



QUESTLINE

We Make Energy Engaging



Energy Industry Thought Leadership

PRESENTED BY: MIKE CARTER

Science Fiction?



Science Fiction?



The Future of Energy End Use



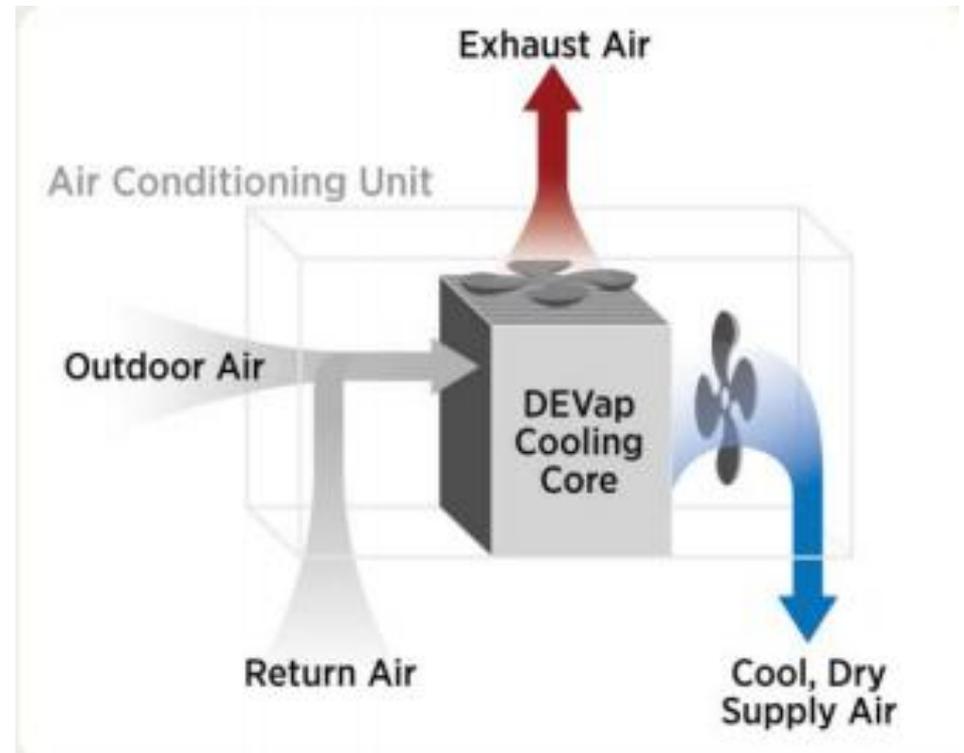
The Future of Energy End Use



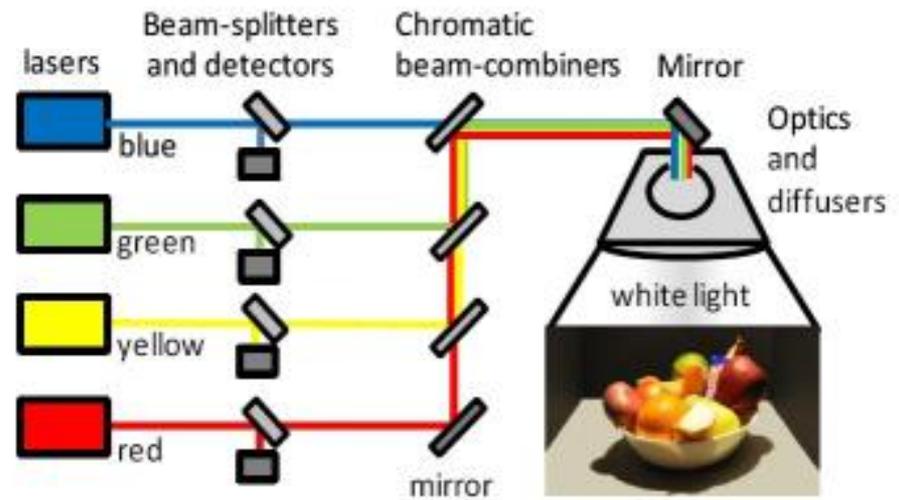
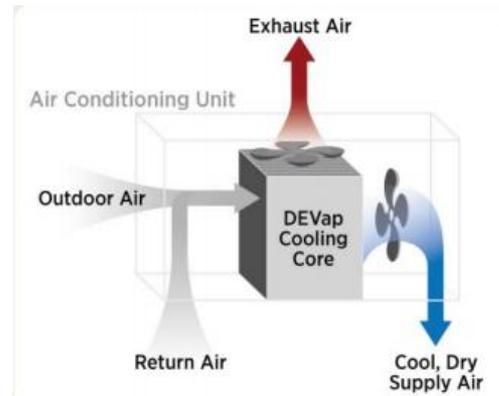
The Future of Energy End Use



