

STEAM RECOVERY FOR HEAT DELIVERY

A DISTRICT
HEATING CASE STUDY

An iFMS package system delivers water heated by recovered steam for a district heating system that provides an estimated 45% in energy savings.

“One year post installation, our iFMS is working great. I’ll definitely use this again for future projects.”

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Rambervillers District Heating Case Study

The Design Envelope Intelligent Fluid Management System (iFMS) is a packaged solution that integrates pumps and control technology. The Design Envelope Integrated Pumping System (IPS 4002) is an advanced multi-zone control that directly integrates with pumping units to optimise energy performance.

Background

Rambervillers is a village in northeastern France with a surrounding regional population of 20,000. City officials, working closely with global energy service provider Engie, were interested in creating a District Heating system that would capture steam from a nearby waste-to-energy plant and convert it into hot water for local residents. The design required an innovative fluid flow management system that could ensure reliable service to residents throughout the district.

Armstrong Fluid Technology was chosen for the project, based on its innovative Sensorless technology. The system as it had to be delivered in two months and installed in just three days. Engie knew that Armstrong could provide the solutions and equipment on a very tight time schedule. As an added complication, all of the work had to be completed following appropriate COVID-19 safety precautions.

After discussing options with both energy service provider Engie and the local Armstrong representative, city officials decided to proceed with Armstrong Design Envelope Intelligent Fluid Management System, Design Envelope IPS 4002 controller and Design Envelope Vertical In-Line pumps, Key factors in the decision were the built-in capabilities for intelligent control and management and the opportunities to reduce CAPEX and OPEX.

Background

In operation since June, 2020, the Rambervillers District Heating Eco District is operating smoothly and is on target to deliver the projected 45% energy savings.

By integrating superior pump and control technology into a single pumping solution, the iFMS and IPS 4002 together save 30% or more in energy over standard pump-sequencing systems. And, because the iFMS is factory-designed, built and tested, it offers fast and easy installation.

The Armstrong iFMS solution was specified as it was a more intelligent system that can sense and meet the exacting demands of a multi-zone system

Tech-info

- Design Envelope Intelligent Fluid Management System
- Design Envelope IPS 4002 controller
- Design Envelope Vertical In-Line pumps (3)