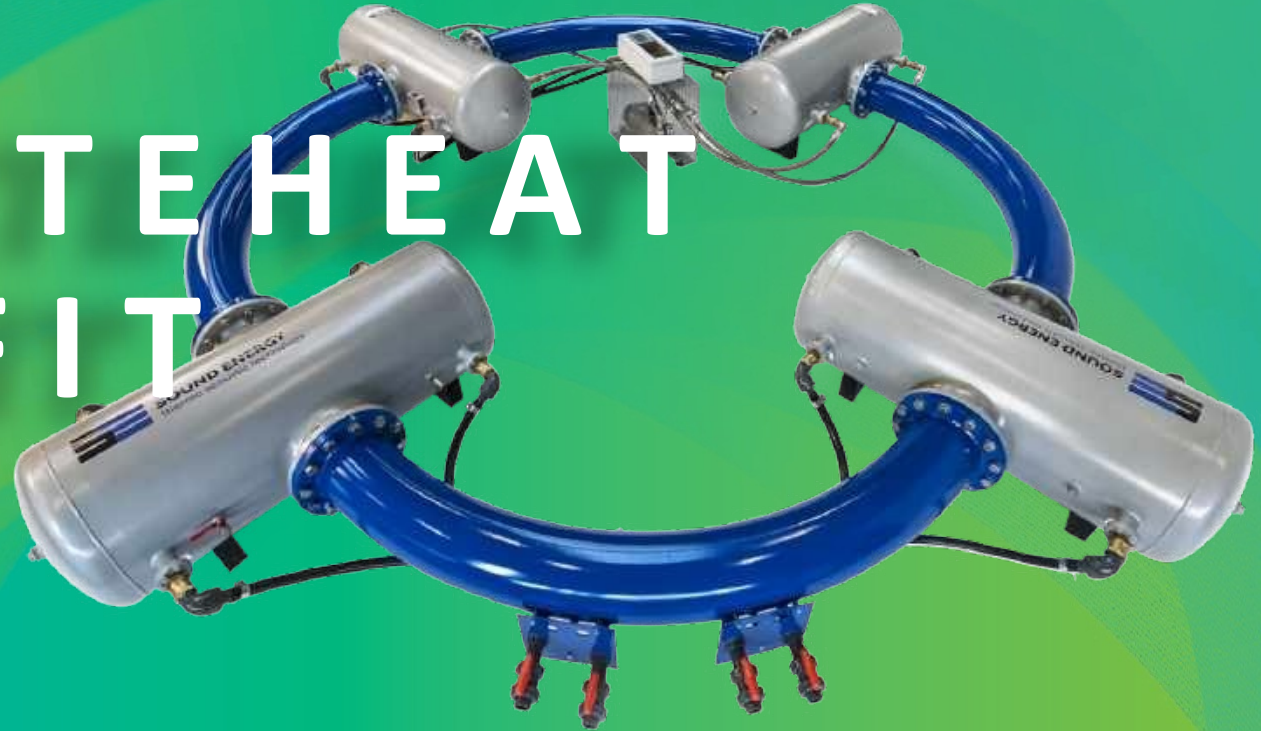




TURN WASTE HEAT
INTO PROFIT
FOR FREE



SOUND ENERGY



SOUND ENERGY

BREAKING NEWS!

- ❖ NEW sales to HONDA motor Co. Ltd. JAPAN
waste heat recovery in spray paint process
- ❖ Second sales in Japan
sales cycle of 35 weeks
- ❖ Joint effort with our Distributor in Japan



