

Elastic Energy

Powering a **sustainable future** with ecological, accessible and durable energy storage solutions.



Samuel Bendek: **CEO & Cofounder** Juliana Bendek: **COO & Cofounder**



Why **now?**

Currently, **CO₂ emissions are 6 times higher**
than the Earth's capacity to absorb them!

Aiming Zero Emissions

By 2035, the U.S. will need nearly \$100 billion in battery storage to tackle renewable energy intermittency and ensure reliable use.



Intermittent Renewable
Energy

Clean Energy
Storage

Reliable Clean
Energy

Source: Energy Storage Systems Market Size & Outlook, 2030. Grandviewresearch.com, 2024

What's wrong with the current Batteries

Mineral Mining



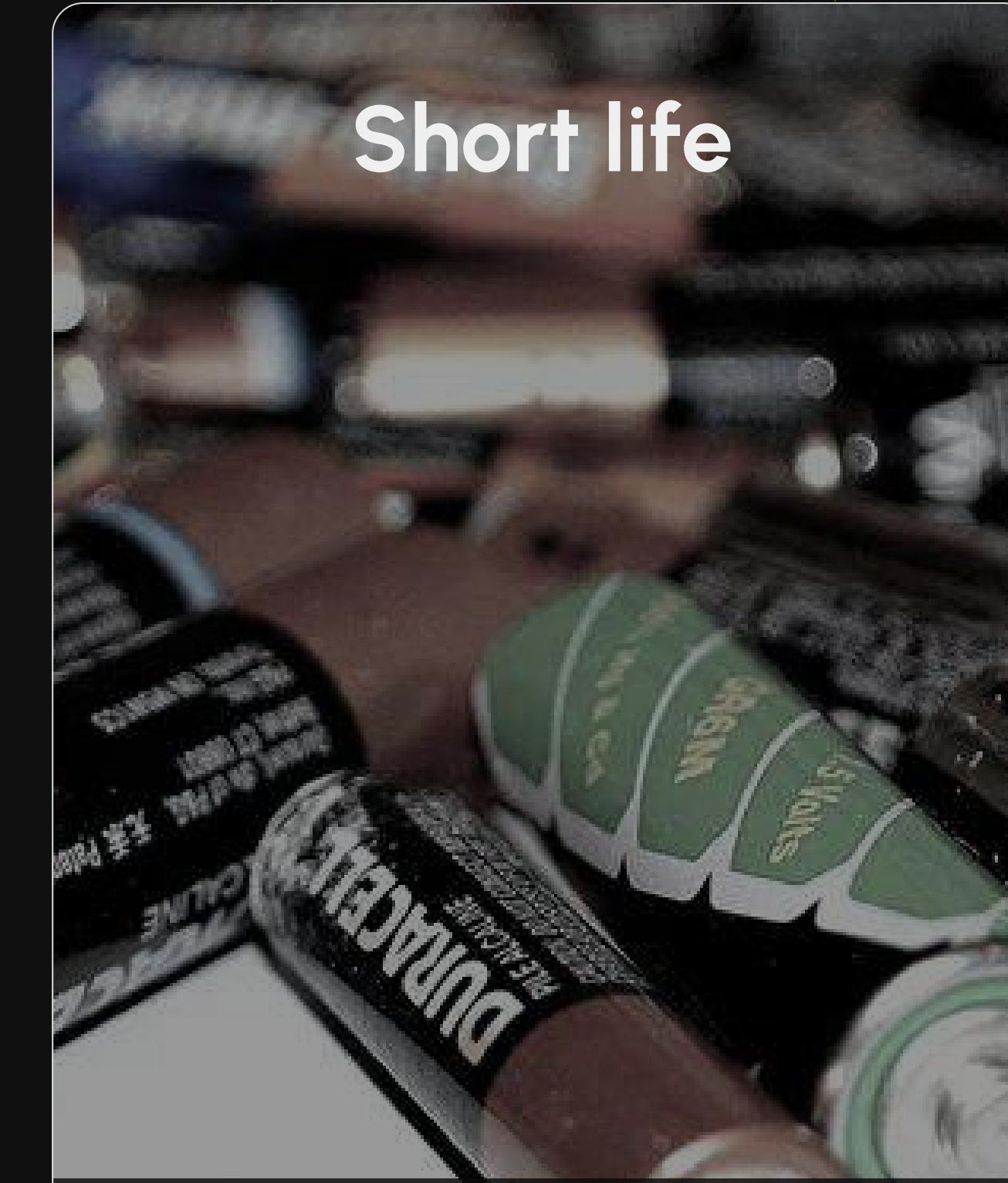
Deforestation, pollution,
and habitat destruction

