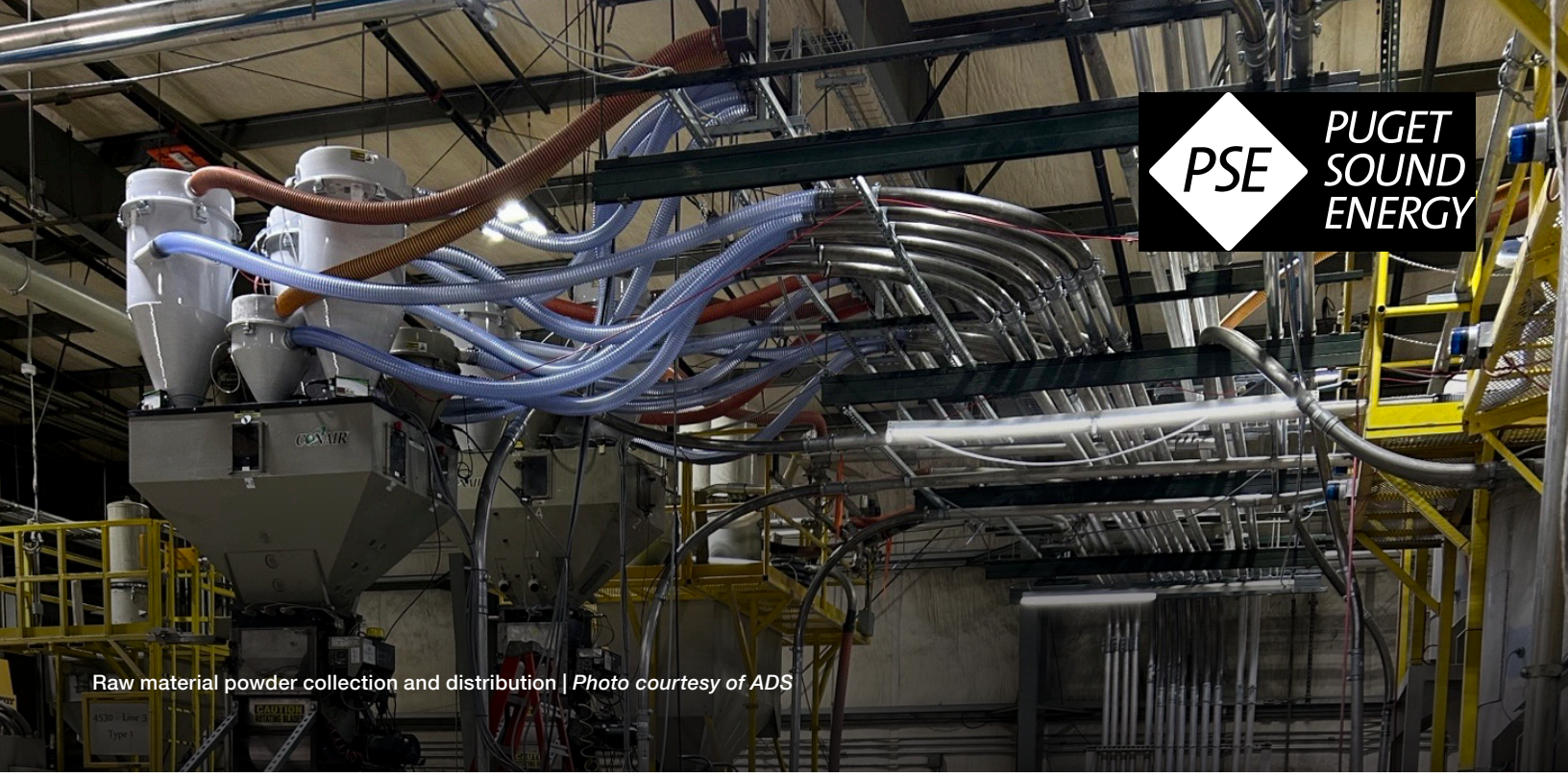


Raw material powder collection and distribution | *Photo courtesy of ADS*

Advanced Drainage Systems saved more than $76,000 with PSE's ISEM program

The utility's Industrial Strategic Energy Management program helped this customer reduce more than 1 million kilowatt-hours of electricity

Customer background

Advanced Drainage Systems (ADS) leads the industry in drainage products and services that deliver solutions for the most persistent and challenging water management problems. It works with clients to safely pre-treat and manage storm water runoff, help developers and property owners harvest rainwater, and is one of the largest consumers of recycled plastic in the US. It promotes environmental stewardship by protecting water and keeping millions of pounds of plastic out of landfills each year, leading Newsweek to name ADS one of America's Most Responsible Companies two years in a row.

