

## Case Study: IPEX



### The Company:

IPEX designs and manufactures one of the world’s most diverse lines of integrated thermoplastic piping systems, including pipes, valves, fittings, auxiliary components and tools. These are all engineered to handle the full range of today’s municipal, industrial, commercial, and residential applications.

Located in Mississauga, IPEX operations includes an on site compressor that uses domestic cold water to cool air between compression stages to prevent the unit from over heating. This type of cooling is common in many other industrial systems because it is simple to set up, and cold water is also readily available.

However, the use of cold municipal water for cooling purposes in an open loop (in which water passes through only once) provided an opportunity for water and electricity conservation and savings.

### Water Savings Solutions:

#### Installed air-cooled compressor

IPEX replaced its water-cooled air compressor with an air-cooled unit with a variable speed drive. This air compressor uses a special drive to control the speed of the unit, which also reduced IPEX’s energy consumption.

#### Economic Benefits:

\$69,220 annually based on water reducing measures, plus a one-time Peel rebate of \$37,750, which reduces the payback period to 9.5 months

#### Water Savings:

Prior to undertaking any water reducing measures, IPEX used an average of 320 m<sup>3</sup>/day of water according to billing data.

IPEX now saves 55,115 m<sup>3</sup> of water annually or 151 m<sup>3</sup>/day

Water Reducing Measures	Cost of Implementation	Cost Savings (Rebate)	Water Savings (L/day)	Annual Savings
Air-cooled compressor	\$92,450	\$37,750	151,000	\$69,220

*IPEX has long held the belief that we must integrate environmental protection, public acceptability and economic sustainability into all aspects of our operations. The Peel initiative fit perfectly with our Environmental Management Program, which strives for continuous improvement in all aspects of our operations.*

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