

2025

Intellihot



Environmental Impact

REPORT

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Message from Sri

In 2009, a flood in my basement led me to re-engineer water heating with the ultimate vision of complete energy sustainability. With our launch of the world's first tankless heat pump water heater (the Electron Series), we are closer than ever to our true purpose.

By allowing commercial facilities like hotels to meet their gigantic hot water needs with precise energy use, our products have saved 15.1 billion pounds of CO₂ emissions as of 2024. We look forward to share the progress we've made in exciting new directions that position us for creating a lasting impact through electrification.

Our products disrupt the industry, not people's lives. Built in the heartland - from a manufacturing facility in Galesburg, IL. - our products ensure that customers aren't forced to trade sustainability for utility. This would not be possible without our team of altruistic professionals.

While it gives me immense pleasure to reflect on our successful impact so far, Intellihot's perspective has always been future-oriented. We are geared up to advance electrification and extend the dividends of a sustainably abundant future that a leading home goods chain has already started experiencing.

We hope you are as excited about our mission to leapfrog into a sustainable, dependable, and innovative future.

Sridhar Deivasigamani
CEO & Founder
sridhar@intellihot.com



Company Snapshot



89 FULL-TIME EMPLOYEES

As of 2024, Intellihot employed 89 full-time employees across multiple departments from engineering to production. We continue our efforts at creating a sustainably abundant workforce, and strive for creating an inclusive and supporting workplace for our employees.



