

Converting Heat into Watts

with Next-Generation Materials

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contact@nanotherma.com



The Team



Dr. Nimrod Gazit
CEO



Dr. Roi Levi
CTO



Our Mission

Save data centers billions of kilowatt-hours by turning wasted heat into clean electricity—cutting energy costs and carbon footprint with breakthrough nanomaterial TEGs.

Data Centers are Massive Heat Factories

40%

Cooling share of Data
Centre Energy Costs

300 TWh

Low Grade Waste Heat
produced in 10,000 US & EU
facilities

50%

Energy Lost as Heat

Operators spending \$ trillions battling heat

They could be monetizing it

NanoTherma Heat Harvesting Panel

Panel that converts heat differentials between hot and cold aisles of data centers in to electricity

No fluids, no pumps – just slim plates that attach to existing racks

Made of novel materials that passively convert heat differentials into power

Return as much as 5% of power consumed by the rack as electricity



Unit Pricing

List price: 750 \$ /m²

Annual savings: 150–500 \$/m²

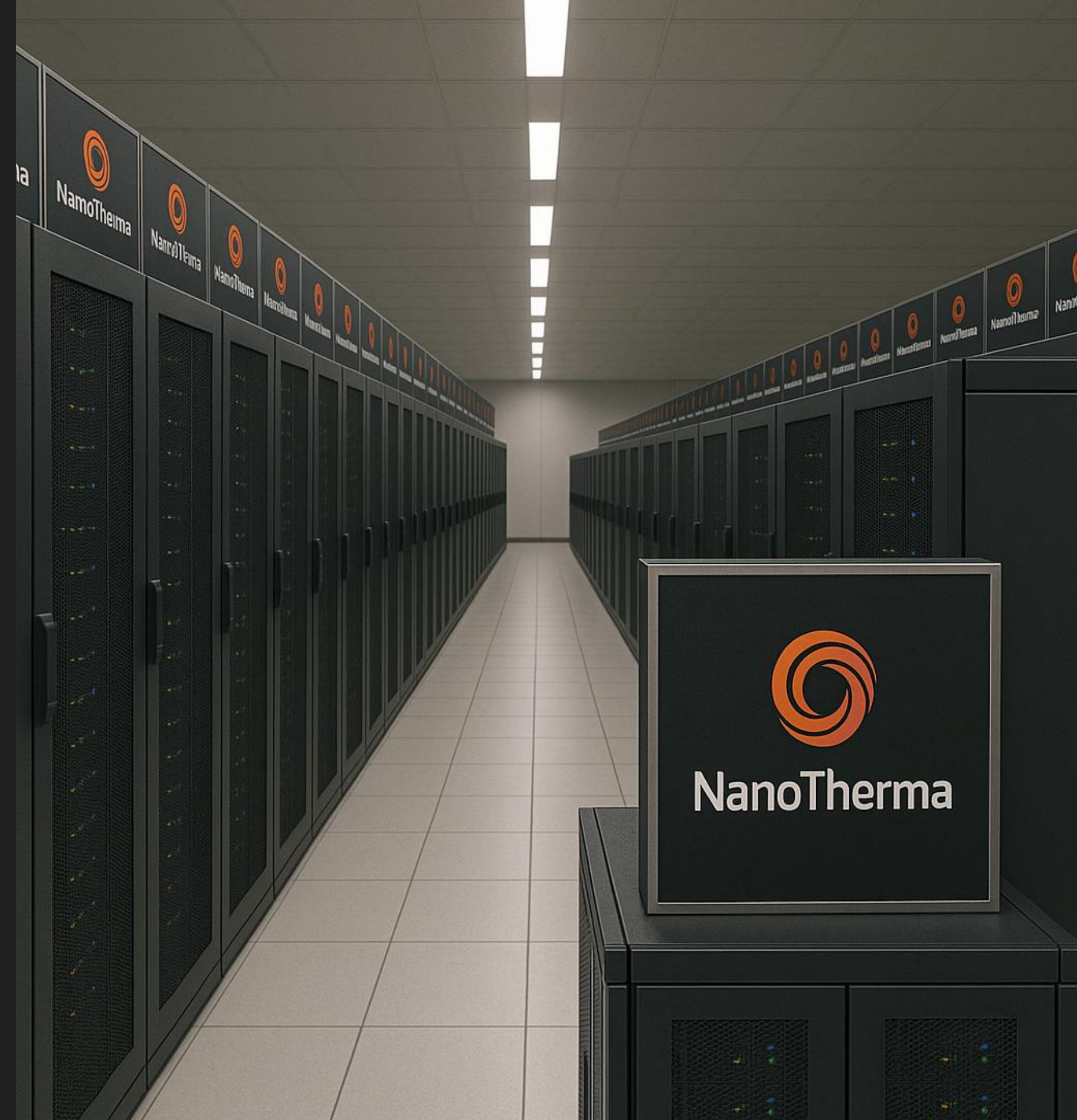
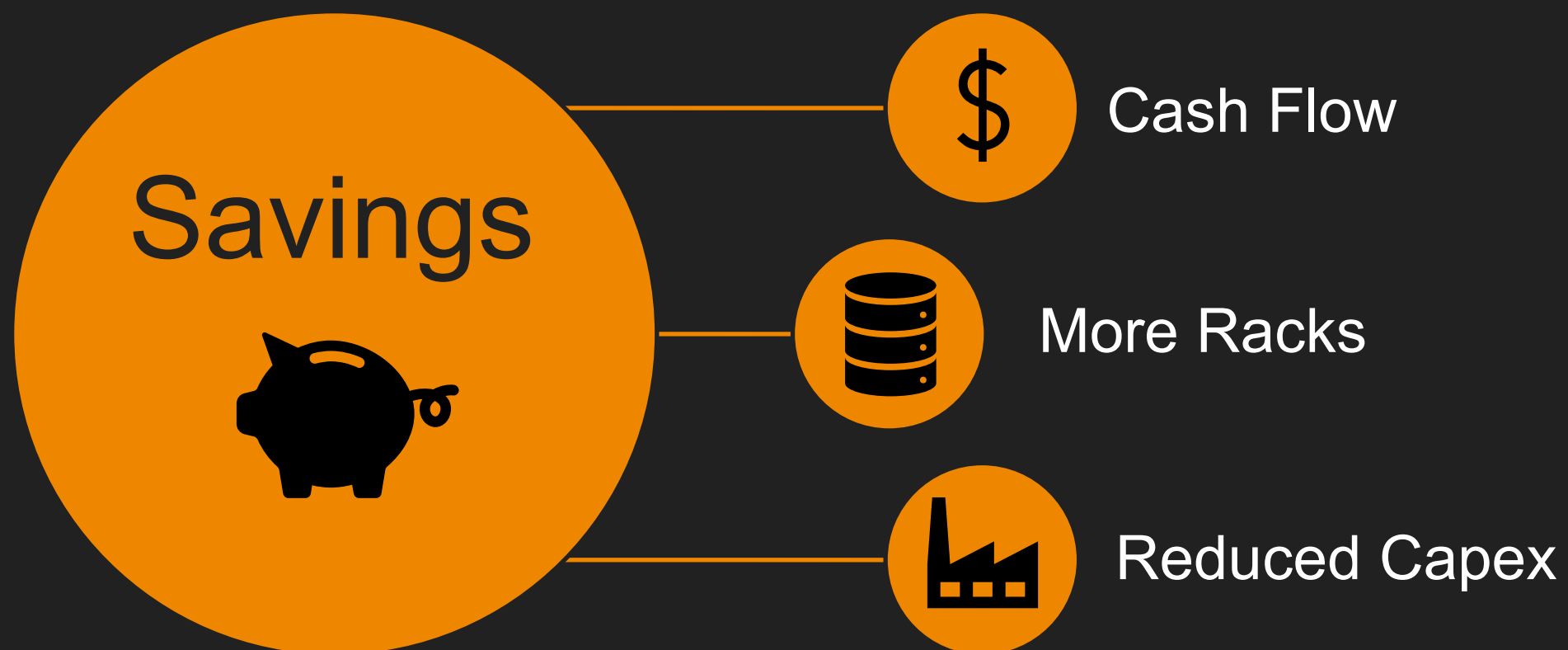
Power produced: 100–500 W/m²

