



Every day, data centers around the globe quietly waste billions of kilowatt-hours, dumping valuable energy as excess heat into the environment. Not only is this an enormous waste, but it's also costly, operators pay significantly to remove this unwanted heat.

NanoTherma changes the game. We convert waste heat into usable electricity using cutting-edge thermoelectric nanomaterials. Simply put, we're transforming energy loss into clean, profitable power.

The Problem

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Data centers worldwide release billions of kilowatt-hours of low-grade heat, energy currently discarded and costly to manage.
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Globally, data centers consume around 3% of all electricity, creating massive financial and environmental costs.
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In the US and EU alone, data centers waste around 300 TWh annually, energy waiting to be recovered.

The NanoTherma Solution

NanoTherma has engineered a revolutionary, slim, and lightweight panel designed to slide seamlessly between the hot and cold aisles of data center racks. Here is how it works:

- No fluids, plumbing, or moving parts, just a durable, solid-state solution providing continuous clean energy.

Our panels passively capture the heat from hot aisles, converting temperature differences directly into electrical current.
- Generated electricity flows back into the grid, significantly cutting data centers' electricity bills.



Breakthrough Technology

Thermoelectric Generators (TEGs) aren't new, but traditional models were inefficient and costly. NanoTherma innovates with:

- Advanced nanomaterials delivering unprecedented efficiency.

Groundbreaking device design optimized for maximum performance.

Scalable, high-volume engineering methods enabling mass adoption.

Market Opportunity

- Our initial target: colocation data centers.
- Deploying one NanoTherma panel per rack across global colocation data centers represents a potential \$22 billion market with a CAGR of 7%.
- Already in active conversations with key decision-makers, CTOs, data-center managers, and operations directors enthusiastic about piloting our technology and becoming design partners.

The Team



Nimrod Gazit

CEO & Co-Founder: Ph.D., brings deep expertise in nanomaterials and integrated photonics, gained at Intel and Nvidia, to his role as founder of a cutting-edge energy startup.



Roi Levi

CTO & Co-Founder: Ph.D., materials scientist and deep-tech entrepreneur with 20+ years of experience turning advanced materials into scalable solutions for industry.

