



A letter to climate investors.

When Breakthrough Energy launched in 2015, climate innovation was barely on the agenda. Most climate conversations were limited to scaling up existing technologies, like wind, solar, or EVs. The world wasn't yet talking about technologies needed to solve for emissions across every sector of the global economy – agriculture, buildings, electricity, manufacturing, and transportation – or what we call the Five Grand Challenges.

Now, nearly 10 years later, it's clear that climate tech has arrived. Because the private and public sectors made bold investments and governments implemented smart policy to incentivize markets, innovators around the world have developed breakthrough solutions.

This summer's Breakthrough Energy Summit in London was a great opportunity to take stock of the advancements we've made. I'm proud that it was a place not just for learning, but for climate action.

[All of the companies at the Summit](#) could make a significant decarbonization impact across the Grand Challenges. BE's partners have promising solutions for some of the most carbon-intensive processes – like making steel, cement, and plastic – that didn't exist a decade ago. Here are a few I heard from:

[Aeroseal's](#) solutions for HVAC ductwork and building envelopes address energy waste caused by undetectable and unreachable air leaks. The company has sealed more than 300,000 homes, hospitals, schools, and government buildings in 30 countries.

[FleetZero](#) is building a fleet of smaller, more efficient electric-powered ships that run on an innovative battery-swapping system.

[Form Energy](#) is close to completing its first energy storage factory in West Virginia. The company will provide hundreds of local jobs and solutions to enable a clean, reliable energy grid.

[Molten Industries'](#) methane pyrolysis technology produces carbon-neutral hydrogen and graphite, which are critical inputs for clean manufacturing of batteries, steel, concrete, chemicals, and more. Molten has plans to build its first modular reactor in Oakland, California.

[Pivot Bio](#) demonstrated its microbial nitrogen fertilizer for agriculture, which is transforming the way fertilizer is produced and used by the world's farmers.

[Source](#) is on a mission to make drinking water an accessible, unlimited resource around the world. Source demonstrated SOURCE Hydropanels at the Summit, which provide clean drinking water to a wide range of communities, including those experiencing droughts.



Now the real challenge is to get these technologies into the market for wide-scale adoption. This moment is where our climate ambitions meet action.

If there's one thing you took away from Breakthrough Energy Summit, I hope it's this: It's time to invest in climate technologies and accelerate their progress – and those who act now will be the ones who lead the clean industries of the future. The world needs the technologies we saw in London so we can meet our climate goals and build a clean energy future.

I hope our Breakthrough Energy network of investors, business leaders, and public sector partners will prioritize investments in the three phases of climate innovation: Discovery, Development, and Deployment. We've built an incredible foundation for progress since we started this journey together nearly a decade ago. In the next 10 years, it's our job to accelerate our momentum.

Together, we can spur – and lead – a clean industrial revolution. That is the opportunity for all of us.

Rodi Guidero
Executive Director
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