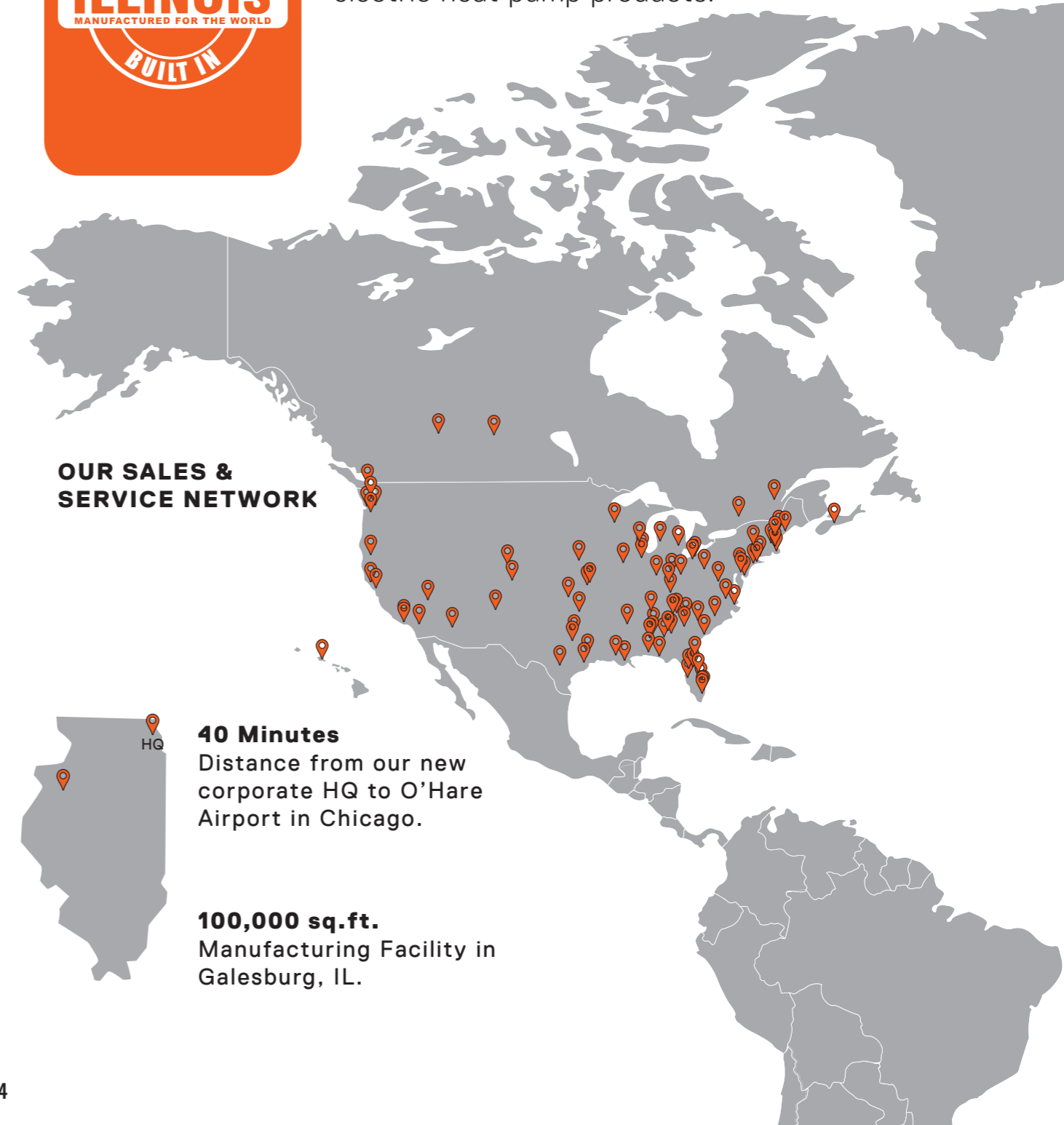
Marissa Willits
HR Director

"Intellihot's commitment to sustainability and creating efficient energy transformations for the climate is built into our organizational philosophy. We seek out individuals to join our team who are passionate about innovation, green energy technology and sustainability. This helps ensure we're building a team of Clim-Tech champions who are not only focused on intelligent consumption, but passionate about it."



Designed in the Heartland.
Built for the World.

Our award-winning innovations are designed and built in Illinois, USA. Our corporate headquarters in the Greater Chicago Area celebrated its second anniversary in 2024. Our manufacturing facility in Galesburg, IL. is being upgraded with an expansion to manufacture our revolutionary electric heat pump products.



