

Case Study - IsoBoost® Drives Energy Savings

Company: A Major Midstream Company

Location: Texas, USA

In 2008, a major midstream company was faced with a dilemma at their Jackalope Amine Gas Processing Plant in Hebbronville, Texas. The plant has an amine flow rate of 750 gpm and produces approximately 50 million cubic feet of natural gas per day. They'd been using gas-powered plunger pumps to inject pressurized amine into their contact vessel, but with tightening environmental regulations in the state of Texas and emission rates already at their limits, the pumps needed to be decommissioned and replaced with a more energy efficient option.

Their goal was not only to reduce emissions below the admissible levels for Texas, but also to find a long-term, economically viable solution that could significantly cut energy costs over the remaining lifespan of the plant. Energy Recovery, working through DXP, partnered with the midstream company to implement an IsoBoost system using our proprietary turbocharger technology.

Since it was installed, Energy Recovery's IsoBoost system has:

- Run continuously, requiring virtually no maintenance
- Reduced emissions at the plant by a total of 14.4 million pounds of CO₂
- Saved the small plant \$1 million in total energy savings

"In the ten years that the IsoBoost system has been operating, the plant is running better. You are not using the big engines, or putting so much strain on electrical equipment, so this technology adds to the overall uptime of my operations."

**- Plant Manager
Jackalope Amine Gas Processing Plant**