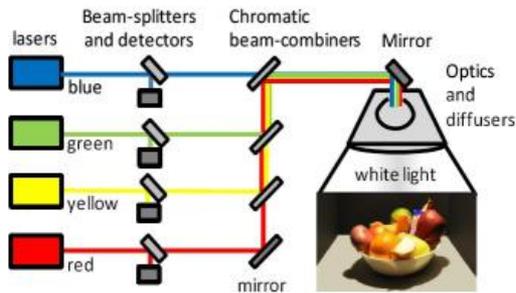
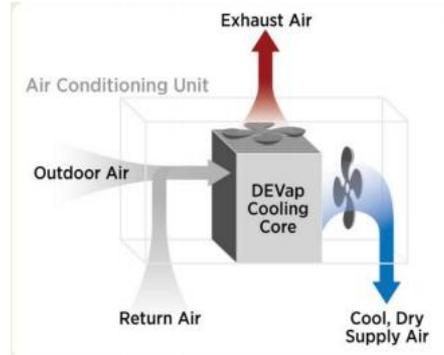
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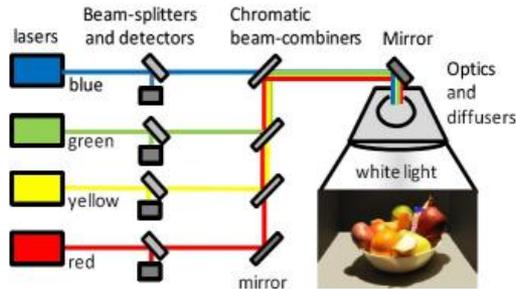
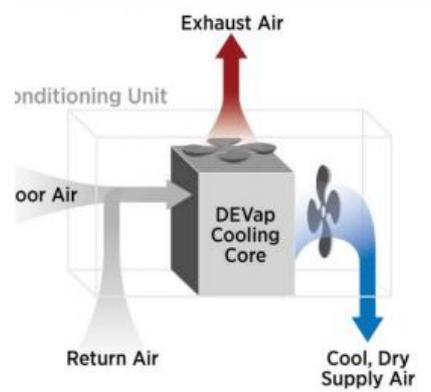
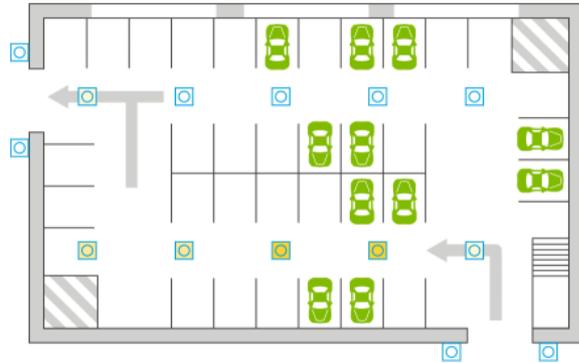
