

**E-Wenco** Company Profile



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# 01.

## ABOUT US

### OUR COMPANY

Founded in 2015 as an innovative start-up, E-WENCO is now an Applied Innovation Centre specializing in advanced thermal technologies. With multiple patents to our name, we have developed a unique ability to read and interpret complex chemical and physical phenomena, applying scientific and methodological rigor to every phase of our work—from Applied Research to Design, Simulation, Prototyping, and Industrialization.

Our approach is centered on leveraging scientific and technological excellence to drive continuous improvement without any technological constraints.

We adhere to the highest professional and ethical standards, ensuring that our services not only meet but exceed industry expectations.

Our team of experts, including nuclear engineers, energy management specialists, mechanical and electronic engineers, and chemical process experts,

work together to bring our clients the most advanced solutions in thermal technology. By focusing on key areas such as efficiency, energy savings, rapid heating and cooling, and innovative thermal processes, we empower our clients to achieve new levels of performance and sustainability.

At E-Wenco, **we believe in the power of knowledge and innovation to shape a greener future, positioning ourselves as your dedicated technical and scientific partner in every step of your journey.**



## VISION

To be the elective partner in thermal innovation, setting the standard for excellence in energy processes and materials. We envision a future where cutting-edge technologies empower industries to achieve unparalleled performance and sustainability.



## MISSION

To revolutionize the industry through innovative thermal technologies. We are dedicated to providing advanced, customized solutions that enhance efficiency, reduce environmental impact, and meet our clients' specific needs, driving a more sustainable future.



# 02.

## OUR OFFER



Services&products



Research



E-Illum Techs

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## SERVICES

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## TECHS&PATENTS

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## RESEARCH

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## PRODUCT SELECTION

E-Wenco is a private Innovation Center, focus in innovative heating technology.

Beside providing innovative products and service, we also put attention to the smallest detail.

# Our company for Your Competitive Advantage INNOVATION CENTER



## INNOVATIVE PROCESSES AND PRODUCTS

Development and optimization of **innovative processes/products** tailored to enhance efficiency and performance, designed specifically for your company's needs.

## ELECTROMAGNETIC AND THERMAL PROCESSES

**Comprehensive analysis and simulation of electromagnetic and thermal processes.** Available as a standalone service or as phase of innovation process.

# our services for You

# INNOVATION TOOLS



## INNOVATION ROADMAP

Customized innovation proposals for your process or product, designed **specifically for your company's needs.**

## PROCESS & SIMULATIONS

Comprehensive **analysis and simulation of electromagnetic and/or thermal processes.** Available as a standalone service or part of a project.

## R&D COST SAVING

By adopting a production-oriented perspective, **we help reduce research and development costs while ensuring high-quality components and solutions.**

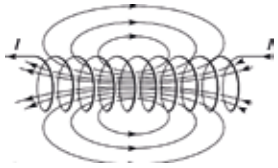
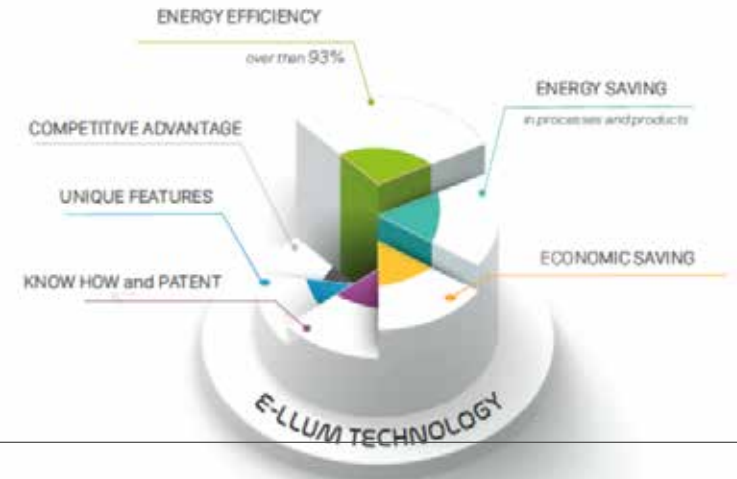
## PROTOTYPES, PROTOCOLS AND BENCH TESTING

We use new production techniques, including **3D metal printing.** Design of protocols and bench testing.