HONDA

The Power of Dreams



sinto

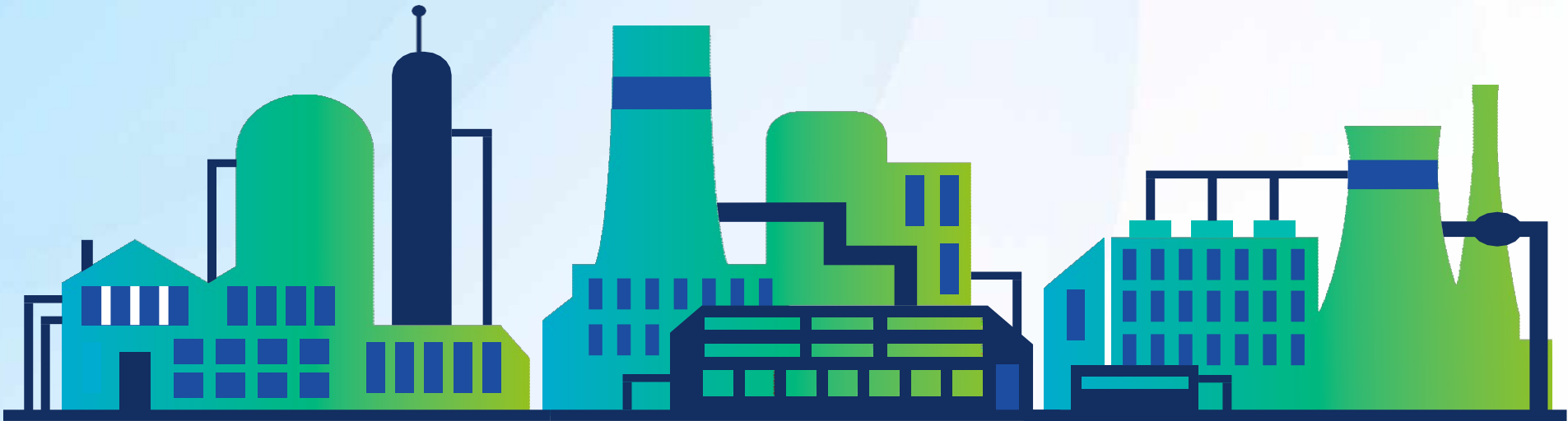


SOUND ENERGY
sustainable cooling solutions



PROBLEM

- ⌘ Rising energy costs is a major challenge
and energy efficiency is a crucial success factor
- ⌘ Demand for cooling worldwide increases
due to global warming
- ⌘ Unexploited waste heat goes up in smoke

