

# Emerald Horizon

## THE FUTURE OF CARBON-FREE ENERGY SUPPLY

The generation of safe and scalable, CO<sub>2</sub>-free electricity in a self-sustaining form is one of the greatest challenges of the 21st century. Emerald Horizon AG's solution is ADES (Accelerator Driven Energy Source), a unique fusion of largely existing and proven technologies. ADES harvests nuclear energy in the subcritical range with the following characteristics: no risk of explosion | no addition of plutonium or uranium | minimal amount of residual material with a significantly shortened half-life | CO<sub>2</sub>-free energy production | reliable (non-volatile) performance | completely self-sufficient & modular | high availability through manufacturing scalability.

ADES - The energy source of the future differs from traditional reactor designs, especially from those of the 4th generation, and is therefore a world first.

### ADES FACTS:

1. Energy module with an output of ~25MW thermal
2. Modular and compact design in a 40-foot container
3. Liquid salt high temperature loop (500 – 900 degrees)
4. Thorium as raw material used (100%, no addition of uranium or plutonium)
5. Injector with instant on/off and dimming function
6. Efficient high-temperature storage (CALStore) with output heat, electricity or hydrogen

### LEADERSHIP TEAM:

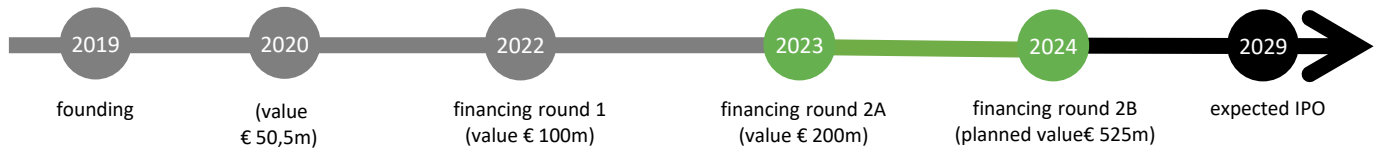
- Florian Wagner (Founder | CEO | Asset Management)
- MMag. Philipp Pölzl (Founder | COO | Legal)
- DI Dr. Mario Müller (research and development)

### DEVELOPMENT PARTNERS

- ✓ Bernard Group (multi-injector | high-temperature storage | electricity & hydrogen production)
- ✓ Graz University of Technology (multi-heat exchanger)
- ✓ Jozef Stefan Institute Ljubljana (neutrons | loop development)

### ADES BUSINESS MODEL – ENERGY AS A SERVICE:

- The customer has no acquisition costs, but pays per kWh of energy produced (contracting)
- Faster market penetration because the customer has no cost risk
- Planned costs per module: EUR 25m
- Planned energy output per module per year: ~118 GWh



### USE OF CAPITAL through financing round 2A

- Acceleration of prototype construction ADES
- Company building: Necessary adaptations to the rental location or purchase/construction of your own building
- Acquisition of company investments in the area of R&D to secure key competencies & technologies and thorium
- Purchase of inhouse equipment to reduce dependence on external companies (e.g. 3D printer | multi neutron source etc.)
- Budget increase for partner companies
- Additional internal redundancy staff

### MILESTONES (incl. 2A&2B) until the IPO

- Completion of the prototype ADES
- Construction of the ADES demonstrator
- Transfer to series production
- Fast market entry through contracting
- Shareholders receive priority supply contracts
- Patents ADES | CALStore | NES
- Prototype and ready for series production CALStore
- Prototype and ready for series production NES
- Contracting in MW (e.g. PV)

#### Details of financing round 2A

Volume	EUR 25m
Company value	EUR 200m pre-money
Period	Q4 2023
Instrument	Capital increase @ denomination 100k

#### Details of financing round 2B

Volume	EUR 225m
Company value	EUR 525m pre-money
Period	Q2/3 2024
Instrument	Capital increase @ denomination 25m