



# **MAKING ENERGY A SUSTAINABLE PERFORMANCE LEVER**

[WWW.SAVOIEPROCESS.FR](http://WWW.SAVOIEPROCESS.FR)





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# Who we are ?

We are an innovative company specializing in sustainable energy solutions. With our expertise in the food, pharmaceutical, cosmetic, and fine chemical sectors, we support industrial clients in their decarbonization and energy efficiency projects. Our goal is to enhance our customers' productivity while reducing their carbon footprint through tailored, eco-efficient solutions. Our team consists of passionate experts dedicated to the energy transition, committed to making a tangible difference on the industrial sector.

We believe in a future where energy efficiency and environmental responsibility go hand in hand with economic growth.

# Our values



## EFFICIENCY

We invest our energy intelligently, at the right time and at the right level, to ensure continued performance in our services and products



## WELL-BEING

We cultivate an environment where conviviality and fulfillment are at the heart of our daily lives.



## PROGRESS

Each project, each action and each decision is assessed in terms of its environmental impact, thus contributing to the energy transition.



## STIMULATION

We fuel our passion for diversity, challenge and autonomy, essential to our decarbonization mission.



## Our vision

Our vision is clear: to become a leader in responsible energy solutions, where well-being and efficiency are the cornerstones of a sustainable transition. We aspire to a future where every industry can combine performance and environmental respect through innovative technologies.

## Our ambitions

### SUSTAINABLE TRANSITION TARGETS

- **2030** : Avoid **657,000 tons** of CO<sub>2</sub> emissions.
- **2050** : Replace **100%** of carbon-based energy solutions with carbon-neutral production methods.

### EFFICIENCY GOALS

- Ensure that **1 kWh** of electricity produces at least **3 kWh** of thermal energy, regardless of climatic conditions.
- Eliminate **100%** of waste heat from our clients' industrial processes.

### WELL-BEING OBJECTIVE

- Design daily energy solutions that **preserve comfort** and **quality of life**.

657,000 tons of CO<sub>2</sub>  
emissions avoided  
by 2030



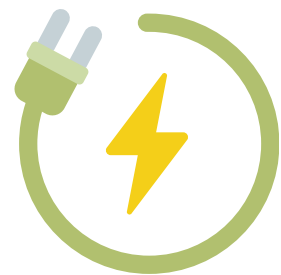


# Solution Overview

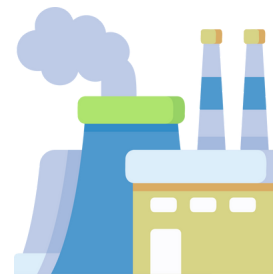
## ECOFICIENT®

### OBSERVATION

- **110 TWh** of waste heat potential in France, with one-third coming from the food industry (source: ADEME).
- According to the International Energy Agency (IEA), around **50%** of global energy consumption is lost as waste heat, primarily from industrial processes and electricity production (IEA, 2023).
- **40%** target for reducing greenhouse gas emissions by 2030 compared to 1990 levels (SNBC)
- 2050, **carbon neutrality target** (France 2030).
- Up to **50%** of the fossil energy consumed by a boiler for steam production is used solely to maintain the network at the corresponding temperature and pressure, often well above the process requirements.



