

CASE STUDY

PARTNERS IN POWER

SEKISUI KYDEX CUTS ENERGY USE WITH COMPRESSED AIR SOLUTIONS

PPL Electric Business Energy Efficiency Program



Project overview

Facing changing production demands, SEKISUI KYDEX partnered with the PPL Electric Business Energy Efficiency Program to modernize its compressed air system, reduce energy usage and improve operational efficiency. By replacing oversized equipment with solutions better aligned with current production needs, the facility achieved significant energy savings.

✓ Just the facts

\$35,506

Total incentives paid

236,705

Annual kWh saved

\$10,178

Estimated annual savings

Dedicated to moving forward

SEKISUI KYDEX, a leading manufacturer of thermoplastic sheet material located in Bloomsburg, Pennsylvania, has always prioritized innovation, progress and responsibility. After participating in the Penn College Building Operator Training in 2025, with financing from the PPL Electric Business Energy Efficiency Program, the site has applied those learnings and incorporated energy efficiency into its business decisions at the facility to take full advantage of the efficiency program resources and incentives.

Making sustainability a breeze

Before recent process and equipment upgrades, production required a great deal of compressed air, supplied by a large air compressor. As production needs evolved, SEKISUI KYDEX determined that its existing compressed air system was oversized for current operations, resulting in unnecessary energy consumption. Working with energy efficiency program engineers and its compressed air vendor, the facility identified opportunities to better align system capacity with actual demand.

Support for sustainable swaps

With the help of custom incentives to cover project costs, SEKISUI KYDEX switched out its oversized, inefficient air compressor and eliminated compressed air uses for a new system that matched its modern production needs while using less energy:

- A new, smaller **100-horsepower variable frequency drive (VFD) compressor**
- An **externally heated, regenerative blower purge dryer** that eliminates about 15% of compressed air that had been used to support the old pressure-swing dryer
- A low-pressure, VFD-controlled blower that replaced compressed air in production equipment

SEKISUI KYDEX reduced energy waste through eliminating compressed air uses and supplying compressed air with a compressor that closely matches supply with plant demand. The plant demonstrated the tangible, energy-saving impact of making progress a standard part of the continuous improvement process.

Annual kWh savings are equal to:



Greenhouse gas emissions from **368,493** miles driven by an average gasoline-powered passenger vehicle



CO₂ emissions from burning **160,737** pounds of coal



Greenhouse gas emissions avoided by recycling **51.1** tons of waste instead of landfilling

Source: U.S. Environmental Protection Agency

“The custom option for completing a rebate submission was a very versatile tool for us, allowing us to pursue and provide a more sustainable option for supporting our production processes. We are always looking for ways to leverage this program.”

—Dennis Devan | Maintenance Manager



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PPL Electric Utilities