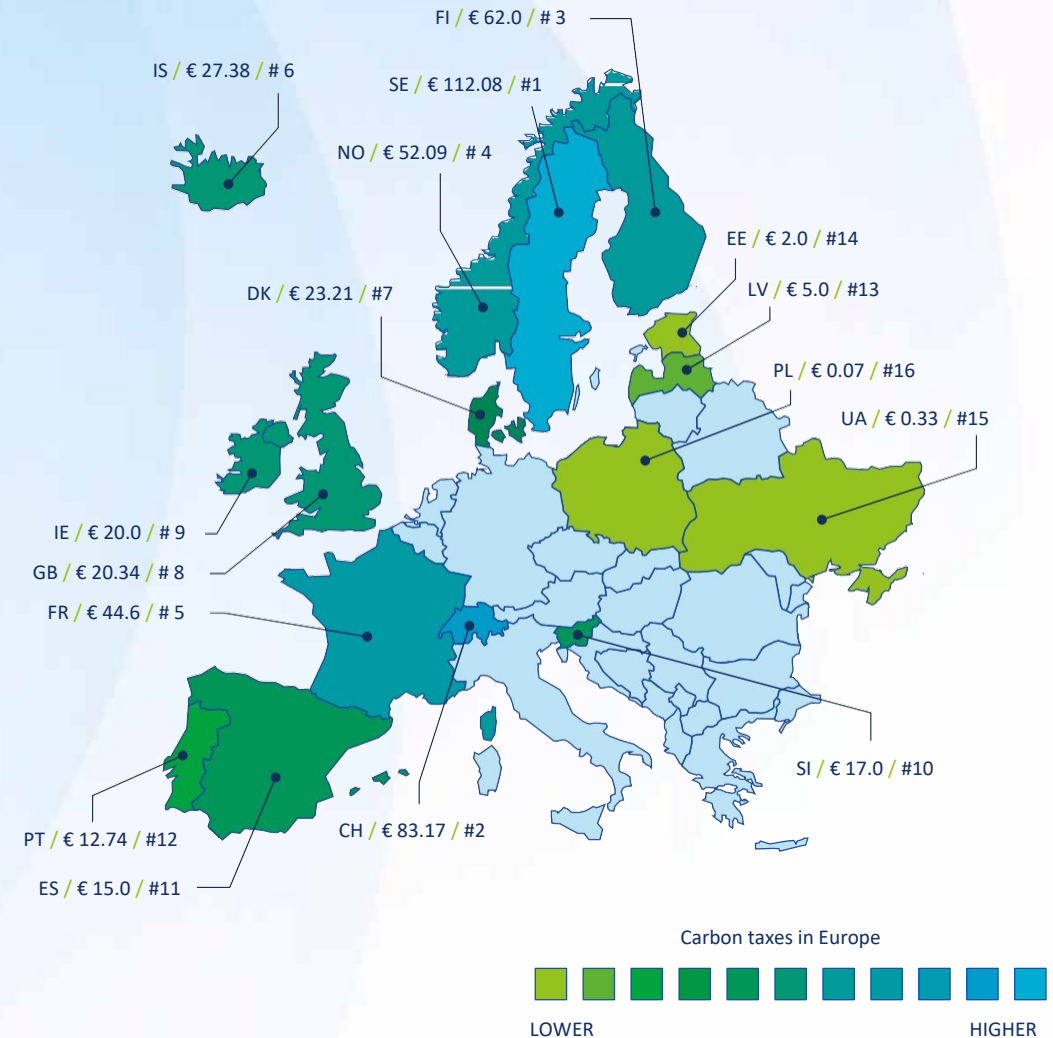




CARBON TAXES ARE UP TO €112 / TON

- ⦿ Reduction of carbon will be taxed globally
- ⦿ Worldwide 2030 climate goals
- ⦿ China, the leader of the world's biggest polluter of greenhouse gases has pledged to go carbon neutral by 2060, carbon pricing introduced; Xi Jinping

CARBON TAXES IN EUROPE
Carbon Tax Rates per Ton of CO₂e as of 2019





SOUND ENERGY

PATENTED SOLUTION

Use waste heat for cooling with high ROI



Transform waste heat
in cooling with high ROI



Save energy and
costs on cooling



Reach Industries
highest
sustainable goals
with our patented
technology

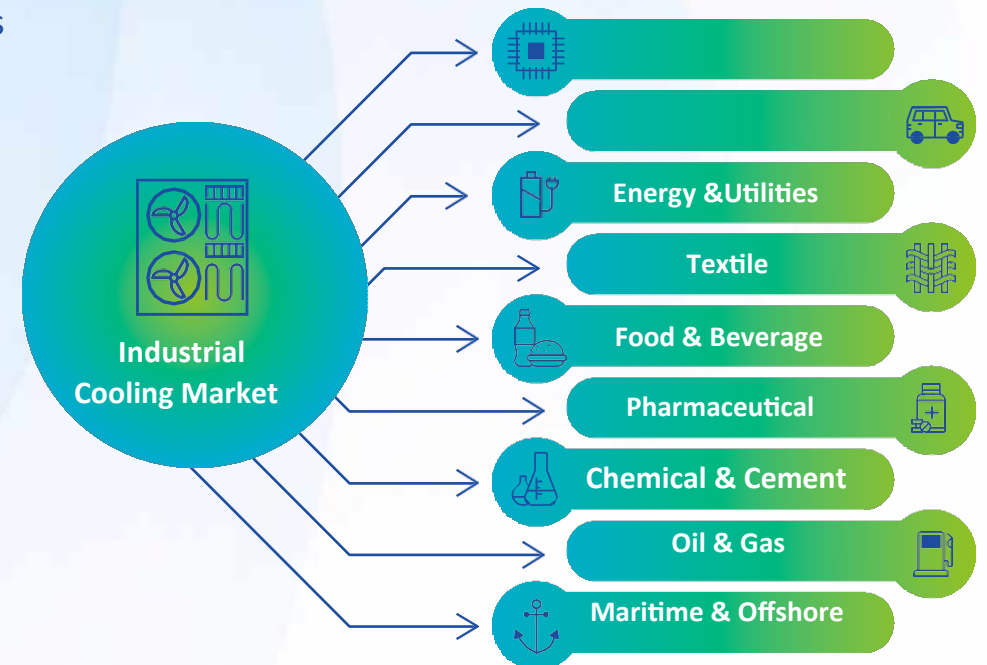


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MARKET VALIDATION

\$120+ MILLION

- ❖ 2020 Industrial Cooling System market will be \$16+ Billion
- ❖ 2025 Industrial Cooling System market is expected \$25+ Billion
- ❖ 78% of manufacturing plants have sufficient waste heat
- ❖ 26% of manufacturing plants have large capacity cooling needs
- ❖ \$3+ Billion cooling market
- ❖ \$120+ million; SoundEnergy aims at 4% marketshare





PATENTED PRODUCT

Easy fit coolingsystem

SoundEnergy developed the thermo acoustic energy converter **THEAC-25**.