## COMPONENT SCOUTING

Scouting for **strategic electronic components, such as inductive components,** across Asia, America, and Europe, with a focus on reducing costs.

# our tech E-LLUM TECHNOLOGY



## Electromagnetic Heating Induction

Electromagnetic induction is a process where electrical currents are generated in a material through a varying magnetic field, heating it efficiently without direct contact. **The advantages include rapid and precise heating, high energy efficiency, uniform temperature distribution, and flexibility in design.** This technology enables innovative solutions for various applications, offering enhanced performance and reduced operational costs.



## Our Technology

E-Illum Technology is an advanced electromagnetic induction system from E-Wenco, rooted in our deep expertise in the field. By applying **THREE PROPRIETARY RULES** across all innovation projects, **WE MAKE CUTTING-EDGE HEATING SOLUTIONS POSSIBLE**, transforming any metallic materials with unmatched efficiency and control.

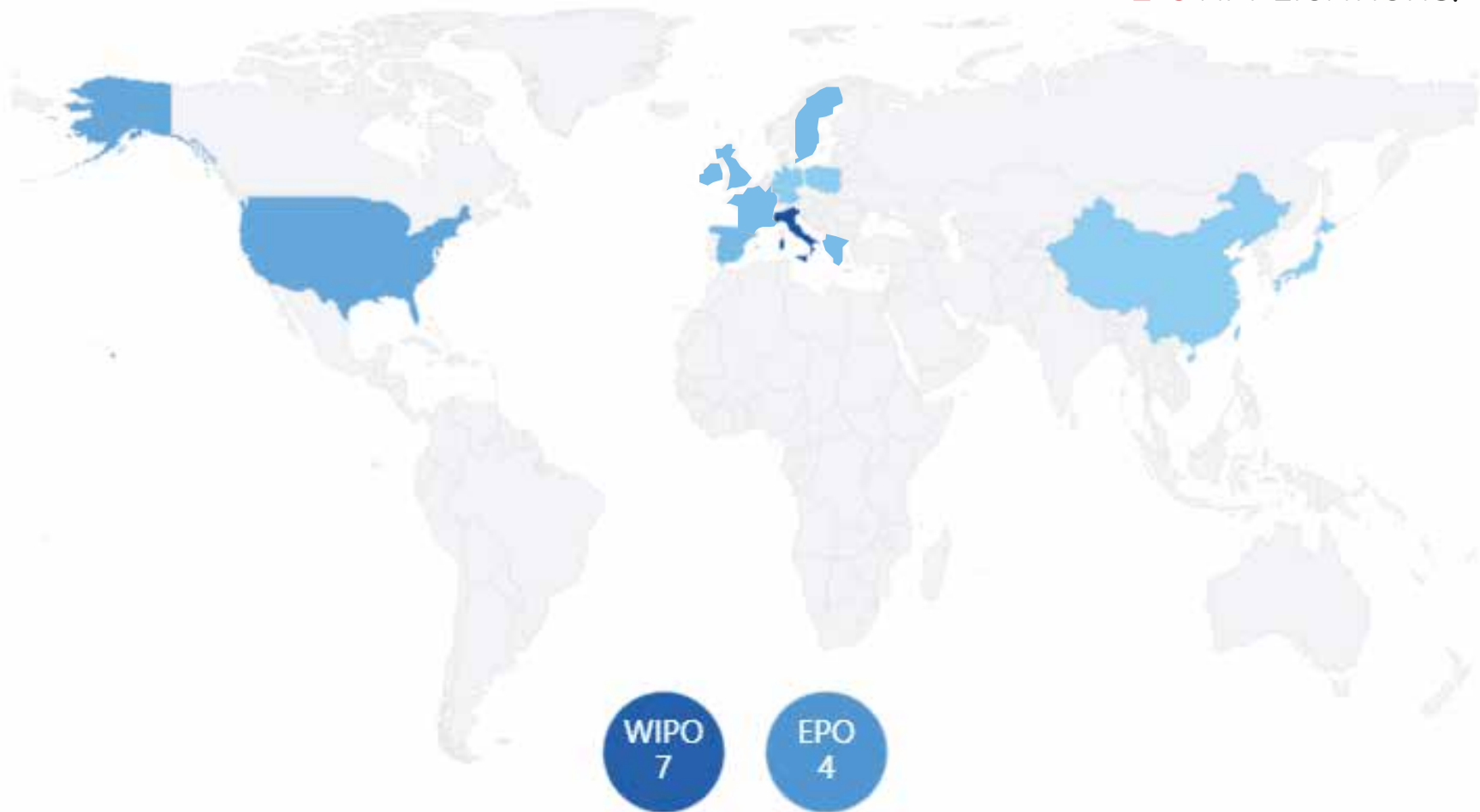


## Our People

Our team is dedicated to constantly researching innovative solutions that can be immediately applied, **leveraging non-backyard skills and passion.** This approach allows us to propose **unconventional, out-of-the-box solutions that add unique value to every project.**

# our patents PATENT COVERAGE

OVER 65 APPLICATIONS  
28 GRANTED PATENTS  
2-3 APPLICATIONS/YEAR





# RESEARCH TOPIC AND RESULTS



## ELECTROMAGNETIC FIELDS SHAPING

*coil, ferrite, frequencies, inductance...*

