

Table of contents:

1. [Visual Assets](#)
2. [Company Overview](#)
3. [Key People](#)
4. [Product Details](#)
5. [Company Facts & Milestones](#)
6. [Press Coverage](#)
7. [Contact Information](#)

1. Visual Assets

Aepnus logo, along with select photos and visual assets can be found here:

[\[Drive Link\]](#)

2. Company Overview

Mission statement:

Turning today's waste into tomorrow's feedstocks.

What we do:

- Circularity, efficiency, decarbonisation
- Creating more efficient electrolyzers than competitors
 - Lower capex due to use of readily available materials
 - Lower opex due to achieving lower cell voltage

Founding date & location:

2019, Berkeley CA

Key differentiators:

- Reduced cost
 - Lower capex due to use of readily available materials - avoids use of iridium, one of the rarest elements in existence
 - Lower opex due to achieving lower cell voltage - process innovation removes need for higher voltage, thereby conserving energy
- Minimizes regulatory risk - businesses are suffering delays in permitting as a result of insufficient aqueous waste stream disposal plans. Aepnus process eliminates the waste
- Provides greater control over product quality - we can design the system to meet the level of concentration and purity required for our customer's needs. These vary across applications, and Aepnus can serve them all

One-liner summary:

Aepnus is turning today's waste into tomorrow's feedstocks through groundbreaking electrochemical technology.

3. Key People

Headshots can be found in the main [Aepnus Media Kit Drive folder](#).

Founders:

Lukas Hackl

- Founder and CEO
- Activate Fellowship alumnus
- PhD in Environmental Engineering from UC Berkeley
- Master of Mechanical Engineering and Nanotechnology from ETH Zurich
- Bachelor of Mechanical Engineering from University of Edinburgh
- Electrochemistry lab at UC Berkeley; research focused on water desalination via electrolysis

Bilen Akuzum

- Founder and CTO
- Activate Fellowship alumnus
- PhD and Masters in Materials Science and Engineering from Drexel University
- Bachelor of Metallurgical and Materials Engineering from Middle East Technical University
- Electrochemistry postdoc at UC Berkeley; research focused on material responses under stress in an energy storage device

4. Product Details

Our products & services:

- Electrolyzer systems for the purpose of regenerating reagent chemicals from sodium sulfate
- Ancillary services to accompany core product: integration, product purification and concentration, and service and maintenance

How it works:

- Our system plugs into the customer's sodium sulfate producing unit process
- Input to our process is sodium sulfate output from customer process
- Sodium sulfate is put through impurity removal process to remove any contaminants that may have come from customers process
- Removing this reduces contamination of core cell components, thereby, extending cell/stack life
- Pure sodium sulfate brine undergoes electrolysis, producing caustic soda (sodium hydroxide) and sulfuric acid
- Caustic soda and sulfuric acid undergo further purification and concentration for applications where purer, higher concentration products are required
- Ready to use products exit Aepnus' process and re-enter customer's process

5. Company Facts & Milestones

Funding rounds & grants:

- 2.5m pre-seed round
- 8.2m seed round led by Clean Energy Ventures
- \$1m CRITM grant - Quebec, Canada
- \$500k CalSEED grant

Key partnerships:

- Canada CRITM pilot: Vale, Nemaska Lithium, Ultium CAM

Awards & recognition:

- 2024 WMF Start Up Grand Prix at the World Materials Forum (EUR50k award)

6. Press coverage

Notable media mentions:

- [Aepnus Technology Raises \\$8 Million to Electrify Chemical Manufacturing for Circular Supply Chains - Clean Energy Ventures](#)
- [Aepnus Technology raises \\$8M in seed financing - Recycling Today](#)
- [Why We Invested: Aepnus - Clean Energy Ventures](#)
- [TechCrunch: Aepnus wants to create a circular economy for key battery manufacturing materials](#)
- [Aepnus Technology Raises \\$8M in Seed Funding](#)
- [Aepnus Technology raises \\$8 million to recycle battery waste - ImpactAlpha](#)
- [What to do with the battery industry's sodium sulfate waste?](#)
- [BASF battery project delayed because of environmental concerns](#)

7. Contact Information

For all press inquiries, use:

Contact@aepnus.com

Website & Social Links:

www.aepnus.com

<https://www.linkedin.com/company/aepnus-technology/>