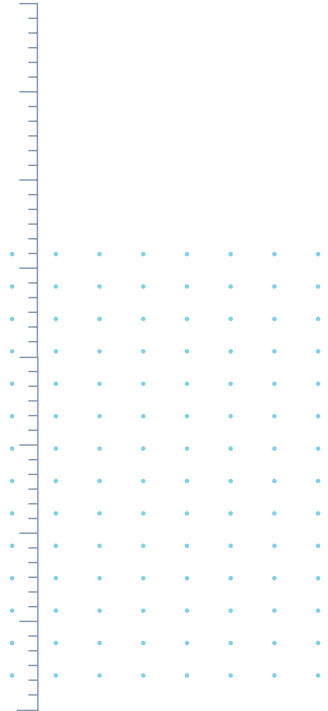


# Decarbonize with Trane Controls

Efficient, low-carbon solutions for the clean-energy future.



## From equipment controls to building automation, Trane helps you monitor energy usage — and manage it better.

So far, buildings in over half of the United States are facing decarbonization requirements. Even without mandates, many building owners are working proactively to reduce carbon. From green buildings to sustainability, Trane has been making buildings better for the planet for decades with a current focus on global building decarbonization—including reducing carbon emissions from HVAC.

Regulations and incentives are accelerating transitions to equipment with higher efficiency ratings and the electrification of heat. Peak decarbonization benefits can be gained through expert system sequencing and scheduling, delivered through repeatable control strategies. Even existing systems with older equipment can show significant improvement when modern controls are introduced. Maximum HVAC system decarbonization requires monitoring energy continuously, using data insights and automation to manage improvements.

## Drive Out Emissions with Trane Controls

In connected buildings, controls optimize the HVAC system to consume less energy all while maintaining comfort for occupants. Data collected throughout the system supports decision makers, from facilities staff to the chief financial officer.

## Control Everything.

### Symbio® Equipment Controllers

Maximize efficiency and meet higher sustainability standards. Our digital unit controllers maximize equipment potential with Trane's professional and adaptable programming.

- Understand how much energy equipment is using.
- Establish baseline measurements and compare them against third-party benchmarks like EnergyStar®.

### Tracer SC+ Building Automation System

We don't just pre-program controls, we pre-engineer their performance into every SC+. Our embedded logic delivers optimal energy performance straight out of the box.

- Pre-engineered applications include Chiller Plant Control, Area, Variable Air Systems (VAS), Trim and Respond, Linear Reset, Demand Management, Scheduling and more.
- Automate the coordination of advanced sustainability solutions, including free cooling, thermal storage and daylight harvesting.
- Conduct scheduled system recommissioning to bring settings back to their original, optimized state.

### Tracer® Ensemble® Building Management System

Tenants and employees can control and monitor energy-consuming systems—even if they're not HVAC experts. User simplicity and robust features make it easy introduce decarbonization strategies to one or multiple buildings within a single BMS.

- Align system scheduling to match actual occupancy. (Operating in a basic on-or-off mode can be a big energy waste.)

### Intelligent Services

Put system-wide data to work toward achieving your decarbonization goals and other KPIs. Trane's collaborative approach to digital services enables us to formulate a plan that works for you.

- Avoid downtime by monitoring energy use. Unusual spikes and subtle trends provide early clues as to when equipment will require repairs or general maintenance.
- Set energy goals and report achievements.
- Use system data to document energy reductions and validate the ROI on HVAC infrastructure investments to private investors, executives and board members.

### Air-Fi® Wireless

Increase visibility into the system by placing sensors more pervasively throughout the building. More collected data means better insight into root causes of energy use—and where savings might be gained.

- Collect more data from more places.
- Make better-informed decisions about system operation.

## Collaborate with Trane.

Our knowledgeable controls team can maximize the benefits of any equipment, including Trane®/ Mitsubishi Electric VRF and HVRF, Intelligent VAV and all of Trane's comprehensive chiller-heater systems.

Building automation systems can reduce energy use in buildings by up to 40%.<sup>1</sup>

### START SMALL:

### Modernizing controls can be a great decarbonization starting point.

Lacking the budget to purchase all-new, high-efficiency or all-electric mechanical equipment? Start by improving the system you have. It is possible to gain energy cost savings and reduce emissions with the equipment that's already in place by upgrading to modern equipment controls and an improved building management system. Our team can help plan a phased approach to achieve maximum impact now, and an upgrade strategy to migrate the rest as budget allows.

Request a consultation  
at [trane.com](https://trane.com)

1. Project Drawdown, Building Automation Systems, Drawdown.org.



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit [trane.com](https://trane.com) or [tranetechnologies.com](https://tranetechnologies.com).

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