



AMERICAN DEVELOPMENT  
INSTITUTE

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## SUMMARY

*Polartec, LLC partnered with ADI Energy to build-in-place three (3) gas-side economizers.*

*Energy Conservation Massachusetts  
Energy Consulting Massachusetts  
Energy Efficiency Massachusetts*

**Size:** 1 building  
**Investment:** \$243,850  
**Annual Savings:** \$56,352

## SERVICES

- Energy savings analysis
- Commercial energy services
- Design/build
- Energy engineering
- Preliminary assessment for energy
- Investment grade energy audit
- Energy consulting
- Energy savings HVAC
- Energy financial analysis
- Energy reduction
- Engineered solutions
- Industrial energy services
- Plant optimization
- Plant sustainability
- Turnkey energy solutions

## MEASURES

- Economizers

# Polartec, LLC Economizer Project



## UNIQUE VALUE TO CUSTOMER

Polartec, LLC engaged ADI Energy to construct three (3) build-in-place, gas-side economizers. The new economizers would replace current corroded economizers.

Located in Lawrence, MA, Polartec, LLC, is a textile manufacturer specializing in high-performance synthetic fleece products. The Polartec facility totals approximately 900,000 SF in three buildings. Process and space heating for the facility is provided by a large central steam plant consisting of three (3) Cleaver-Brooks watertube boilers. Each boiler is capable of burning #6 oil or natural gas.

Polartec's Economizer project was another step in a long-range Polartec program to reduce energy consumption while improving the environment. Over the past 4 years, Polartec has not only been pro-active in the area of energy conservation but in taking an aggressive stance to reduce their carbon footprint. Polartec partnered with ADI Energy to develop, design and implement lighting upgrades consisting of 1600 fixtures, 10 large VFD's, EMS upgrade including 1400 points, and replacement of air compressors with energy efficient models at the Polartec facility.

During this phase of the partnership, ADI Energy constructed the three (3) built-in-place, gas-side economizers for Polartec's Boilers #1 thru #3. Each re-built unit had 2" OD ERW tubes (72), hot return bends (72), 2" feeder tubes (8), and 2" jumper tubes-sootblower (8).