

# Elastic Energy

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



Samuel Bendek: CEO & Cofunder    Juliana Bendek: COO & Cofunder





Why **now?**

Currently, **CO<sub>2</sub> emissions are 6 times** higher  
than the Earth's capacity to absorb them!

Source: International Energy Agency (IEA)

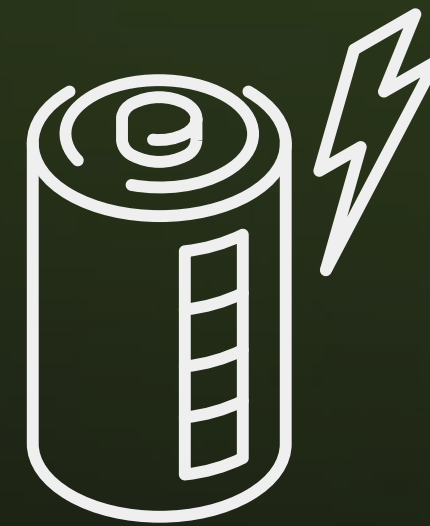


# Aiming **Zero** Emissions

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



# What's **wrong** with the current Batteries

## Mineral Mining



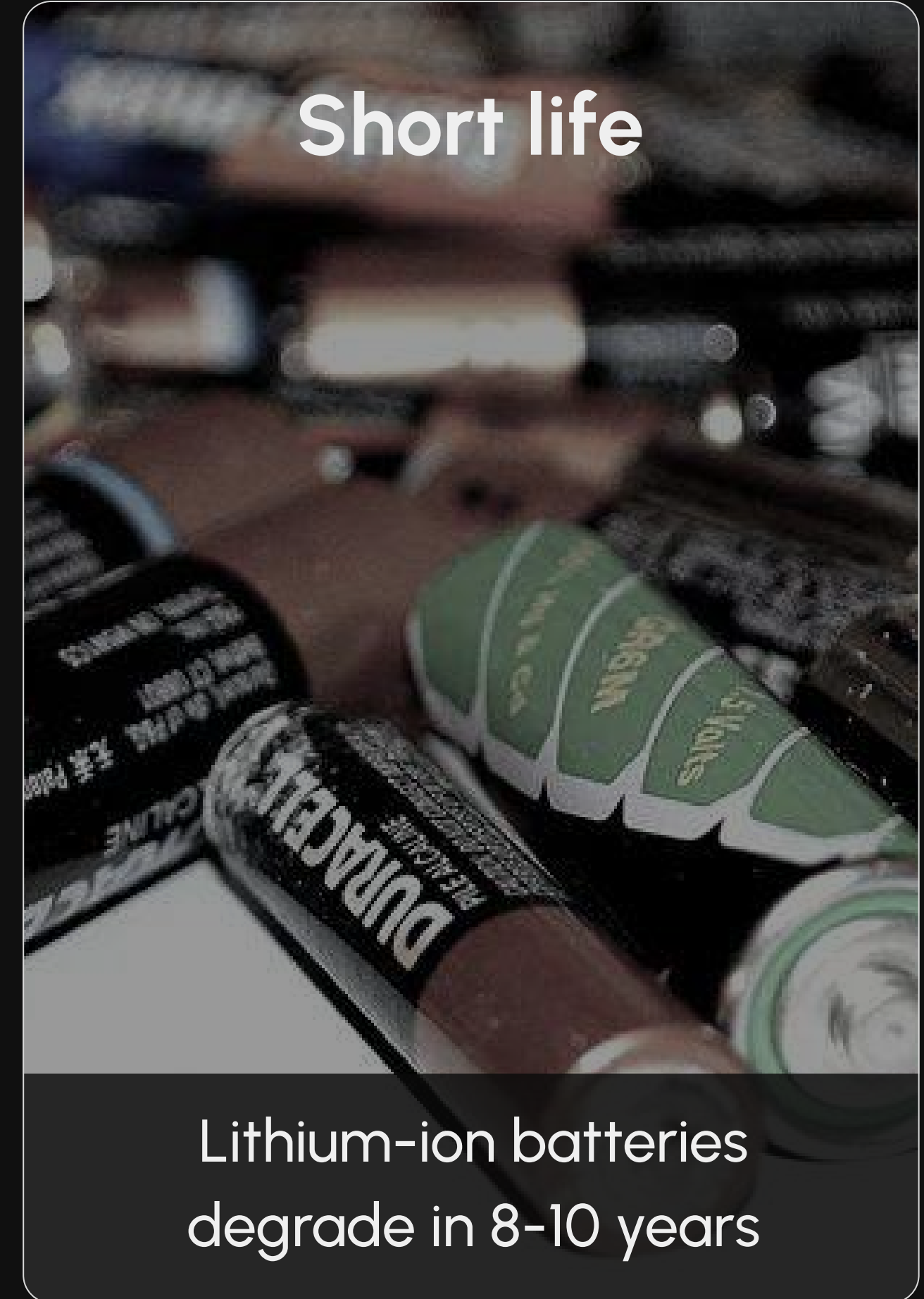
Deforestation, pollution,  
and habitat destruction

