



ECO-TECH CERAM

Decarbonized heat for industry

Sustainable, cost-effective, and financed solutions **to recover industrial waste heat and decarbonize industry**

30% of the energy consumed in industry is currently lost as heat.

Eco-Tech Ceram is an innovative engineering company specializing in the decarbonization of industrial heat through waste heat recovery and heat electrification.

Eco-Tech Ceram's mission:

- Design and development of installations (heat exchangers, thermal storage, Power-to-Heat electrification)
- On-site industrial integration
- Supply of high value-added heat (HVA*)
- Project financing up to 100% of CAPEX through dedicated investment vehicles

*Cheaper than gas, resilient to price volatility and fossil-free heat

Eco-Tech Ceram supports industrial companies throughout their energy transition and decarbonization journey from A to Z:

- Reduction of fossil fuel consumption in a context of natural gas price volatility
- Lower CO₂ emissions and improved carbon footprint
- Immediate competitiveness gains through optimized production costs

Eco-Tech Ceram means:

3 international innovation awards

5 patented technologies

10+ years of expertise

€35 million raised

20 specialists in high value-added heat (HVA*)



In 2025:

**100,000 hours
of operation**

with 8 systems in service

**€1.5 M & 3.000 tCO₂
saved**

Our mission: reduce, secure, and decarbonize your heat needs with turnkey installations

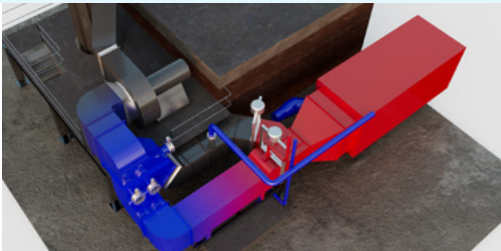
We offer industry the most cost-effective and sustainable decarbonized heat, acting as your sole partner from project design to HVA* heat supply.

High-performance heat exchanger

Custom-designed to maximize heat recovery. Precisely dimensioned based on your flows, constraints, and objectives to optimize energy efficiency while ensuring durability and profitability.



Installed at Isbergues (France) to recover furnace heat and feed it to a 170°C superheated water loop via a 1.2 MW exchanger.



"ThyssenKrupp Electrical Steel UGO's commitment to decarbonization is real! We are proud to have led this project."

Thierry Gheysens,
Energy Performance Manager



sector
metallurgy



decarbonization
1450 tCO₂/year



energy savings
6000 MWh/year
-10%



financial savings
€ 300 k/year

Thermal energy storage: Eco-Stock®

A high-temperature heat exchanger and storage system. It captures waste heat, safely stores it, and then releases it on demand to feed your industrial processes with HVA* heat, continuously or later, depending on your needs.

Temperature: up to 1000°C
Capacity: up to 4 MWh
Power: up to 1 MW
> 90% efficiency, Heat loss < 7% per day



World first at Wienerberger's Pontigny site for the recovery of waste heat from 6 firing kilns to 6 tile dryers using a pair of Eco-Stock® units. Since the schedules of the kilns and dryers are not synchronized, the Eco-Stock® solution allows the heat release to be shifted and adapted to actual needs.



"For Wienerberger, the Eco-Stock® system's efficiency is undeniable, and the results prove it: a 15% energy consumption reduction on site."

Press release, May 2024,
Wienerberger France



sector
ceramics



decarbonization
500 tCO₂/year



energy savings
2400 MWh/year
-15%



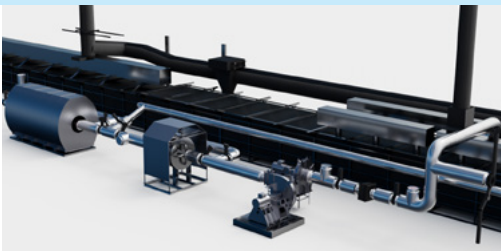
financial savings
€ 120 k/year

Electrification: Power-to-Heat®

Converts electricity (especially renewable or low-cost) into hot air up to 1000°C with > 95% efficiency. Coupled with Eco-Stock®, it delivers on-demand, decarbonized, and cost-optimized HVA* heat.



EU project at Valence d'Agen to recover tunnel kiln waste heat and preheat combustion air via an Eco-Stock® and Power-to-Heat® combo.



"The plant will thus reduce its gas consumption by 42% compared to 2021. Without these savings, the site would be at risk due to rising gas prices."

Laurent Santarelli,
Plant Manager, Valence d'Agen, Villeroy & Boch



sector
premium ceramics



decarbonization
700 tCO₂/year



energy savings
2810 MWh/year
-20%



financial savings
€ 140 k/year

*High value-added heat: cheaper than gas, resilient to price volatility and fossil-free heat

**Visit our
website**



**Book
a meeting**



**Request
a diagnosis**



**Follow us
on LinkedIn**



contact: Vincent Lorin, business developer
vincent.lorin@ecotechceram.com +33(0)7 67 37 67 16



The Eco-Tech Ceram team, along with its clients and partners, gathered to celebrate the company's 10th anniversary.

Trusted by:



Our partners:



5 rue de Vidailhan, 31130 Balma — France — www.ecotechceram.com