Payback time: ~3 years

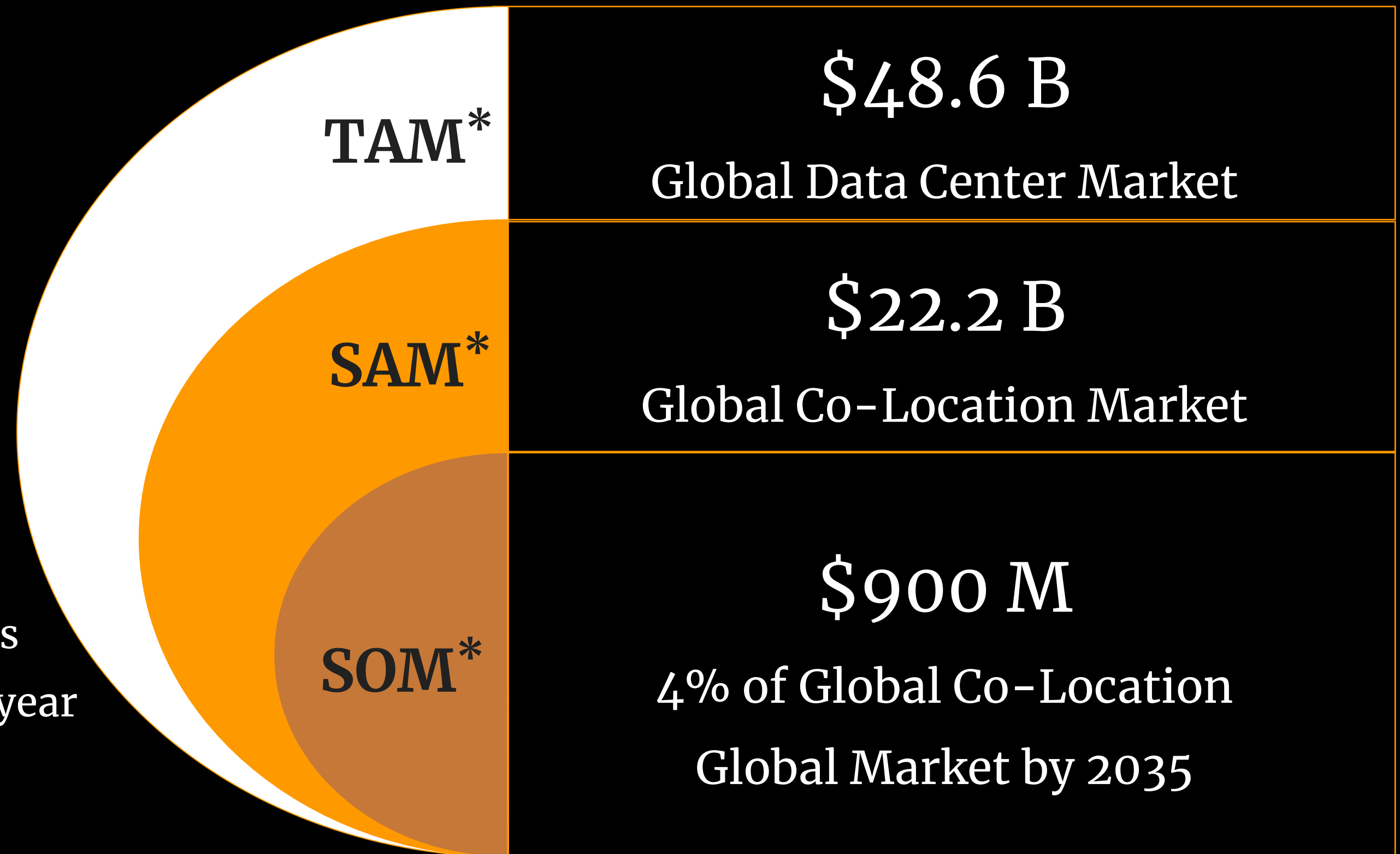
Example savings:

Colocation data center with 3000 racks

= 2.5M\$/yr



Market Size



Data Center CAPEX Investments
2024 \$500B/year -> 2030 \$1T/year

Data Center Power & Cooling
spending
Increasing by 23%/year

* Based on estimated number of data centres in 2035
multiplied by avg. racks/data center and multiplied by panel
price

Traction

Highlights from data center customer validation



Chief Technology Officer

Offered to participate in pilot when first device is ready. NED is building one of the most advanced data center in Israel



EMEA Data Center Project manager

Keen to support with ongoing feedback. Thinks best form factor would be as a HAC (Hot Aisle Containment) device