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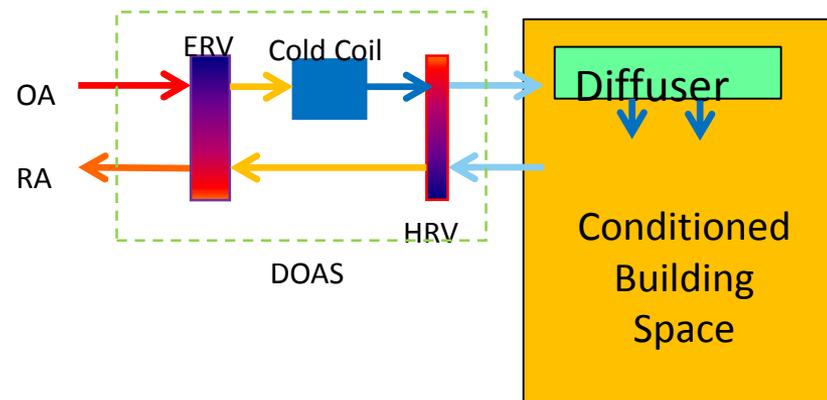
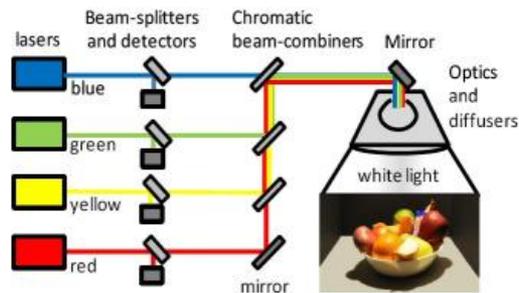
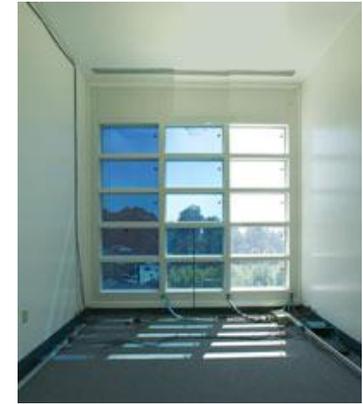
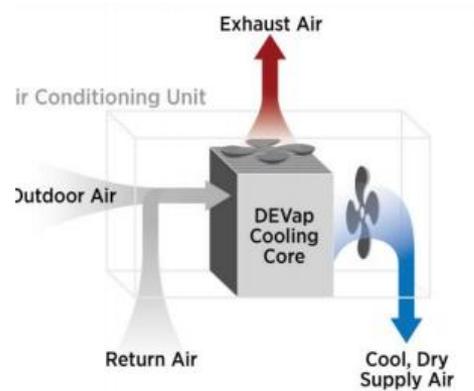
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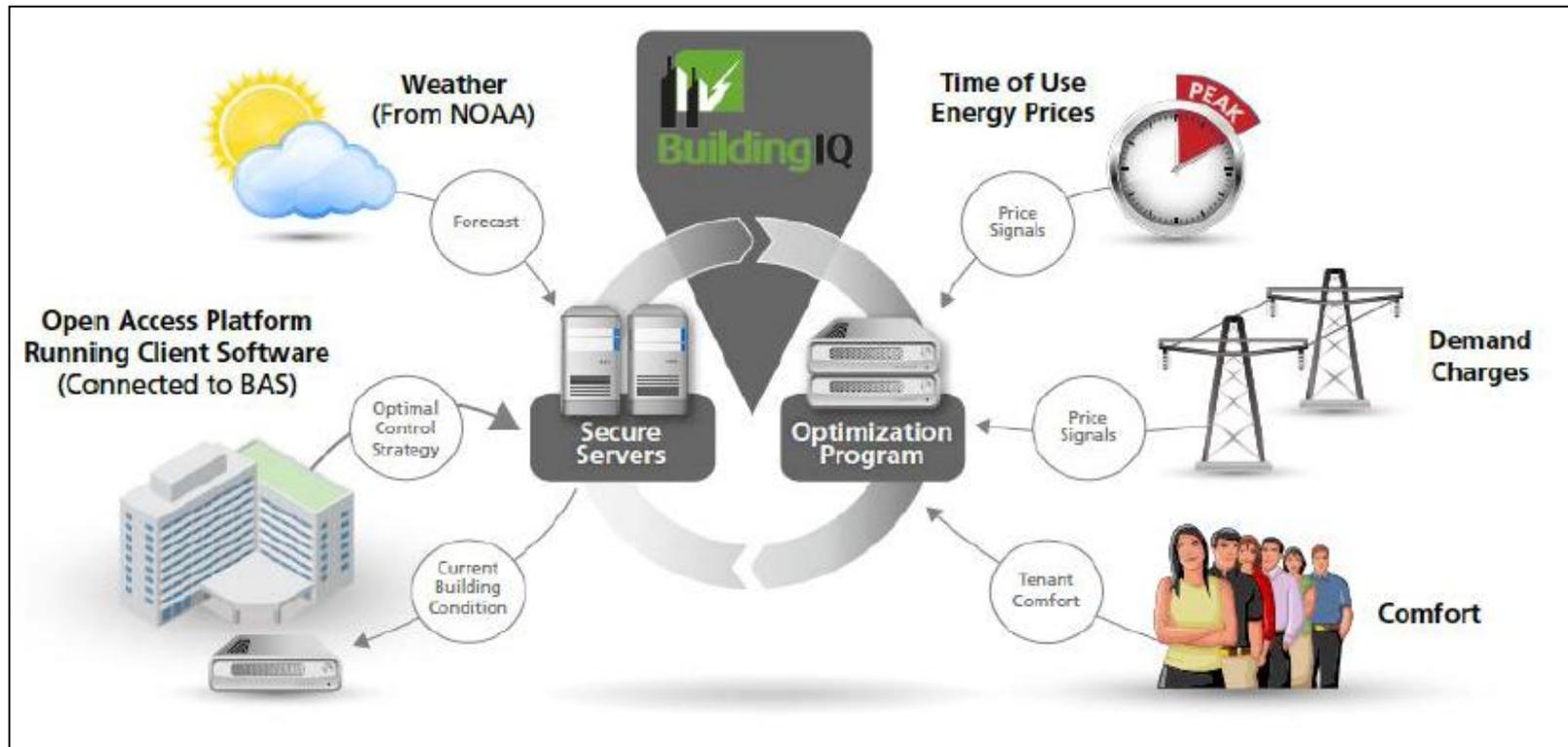
The Future of Energy End Use



