



HammerDrum

Cleantech | Deep tech

Market size:

TAM > CHF 6 bn.

FTE now: 3

FTE in 3y: 20

Business Model:

We are McDonald's for drilling rigs. We rent drilling rigs to construction companies and franchise this model in non-strategic markets. In addition, we sell all accessories and materials necessary for the creation of deep geothermal probes.

Vision:

We are developing the key drilling technology that makes energy from geothermal sources economical, worldwide

Customer Profile:

Contractors who are already active in the geothermal drilling or specialist civil engineering market.

Problem/Solution

- **Problem:** 60% of thermal energy is generated with fossil fuels. One solution with great potential could be the use of geothermal energy. Yet, drilling is expensive and requires a lot of space (the construction site is the size of a football field).
- **Solution:** A new drilling technology that can drill with a small footprint and at low cost.

USPs

- **100x smaller site size.** With our drilling process we can limit the construction site to a minimum of 25m²
- **80% cost reduction.** By simplifying the process and through a high degree of automation, we can massively reduce the costs of drilling.
- In other words, we drill in places where no one else can drill today and we do this at 20% of the cost.

Team

- Duarte Santos: MSc. Aerospace Engineering (ETH), ex Head of Engineering at Aeris (\$72 m. exit to iRobot).
- Nicola Nyffeler: BSc. Mechanical Engineering (ZHAW), ex product developer at Menzi Muck AG.
- Oliver Rau: MSc. Business Strategy (UCD), ex Category Development Manager at Digitec.

Competition

- Quaise Energy (fast drilling with millimeter waves)
- SwissGeoPower (fast drilling with plasma)
- Hyper Sciences (fast drilling with impact projectiles)

all competitors pursue the same goal of being able to drill faster and rely on established processes in the oil and gas industry. Our process differs significantly and is characterised not only by lower total costs, but also by a smaller construction site.

Milestones achieved

- Currently, the 3rd prototype is being built and tested.
- Close partnership with several drilling companies to ensure the suitability of the product for the market.
- Technological feasibility study with ZHAW completed in 2022. Feasibility is confirmed.
- Patent pending for hardware and process.

CO2 Reductions in Switzerland

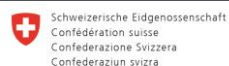
Year	2026	2027	2028	2029
Machines in CH (cumulative)	3	5	10	20
Deep geothermal probes in CH (cumulative)	8	18	38	78
CO2 reductions in tons (cumulative)	400	2'000	5'600	13'200

Key Statement Founders to Investors

- Tremendous potential
- Skilled, experienced and cool team
- Chance to change the world towards a sustainable future.

Investment

- Next financing round: HY2/2023
- Investment: CHF 1.7 m.
- Contact: oliver.rau@hammerdrum.rocks



Innosuisse – Schweizerische Agentur für Innovationsförderung



Erdsondenbohrungen



School of Engineering



SWISSMEM

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www.HammerDrum.rocks, oliver.rau@hammerdrum.rocks, 076 421 19 12