OUR SALES & SERVICE NETWORK

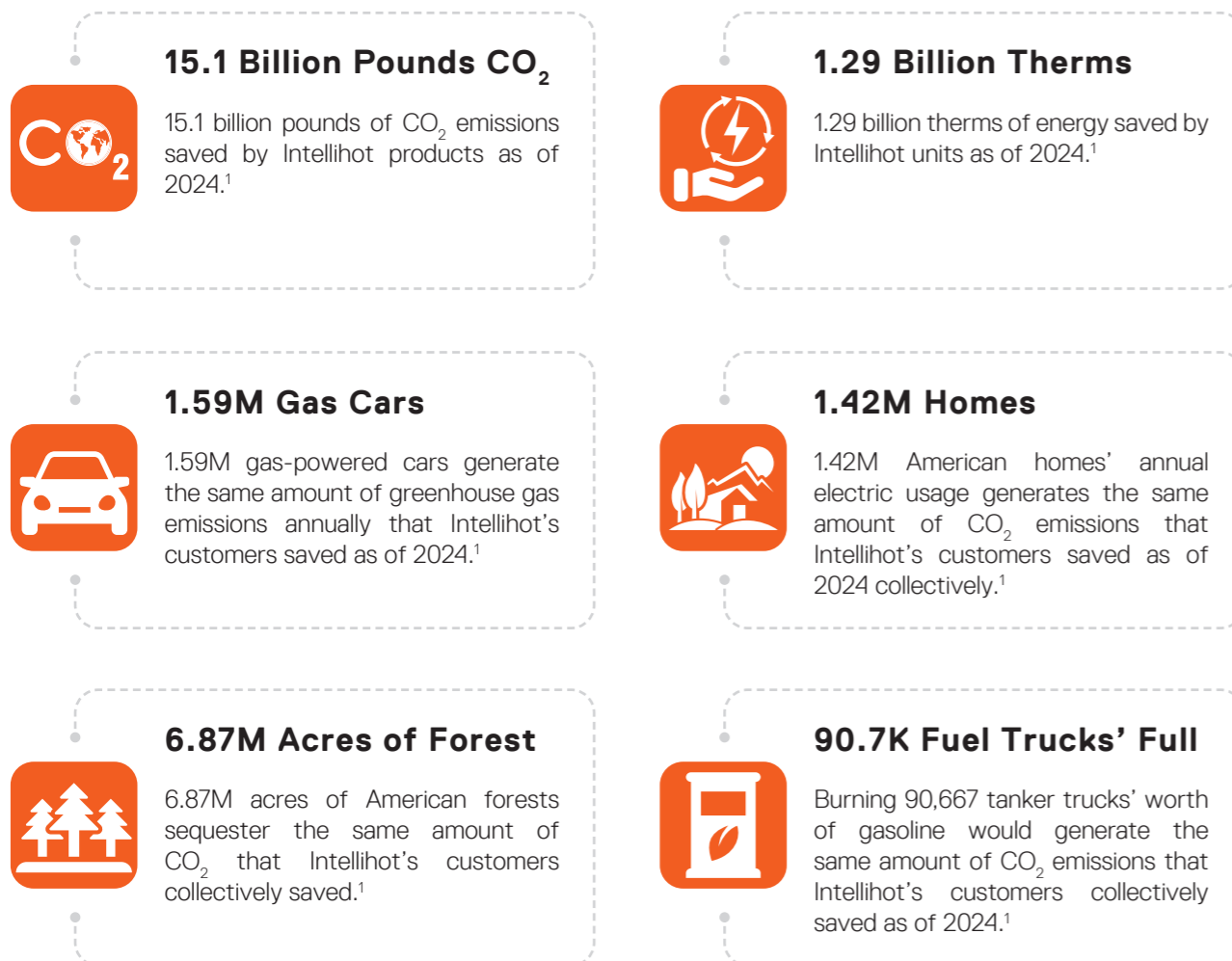


40 Minutes
Distance from our new corporate HQ to O'Hare Airport in Chicago.

100,000 sq.ft.
Manufacturing Facility in Galesburg, IL.

Endless Progress is a Joint Mission.

Every Intellihot unit in operation saves carbon emissions. Endless Progress is a joint mission. As of 2024, Intellihot and its customers have saved 15.1 billion pounds of CO₂ emissions by choosing on-demand water heating.

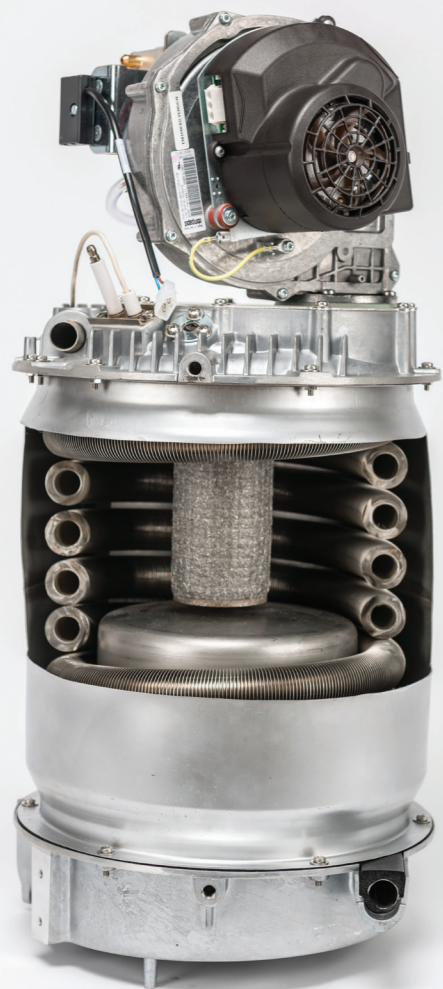


Use only as much as you need: that's intelligent consumption. All of Intellihot's water heaters only consume energy when hot water is needed. Apart from a commercial-grade, on-demand design, they feature multiple smart controls that improve efficient usability. On the other hand, most commercial facilities still use traditional boilers. These giant tanks consume energy all-day long, year-round to keep stored water hot. Intellihot's consumers can save up to 70% on operational expenses, compared to traditional hot water systems.