The Future of Energy End Use



The Future of Energy End Use



Conventions



The future. Illuminated.



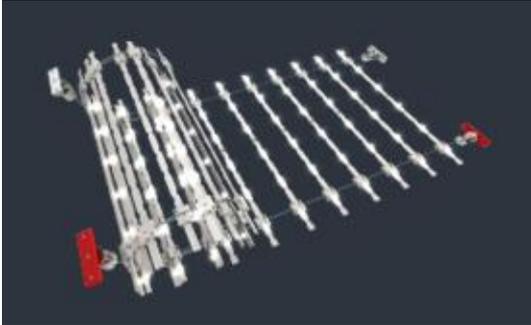
Source: Archipelago Lighting Candelabra



Source: Stack Lighting



Sengled Pulse Flex



Source: TLS Tension LED



Source: Acuity Brands Rubik



Source: Acuity Olescence

Conventions



The future. Illuminated.



Source: Schreder Lighting Shuffle



Source: Philips Lighting Gardco Softview

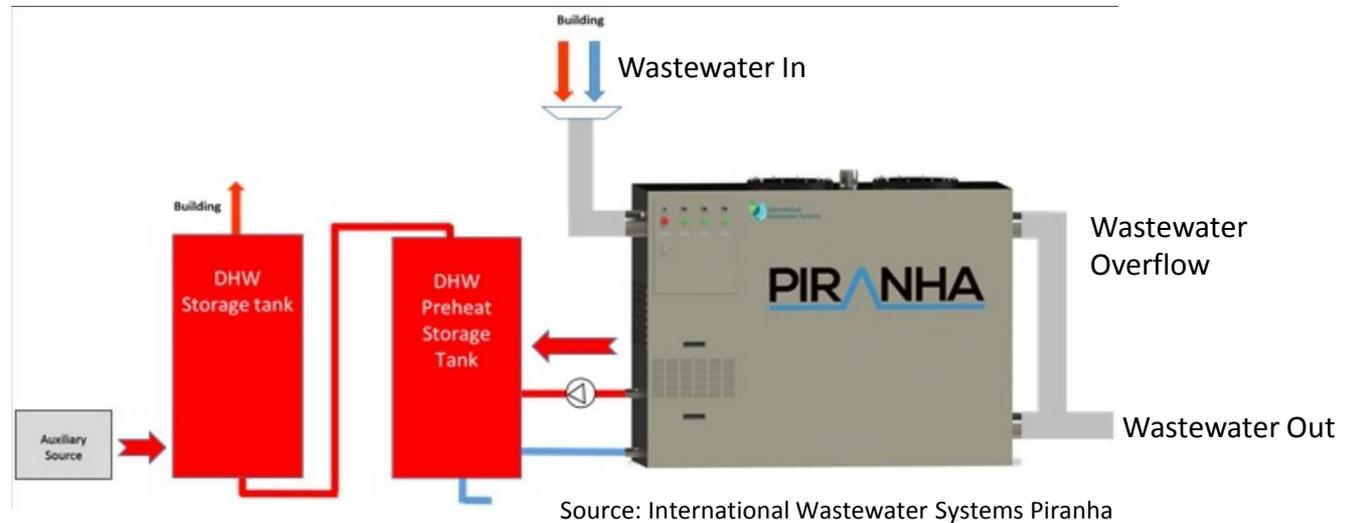


Source: Acuity LightFlex

Conventions



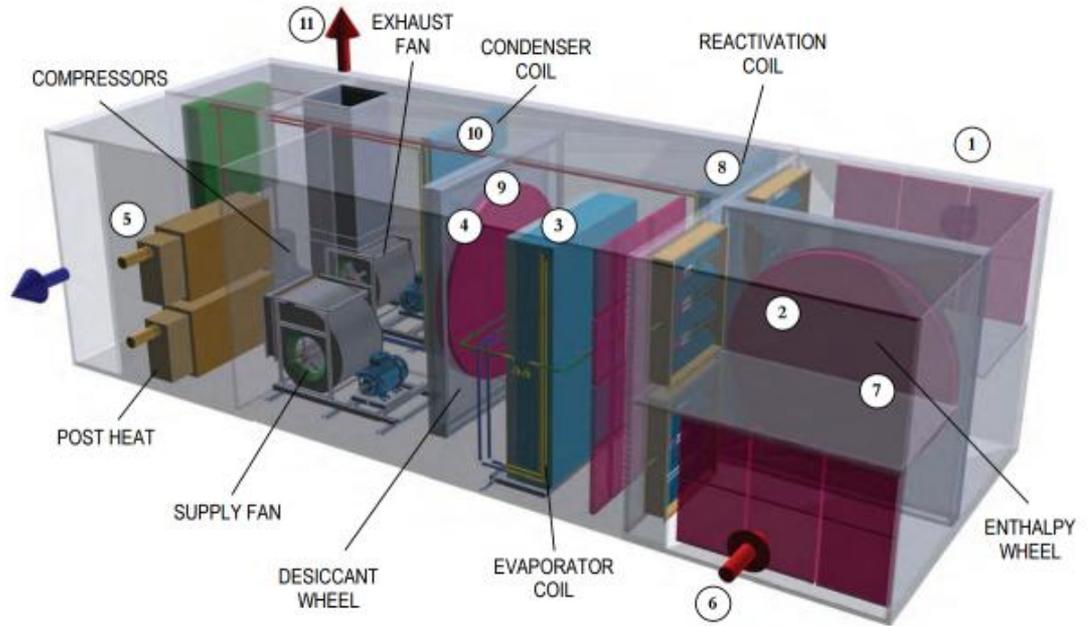
Source: Lochinvar Crest



Conventions



Source: Plasma Air international



Source: Munters DryCool

Industry Groups



Illuminating
ENGINEERING SOCIETY



Bob Davis