**100%**  
electric



**0**  
fossil fuels

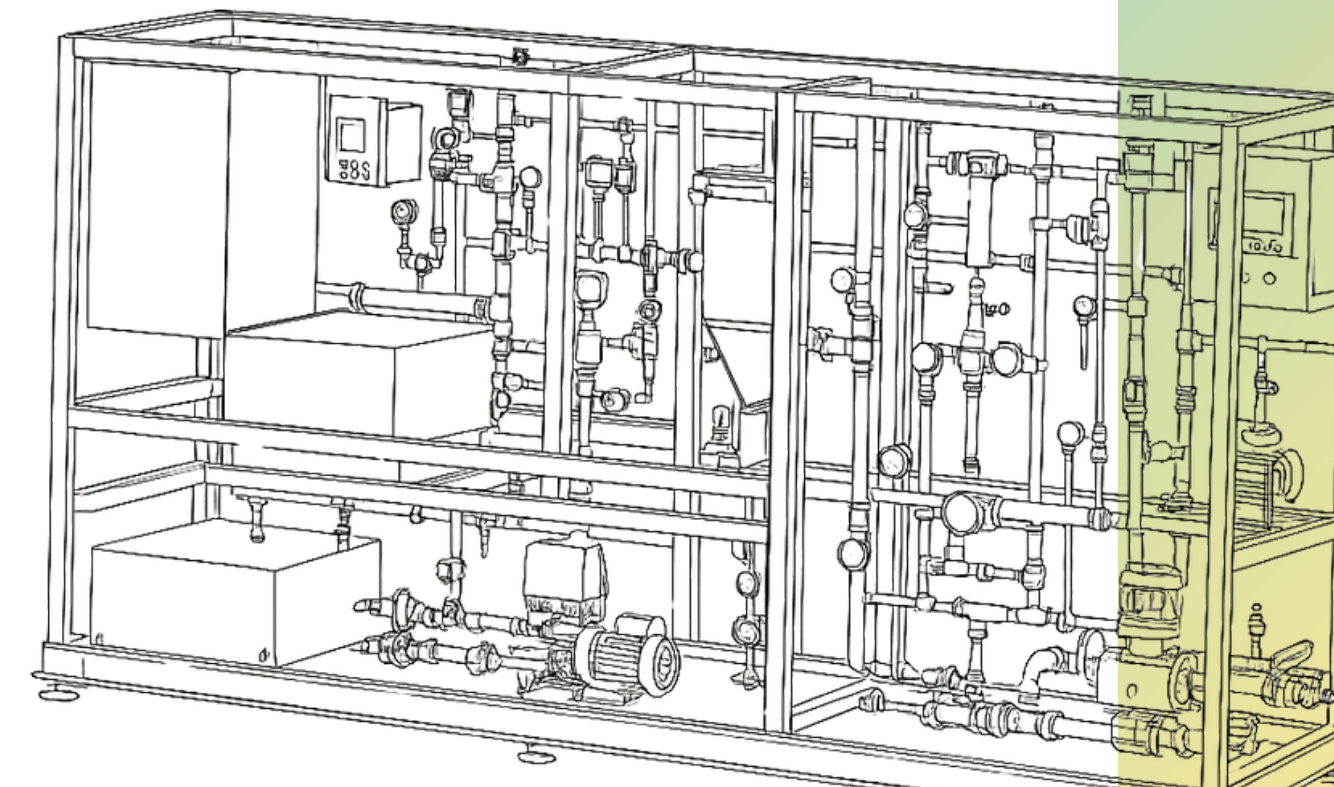


**100%**  
energy savings (up to)

**ECOFICIENT®** is a 100% electric industrial solution, with a COP of 3–5, capable of heating and cooling processes from 6°C to 120°C (standard version). It is a needs-based system, avoiding the oversizing common in conventional equipment.

**ECOFICIENT®** is a solution tailored to needs, unlike the usual equipment offered by power range and therefore too often oversized. This is the result of an intelligent integration of proven technological components and solutions, with, at its core, an energy loop and patented energy storage systems.

The **ECOFICIENT®** solution ensures the production of thermal fluids precisely as needed, just-in-time, and at the expected temperature gradients. Our target market is production units in the food processing, cosmetics, pharmaceutical, and other industrial sectors that consume both heating and cooling. The ability to independently produce each thermal fluid allows us to work with both continuous and batch applications, thanks to our adaptable storage capacities.



# Savoie Process



## ROI (Reliability, Performance, and Support)

Up to ≤ 3 years (*without incentives*)

Up to ≤ 1 year (*with ESC/other schemes*)

### RELIABILITY

Proven, robust technologies and expert partners.

### PERFORMANCES

Improved profitability, productivity, and environmental impact; supporting energy transition via energy efficiency and decarbonization.

### LONG-TERM SUPPORT

Integrated monitoring for performance supervision, preventive actions, and continuous improvement.

Energy loop: Waste heat recovery and utilization from cooling.

Intelligent energy storage for precise thermal management.

### ESC Certificates

IND-UT-102, IND-UT-113, IND-UT-114, IND-UT-115, IND-UT-116, IND-UT-121, IND-UT-131, IND-UT-132, IND-UT-136, IND-UT-137, IND-UT-139, RES-CH-108.

### ADEME

Project calls, Heat Fund, R&D programs.

### WATER AGENCY

Financial incentives for efficient water management.

### FRANCE 2030

R&D support for green tech and energy innovation.

### EU DIRECTIVE

2012/27/EU : Energy efficiency and industrial waste heat recovery.

« Becoming a leader in responsible energy solutions, built on well-being and efficiency as the foundations of a sustainable transition. »



## Preliminary studies

*At Savoie Process, we provide end-to-end support throughout each phase of the project — from the preliminary study to the full-scale deployment of the ECOFICIENT® solution.*

*Our expertise also covers detailed engineering and process optimization studies aimed at enhancing thermal performance, improving clean-in-place (CIP) systems, and reducing overall water consumption, including raw, washing, and process water (steam generation, softened, osmotized, or purified water, etc.).*

*At Savoie Process, customer service extends beyond delivery. We provide real-time access to operating data, proactive maintenance and monitoring, and long-term performance support to ensure continuous improvement and sustained efficiency of our clients' installations.*

### PRELIMINARY DESIGN STUDY (APS)

**Define the main outlines of the project and assess its technical and economic feasibility**

Analysis of the site's energy needs and constraints.

