



## Price Chopper, Three Stores Profiled Colonie, NY; Essex, VT; Middletown, CT

**Project Overview:** Price Chopper began at the turn of the century under a different name. In the early 1970's, the company became Price Chopper and quickly established itself as a high quality discount supermarket. Today, the company has stores throughout the Northeast and each store includes a pharmacy, custom-cut meat shops, and several other innovative departments.

Conserving the environment has been a major priority for Price Chopper for many years. The company was a leader in establishing the system that is currently being used to redeem returnable bottles in New York State. As a part of the Energy Star Building Challenge, Price Chopper has been an Energy Star Leader for improving energy efficiency in buildings. Before building new stores in Colonie, NY, Essex, VT, and Middletown, CT, Price Chopper searched out the best ways to implement energy efficiency in its new buildings. They utilized Jamie Thompson of AEC, Inc to help them achieve this goal.

American Energy Care, Inc. has been bringing energy saving solutions to commercial and industrial busi-

nesses for twenty years. Located in Albany, NY, the company installs various lighting and energy projects, having saved companies over \$152 million since 1991. Recognizing the potential of Encelium's ECS software in lighting control, Jamie and AEC, Inc. reviewed Price Chopper for control by Encelium.

Unlike most other lighting control offerings, Encelium's ECS was designed from the ground up as an integrated lighting control and energy management system that delivers the shortest possible payback from energy savings. Encelium's Polaris software allows Price Chopper to collect data on each of its six energy management strategies and increases the company's ability to monitor its environmental impact.



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LIGHTING CONTROL FOR THE SMART BUILDING

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CaseStudy  
Price Chopper, Colonie, NY; Essex, VT; Middletown, CT

Lighting Control  
for the Intelligent  
Office Building





## Strategies Used

	Colonie, NY		Essex, VT		Middletown, CT	
	D (kW)	C (kWh)	D (kW)	C (kWh)	D (kW)	C (kWh)
Smart Time Scheduling	0.00 0%	18,698 2%	0.00 0%	57,458 9%	0.00 0%	51,900 7%
Occupancy Sensor	0.00 0%	310,065 36%	0.00 0%	169,188 27%	0.00 0%	154,353 22%
Task Tuning	13.84 12%	82,613 10%	3.40 4%	76,355 12%	9.44 11%	64,942 9%
Daylight Harvesting	14.28 12%	75,456 9%	0.94 1%	4,323 1%	12.75 15%	69,810 10%
Personal Control	0.67 1%	1,057 0%	0.47 1%	2,882 0%	0.52 1%	1,600 0%
<b>Total Savings</b>	<b>32.12 27%</b>	<b>511,186 60%</b>	<b>7.20 10%</b>	<b>313,659 51%</b>	<b>24.97 30%</b>	<b>357,675 51%</b>

### Annual Results Delivered for Colonie, NY (66,800 sq. ft.)

- > Lighting consumption savings of 60% or 511,186 kWh/yr.
- > Total annual savings of \$72,767.
- > Simple payback of 1.36 years.
- > 10 year total savings of \$727,670.

### Annual Results Delivered for Essex, VT (50,000 sq. ft.)

- > Lighting consumption savings of 51% or 313,659 kWh/yr.
- > Total annual savings of \$51,559.
- > Simple payback of 0.63 years.
- > 10 year total savings of \$515,594.

### Annual Results Delivered for Middletown, CT (50,000 sq. ft.)

- > Energy consumption savings of 51% or 357,675 kWh/yr.
- > Total annual savings of \$60,494.
- > Simple payback of 0.97 years.
- > 10 year total savings of \$604,938.



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"Because saving energy is saving money."

- AEC, Inc Slogan

"American Energy Care recognizes that energy needs, challenges, and opportunities, vary from building to building, industry to industry, and from state to state. We help our clients to understand how they are using energy and how much they are spending on it. We help them to manage their energy conservation strategy." - Jamie Thompson, AEC, Inc. ©

"Encelium's ECS system is the ideal for the construction of a new building. The flexibility of the system's control software allows it to adapt to changes in workspace use without ever having to physically alter wiring or move luminaires. Control zones are now completely independent of electrical circuiting." - Price Chopper

"The ECS can even predict and avoid sharp increases in energy demand without affecting lighting quality! These are results that cannot be achieved with any other lighting system. By investing in "green" lighting technology, Price Chopper is improving its business efficiency, its return on investment, and its "green" image." - Price Chopper

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