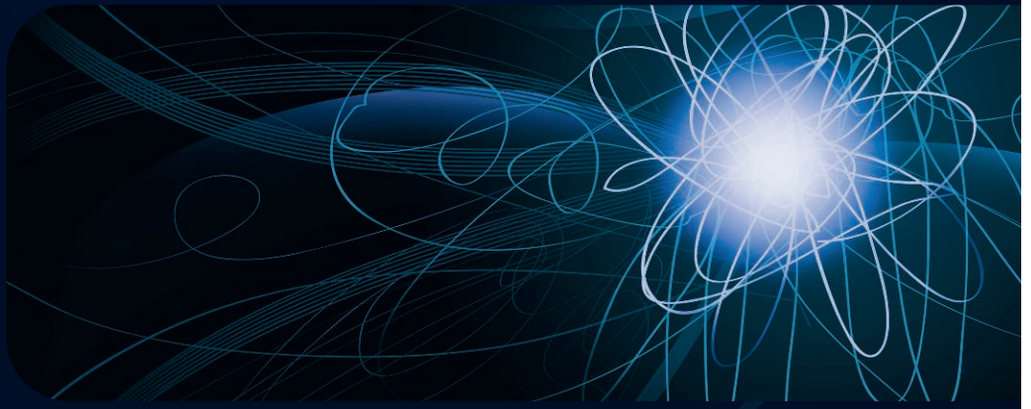
Edgecom Energy

ThermStar System

STRATEGIC PARTNERSHIP | SMARTER ENERGY TOGETHER

CONVERT WASTE HEAT INTO AN ENERGY ASSET. OPTIMIZE EVERY WATT. PROVE THE SAVINGS.

Edgecom Energy × ThermStar System™



Edgecom Energy

ThermStar System

Industrial facilities lose enormous energy through exhaust air — and most never measure it. ThermStar System™ converts wasted thermal energy from the dirtiest airstreams into a usable thermal asset wihile ThermStar™ Power Intelligence measures and vertifies system performance. Edgecom Energy's AI platform tracks, quantifies, and optimizes every kilowatt-hour saved.

1000+	250+	165M +	26,000+
MW SERVED	FACILITIES	KWH RECLAIMED	MT CO_2 Avoided

THE PARTNERSHIP STACK

AI Intelligence Meets Industrial Heat Recovery

AI ENERGY MANAGEMENT SOFTWARE

Edgecom Energy Platform

- EDI — Generative AI Energy Assistant trained on industrial energy data
- dataTrack™ — Real-time energy, water & gas consumption dashboard
- pTrack® — AI-powered peak demand prediction & cost avoidance
- Demand Response — Get paid to support the grid
- 1,000+ MW served across Canada, US & Europe

HEAT RECOVERY HARDWARE + MONITORING

ThermStar System™ and ThermStar™ Power Intelligence

- Lepido® —- Particulate-tolerant heat recovery for dirty exhaust streams
- ThermStar™ Power Intelligence — Real time monitoring and performance
- Energy Savings — Case studies demonstrate up to 62% reduction
- Proven Reliability —- Zero reported system failures to date
- 165M+ kWh Reclaimed across 13 countries with 8 sustainability awards



HOW IT WORKS

From Waste Heat to Verified ROI

Thermal infrastrcuture converts waste heat into usable energy. Software veritifes and ioptimizes that value. The result: a verified single source of truth across every site.

01 Heat Recovery Meets Energy Intelligence

The ThermStar™ Lepido® unit converts waste heat from exhaust streams that defeat conventional systems. ThermStar™ Power Intelligence measures recovered energy while Edgecom's dataTrack™ ingests recovered energy data alongside every utility feed — giving facility managers a single pane of glass to see exactly how much energy was reclaimed, what it's worth, and how it offsets consumption.

02 End-to-End AI Diagnostics

ThermStar™ Power Intelligence monitors pressure, flow, and temperature to identify performance issues before downtime occurs. Edgecom's AI Energy CoPilot layers in facility-wide intelligence — correlating heat recovery performance with demand peaks, weather, and grid signals to recommend the highest-impact operational adjustments in plain language.

03 Quantified ROI & Verified Savings

Industrial buyers need proof, not promises. ThermStar™ tracks recovered thermal energy in real time. Edgecom's platform consolidates those savings against total utility spend, generates M&V-grade reports, and together we support utility incentive applications — creating an audit-ready record of every dollar and ton of CO_2 reduced.

04 Scope 1 Emissions & Carbon Reduction

Converting exhaust heat into usable energy directly reduces on-site fuel demand and Scope 1 emissions. dataTrack™ measures CO_2 per unit produced and tracks intensity metrics across assets, giving operators a verified, hardware-backed record of actual carbon reductions.

05 Multi-Site Portfolio Optimization

Both platforms are built for enterprise scale. ThermStar™ Power Intelligence provides monitoring and control of distributed ThermStar™ assets under a single login. Edgecom aggregates energy data across every site, enabling demand response participation, portfolio-wide benchmarking, and prioritized capital deployment — so operators know where the next ThermStar™ install will deliver the fastest payback.

WHO WE SERVE

Built for High-Energy Industrial Operators

If your operations are energy-intensive, continuous, distributed across multiple sites, or require preheated building comfort air — this partnership was built for you.

FOOD & BEVERAGE PLANTS

Grease, steam, and humid exhaust recovery

HEAVY MANUFACTURING

Thermal processes and multi-source exhausts

COMMERCIAL & INDUSTRIAL HVAC

Make-up air and process heating applications.

ESG-DRIVEN ENTERPRISES

Verified carbon reduction and portfolio reporting

How the Process Works: From Assessment to Deployment

1 Joint Energy Opportunity Review

Edgecom Energy and ThermStar™ evaluate facility energy opportunities at a strategic level

2 Thermal Recovery Simulation Analysis

ThermStar™ identifies and models high-value thermal recovery opportunities

3 Deployment & Optimization Plan

Edgecom Energy and ThermStar™ provide an implementation roadmap and ROI strategy

READY TO EVALUATE YOUR FACILITY?

Contact our joint team to begin a facility assessment and identify where ThermStar™ and Edgecom can deliver measurable operational and financial impact.

edgecom.ai/smarter-energy-together/

Edgecom Energy

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ThermStar System™

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