

Solution Partner

Authorized TALON® Dealer

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How do I take “sustainability” from buzzword to business decision?

A green building can be defined by how it performs in six specific areas. Here are a few ways TALON can help you address them all.

Energy and water efficiency

Ensures sufficient moisture levels and reduces heat island effect through monitoring moisture content on green roofs

Indoor environmental quality

Monitors critical points for demand-based heating, cooling and ventilation, such as CO2 levels, space relative humidity and outdoor airflow rates for each air handler

Waste management and air emissions

Creates comprehensive emissions reports for use with accepted independent emissions calculation methodologies, such as the World Resource Institute’s Greenhouse Gas reporting protocols

Site disturbance and stormwater management

Manages the flow of stormwater in receiving systems and controls rainwater reclamation systems

Power generation options

Tracks fuel storage tank levels and alerts operator when they get low

Longevity

Works with most protocols and will easily integrate new technology as it arrives



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Supporting responsible
use of forest resources
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HVAC Products
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Investing in a smart, flexible TALON® system is the best way to achieve your sustainability goals.

Answers for infrastructure.

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Smart advancements in sustainability

The decision to make your building a green, sustainable structure is easy; it's getting there that can be confusing. You might be trying to reduce your greenhouse gas emissions, trying to cut down your energy costs or even working towards LEED certification. But whatever your sustainability goals, the best way to create an energy-efficient, sustainable building is with a TALON building automation system.

Reducing energy use by **30%** is equivalent to increasing net operating income and building asset value by **5%**¹



Sustainable buildings can deliver a **12%** return on cost and generate a **90%** retention rate²



TALON gives you precise control over every part of your building; but it's not just about control, it's about how you use it. Need to manage cooling towers connected to a rainwater reclamation tank? TALON does it. Need to adjust internal temperatures for better indoor environmental quality (IEQ) without increasing energy usage? TALON can help. Even if you just want to find new ways to lower operating costs, TALON has the tools you need.

And a TALON system can ensure you are always ready to implement the next innovation in green technology. It's designed to interact with nearly any other building system, so you can always stay on top of your energy efficiency.

Creating a truly sustainable, green building requires a whole-building approach. With TALON, sustainability has never been easier.

How TALON improves sustainability

In an average building, HVAC and lighting systems can account for nearly two-thirds of all energy use, so a building automation system can have a fundamental impact on efficiency. TALON monitors these and other systems and performs advanced energy efficiency control strategies, making it perhaps the single best investment for lowering energy usage.

But TALON has a range of other uses that contribute to a greener building. It can monitor potable water use and wastewater treatment systems to ensure efficiency goals are met, turn off systems when occupants are not present, and control ventilation systems to maintain optimum IEQ without sacrificing efficiency. And TALON can help you earn credits towards four LEED credit categories, including dozens of site-specific improvements.

Making sustainability sustainable

There are countless ways that a TALON system can make your building more sustainable. But a whole-building approach means addressing every part of your system. TC Compact 36 controllers are made of non-toxic materials, including soy-based inks and the maximum allowable recycled content. And they are compliant with most important industry standards, including meeting RoHS, Halogen-Free, Blue Angel, TCO '99 and Nordic Swan Housing Material requirements.

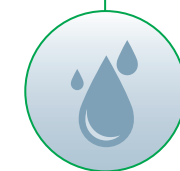
Green product design is just one of the many ways TALON helps you create a more sustainable building.

The strategy behind the technology

It pays to go to the experts first. Your Siemens Solution Partner can help you get the most from your green initiatives by helping you obtain an Energy Star performance rating, or if your building does not qualify for Energy Star, the proper alternative. You can also use your Siemens Solution Partner as an exclusive source for everything you need to automate your building's systems, including the full line of Siemens valves, sensors, actuators, controllers and variable frequency drives.

When you work with a Siemens Solution Partner, you're backed by the resources of Siemens, known throughout the world for innovation and top-quality engineered products and services for more than 150 years.

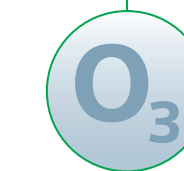
Here are a few places where TALON can help you exceed LEED standards, today.



Water
Monitor potable water use and wastewater treatment systems to ensure water efficiency goals are being met (NC WE Credit 2: Innovative Wastewater Technologies)



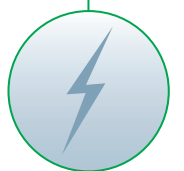
Structure
Monitor soil moisture content of green roofs to ensure sufficient moisture levels (NC SS Credit 7.2: Heat Island Effect-Roof)



Emissions
Precise monitoring to prevent ozone leaks (NC EA Credit 4: Ozone Depletion)



Heat
Photovoltaic cells provide shade and integrate with TALON (EB SS 7.1 Heat Island Reduction: Non-Roof)



Power Generation
Monitor fuel storage tank levels and alarm operator when low (NC SS Credit 4.3: Monitor and Trend Power Usage)



¹Norm Miller, Ph.D., director of academic programs at the Burnham-Moores Center for Real Estate, University of San Diego

²Ibid