Data Center Manager Consultant

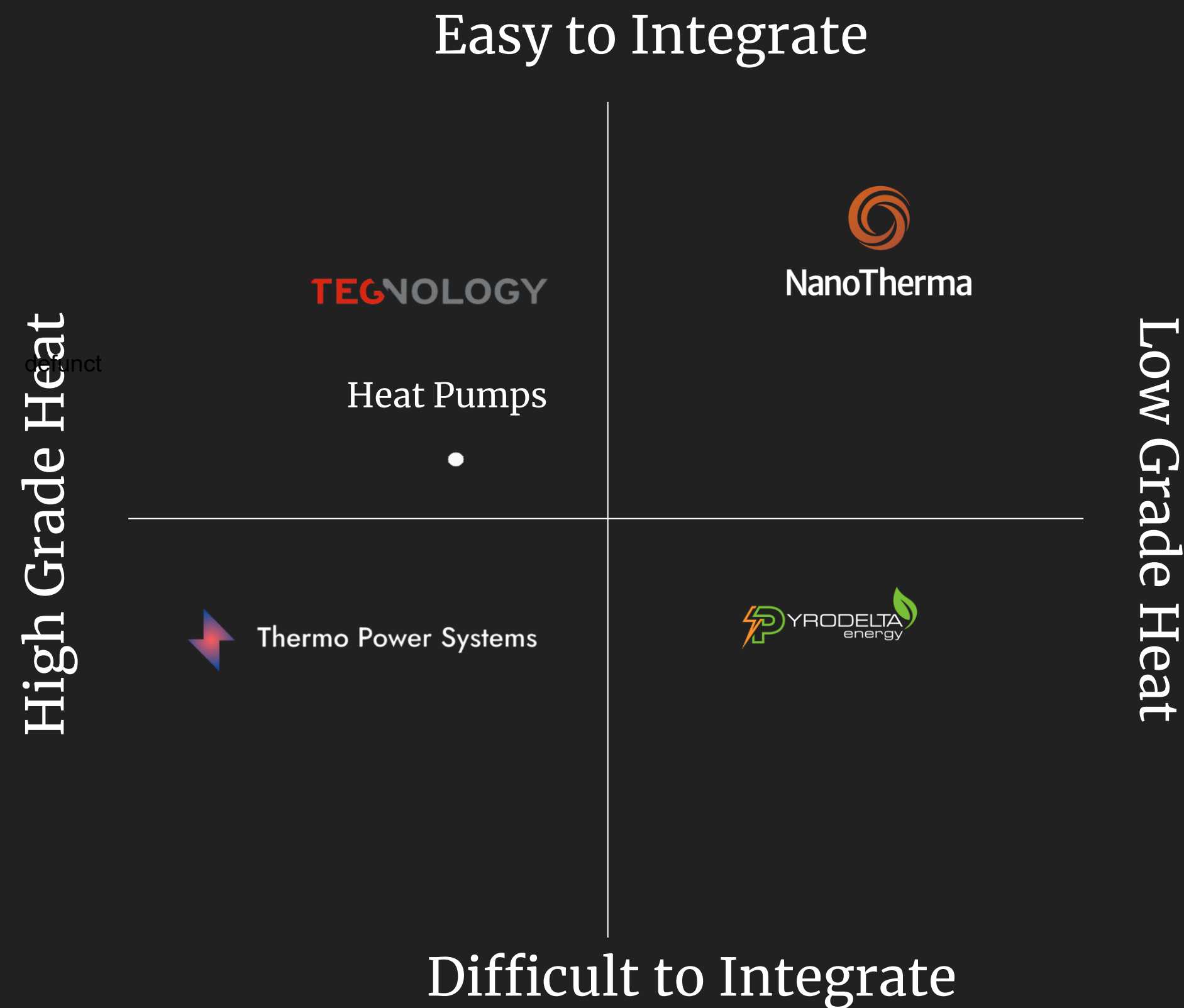
Received permission from one of his customers to install a pilot at their co-lo data center. Also he is available for ongoing feedback.



Ops Enablement Director

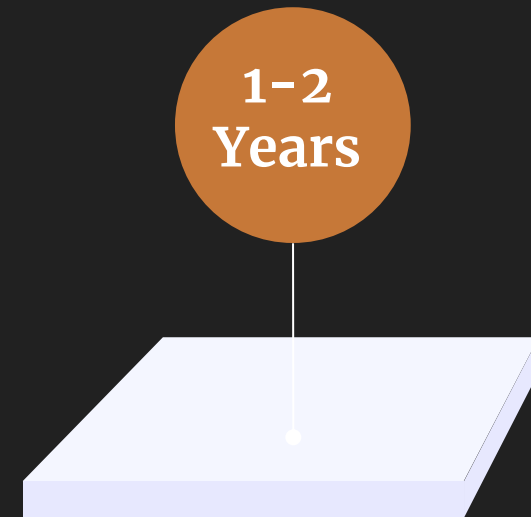
“If someone says to me, here's a pizza-box you just plug-and-play and it feeds power back, I'll bite your arm off.”