### ACKNOWLEDGMENTS

#### ARTICLE AND CONFERENCE

**“Electromagnetic Fields -  
Shaping Management”**

(at World Magnetic Conference - Pordenone  
September 19th, 2024)

#### PNRR

**E-Ister roller**

A special roller using E-Illum Technology



## ENERGY TRANSFER PROCESSES

*energy transfer, energy shaping...*

### ACKNOWLEDGMENTS

#### “H2020” WINNER

**E-Illum AC System**

An advanced air conditioning system  
for Electric Vehicles

#### “3DPAN EU” WINNER

**E-Illum Exchanger**

An advanced Exchanger using  
3D Metal Printing

#### “BREVETTI +” WINNER

**E-Illum Soldering**

An advanced induction  
soldering device

#### “BREVETTI +” WINNER

**E-Illum Oven Airflux**

An innovative oven utilizing precisely  
controlled induction air flux technology

# E-İSIV

*ELECTROMAGNETIC INDUCTION BOILER*

- **ENERGY SAVING**
- **VARIABLE STEAM TITLE**
- **AISI 316L**
- **EASY TO CLEAN**
- **TAILOR MADE**

# WN



# E-Isiv Boiler



E-Isiv is an innovative induction-based steamer (E-illum Technology), designed to replace gas systems in industrial processes.

It offers precise thermal control, rapid start-up, low maintenance, and seamless integration without modifying existing machinery.

Scalable from 4 kW to 60 kW and more (200 kW, 300 kW...), it ensures efficiency and energy savings.



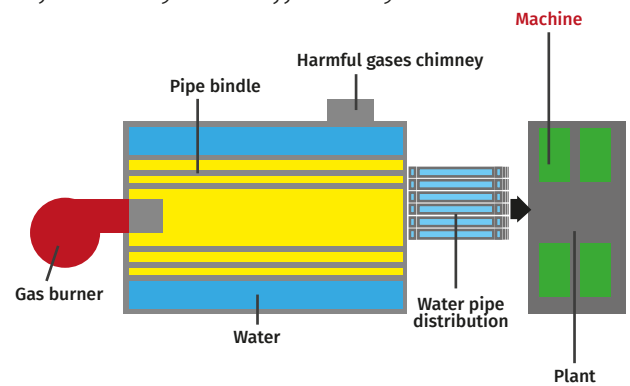
# MARKET OVERVIEW



## COMBUSTION BOILER

A centralized system that heats water and distributes hot water or steam throughout the plant, offering limited customization.