Energy challenges and opportunities

ADS was looking to reduce its energy consumption and environmental impact. As a manufacturing facility, ADS recognized the importance of energy savings in controlling its variable costs and aligning with its sustainability goals. However, the company had not previously explored energy-saving opportunities and was unsure where to start.

Energy savings at a glance

ELECTRIC SAVINGS
1,030,014 kWh

PSE INCENTIVES PAID
$20,600

ENERGY COST SAVINGS
$76,381

* Energy and cost savings are annual.

> "Our experience in the ISEM program was very positive and something I would recommend to other businesses in manufacturing…it is worth the investment with a team of employees with an open-minded outlook."

Rob Nanni
ADS plant manager

How PSE helped

PSE's Industrial Strategic Energy Management (ISEM) program provided ADS with the expertise and support needed to identify and implement energy-saving improvements. Through the program, PSE and its partners worked with ADS to conduct a "treasure hunt" for energy-saving opportunities, which helped the team identify low- or no-cost improvements that could be made to the facility. These improvements included repairing air leaks, monitoring power use, adjusting process set points, and several process equipment tune-ups.

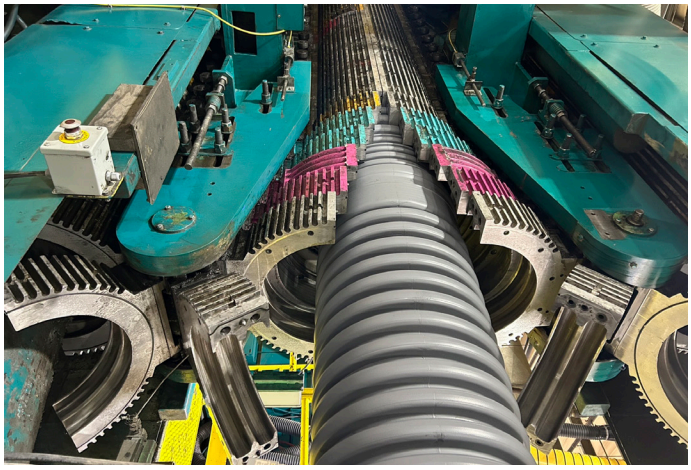
Results

The changes implemented through the ISEM program had a significant impact on ADS's energy consumption. By adjusting process set points, for example, the company was able to achieve significant energy savings, which was a particularly rewarding outcome for the operations team. The program also **helped ADS develop a culture of sustainability**, with employees becoming more engaged and invested in energy-saving efforts.

A key factor in ADS's success was the formation of the ADS Energy Team, a dedicated group of employees who worked together to identify and implement energy-saving opportunities. This team, which is one of the few of its kind among PSE's customers, received support at the corporate level, demonstrating ADS's commitment to energy efficiency and sustainability. **The ADS Energy Team's efforts were instrumental in driving the success of the ISEM program**, and their collaboration with PSE and its partners was a key factor in achieving the program's goals. By working together, the ADS Energy Team was able to identify and implement energy-saving improvements that not only reduced the company's energy consumption but also had a positive impact on its bottom line.

The success of the ISEM program at ADS's facility has also had broader implications for the company. Many of the **low- or no-cost improvements implemented at this facility can be replicated at other ADS locations**, providing a model for energy-saving initiatives across the organization. Overall, ADS's experience with the ISEM program has been extremely positive, and the company would highly recommend it to other businesses in the manufacturing sector.

The ISEM program has also helped ADS achieve its sustainability goals by reducing its energy consumption and environmental impact. The company is committed to sustainability and the ISEM program has helped ADS further reduce its environmental footprint.



Pipe extrusion | *Photo courtesy of ADS*

Key completed energy efficiency projects

- Created standard operating procedures (SOPs) for the grinder shutdown, process equipment shutdowns, and waste
- Reduced the Line 3 melt temperature
- Increased compressed air dryer dewpoint temperature setpoints
- Replaced water cooled heaters with air cooled heaters
- Replaced the old chillers
- Found and fixed vacuum system leaks
- Reduced the compressed air discharge pressure
- Fixed the various compressed air leaks found and implementing a compressed air leak program
- Replaced water cooled heaters with air cooled heaters for Line 45-30

Double-wall pipe storage | *Photo courtesy of ADS*

pse.com/isem

PSE PUGET SOUND ENERGY