



# Advanced Lighting Controls Case Studies



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# About Advanced Lighting Controls

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Harness the power of lighting and never waste a watt with Advanced Lighting Controls (ALC). Already have LED bulbs installed in your facility? Great! Take the next step in reducing your energy use by investing in networked lighting.

## Benefits:

- Exceed regulatory and code compliance
- Improves employee productivity, comfort and safety
- Increases employee morale
- Incorporates best practice lighting design for visual appeal and acuity
- Reduces maintenance

Others have benefited tremendously from this program. See their results with the Advanced Lighting Controls Program.

# Classic Transportation & Warehouse\*

“We had a great experience working with Consumers (Energy) on the energy lighting control program. The project manager understood the scope of the project and was very educational. Our company's internal ROI was configured at 2.4 years but the ROI will actually be 1.8 years.”

- Rod Cooper, Owner,  
Classic Transportation & Warehouse

<b>Classic Transportation &amp; Warehouse</b>	
<b>Total Square Footage</b>	<b>102,400</b>
<b>Annual Hours of Operation</b>	<b>3,537</b>
<b>Baseline kWh/year</b>	<b>288,071</b>
<b>Post kWh/year</b>	<b>25,739</b>
<b>kWh Saved/year</b>	<b>262,332</b>
<b>% Saved from Lighting Retrofit</b>	<b>67%</b>
<b>% Saved from Implementation of Control System</b>	<b>99%</b>
<b>Total Project Cost</b>	<b>\$128,947</b>
<b>Total Incentive Received</b>	<b>\$31,480</b>
<b>Simple Payback Period</b>	<b>3.8 years</b>

\* Project includes the retrofit and controls combined

# Trendway

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“Consumers Energy provided an Advanced Lighting Controls program that helped us meet the return on investment we needed to move forward. After our first phase was implemented, we experienced a 90% reduction in lighting energy!”

- Jeff J., Manager  
Trendway

<b>Trendway</b>	
<b>Total Square Footage</b>	<b>104,479</b>
<b>Annual Hours of Operation</b>	<b>4,160</b>
<b>Baseline kWh/year</b>	<b>265,708</b>
<b>Post kWh/year</b>	<b>12,951</b>
<b>kWh Saved/year</b>	<b>193,684</b>
<b>% Saved from Lighting Retrofit</b>	<b>69%</b>
<b>% Saved from Implementation of Control System</b>	<b>94%</b>
<b>Total Project Cost</b>	<b>\$185,376</b>
<b>Total Incentive Received</b>	<b>\$23,242.11</b>
<b>Simple Payback Period</b>	<b>7.98 years</b>

## Paragon D&E



### Paragon D&E

Total Square Footage	114,376
Annual Hours of Operation	8,760
Baseline kWh/year	2,552,236
Post kWh/year	472,441
kWh Saved/year	2,079,795
% Saved from Lighting Retrofit	59%
% Saved from Implementation of Control System	81%
Total Project Cost	\$433,667
Total Incentive Received	\$216,833
Simple Payback Period	2.1 years

# Steelcase

"We had a positive experience working with Consumers Energy on the Advanced Lighting Controls Program and, in particular, working with our assigned project manager who was very responsive and provided effective guidance. The program allowed us to introduce more adaptability and efficiency for the lighting in our facility while still allowing us to achieve a simple payback of under two years. We also continue to see an additional 20 percent energy cost savings by using advanced controls."

- Mary Ellen Mika, Director of Global Compliance,  
Steelcase

<b>Steelcase</b>	
<b>Total Square Footage</b>	<b>600,000</b>
<b>Annual Hours of Operation</b>	<b>7,599</b>
<b>Baseline kWh/year</b>	<b>4,307,534</b>
<b>Post kWh/year</b>	<b>1,593,616</b>
<b>kWh Saved/year</b>	<b>2,713,918</b>
<b>% Saved from Lighting Retrofit</b>	<b>56%</b>
<b>% Saved from Implementation of Control System</b>	<b>63%</b>
<b>Total Project Cost</b>	<b>\$784,231</b>
<b>Total Incentive Received</b>	<b>\$332,808</b> (included 30% Buy Michigan Bonus**)
<b>Simple Payback Period</b>	<b>4.62 years</b>

\*\* To learn more about receiving a Buy Michigan Bonus visit [ConsumersEnergy.com/buymichigan](http://ConsumersEnergy.com/buymichigan)



# University



## University

Total Square Footage	35,000
Annual Hours of Operation	3,542
Baseline kWh/year	93,169
Post kWh/year	15,407
kWh Saved/year	77,762
% Saved from Lighting Retrofit	45%
% Saved from Implementation of Control System	83%
Total Project Cost	\$59,814
Total Incentive Received	\$13,997
Simple Payback Period	6.9 years

## Office



Office	
Total Square Footage	13,500
Annual Hours of Operation	3,060
Baseline kWh/year	54,896
Post kWh/year	8,492
kWh Saved/year	46,405
% Saved from Lighting Retrofit	62%
% Saved from Implementation of Control System	85%
Total Project Cost	\$40,679
Total Incentive Received	\$12,065
Simple Payback Period	5 years

## Retail Store



<b>Retail Store</b>	
Total Square Footage	108,000
Annual Hours of Operation	8,760
Baseline kWh/year	1,394,592
Post kWh/year	170,594
kWh Saved/year	1,223,998
% Saved from Lighting Retrofit	25%
% Saved from Implementation of Control System	88%
Total Project Cost	\$119,652
Total Incentive Received	\$59,826
Simple Payback Period	1 year



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