



Paulding County Sheriff's Office Keeps Its Cool

Dedicated cooling unit arrests wasted energy

When the Paulding County Sheriff's Office reconfigured its jail area (which also houses its storage and server rooms), it created a bit of a catch 22. The existing rooftop cooling unit was working overtime to keep the IT equipment cool, which caused overcooling of adjacent storage spaces.

An energy audit conducted by Smith-Boughan Mechanical Services discovered the 30-ton RTU was unable to ramp down, which was wasting energy. Their solution was to add a new 1.5-ton dedicated cooling unit to the IT room. "The AEP Ohio Data Center Program provides incentive funds that reduce project out-of-pocket costs and allows our clients to consider energy efficiency upgrades that otherwise may not have been possible," stated Matt Sudhoff, Engineering Manager for Smith-Boughan.

The Sheriff's Office utilized the incentives to help fund the project. With the new dedicated unit in place, staff put the existing RTU in unoccupied mode and increased the cooling temperature set-point.

The result was a 75 percent reduction in overall energy usage, more precise control over the IT room, and increased redundancy.

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— Matt Sudhoff
Engineering Manager
Smith-Boughan Mechanical Services

Project brief:

Upgrade:

Dedicated cooling unit

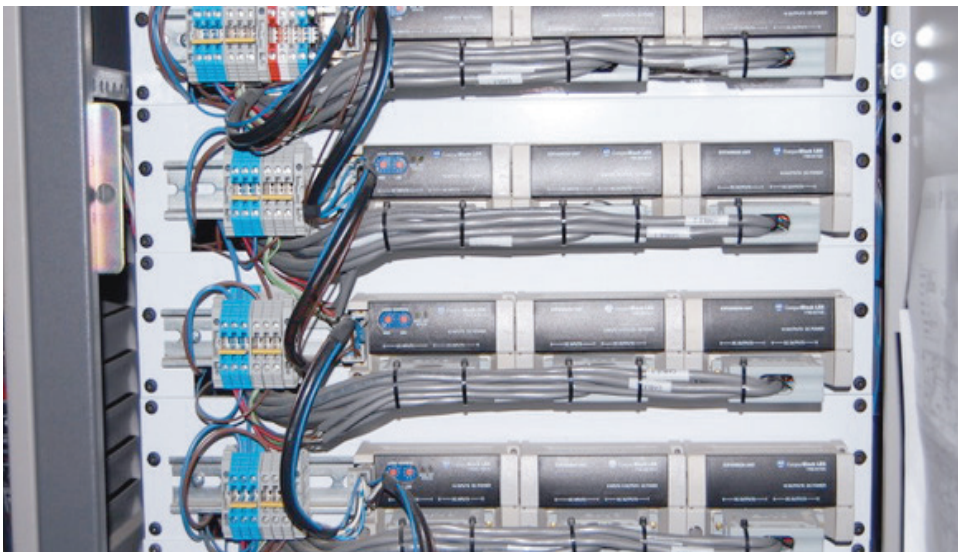
Annual energy savings:

\$1,117

Incentives paid:

\$6,980

Note: The annual energy savings are calculated using an electric rate of \$0.08 per kilowatt hour (kWh).



A dedicated cooling unit efficiently cools server equipment in the Paulding County Sheriff's Office



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