

ZINC AND ROLLED ZINC RECYCLING

■ Zinc recycling

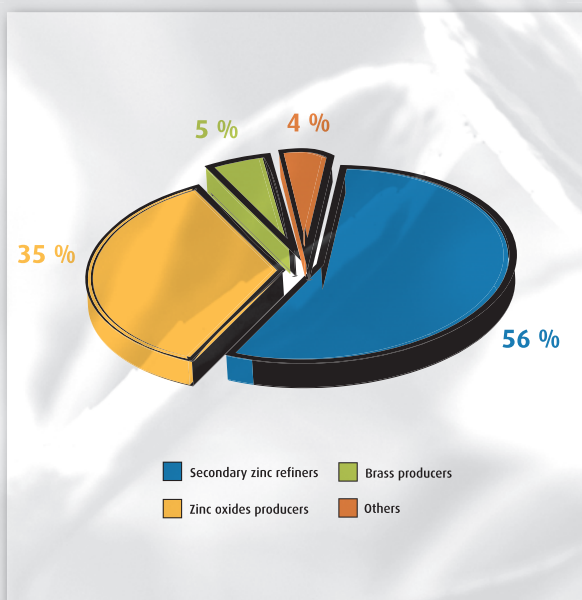
Today, over 30% ⁽¹⁾ of the zinc used in the world comes from recycled materials, and this percentage is expected to increase.

■ Rolled zinc recycling

Today, about 10% of the input material required to manufacture rolled zinc is recycled material.

But at the end of their life rolled zinc products used in building applications are well worth recycling because of their residual value (60% to 75% of the price for new zinc). In western

Europe, the recovery rate for rolled zinc used in building applications is at least 95% ⁽²⁾.



Re-users of the recycled old rolled zinc from roofs are:

- **secondary zinc refiners** (e.g.: galvanizing metal roof frames or road safety barriers),
- **brass producers** (e.g.: for making bathroom fittings or mechanical automobile parts)
- **zinc oxide producers** as a functional additive in suncream (UV protection) or tires (durability).

Moreover, the amount of energy used to produce zinc from zinc ore is the lowest of all nonferrous metals on the market. Energy consumption is even lower when zinc is produced from recycled material: between 0.49% ⁽⁴⁾ and 19.7% ⁽⁴⁾ of the amount of energy used to produce zinc from ore.

(1) <http://www.zincworld.org> (IZA web site)

(2) "Comparative LCA of zinc, PVC and aluminum gutter and downpipe systems" – TNO Draft Report – June 2006

(3) Market Study Zinc Secondary Raw Materials - 1994 - B.U. Recycling

(4) "Recycling non-ferrous metals" - M.E.Henstock, Publication of the Conseil International des Métaux et de l'Environnement, May 1996



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