Heat Harvesting Competitor Analysis



Roadmap

Pre-Seed



PoC

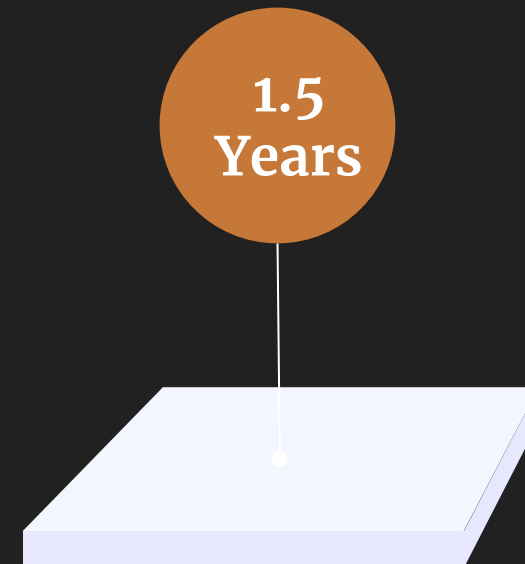
- 10×10 cm lab-validated
- IP strategy and patents established
- LOIs in place
- TRL 3-4
- Initial revenue at end of POC

Ideal customer

Data center operators interested in reducing energy costs and improving sustainability performance

Looking for non-disruptive, low maintenance and easily integrated solutions

Seed



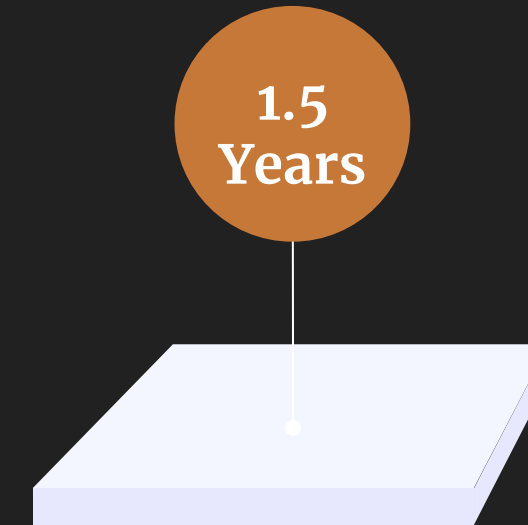
MVP

- MVP in real environment
- Rack testing under real thermal loads
- Pilots signed
- TRL 5-6
- Expected sales - \$3M at MSRP

Acquisition

Early-stage acquisition through direct outreach and pilot partnerships with data center colocation operators, initially in Israel and later in US/Europe

Series A



Data Center Pilots

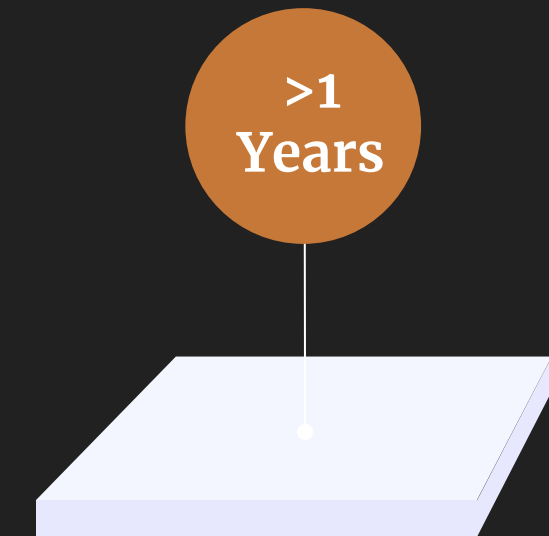
- Pilot Manufacturing Facility
- Pilots in production facilities
- Certify Tech
- Off-takes secured
- Supply chain agreements in place
- TRL 7

Scale

High volume manufacturing processes and equipment 95% similar to solar panel industry

Scaling via OEM and channel partnerships with manufacturers of UPSs, Racks and data center architecture firms