The Silent One. The product is designed specifically for locations or plants with a need for cooling at any cold temperature, and with solar or waste heat (> 180°C) available at the same time.

The **THEAC-25** is easy to fit into the available space in stationary application, due to a flat construction. For example integrated in an array of solar collectors, or on the roof near a waste heat or flue gas exhaust.

Types of Waste Heat Streams

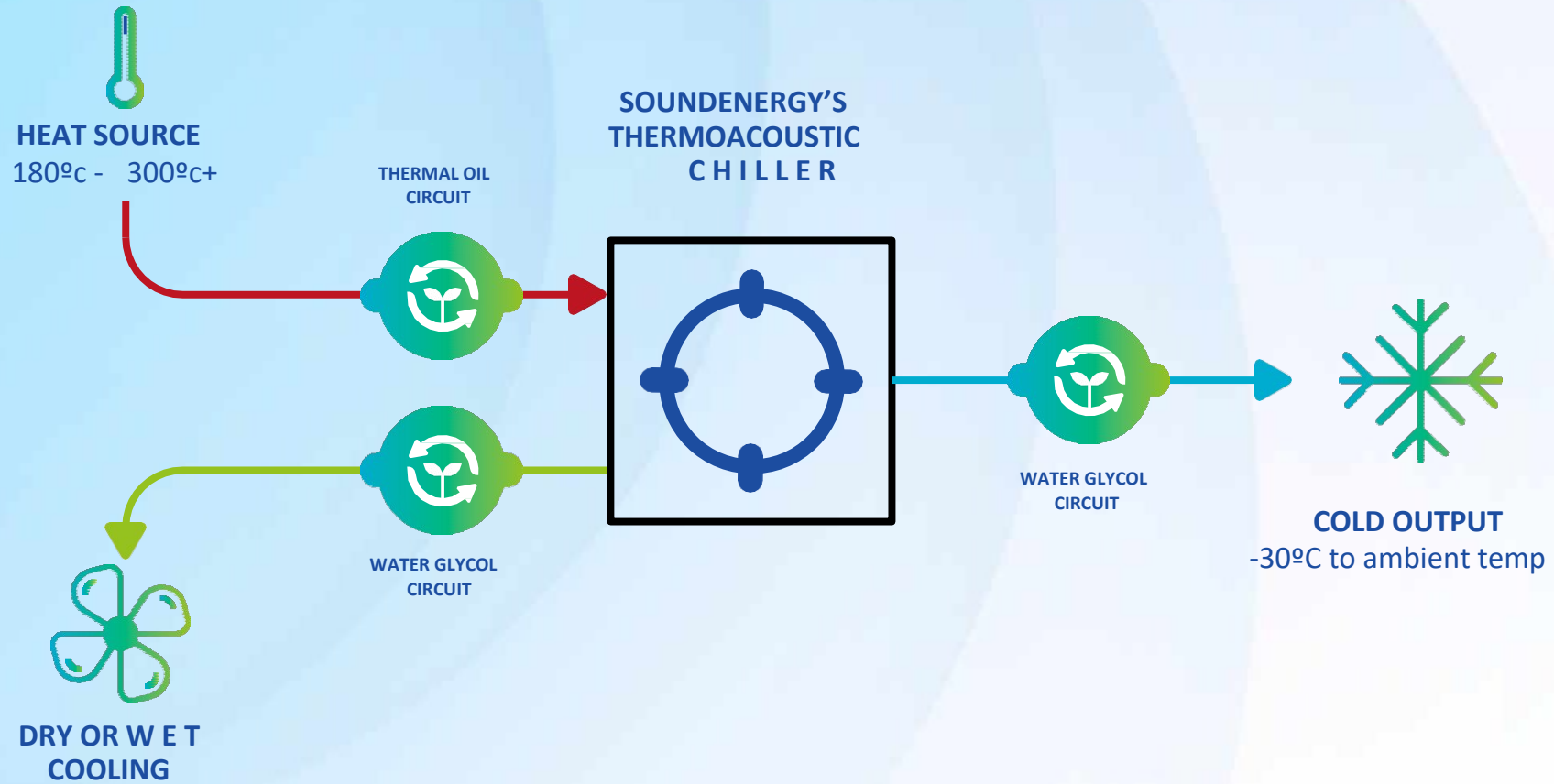
Source of Waste Heat Stream	Example (illustrations only)
Thermal Process	Energy recovered from a furnace, oven, or kiln, and subsequently used in a combined heat and power (CHP) bottoming cycle.
Mechanical Drive	Energy recovered from a natural gas pipeline compressor station.
Other	Waste heat recovered from industrial or other processes that generate heat as a byproduct, such as exothermic reactions, incineration, and pressure reduction.





