

December 23, 2024

Website Launch of Zinc Enables Decarbonization

The International Zinc Association is pleased to announce the launch of the Zinc Enables Decarbonization (ZED) [page on the IZA website](#). ZED is designed to quantify, substantiate, and promote both the economic and environmental advantages of zinc in reducing a product's lifetime carbon impact by preventing corrosion and ensuring longevity.

IZA is collaborating with Environmental Economist [Benjamin Cox](#) from the University of British Columbia to develop value-in-use models for zinc's role in four sectors: residential housing, infrastructure, energy, and automotive applications. Value-in-use measures the full benefits of using zinc, including extended service life as well as reduced maintenance, climate impacts, and costs for consumers.

From a home's foundation to its roof, zinc adds value during both construction and renovation, and Zinc Enables Decarbonization's first findings in the area of residential construction are summarized on the [Residential Construction page](#) of the IZA website. A modest investment of \$150 for galvanized rebar in a home's foundation can extend its lifespan by 100 years, while a galvanized roof lasts four times longer than an asphalt roof, saving \$13,000 over a 50-year period.

Market and Environmental Implications

Already the data produced through Zinc Enables Decarbonization delivers excellent bragging rights to bolster zinc's environmental advantages and further develop zinc markets. Galvanizing just 4.4% of steel rebar would require one million tonnes of zinc; replacing 10% of asphalt roofing in the U.S. with galvanized steel would require 600,000 tonnes of zinc. On the environmental side of the equation, every 1% of steel rebar galvanized would save 10 million tonnes in carbon emissions, while 10% of galvanized roofs in the U.S. would save 500 million tonnes of carbon emissions.

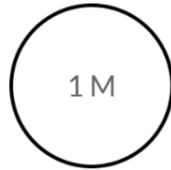
The ZED program complements IZA's existing market development programs on zinc coatings, galvanized rebar, the Zinc Battery Initiative, and the Galvanized Autobody Partnership as well as environmental programs, including frameworks and actions to reduce the carbon footprint of zinc production, recycling, and key downstream processes.

To learn more about Zinc Enables Decarbonization, please visit the [IZA website](#) or reach out to Director of Environment, Health, and Sustainability [Eric Van Genderen](#) at evangenderen@zinc.org.

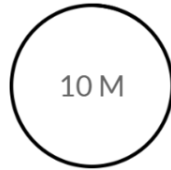


Zinc Enables Decarbonization

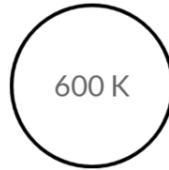
ZINC FACTS



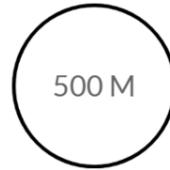
1 M
tonnes of zinc in use for
every 4.4% of steel
rebar galvanized



10 M
tonnes of CO₂e savings
(annual) for every 1% of
steel rebar galvanized



600 K
tonnes of zinc in use if
10% of roofs in USA
were galvanized



500 M
tonnes of CO₂e savings
(lifetime) if 10% of roofs
in USA were galvanized

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