



STRENGTHEN EUROPE: SUSTAINABLE TITANIUM, INDEPENDENT FUTURE

Decarbonized Titanium Recovery from Production Residues

HORIZON EUROPE PROJECT: 101135077



Funded by the European Union

15% LOWER TITANIUM COSTS

5M € BUDGET

18 PROJECT PARTNERS

48 MTHS DURATION

TURNING WASTE INTO VALUABLE RESOURCES

The project focuses on upscaling eco-friendly methods for extracting and recycling titanium in Europe, aiming to promote sustainability and circularity in the industries.

90% REDUCTION IN CARBON EMISSIONS

20% REDUCTION IN ENERGY AND WATER USAGE

By using mining and processing waste, such as bauxite residue and white pigment production residues, titanium will be recovered as metal powder.

By employing green hydrogen — produced through wind-powered electrolysis — and electric furnaces, significant decarbonization will be achieved.

VALUABLE BY-PRODUCTS
Metallic iron
Construction materials
Geopolymers

Integrating real-time anomaly detection, in-line chemical monitoring of products, and machine learning techniques ensures process performance optimization.

CONTACT US

Project coordinator:
Bengi Yagmurlu
bengi.yagmurlu@tu-clausthal.de
Technische Universität Clausthal



LinkedIn



Video

SCAN ME

euro-titan.eu