Senior Lighting Engineer / Scientist
Pacific Northwest National Laboratory
Advanced Lighting Team



Deb Zawodny
Market Development Manager
Eaton Healthcare Lighting Solutions
Atlanta, GA

Industry Groups



Illuminating
ENGINEERING SOCIETY



Greg Raffio, MS, PE, LEED-AP
Engineer
Go Sustainable Energy
Columbus, OH



Irina Rasputnis
Commercial Programs Manager
Northeast Energy Efficiency Partnerships
DesignLights Consortium
Lexington, MA

Social Media

LinkedIn Groups

- VRF and Ductless HVAC Technology
- Linked:Energy (Energy industry expertise)
- Energy Efficient Lighting
- Industrial Refrigeration

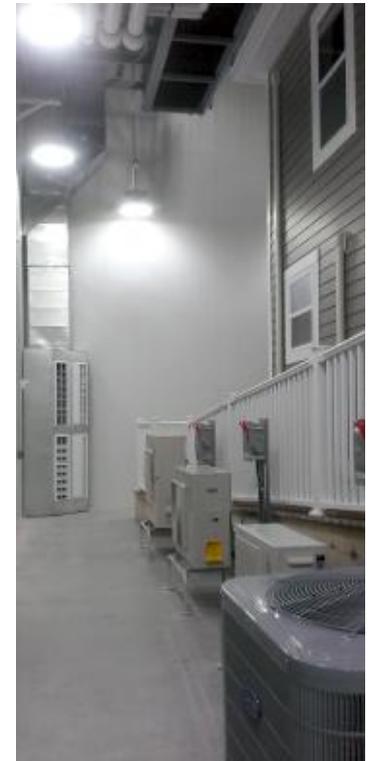
Twitter

- LightNow Blog



Field Trips

Emerson Helix Innovation Center (Dayton, OH)



