## **Understanding Decarbonization and What it Means to Schools**

Educators are wholeheartedly devoted to preparing kids for the future. You can help ensure that their future has a livable planet, too. Climate scientists today say that impactful environmental sustainability depends on widespread decarbonization.



**Def. Decarbonization:** The processes of preventing or reducing carbon gases from being released into the atmosphere, often as the result of burning fossil fuels.

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A growing number of states and municipalities are putting regulations into place to motivate the adoption of decarbonization strategies in commercial buildings. It's the right thing to do and it doesn't have to be a burden. Financial support is available to help defray the costs including the Inflation Reduction Act, tax incentives and utility rebates, plus various grants and affordable loans.

#### **Trane's 4 Pillars of Decarbonization**

Trane organizes decarbonization into four pillars. Each one has big and small action items that you can implement to make a carbon difference. The items listed are just a few examples, rated by the typical level of cost and complexity.

1 = low 2 = moderate 3 = high



#### 1. Improving energy efficiency

Using less energy produces less carbon emissions from power plants. Since energy efficiency saves money, this is an easy starting point.



**Energy Efficiency Actions** Switch to high-efficiency HVAC systems

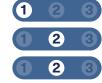
**BONUS** Lower energy bills.



#### 2. Electrification of heating

As the nation's power grid transitions to renewable energy sources, switching to electric heating reduces overall emissions.

### **Cost/Complexity**



- **Electrification Actions**
- Apply innovative approaches using heat pumps

**BONUS** Federal and state funding may cover the cost.

Every step matters. Let's work together to reduce the carbon impact of your schools. Trane combines energy-efficient equipment, control strategies and energy management services. We expertly bring it all together to form unique and innovative approaches that benefit schools, students and the planet.

Leverage your school decarbonization projects for STEM learning. Trane's K-12 education programs integrate with your curriculum, providing experiential learning about energy efficiency, sustainability and more—using your building as an example.





