Ryan Instruments

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MARKET: Utilities, power plants and industrial facilities.

CUSTOMER: Carolina Power & Light, Raleigh, N.C., is a private utility serving more than 30,000 square miles and 950,000 customers.

PROBLEM: High energy bills hamper American industry's ability to compete. Energy costs will sometimes force an industrial plant to move from a utility's service area. Carolina Power & Light wanted to help industrial plants in its region lower their energy usage.

APPLICATION: Ryan time/temperature monitors (TTMs) played a key role in a program designed to cut energy costs at steel plants and textile mills. First, Carolina Power & Light used TTMs to record temperature data at selected sites in the plants. Energy-conservation managers then used the TTM information to make key decisions in regards to:

- Insulating the plants.
- Operating air conditioning systems more efficiently.
- Improving the plants' energy efficiency in production processes, such as when heating large volumes of water in dye houses at textile mills.

BENEFIT: By using TTMs, Carolina Power & Light has saved money for its large industrial customers -- as much as $300,000 at one plant -- since the energy conservation program began six years ago. And, the utility has benefitted by retaining valued customers.

CONCLUSION: The TTMs usually pay for themselves in 3-4 months by creating new energy savings. "The main thing I like about using the temperature monitors is that our customers benefit because they're using less energy," says Carl Castellow, Manager of Energy Engineering at Carolina Power & Light. "Whenever you can affect the customer's bottom line and pass some savings on to them, that's going to make them happy."