Intelligent Consumption is Easy to Understand.

One Heat Exchanger. 27 Cross-Country Trips.

Our energy-efficient heat exchangers at the heart of our product line are a result of our modular approach. A single heat exchanger - combined purposefully with others - begins to define our larger units. This modular approach allows us to scale our intelligently efficient technology for every commercial application.



DID YOU KNOW?

If you operated a single Intellihot heat exchanger in place of a comparable traditional tank-type water heater for 1 year, you'd save the same amount of greenhouse gas emissions that 27 gasoline-powered trips from Maine to California would generate.²

37,000+

As of 2024, more than 37,848 Intellihot heat exchangers are in operation. They have operated for a combined total of 1.72 billion hours as of 2024.

Intelligent Consumption is challenging to innovate.

Intelligent consumption is simple to understand but challenging to innovate. Water heating technology hasn't evolved much beyond placing a pot of water over a fire. Since 2009, Intellihot has mastered the science of on-demand water heating to make intelligent consumption possible for one of our most common utilities. Our units can detect outgoing water temperature 20 times every second. That's how precise our system is at sensing and adapting to changes.

A brief history of how we've mastered on-demand water heating:

2009-2014

After founding Intellihot, the heat exchanger and controls were invented first.

2014

Intellihot launched the world's first modular tankless units (iQ751 and iQ1001) with autonomous masterless controls and connectivity.

2016

Intellihot launched the most powerful tankless water heater in the world in 2016. The iQ1501 can power a 150-room hotel by itself.

2018

Intellihot broke its own record by launching the iQ3001 and the iQ2001: now the world's most and 2nd most powerful tankless units respectively.

2021

Intellihot brought digitization to existing water heating systems by launching telliBot_AI: a water heater failure forecasting service.

2023

Intellihot introduced on-demand technology to heat pump water heaters by launching the Electron Series - the world's 1st tankless heat pump water heaters.

The Future is Electric. The Future is Here.



We launched the world's first tankless heat pump water heater in 2023.

The Electron Series presents the most viable path for commercial properties to embrace electrification. It transfers thermal energy from ambient air to heat water on-demand, without any storage. By eliminating storage tanks and providing guaranteed sizing with confidence, the Electron Series is a much-needed disruption of traditional water heating methods.



The Electron was recognized for Chicago Innovation's Climate Champion Award.



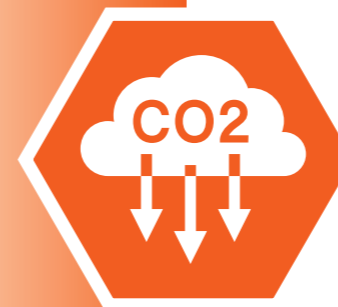
Water heating can account for up to 25% of all energy use in some commercial buildings.³ 50% of buildings' heat is generated by fossil fuel sources.⁴

The Electron absorbs heat from ambient air, using electricity much more efficiently than electric resistance units.



High efficiency heat pumps are projected to save 4.16 to 9.29 gigatons of CO₂ reduction potential.⁵

The Electron combines the efficiency of heat pumps and an on-demand approach, making it the fittest product for electrification.



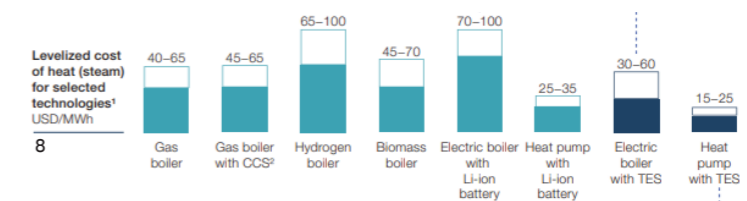
Alternative Refrigerants are projected to save 43.5 to 50.5 gigatons of CO₂ reduction.⁶

The Electron uses the R744 refrigerant which has zero Ozone Depleting Potential and the lowest Global Warming Potential of 1.



