



# The Heat Exchange Corporation: Transforming Waste Heat into Clean Electricity

Introducing Electofusion, a proprietary system that efficiently generates electricity from low-grade waste heat, providing a sustainable solution for industrial customers.

# Introducing Electofusion

A Product From The Heat Exchange Corporation

Electofusion is a revolutionary technology that harnesses the power of low-grade waste heat to generate clean, renewable electricity. By capturing the thermal energy that would otherwise be lost to the atmosphere, Electofusion provides a sustainable solution for industrial customers, transforming an environmental liability into a valuable energy resource.



# Electofusion Technology

Soild State Cell Technology

**Direct Conversion:** It uses the Seebeck Effect.

(Direct Current). **No Moving Parts:** Because it is "solid-state," there are no turbines, bearings, or fluids. This makes it virtually maintenance-free and silent. **Low-Grade Optimization:** Most thermoelectric generators require extreme heat. Our Electofusion cells are specifically "tuned" to work at  $80^{\circ}\text{C}$  to  $300^{\circ}\text{C}$ , which is exactly where most factories lose their energy.





# Competitive Advantage in the WHP sector

Electofusion: Different Technologies with Different Temperature Ranges Fahrenheit to WHP production



150

Electofusion

Patented process with  
Proprietary Technology



302

Turboden

Organic Rankine Cycle  
Technology



500

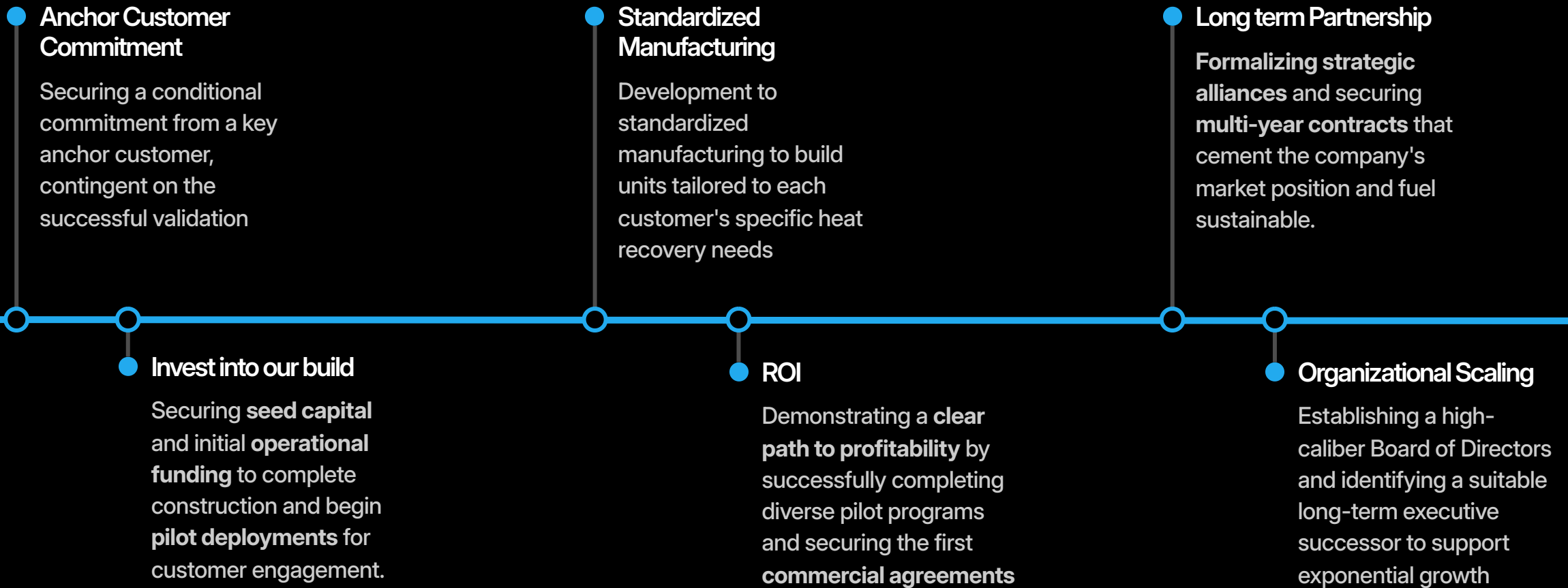
Heat2Power

(WHR) Turbines  
Technology

**Proprietary Manufacturing Processes and Technology**

# Roadmap to Commercialization

## Phase 1: Foundation & The Anchor Contract



# The Heat Exchange Corporation

The Heat Exchange Corp is a proprietary service that captures the thermal energy from Industries that currently vent into the atmosphere and converts it directly into clean electricity for the grid, transforming an environmental liability into electricity cost savings for their customers.

[www.Electofusion.com](http://www.Electofusion.com)



# Founder and Leadership Team



**Phan Kheav**

**Chief Operations Officer**

I am focused on a brighter future by developing practical, sustainable growth,



**Christopher Dunn**

As the CEO of The Heat Exchange Corporation, pioneering innovative thermal management and electrofusion technologies.