## 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



Sustainable



Low Cost



Long Lifespan

VIDEO

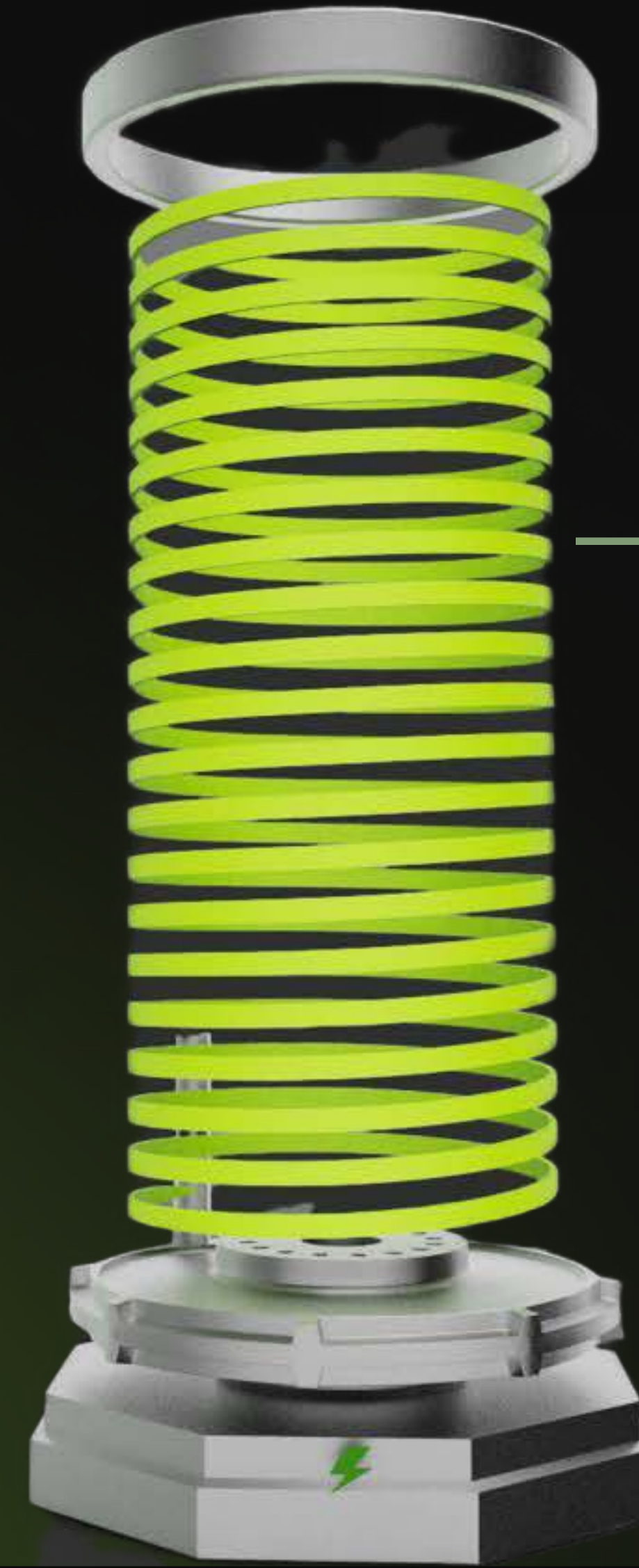
# Revenue Model

EB1

30 years

Initial Sell - 1Kwh:

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



Elastic Band

3 to 4 years

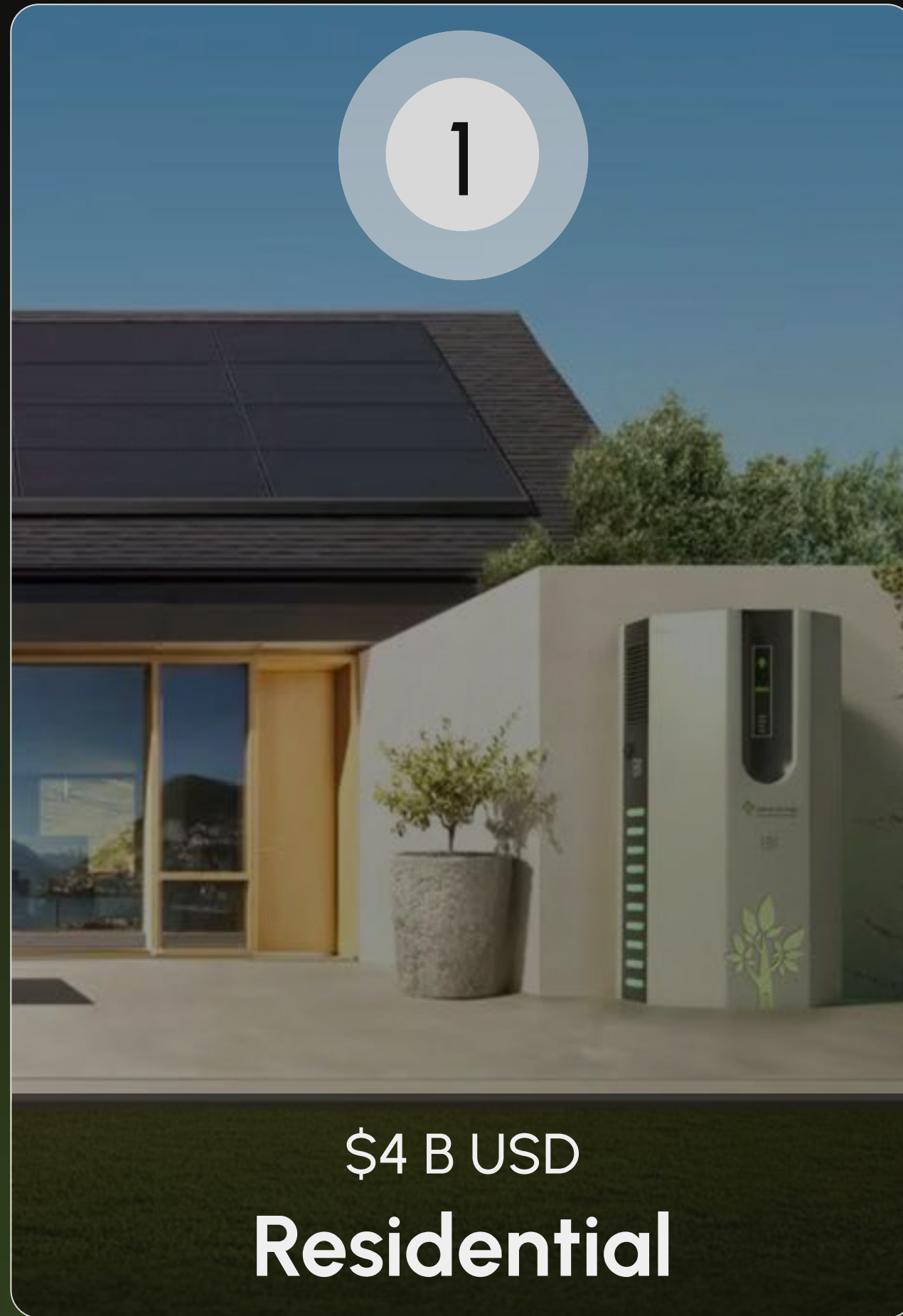
