



# green STEAM

## HIGH EFFICIENCY STEAM NETWORKS

*Improving network efficiency requires a significant reduction in the operating costs of steam production systems, which leads to savings in fuel. Green STEAM is the tool that modernizes and improves the efficiency of steam distribution networks within in the industrial sector.*

Energy-efficient retrofitting of steam networks with the EPC Guaranteed Saving formula.



## GREEN STEAM INTERVENTIONS

Thanks to Whitenergy's Green STEAM service, the client is able to keep the steam network running smoothly without incurring investment costs in the purchase of new machinery, as well as maintenance costs for the network itself.

In fact, through the EPC (Energy Performance Contract) formula, Whitenergy invests directly in customized technology and maintenance plans and offers the customer guaranteed minimum savings.

Green STEAM is designed for companies that wish to:

- promote energy efficiency measures and modernize their plants without the burden of direct investment;
- be entirely devoted to their core business, without the concern of managing and maintaining the steam system.





## CASE STUDY

### GREEN STEAM intervention in the industrial sector

A dairy plant in Central Italy, active in the production of dairy products and derivatives. Steam is produced by two methane generators. The network has never been maintained and is highly inefficient, considering that it runs continuously, 24 hours a day throughout the year.

#### *Situation prior to intervention*

There are approximately 80 condensate drains, which have never been inspected. The annual energy expenditure for steam production is € 500,000.

#### *The proposed intervention and the situation post-intervention*

Following a complete audit of the steam network, including thermography and ultrasound performed on 80 dischargers, Whitenergy measured the generation yields and steam quality to identify the ideal solution. The system required the installation of a wireless diagnostic system for the critical condensate drains, alongside a customized maintenance plan.

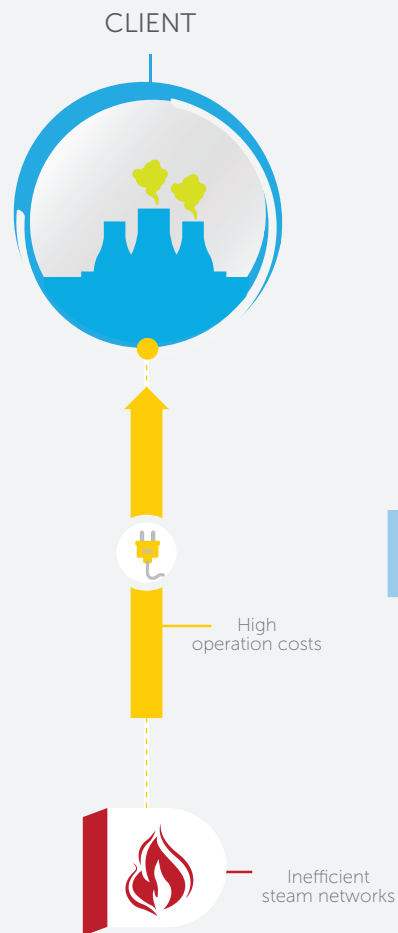
The results of the operation are:

- savings in gas to fuel the steam generators, thanks to a significant reduction in the flow rate processed and the annual volume of steam produced.

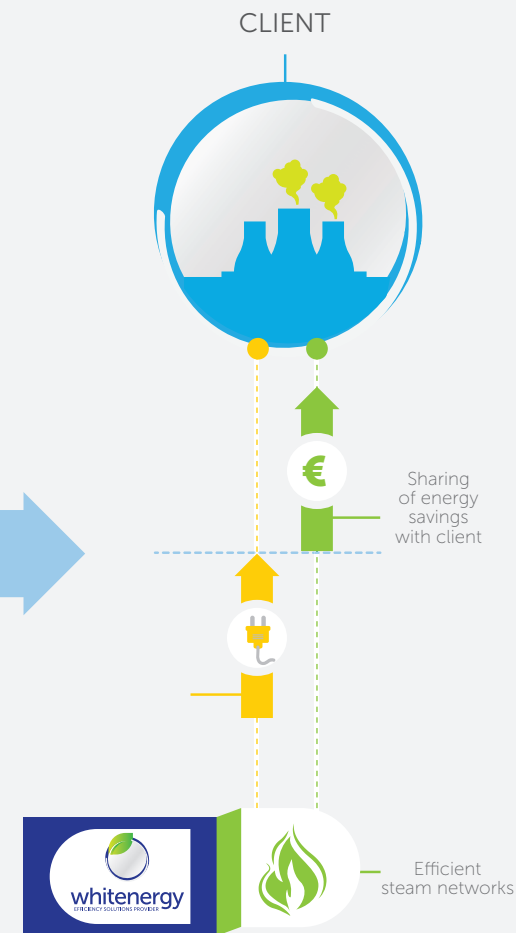
The investment was made in full by Whitenergy. The customer benefits from total shared savings of € 62,000 per year and no is no longer required to maintain the network or inspect the condensate drains.



### Situation prior to intervention



### Situation post intervention



### THE WHITENERGY GUARANTEE


- Detailed audit on steam generation and distribution systems, with particular emphasis on steam losses due to non-functioning condensate drains
- Definition of improvement interventions and an adequate predictive maintenance plan that

maintains the efficiency of the system

- Installation and testing
- Maintenance and reports on savings generated by the project



**whitenergy**  
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