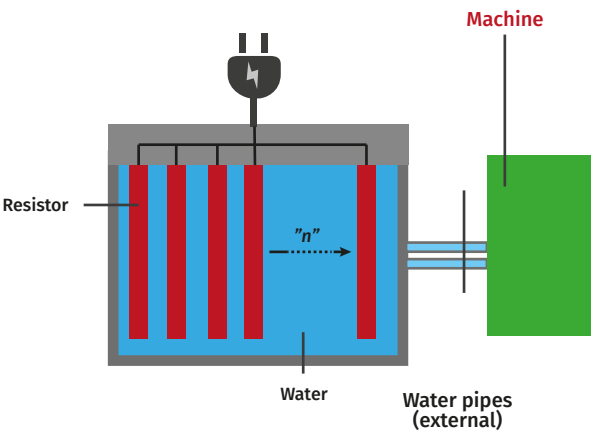
*Its large size and fixed output restrict flexibility and efficiency.*



## ELECTRIC BOILER with resistors

Relies on multiple resistors; the boiler is external to the machinery. Immersed resistors lead to scale build-up and slow heat-up with stored energy.

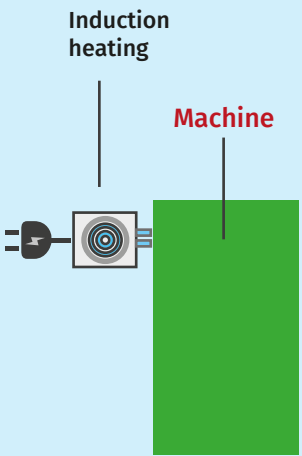
*Large bulky systems.*



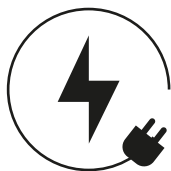
## E-LSIV BOILER with E-llum Technology

Can be integrated into or external to machinery, offering instant heating without energy storage.

*It's fast, highly customizable, and allows for easy performance adjustments to fit process needs.*



# REASON TO BELIEVE



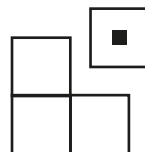
## ELECTRIFICATION AND SAVING

SUSTAINABILITY AND  
ENERGY SAVINGS



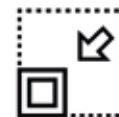
## PRECISE AND VARIABLE HEATING CONTROL

VARIABLE STEAM TITLE  
= INNOVATIVE PROCESS



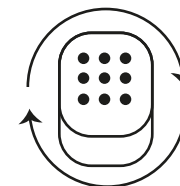
## MODULARITY AND ADAPTABILITY

8 kW, 20 kW, 40 kW...  
= EASY CUSTOMIZATION



## COMPACT AND EASY INTEGRATION

Fits seamlessly into  
EXISTING EQUIPMENT LAYOUTS



## REVERSIBLE ADOPTION

Easy reversion  
= LOW RISKS



## MORE SAFETY



## EASY MAINTENANCE

# 04.

## CONTACTS

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### LOCATION

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### LINKEDIN

<https://www.linkedin.com/company/e-wenco-srl/>

### TEAM LEADERS

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# E-Wenco

THNAK YOU FOR YOUR ATTENTION



# E-SIV

## ELECTROMAGNETIC INDUCTION BOILER

- ENERGY SAVING
- VARIABLE STEAM TITLE
- AISI 316L
- EASY TO CLEAN
- TAILOR MADE



E-Wenco



ELECTRIFICATION  
AND ENERGY SAVING



FOR INDUSTRIAL AND  
PROFESSIONAL USE