy-using equipment and tries to ensure the coherence with the EU Critical Raw Materials Act. This raises the question of how the aggregated supply risk of critical raw materials (CRM) used in Ecodesign-regulated products could be calculated to optimise policy incentives and design options. A methodology is proposed to solve the trade-off between energy performance and a rational use of scarce and critical raw materials. Examples are given for electric motors and power transformers as ESPR-regulated products, while covering wind and solar power as electricity generation sources.

Short biography of Fernando Nuño

International Copper Association Europe
Avenue Tervueren 168 b-10
1150 Brussels, BELGIUM
<https://internationalcopper.org/eu>
Phone: +32 27777 7070



Fernando Nuño is an energy engineer specializing in power plant design and electricity market regulation. Since 2007, he has held a key role at the International Copper Association, overseeing the development of the power cable, electric motor, and transformer markets. His work bridges the gap between technical analysis and policy, with an expertise in sustainability, economic modelling, and strategic marketing and advocacy.