High Cost



Limited supply, complex
extraction, rising demand

Short life



Lithium-ion batteries
degrade in 8-10 years

The Solution Our battery powered by Tree Sap

Current Stage: TRL 4



VIDEO

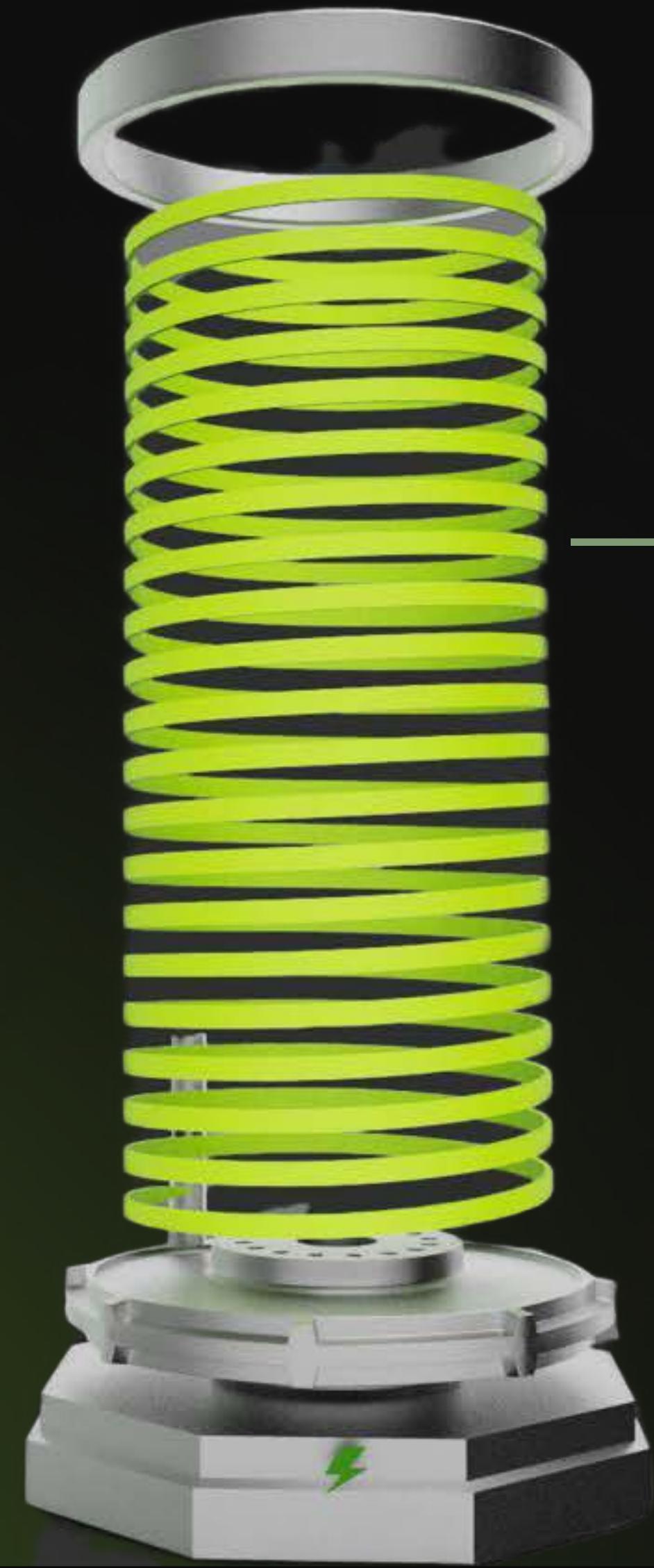
Revenue Model

EB1

30 years

Initial Sell - 1Kwh:

