



# Large hydroponic grow facility

Pueblo, CO

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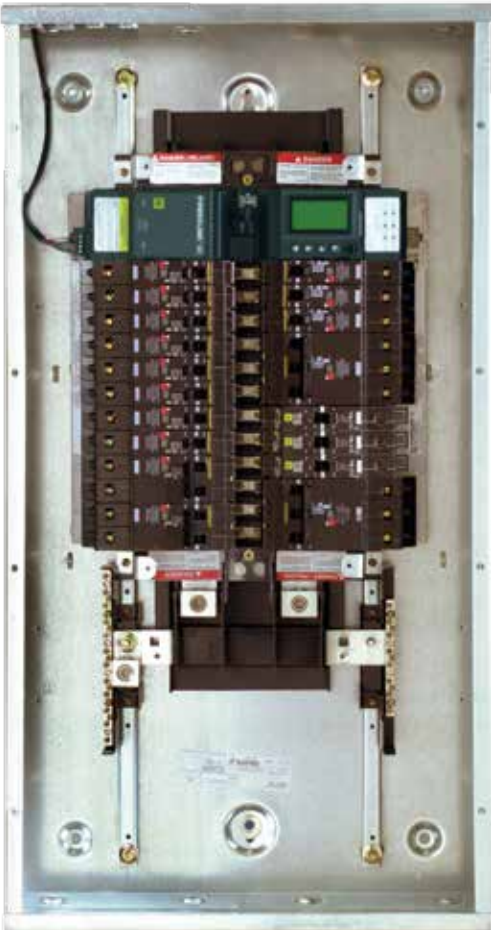
Hydroponic grow facility improves efficiency and implements automated schedule controls for crop protection with Powerlink intelligent panelboards.

The challenge

A large hydroponic grow facility needed automation and control for plant feeding and crop growth processes. With lighting, irrigation, and fans required to maintain optimal plant growth, coordinating and maintaining systems was complicated and crucial for profitability. They needed the ability to automate these systems based on schedule and temperature sensing and monitor for missed events in order to improve control and reduce crop losses.

The solution

Looking for ways to automate their facility and improve energy efficiency, the grow house turned to Schneider Electric. Plant feeding is a critical process with a direct effect on margin. If a feeding is missed, plant growth can suffer and a crop can even die. The facility needed the ability both to automate this process and to monitor it, log it, and receive alarms in the case of a missed event. Powerlink™ intelligent panelboards were installed to provide automated control, scheduling, and alarming capabilities for the facility as well as improve energy efficiency.



Powerlink allowed the facility to automate lights to turn on and off according to an astronomical schedule. Fans were automated via Powerlink to turn on and off based on temperature sensing for maximum care of the crop. Powerlink provided the facility with the ability to automatically log crucial events such as feedings. With any missed event, the system would send an alarm notice via email to alert the facility of the issue. With less missed feedings and more regulated systems, plant life and production were maximized, improving margins. Plus, with so many benefits in a standard panelboard, the compact size of Powerlink provided space savings.

### The results

- Improved control of plant feeding, watering, and cooling processes
- Automated system functions for accuracy and time savings
- Remote monitoring and email alarm notifications for convenience
- Space-savings for maximized crop size
- Operational efficiencies with automation
- Less crop life loss, improved crop productivity
- Higher margin and profit
- Improved energy efficiency and lower energy costs

### Powerlink benefits:

- Remote control and monitoring of panels, breakers, and lighting
- Easy automated and flexible lighting controls for energy savings
- Integral metering for energy use data
- Energy savings month-over-month and year-over-year



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To learn how to improve energy efficiency at your facility,  
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December 2015  
Document Number 1210HO1503

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