

## ENVIOTCAST -ENVIRONMENTAL FRIENDLY CASTING

"A complete decarbonisation of foundries is imperative from both a social and economic perspective in terms of sustainability and competitiveness. The Green Foundry concept developed and demonstrated in the project 4.0 (Green Foundry 4.0) enables this difficult transition."

CHRISTOPH ZAUNER, Project Manager envloTcast, AIT Austrian Institute of Technology, Center for Energy





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of the  $\mathrm{CO}_2$  emissions in aluminum casting and associated processes by up to 30%. The Green Foundry 4.0 is suitable for retrofitting, is transferable to other industries and comprises of several exportable Austrian technologies including an industrial high-temperature heat distribution system, the next generation, energy optimized, long-life casting mold and a fully waste heat integrated heat treatment furnace.

The project envloTcast develops the Green Foundry 4.0 which allows for a reduction

## **KEY FACTS**

Market potential of up to 500 installations in the European market

Duration: 03/21-02/24

Project volume: €1,764,240

## MAIN GOALS

Reduction of  $CO_2$  emissions in aluminum casting and associated processes by up to 30% and to lay the foundation for complete decarbonization of the industry.

Improved energy recovery and energy reuse, faster production cycles and prolonged production and assessment of the use of renewable energy.

Development and demonstration of Austrian export technologies

Open access to the Green DEMO-Foundry 4.0.