- Price: \$1.000 USD
- Cost: \$400 USD

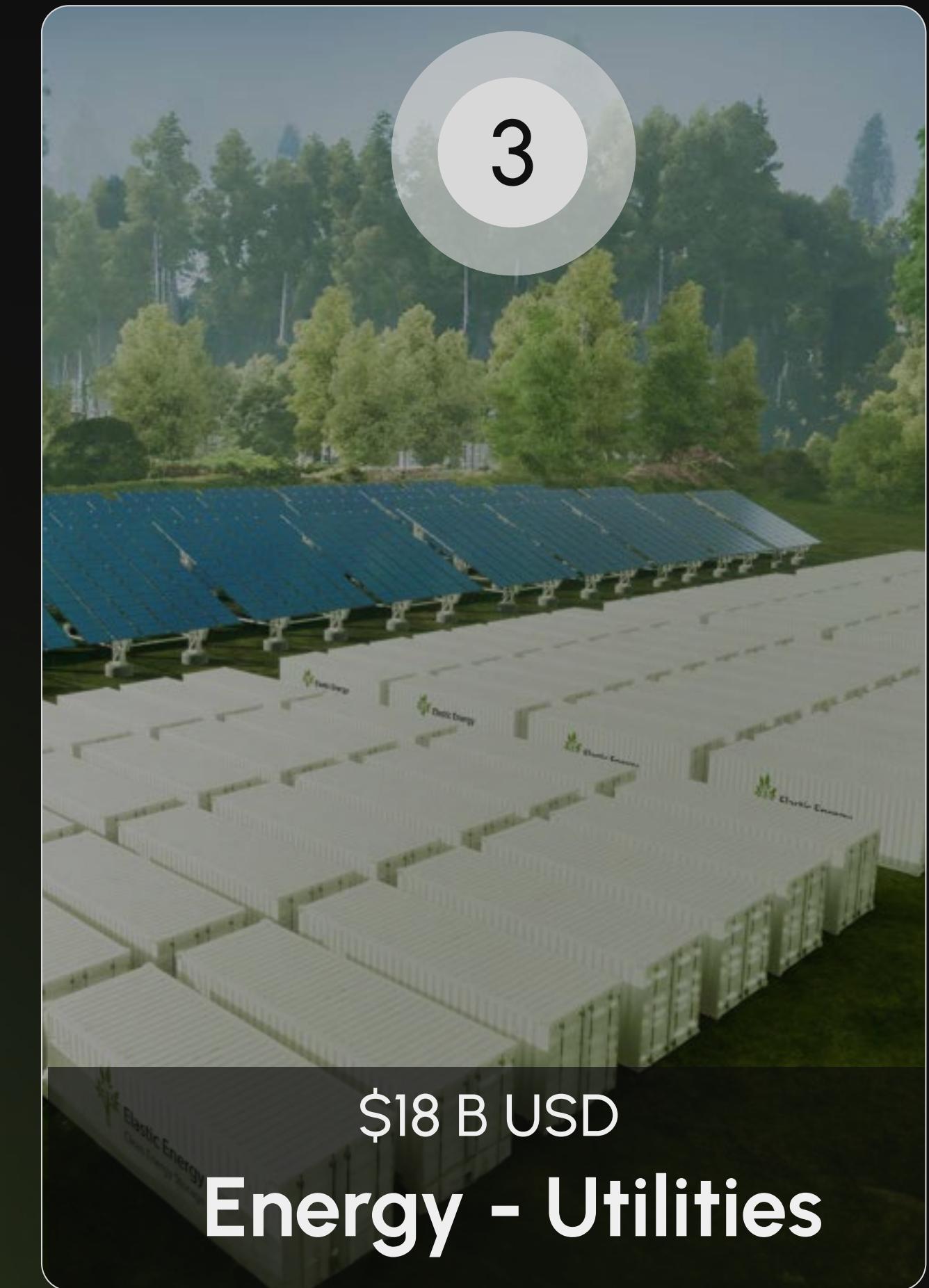
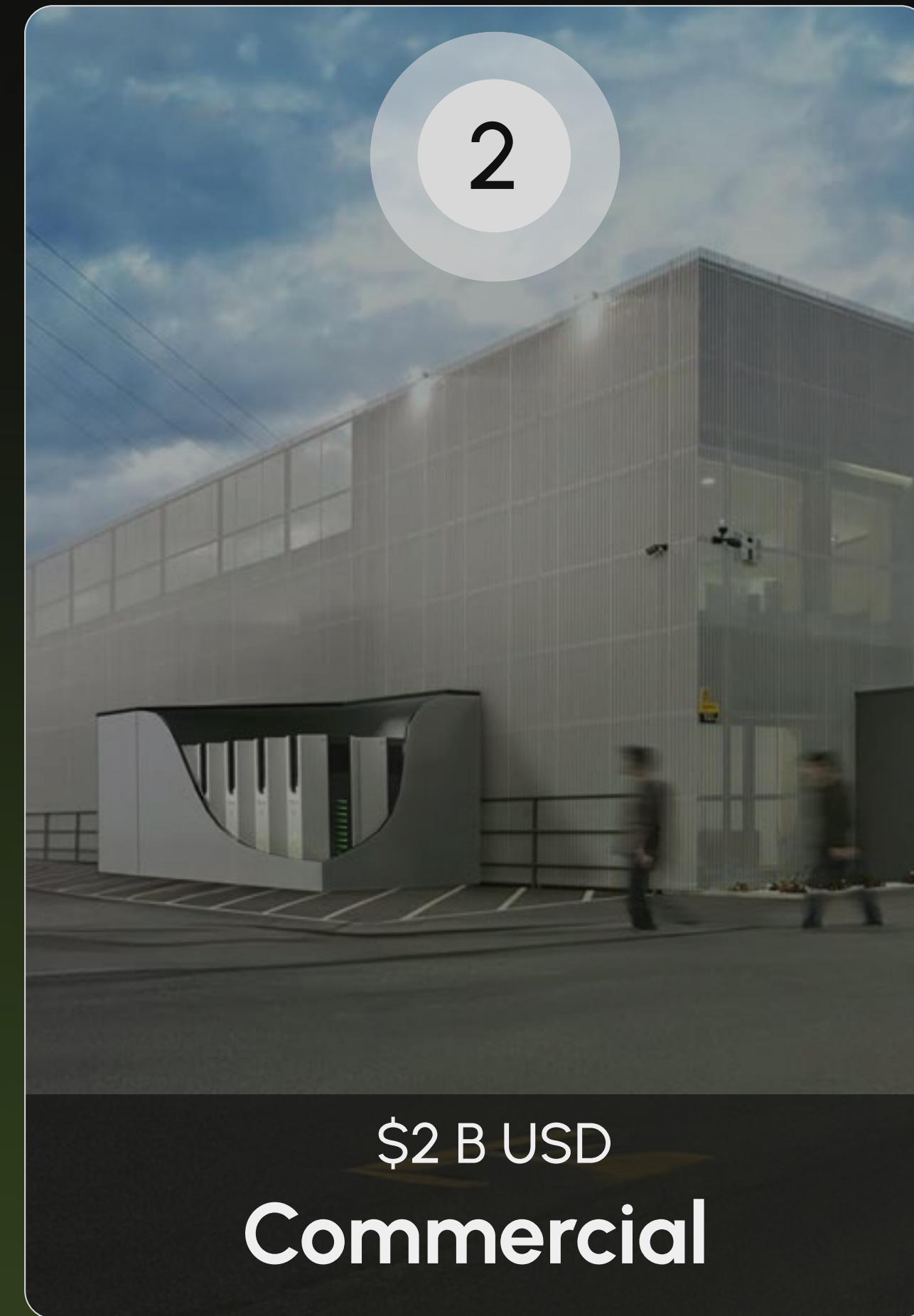


