

## A Playbook for Action: Setting Science-Based Corporate Climate Goals



In May 2022, [Trane Technologies](#) unveiled its latest [environmental, social and governance report](#), outlining how the company had set, met and succeeded several sustainability targets.

At the heart of the report is the idea of taking bold leadership to help solve the climate crisis and inspiring others to make equally ambitious commitments.

As a climate innovator that manufactures heating and cooling systems, Trane Technologies has a duty to align its operations and product solutions with global climate goals, and it is taking that further by directly aligning its strategy to its sustainability commitments.

In its report titled "[Transform Tomorrow. Today.](#)", Trane Technologies puts forward examples that demonstrate how sustainability is a driver of performance, rather than an obligation. This approach has allowed the company to reduce operational emissions by 25%, water usage in water-stressed regions by 18% and customer carbon emissions by 50 million metric tons and achieve zero waste to landfill at 54% of its manufacturing sites\*.

Sustainability has long been at the core of Trane Technologies' strategy; nearly 10 years ago the company led the industry transition to low-global warming potential refrigerants. Trane Technologies established its first set of science-based climate commitments and exceeded them two years early in 2018. Since then, the company's ambitions and actions have grown, with significant progress toward its bold [2030 Sustainability Commitments](#).

### Backed by science and rigor

Trane Technologies' actions to achieve these goals continue to be twofold: Set science-based targets that inform product and operational plans, and rigorously assess and reduce product emissions.

Trane Technologies recently took a step further with its long-term commitment to achieving science-based targets when its climate goal—namely to [reach net-zero greenhouse gas \(GHG\) emissions](#) across its entire value chain by 2050 from a 2019 baseline—was [validated](#) by the Science Based Targets initiative (SBTi), a coalition of the Carbon Disclosure Project, the United Nations Global Compact, the World Resources Institute and the World Wide Fund for Nature. This includes a 90% reduction in GHG emissions across its global operations (Scope 1 and 2) and a 97% reduction in emissions per cooling ton from use of the company's products (Scope 3), as well as neutralizing emissions that are not eliminated.

This made Trane Technologies the first in its industry—and one of only 11 companies in the world—to have achieved that level of confirmation at the time of the announcement.

Trane Technologies recognizes that getting to 2050 means real action must start now. That's why the company has a plan for the midterm, 2030, by which time it will reduce its customers' carbon footprint by one billion metric tons. It is the company's [Gigaton Challenge](#), and the largest science-based climate commitment related to product emissions reduction within a single decade of any company globally.

### How you measure matters

Trane Technologies is going to eliminate one gigaton of carbon emissions by 2030 through its second strategic step: leveraging the power of data to understand new ways to calculate and reduce product emissions, with some of the most rigorous standards for how to measure impact.

Trane Technologies [calculates](#) the total emissions generated by every product sold, using an equation based on the sum of its annual electricity (including local grid factors), fuel and refrigerant emissions multiplied by the product's expected lifetime. The emissions of every product in a year will then be compared to those generated by products sold in the project's baseline year, 2019, and the difference allows the company to have new insights on impact and progress.

Because the planet needs the industry to innovate for urgent change, Trane Technologies made the decision to set 2019 as its baseline year, instead of including its achievements from the previous five or 10 years. Its ambition is to make a significant impact as quickly as possible.

Importantly, the reduction is externally assured and contributes to the company's Scope 3 science-based target and, ultimately, the 2030 near-term goal.

### From theory to practice

Here comes an example of the type of emissions reduction work Trane Technologies does with customers every day. Earlier this year, [Trane business completed a major project with the State of New Mexico](#). It is the first-of-its-kind State Buildings Green Energy Project (SBGEP) in New Mexico, a decarbonization-focused initiative to modernize more than 30 aging government buildings in Santa Fe.

The buildings, all over 50 years old, received a sustainability makeover. In addition to new high-efficiency HVAC systems and rooftop solar panels, nearly all buildings are now outfitted with LED lighting, water conservation measures and advanced controls to monitor and maximize energy efficiency. The project will help the state reach its 2050 net-zero carbon emissions goal, saving local taxpayers \$1.1 million dollars, eliminating 7,400 metric tons of carbon emissions, and conserving 5.1 million gallons of water annually.

### Delivering on goals

This is a journey Trane Technologies is firmly committed to, and it is using science and strategy to ensure the company will reach its goals. In its most recent report, Trane Technologies shared that the company exceeded or met its annual targets for nearly all its 2030 Sustainability Commitments, demonstrating tangible progress on its glidepath toward significant reductions in carbon emissions, energy use, waste, and water. And Trane Technologies did it while increasing representation of women in leadership and transforming the diversity of its workforce to reflect its communities.

Aligning the company's strategy with its bold commitments has set it on a relentless pursuit of innovation with a community of people focused on real action. Trane Technologies sees a path to a more sustainable business, industry, and world.

\*Since 2019 baseline.

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### About Trane

Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit [www.trane.com](#) or [www.tranetechnologies.com](#).

### About Trane Technologies

Trane Technologies is a global climate innovator. Through our strategic brands Trane® and Thermo King®, and our portfolio of environmentally responsible products and services, we bring efficient and sustainable climate solutions to buildings, homes, and transportation. For more information, please visit [www.tranetechnologies.com](#).



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