**Dr. Rajan
Rajendran**
VP System Innovation
Center and
Sustainability
Emerson Climate Tech.
Dayton, OH

Workshops

Lighting Controls for Nonresidential Buildings



Craig DiLouie
President
ZING Communications, Inc.

Ask an Expert

- Sourcing
- Codes
- Energy savings
- Power quality
- New technologies
- Customer problems



Ask an Expert

- Question: Do they make energy efficient lights for tanning beds or booths?
- Question: Are you familiar with any studies that show that Red LED Bulbs increase egg production at poultry layer sites?
- Question: What would the load factor be for a Cannabis Grow House?
- Question: I need to get the average hours of operation for a rural area Crematory.



Questline Academy

- Account Manager Training/Tools
- Energy Efficiency - Industrial
- Energy Efficiency – Commercial
- Energy Planning
- Energy End Use Equipment
- Indoor Environmental Quality
- Power Quality/Business Continuity



Questline Academy

Webinar Partners



Ravi Parikh
Bus. Development Mgr.
RAB Lighting, Inc.
Northvale, NJ



Neil Mehlretter
Engineering Manager
Kaeser Compressors, Inc.
Fredericksburg, VA



Bill Hopler
Engineer
Industrial Controls
Wanamassa, NJ

Questline Academy

Webinar Partners



Kandice Cohen
Vice President of
Healthcare Sales
Acuity Brands by Eaton
Atlanta, GA



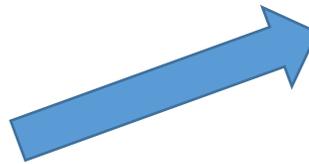
Mike Saunders
Director End User
Technical Sales & Support
Emerson Climate
Technologies, Inc.
Dayton, OH



Travis Dauwalter
Senior Sales Manager
GE Gas Engines
Atlanta, GA

Content Range

- Newsletter Articles
- Videos and Animation
- Savings Opportunities
- Energy Efficiency Catalogs
- End-Use Energy Tech sheets
- Market Opportunity Guide



Energy-Savings Opportunities
Office Buildings — Electric

nationalgrid
HERE WITH YOU. HERE FOR YOU.

The average annual electricity use for office buildings is 16 kilowatt-hours per square foot. Reducing energy waste is a great way to contain costs, increase productivity, and improve public health through pollution prevention. The following are prime opportunities for reducing electric waste in office buildings.

Plug loads

1. Vending machine controls
2. Computer sleep mode
3. Smart strips for TVs, printers and copiers

Lighting

1. Indoor lighting
2. Accent lighting
3. Lighting controls
4. LED exit signs
5. Parking lot/garage lighting

HVAC

1. Energy efficient RTU or chillers
2. Variable frequency drives (VFDs)
3. Economizers
4. Energy wheels
5. Programmable thermostat
6. Energy management systems (EMS)
7. Demand-controlled ventilation (DCV)

Kitchen

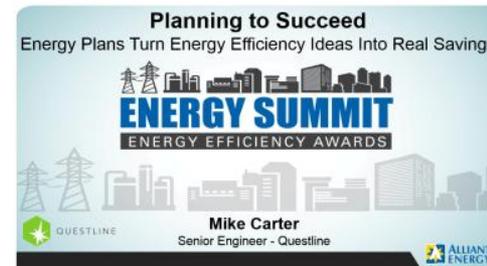
1. Fume hood exhaust controls
2. ENERGY STAR® appliances
3. Pre-rinse spray valves

Speaking Engagements



Alliant Energy Summit (Iowa)

- Energy Planning
- Variable Frequency Drives



AEP Ohio Fall Customer Education Seminar

- Voltage Sag Mitigation
 - Three locations



NV Energy Customer Workshop

- Power Quality Solutions
 - Three locations

