



Energy Advantage Program

Realize your plant's energy savings potential from flow loop optimization

Flowserve's Energy Advantage Program is proven to help reduce energy consumption, emissions, and operating costs across plants with flow loops. Partnering closely with plant operations, we conduct a comprehensive analysis of existing flow loops, create tailored energy-saving recommendations, and implement solutions to optimize system performance — leveraging decades of engineering expertise across flow control equipment, regardless of age or origin.

Our Proven 3-Step Approach



1 Analyze

We conduct a comprehensive analysis of existing flow loops. Our engineering experts conduct a non-disruptive, plant-wide assessment to identify optimization opportunities. Applying innovative diagnostic techniques and Flowserve proprietary analytics, we gather critical information to understand your system's current performance and uncover opportunities for improvement.



2 Recommend

We create tailored recommendations for energy savings opportunities. We deliver a detailed, custom report outlining specific optimization strategies tailored to your existing plant – ranging from equipment upgrades to process enhancements. Our solutions are designed with an average payback timeline of 18 months or less, ensuring quick financial returns and long-term efficiency.



3 Implement

We work with you to implement solutions to optimize system performance. Our experts coordinate closely with plant operations for seamless solution integration. Upon installation, we actively partner with you for ongoing insights, ensuring plants consistently achieve cost savings, enhanced energy efficiency, and emissions reduction.



Real Results

We are already delivering significant results – and the story of our partnership with Heide Refinery is a powerful example.

Here's what we accomplished together:

- 2,000 megawatt-hours (MWh) **reduction in annual power consumption**
- 1,300+ metric tons in **carbon emission savings annually**
- **Optimized performance** of their largest energy-consuming flow loops without disrupting existing operations
- **Delivered tailored solutions** aligned with both reliability and sustainability goals



Why Flowserve's Energy Advantage Program

200+ Years of Flow Control Expertise

Benefit from Flowserve's legacy of engineering expertise and global experience optimizing flow control systems in the world's most demanding environments.

Proven Results

Our customers regularly achieve 20 - 30% energy savings, improved reliability, and a quick ROI without operational disruption.

Solutions Tailored to Your Process

We deliver custom, system-level recommendations based on real plant data — regardless of the equipment brands in place.

Comprehensive End-to-End Support

From assessment to implementation to active monitoring, we provide full-service partnership aligned to your plant operations and savings goals.

Estimate Your Plant's Savings

[Try our calculator](#) to see your potential energy and cost savings through the Energy Advantage Program



Flowserve Corporation
 5215 North O'Connor Blvd.
 Suite 700
 Irving, Texas 75039-5421 USA
 Telephone: +1 937 890 5839

flowserve.com

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