SOUND ENERGY

COLLECT HEAT AND USE THAT ENERGY TO COOL





SOUND ENERGY

COMPETITIVE ADVANTAGE



The only product
in the market to
transform waste heat
into **cooling with
high ROI**



L o w maintenance



L o n g lifespan.
No wear and tear.
No moving parts.



Patented technology
by Sound Energy.
No greenhouse gases and
additional chemicals



SOUND ENERGY

MARKET INTRODUCTION/LAUNCHING CUSTOMER



“After searching for years, I found a perfect solution for using our residual heat with the THEAC-25 produced by Sound Energy and achieved our Corporate Social Responsibility objective. As a reward for this search I have a relevant saving on my electric power bill for cooling.”

Wouter Jansen van Velsen
CEO and owner of Mocca D’Or
coffee roasters



9/2018

FIRST COMMERCIAL SALES - December 2018 Mocca d’Or Zwolle

APPLICATION - Waste heat converted to Office space cooling

INSTALLED - March 2020

Revenue - first

Model - THEAC-23 /U C



INSTALLED BASE 2020



"SoundEnergy is an innovation that contributes to a better and more sustainable indoor environment for our future schools. The machine is operational and we are analyzing the first data at IKC Magenta."

Gert-Jan ten Hoor
Executive director CNB-climate
Neutral Building



Cool Container installation in Japan for SintoKogio LTD. Demonstrating the T HEAC to the Japanese market.

Sintokogio is exclusive distributor for the geography JAPAN and sold the first THEAC-23UC to a major Japanese car manufacturer
SintoKog io LTD



2019

2020

- The MasterMind Company, Mali
- IKC MAGENTA, Delden
- SIRIUS Energy Systems, Dubai
- SINTOKOGIO, Japan
- REVENU – second and third