Thermal energy storage is much more cost-effective than storing power for heat applications.⁷

The Electron Series features a revolutionary thermal storage battery that can store heat for future use in a much more cost-effective manner than traditional boilers.



Leading Home Goods Chain Embraces Electrification

A renowned Swedish home goods retailer is embracing electrification. They are working aggressively towards their goal of being powered by 100% renewable energy, as well as increasing its energy efficiency by 2025. Electrifying their water heating systems with the Electron iE1 tankless heat pump water heaters is one such exciting initiative that they implemented in their College Park, MD location.



The heat pump water heaters provide hot water for the store's lavatories, as well as the bistro and kitchen which serves delectable Swedish meals. While the DHW system ensures the store never runs out of hot water to stop serving its famous meatballs, it also helps the chain decarbonize its operations.



A Win by Collaboration for Sustainability

Building decarbonization can be achieved with intentful collaboration and the right partners. This project with the leading home goods chain store represents a victory for sustainability by collaboration. Intellihot was able to help the store design a reliable and efficient system by providing consistent applications and sales support.

Active collaboration between facility owners, manufacturers, engineers, and contractors will be crucial for rapid electrification and decarbonization.



Matt Simons
Director of Sales

"Intellihot is paving the way for a greener future by providing consistent support for our consumers before, during, and after the buying journey. Our team has worked tirelessly to educate customers on implementing sustainable DHW solutions that also help reduce their operational costs, space usage, and reliability. We are excited to help our customers cut emissions, space, and costs while also helping the planet move towards a sustainable future."

The Ecorrcrate

Intelligent consumption begins the moment you unbox.

The moment you unbox our latest innovation - the Electron iE1, you're unpacking a fully recyclable box made of corrugated lumber. These boxes are reusable and 100% recyclable. Not a single watt or crate is wasted when you choose the Electron.



Wooden shipping containers are discarded and end up in landfills.

The Electron is shipped in a container made out of paper and cross-laminated corrugated lumber.

These shipping containers are fully reusable.

At the end of their useful life, the containers are recycled and repulped. The recycled pulp is used to make paper for more containers.⁹



End-to-end energy sustainability: its possible.

It is possible to close the loop when it comes to our energy consumption as well. Starting with our gas products' on-demand intelligent consumption, we've made giant strides towards our vision of using cutting-edge technology to reduce environmental impact.

With our newly-launched heat pump range's revolutionary thermal storage battery, we are eager to begin building a world where energy is renewable, reusable, and recyclable.



¹ <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>
² <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>
³ <https://www.esmagazine.com/articles/102681-three-reasons-commercial-buildings-should-install-tankless-water-heaters>
⁴ <https://www.mckinsey.com/~media/mckinsey/business%20functions/sustainability/our%20insights/net%20zero%20heat%20long%20duration%20energy%20storage%20to%20accelerate%20energy%20system%20decarbonization/net-zero-heat-long-duration-energy-storage-to-accelerate-energy-system-decarbonization.pdf>
⁵ Godin, S. (n.d.). In The Carbon Almanac (pp. 158–159). essay.
⁶ Godin, S. (n.d.). In The Carbon Almanac (pp. 158–159). essay.
⁷ <https://www.mckinsey.com/~media/mckinsey/business%20functions/sustainability/our%20insights/net%20zero%20heat%20long%20duration%20energy%20storage%20to%20accelerate%20energy%20system%20decarbonization/net-zero-heat-long-duration-energy-storage-to-accelerate-energy-system-decarbonization.pdf>
⁸ <https://www.mckinsey.com/~media/mckinsey/business%20functions/sustainability/our%20insights/net%20zero%20heat%20long%20duration%20energy%20storage%20to%20accelerate%20energy%20system%20decarbonization/net-zero-heat-long-duration-energy-storage-to-accelerate-energy-system-decarbonization.pdf>
⁹ <https://ecorrcrate.com/>

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