Elastic Band
3 to 4 years

Price: \$150 USD

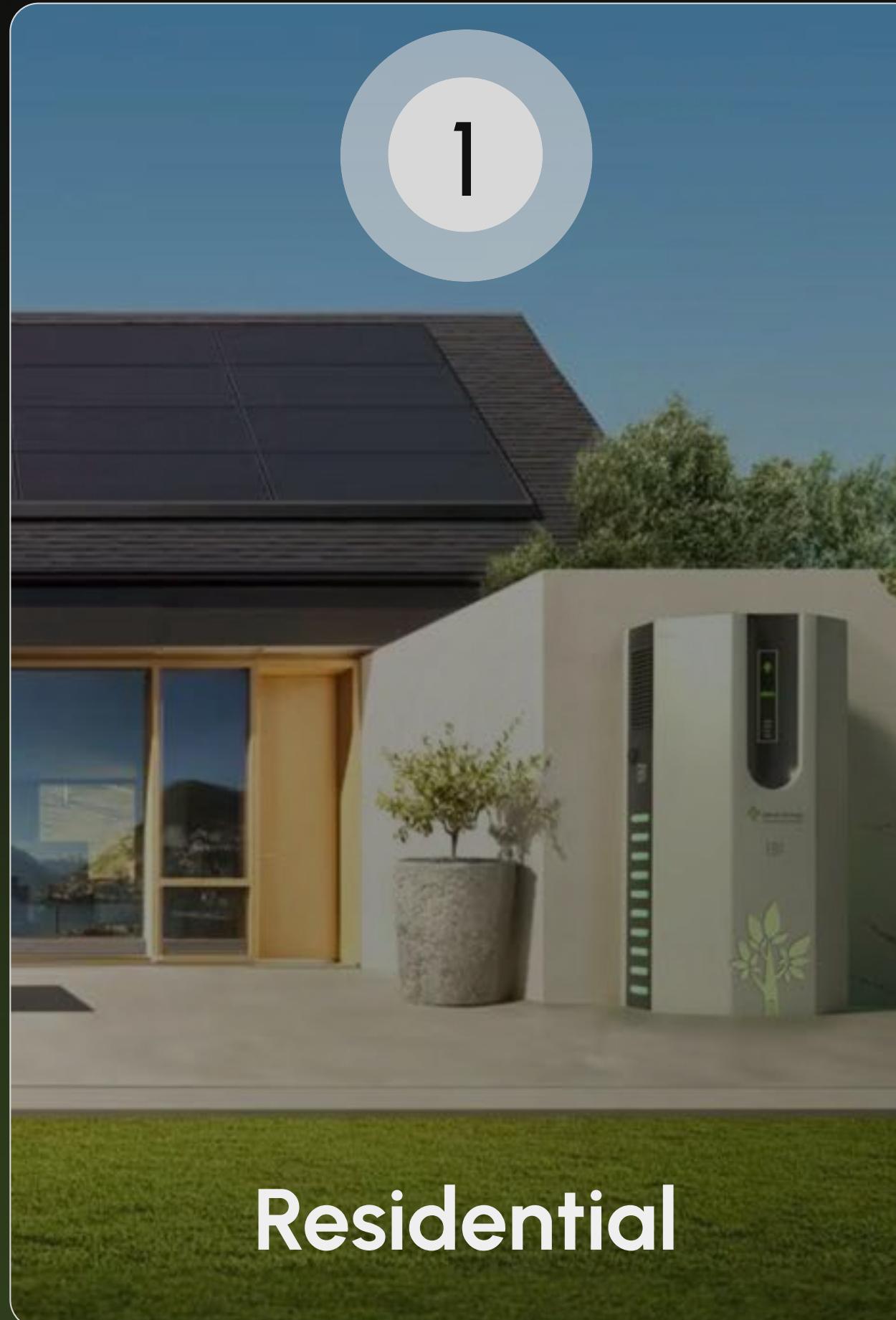
Each battery requires 10
bands over 30 years =