Identification of optimization opportunities.

Estimation of costs and potential savings.

Proposal of solutions tailored to the client's objectives, with a preliminary budget accuracy of  $\pm 30\%$ .

#### **BENEFITS**

- Clear definition of goals and expectations.
- A solid foundation for decision-making.

### DETAILED PRELIMINARY DESIGN (APD)

**Refine the technical and economic aspects of the project prior to implementation.**

Detailed design of technical solutions.

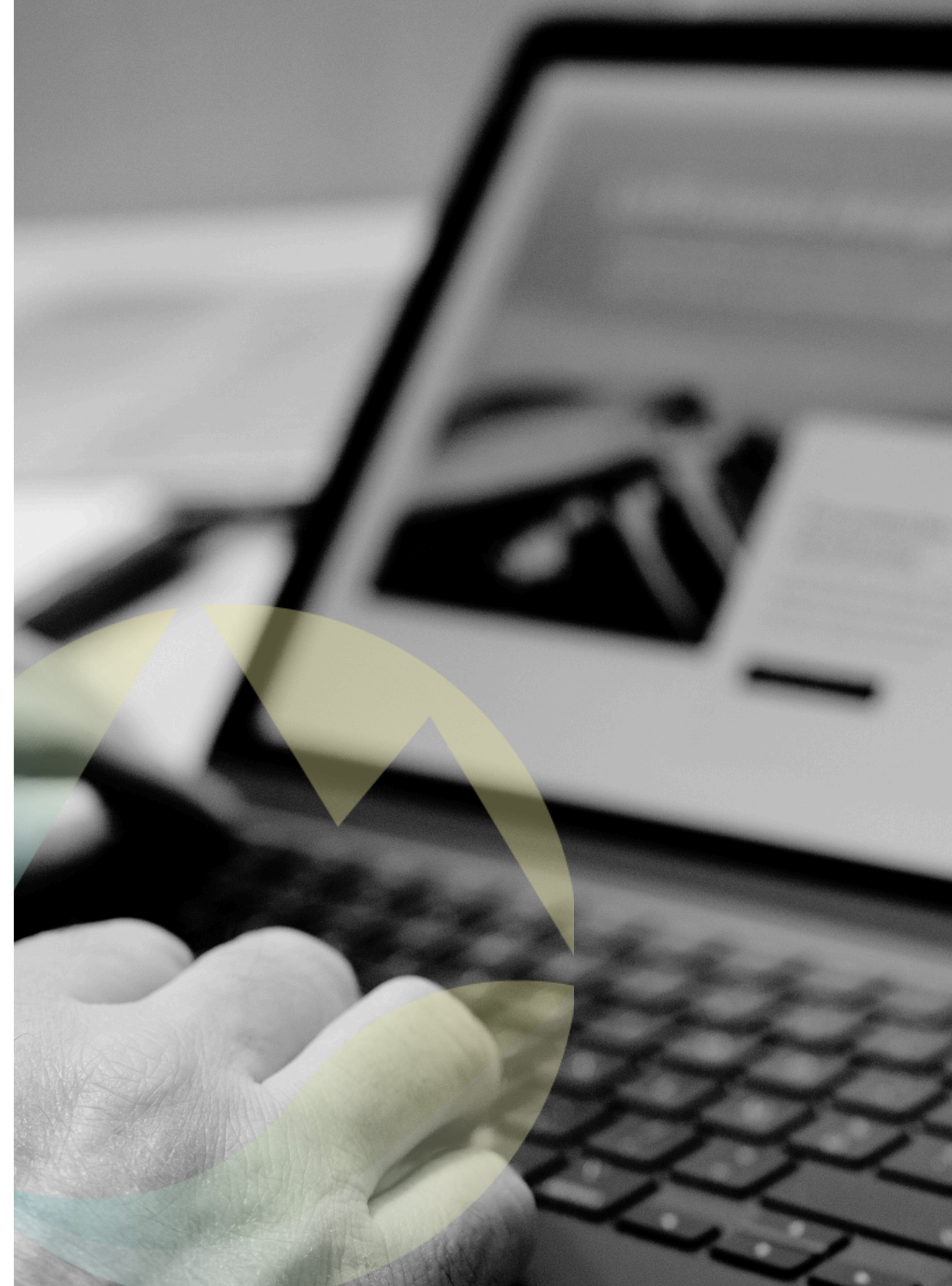
Planning of implementation phases.