MARKET FEEDBACK

⚙ Efficiency

Improve efficiency to 0.8 e.g. 40kW cooling output at 6 °C

⚙ Reliability & Cost down

Improve the durability and the production cost down program

⚙ Capacity

Scale capacity towards 200kW - 1 MW - 4MW cooling units

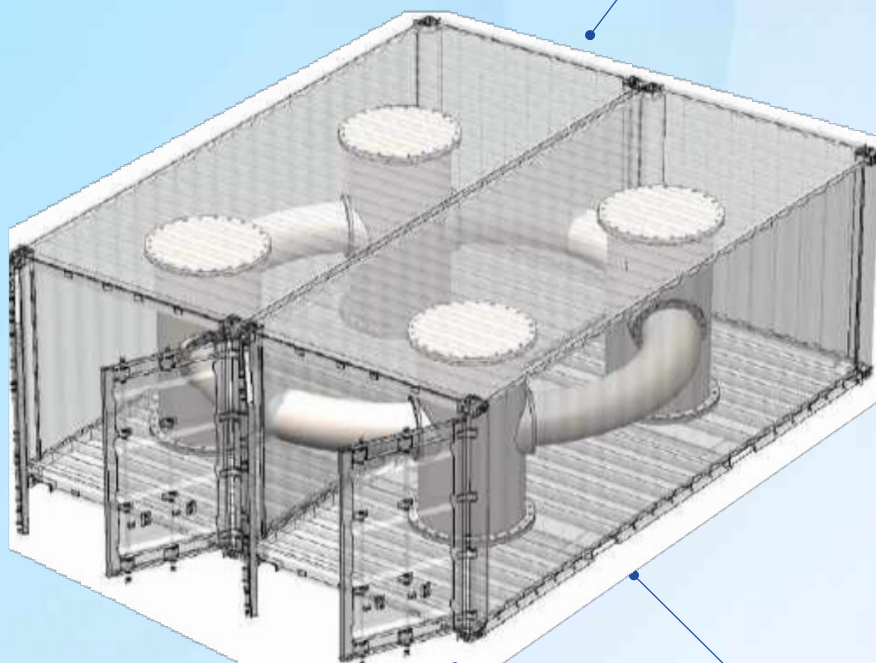




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TECHNOLOGY ROADMAP

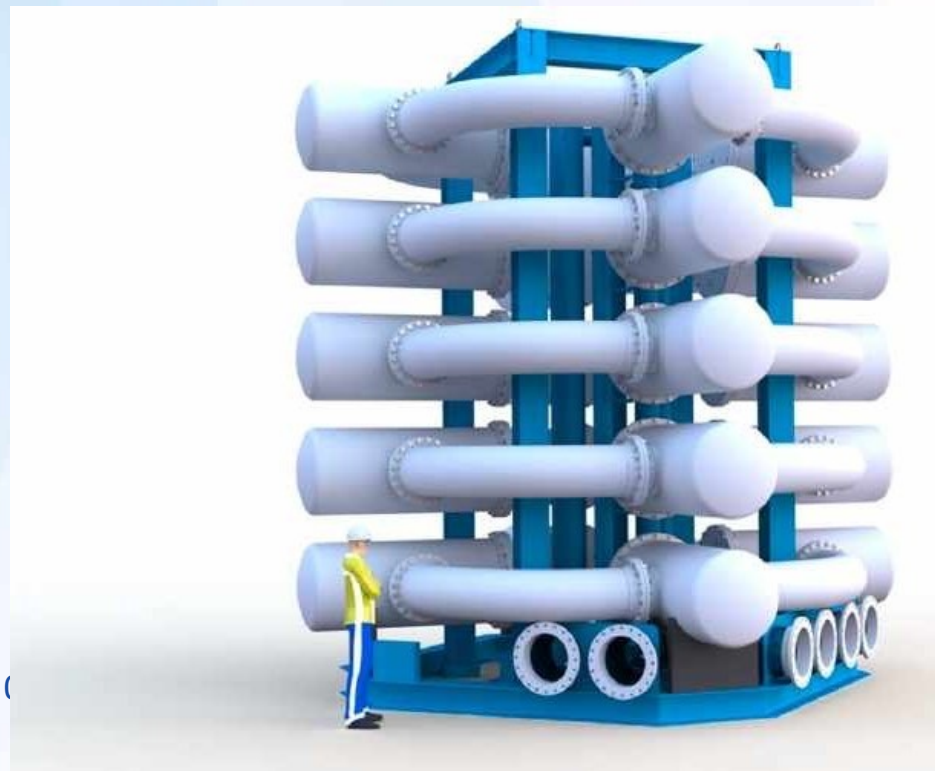
Development of 200 kW
version THEAC-200/OC



Costs € 800,000

€ 800,000 revenue for a
1 MW THEAC cooling unit
@ 40% gross margin

5 THEAC 200 devices
can be serial installed
to a 1 MW version
(THEAC1000).





NEW STRATEGY: THIRD PARTY R&D PARTN

Third party R&D partner is able to help SoundEnergy with their technology roadmap:

THEAC-40	(improved 25kW)
THEAC-200	(200kW)
THEAC-1000	(1MW)

◊ Proven Technology

installed base 3 units in the field for 2 years

◊ Customers

7 units sold worldwide – attractive business cases after redevelopment and scaling

◊ Large market

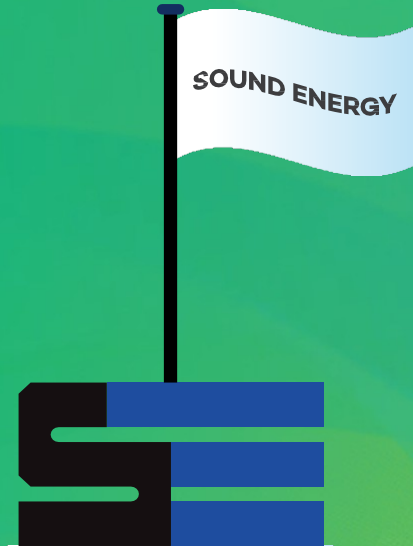
market research shows a large potential

◊ Knowledge available

Technology is easily scalable for higher capacities



TECH DECK



Solution: 1st sustainable commercial grade cooling

economical and ecological space- and process cooling



0

ZERO CARBON FOOTPRINT

ZERO ELECTRICITY CONSUMED

A unique and patented platform:



1) Clean:

0 emissions & -carbon footprint, -hazardous gases

2) Easy:

grid independent



3) Low Heat:

low temperature solar or process heat

4) Reliable:

no moving parts, no maintenance, long life



5) Economical:

electricity free, high efficiency, no consumables

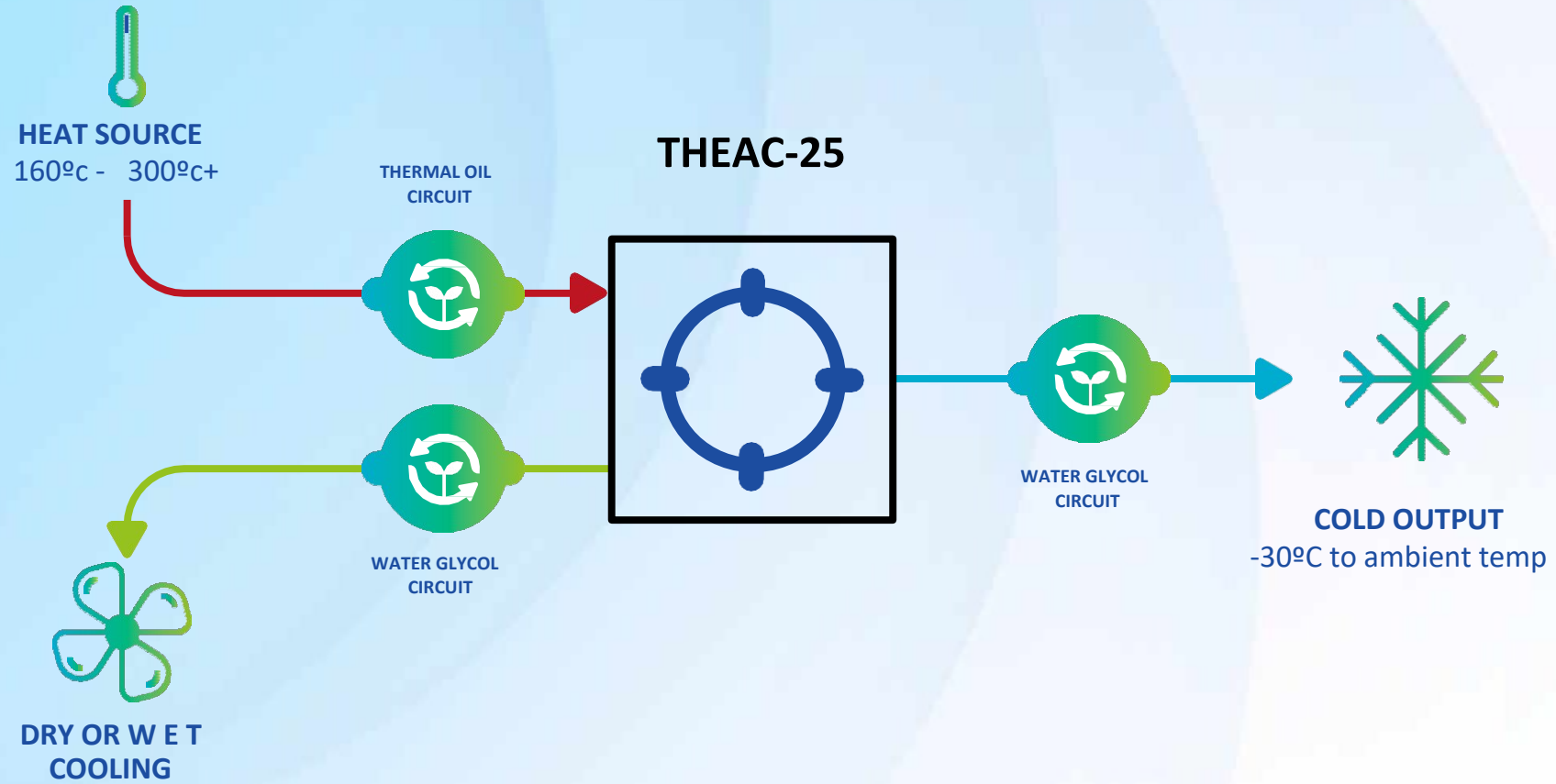
6) Scalable:

high temperature range, from kW to MW



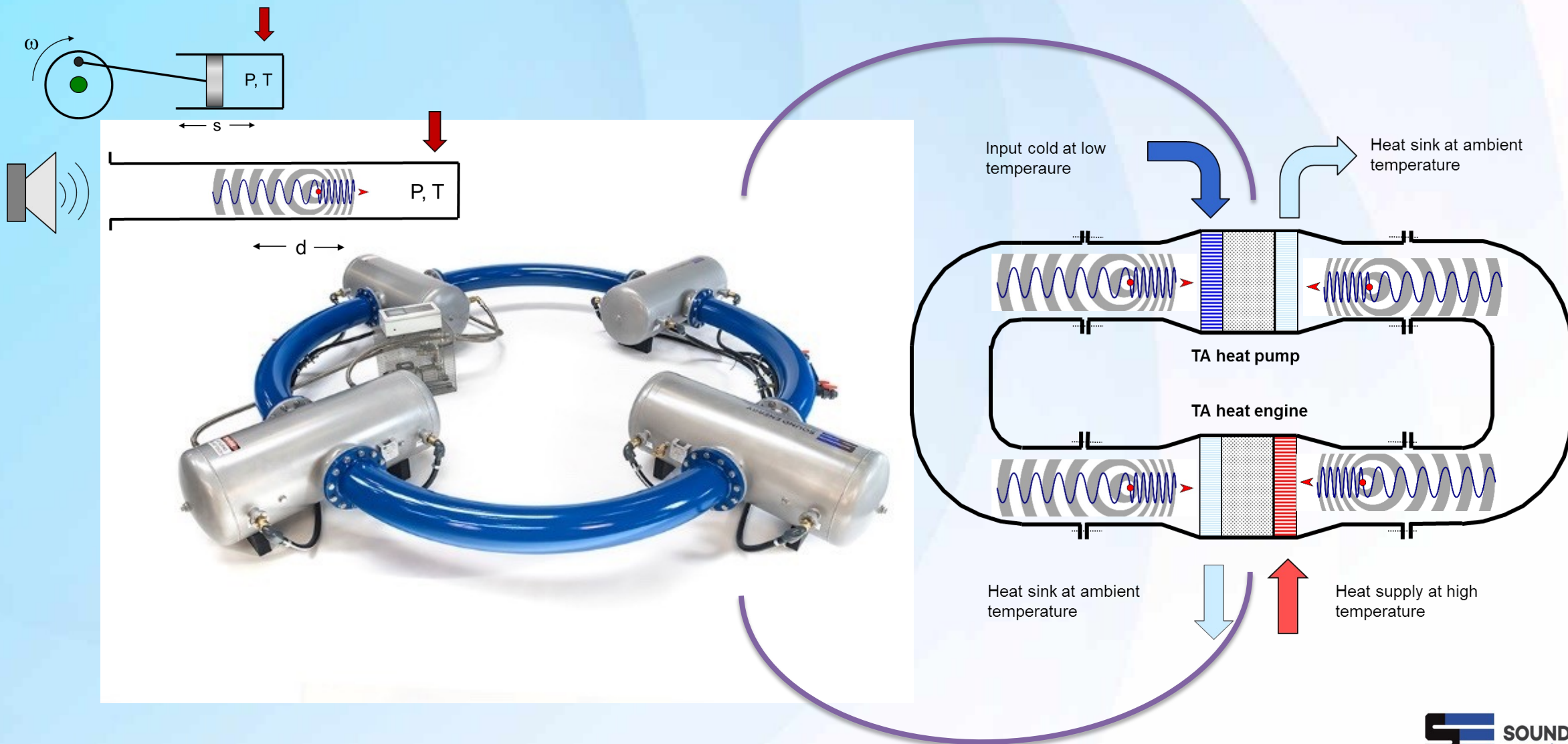
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FLUID SCHEME



Solution: 1st sustainable commercial grade cooling

thermal -> acoustic heat conversion





INTERESTED IN DISCUSSING THE OPPORTUNITY?

Contact

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