\$1,500 USD

Total Addressable Market



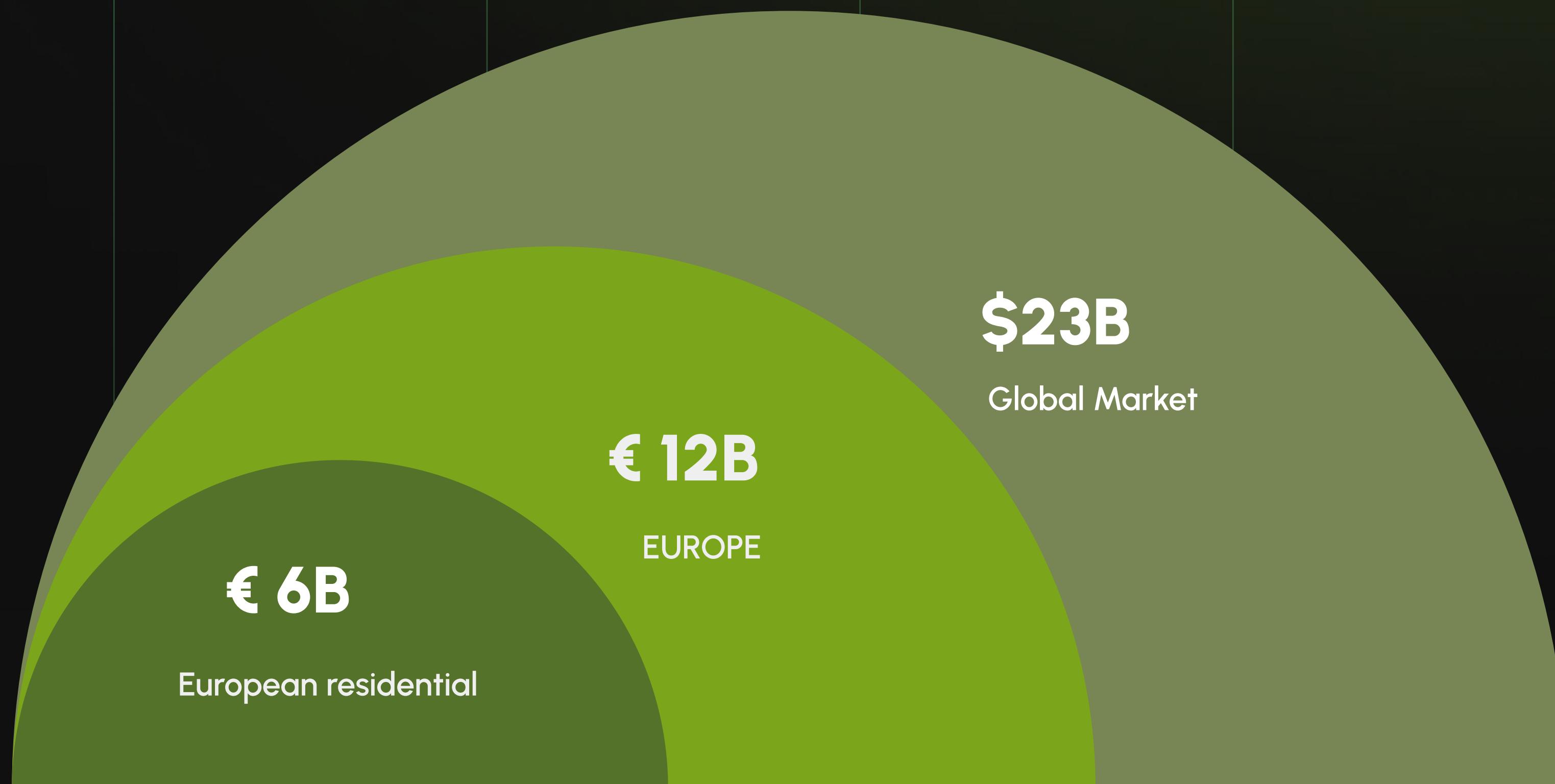
Who are our Initial **Customers**?