**Kouami Bessan**

Chief Technology Officer  
Specializing in the design and engineering of systems. technical solutions that optimize performance.



**AI & Applied Data Analytics**

# Multi-Billion Dollar Market Opportunity

Capturing the Untapped Potential of Industrial Waste Heat



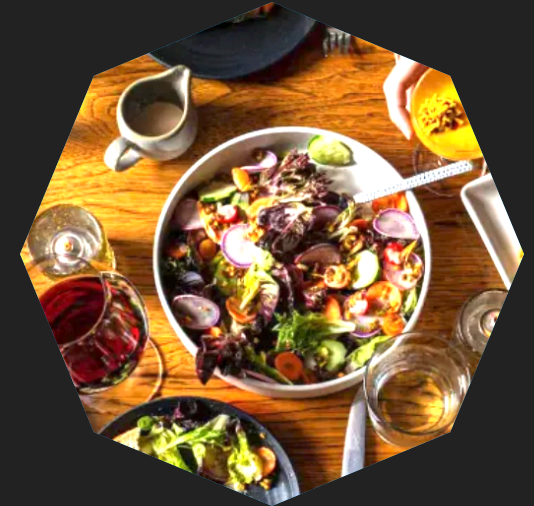
Plastic Manufacturing



Bitcoin Farms & Data Centers



Small-Scale Foundry's



Restaurant's

**TAM Total Addressable Market: \$76.3 Billion**

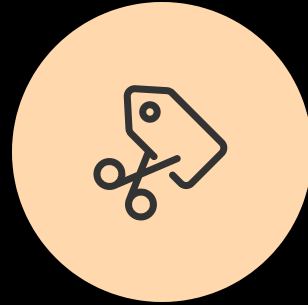
The global Waste Heat Recovery market 2026 Est. This represents the total global demand for capturing industrial thermal energy across all temperatures and technologies.

# Addressing Market Challenges



## Overcoming Technical Complexity

Developing a proprietary Electofusion system that efficiently generates electricity from low-grade waste heat, enabling the company to handle a wide range of waste heat volumes and temperatures



## Reducing High Capital Costs

Focusing on manufacturing to build units precisely tailored to each customer's specific heat recovery needs, lowering upfront investment for industrial customers



## Driving Market Adoption

Deploying a Mobile Demonstration Unit (MDU) to conduct on-site pilots across diverse industrial sectors, proving the technology's capabilities and securing initial commercial sales to build market confidence

By proactively addressing key market challenges, The Heat Exchange Corp is positioning its innovative Electofusion technology as a sustainable and cost-effective solution for industrial customers, driving market adoption and establishing the company as a leader in the waste heat to electricity market.

# Technical Innovations

## Electofusion's Proprietary System

Electofusion is a proprietary system developed by The Heat Exchange Corp that efficiently generates electricity from low-grade waste heat. This system is designed to outperform competitors in handling lower-temperature waste heat environments, where traditional steam and oil heat systems may struggle.

## Electricity Generation from Low-Grade Waste Heat

The core innovation of Electofusion is its ability to convert low-grade waste heat, which is often neglected by other solutions, into clean electricity that can be fed directly into the grid. This unique capability allows The Heat Exchange Corp to capture thermal energy that would otherwise be wasted and transform it into a valuable energy resource.

## Competitive Advantage in Lower-Temperature Environments

While competitors focus on handling high-temperature waste heat from steam and oil systems, Electofusion has a distinct advantage in lower-temperature environments. This allows The Heat Exchange Corp to target a wider range of industrial facilities and capture waste heat that would typically be vented into the atmosphere, providing a more comprehensive solution for their customers.

## Efficient Electricity Generation

The proprietary Electofusion system is designed to efficiently convert low-grade waste heat into electricity, maximizing the amount of clean energy that can be generated from the available thermal resources. This efficiency is a key differentiator that enables The Heat Exchange Corp to provide a more cost-effective and sustainable solution for its industrial customers.

# Potential Financials and Growth Projections

## Phase 3: Scaled Growth & Market Leadership

**Our technology's project economics are a core driver of our business model. We offer industrial clients a compelling and rapid ROI, with a typical payback period of just **1.5 to 5 years**. This fast return is achieved by immediately displacing high-cost utility electricity with on-site power generated from their own waste heat. By converting this thermal liability into an asset, we significantly boost the facility's overall efficiency, making the financial case for adoption self-evident and accelerating our sales cycle**

Project Economics and Return on Investment (ROI) for a Waste Heat Power Recovery



# Invest in the Next Generation of Renewable Energy: Waste Heat to Power

Invest in the Next Generation of Renewable Energy: Waste Heat to Power We are offering an opportunity to move beyond intermittent energy sources and invest in the **future of 24/7 clean power: industrial Waste Heat to Power (WHP).** Your support and contributions will directly fuel our mission to fight global warming and fundamentally improve the **stability and longevity of our planet** by dramatically reducing global reliance on fossil fuels. Join the Movement Your investment doesn't just fund technology; it helps. **Invest with us to secure a cleaner, more efficient industrial future and drive measurable progress in the fight against climate change.**