Accurate cost and savings estimation with a budget accuracy of  $\pm 10\%$ .

Assessment of environmental impacts and productivity gains.

#### **BENEFITS**

- Reduced project-related risks.
- Optimized resource allocation and cost efficiency. .





# Process Optimization Studies

## CLEANING SYSTEM OPTIMIZATION (NEP/CIP)

**Audit and Analysis** : Comprehensive evaluation of existing cleaning-in-place systems to identify optimization opportunities.

**Consumable Reduction** : Minimization of cleaning solution, detergent, water, and energy consumption.

**Cycle Time Optimization** : Reduction of cleaning cycle durations to increase production capacity.

### BENEFITS

- Increased productivity.
- Reduced operating costs.
- Improved sustainability and energy efficiency.

## MANUFACTURING PROCESS OPTIMIZATION

### Targeted Sectors :

**Agri-food** : Optimization of production processes to improve energy efficiency and reduce losses.

**Cosmetics** : Process analysis to minimize waste and optimize resource use.

**Pharmaceutical** : Enhancement of critical processes to ensure quality while reducing energy costs.

### BENEFITS

- Productivity: Time savings and increased production capacity.
- Cost Efficiency: Reduced consumption of energy, water, and materials.
- Quality & Compliance: Alignment with industry standards and improved product quality.
- Sustainability: Lower environmental footprint in manufacturing processes.





## Data Access and Analysis

### MONITORING AND PERFORMANCE ANALYSIS OF THE ECOFICIENT® SOLUTION

**Data Collection** : Implementation of systems to collect and analyze real-time performance data.

**Custom Reports** : Generation of detailed reports to track progress and identify areas for improvement.

**Dashboards** : Visual tools for easy monitoring of key performance indicators (KPIs).

#### BENEFITS

- Enhanced visibility of industrial performance.
- Data-driven decision making.
- Continuous optimization of the ECOFICIENT® solution.

### MAINTENANCE AND TECHNICAL SUPPORT

**Maintenance Plans** : Development of tailored maintenance schedules to ensure the longevity and efficiency of the ECOFICIENT® solution.

**Technical Support** : Rapid and effective assistance to troubleshoot issues and minimize downtime.

**Technology Updates** : Integration of the latest innovations to keep the ECOFICIENT® solution at the cutting edge.

#### BENEFITS

- Reduced unplanned downtime.
- Optimized equipment performance.
- Enhanced safety and compliance.





# Our results

We collaborate with SMEs, mid-sized companies, large corporations, and industry leaders to improve manufacturing performance, energy transition, and environmental impact. Here are some examples of results from our collaborations:

## AGRI-FOOD

- **Savings of 156 m<sup>3</sup> of CIP solution** per year.
- **Reduction of 4,000 liters** of detergents used annually.
- **Gain of 345 production hours** per year.

## COSMETIC

- **One-third reduction** in softened water consumption.
- **50% reduction** in reverse osmosis water consumption.
- **One-third reduction** in detergent and energy use for equipment cleaning.
- **Gain of 100 additional** production capacity days per year.

## PHARMACY

- **Savings of 630 m<sup>3</sup> of water** per year.
- **Reduction of 400 MW** of unused energy annually.
- **Gain of 1,000 production hours** per year.

## CHEMISTRY

- **Reduction of 322 tons of CO<sup>2</sup>** not released per year.
- **Savings of over 2,000 m<sup>3</sup> of water** per year.







Acting for the  
climate means  
acting for  
tomorrow's  
performance.



# Our references & rewards

## THEY SUPPORT US



## THEY CONTRIBUTE TO THE ECOFICIENT® SOLUTION



## THIS BELONGING MATTERS TO US



## WE ARE PROUD AND GRATEFUL





# Our customers



Gnosis  
by Lesaffre



Soluscope

P & B GROUP  
PHARMA AND BEAUTY



ALVEND  
Laboratoire

Les Ateliers  
Saupont

SHISEIDO

L'OCCITANE  
EN PROVENCE



ECOLAB

LABORATOIRES  
ANIOS  
An Ecolab Company



HYDROLOCK  
CONTINUOUS STERILIZERS



FOSELEV

AQUAPROX

At Savoie Process, we are dedicated to reinventing the future of energy by incorporating sustainable and innovative practices. We aim to strike a perfect balance between environmental well-being and operational efficiency, enabling our clients to thrive in an ever-changing world. Our ambition is to lead this transformation by presenting solutions that not only meet current energy demands but also safeguard resources for future generations.

Savoie Process







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