Series B



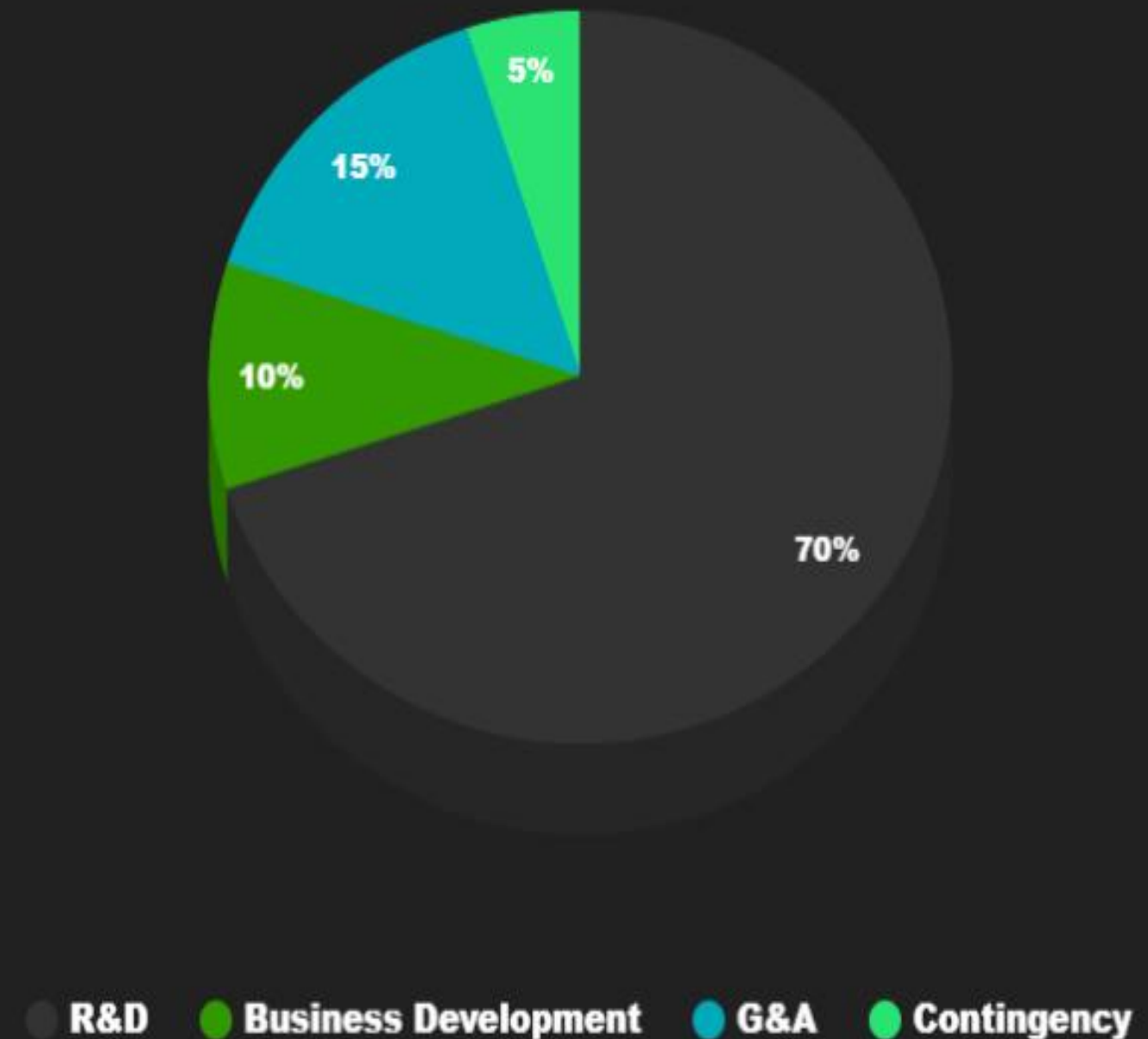
Commercial roll-out

- Commercial launch
- OEM and reseller agreements
- High volume manufacturing
- TRL >8

Pre-Seed Funding

Pre seed Tasks and Deliverables

- ✓ POC validation (energy harvesting demonstration)
- 🧩 Performance enhancement
- 🧪 Initiated cm scale material growth
- 🔧 Mapped required equipment and partners
- 🤝 Begin strategic testing partnerships and sign letters of intent (LOIs)
- 📄 Drafted and initiated filing of provisional patents



We are looking to raise
+\$2.5M

**THE SMARTEST ENERGY
IS THE ONE YOU
ALREADY PAID FOR**