Homeowners



- **Eco-conscious individuals:** Seeking sustainable energy solutions to reduce their carbon footprint.
- **Prepared households:** Prioritize energy backup for reliability during outages.
- **Cost-saving households:** Focus on reducing energy costs and long-term savings

Stationary Batteries Market Europe - 2024



Annual growth of **14%**,
€20 billion by 2030

In 2024, around 250,000 European households are expected to adopt energy storage systems

Competitive Landscape

	Local Manufacturing	Sustainable	Long Life, (30 Years)	Low Cost	Easily Scalable
Lithium Batteries	✗	✗	✗	✓	✓
Gravity Storage	✓	✗	✓	✓	✗
Flow Batteries	✗	✗	✓	✗	✓
Elastic Energy Clean Energy Storage	✓	✓	✓	✓	✓

Trajectory



January 2023

First prototype and product validation



January 2024

International Patent Registration
PCTP2024/000005



April 2024

University of Maryland accelerator
programm + 8K USD price

June 2024

Best Startup 2024 - French Tech
and Women in Tech accelerator



January 2025

CATALIST Climate accelerator
+ 15K EUR price



January 2025

Top 10 student startups in
Maryland, + 50K USD price



October 2024

Pre-seed round with private and
public investment



Projection

January - June 2025:
Pre MVP development



July - November 2025
Real environment Pilot



December 2025
Delivery of our first MVP

Throughout 2026
Market entry alongside private or Federal partners.



Meet the Team



Samuel Bendek
Cofounder & CEO

Mechanical engineering student, skilled in leadership.



Juliana Bendek
Cofounder & COO

Industrial design student, passionate about impact.



Carlos Andrés Pino
CTO

Specialized in material innovation and manufacturing.



Nicolás Caldas
Mechanical Engineering

Specialized in sustainable design and innovation.



Anderson Sanchez
Mechanical Engineering

Expert in R&D projects and manufacturing processes.



Jessica Castellanos
Commercial Manager

Mechanical engineering student, skilled in leadership.

Board of Advisors



Kevin Fulmer

Director of Alex Brown
Entrepreneurship Center



Russell Green

Expert in **International
investment**



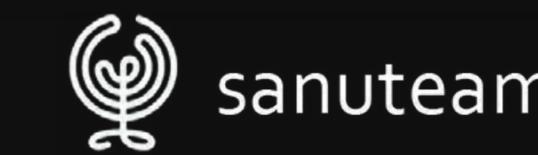
Valérie Noel

High impact entrepreneur
and **Angel-Investor**



Jesus Vallejo

Executive at Enel
Investor



We invite you to light up homes and shape a sustainable future together!