Price: \$150 USD

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

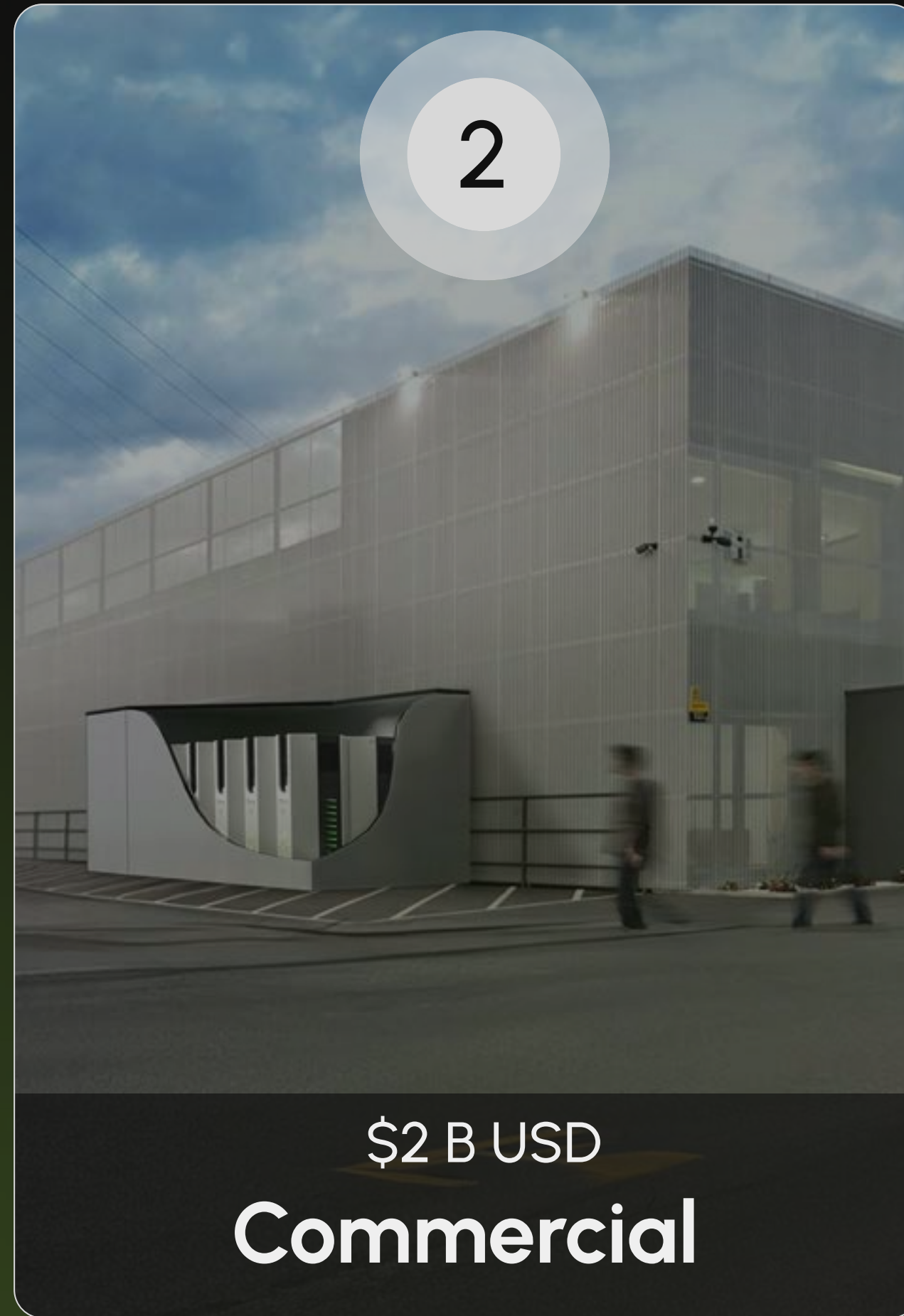


# Total Addressable Market

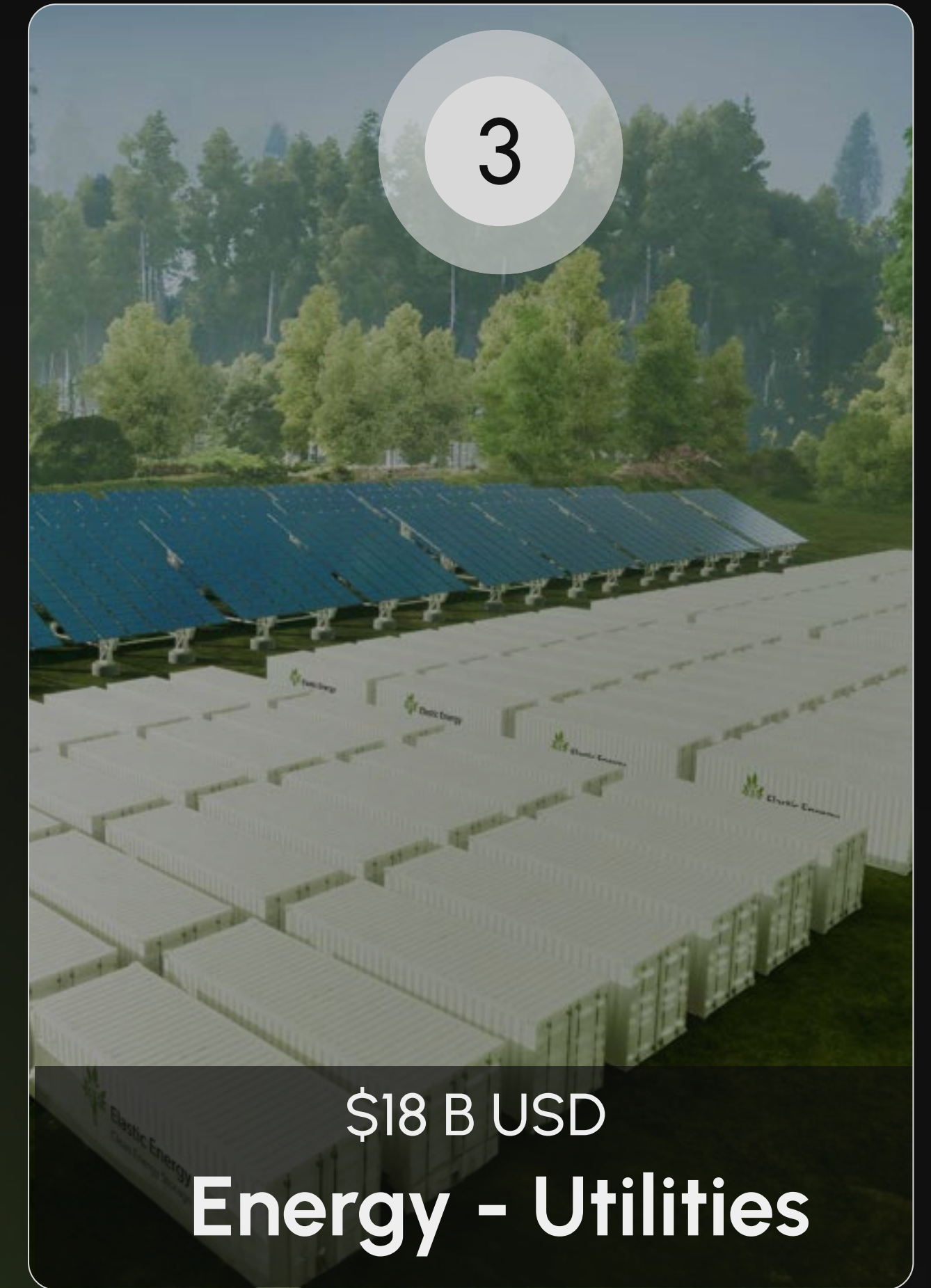
1



2



3

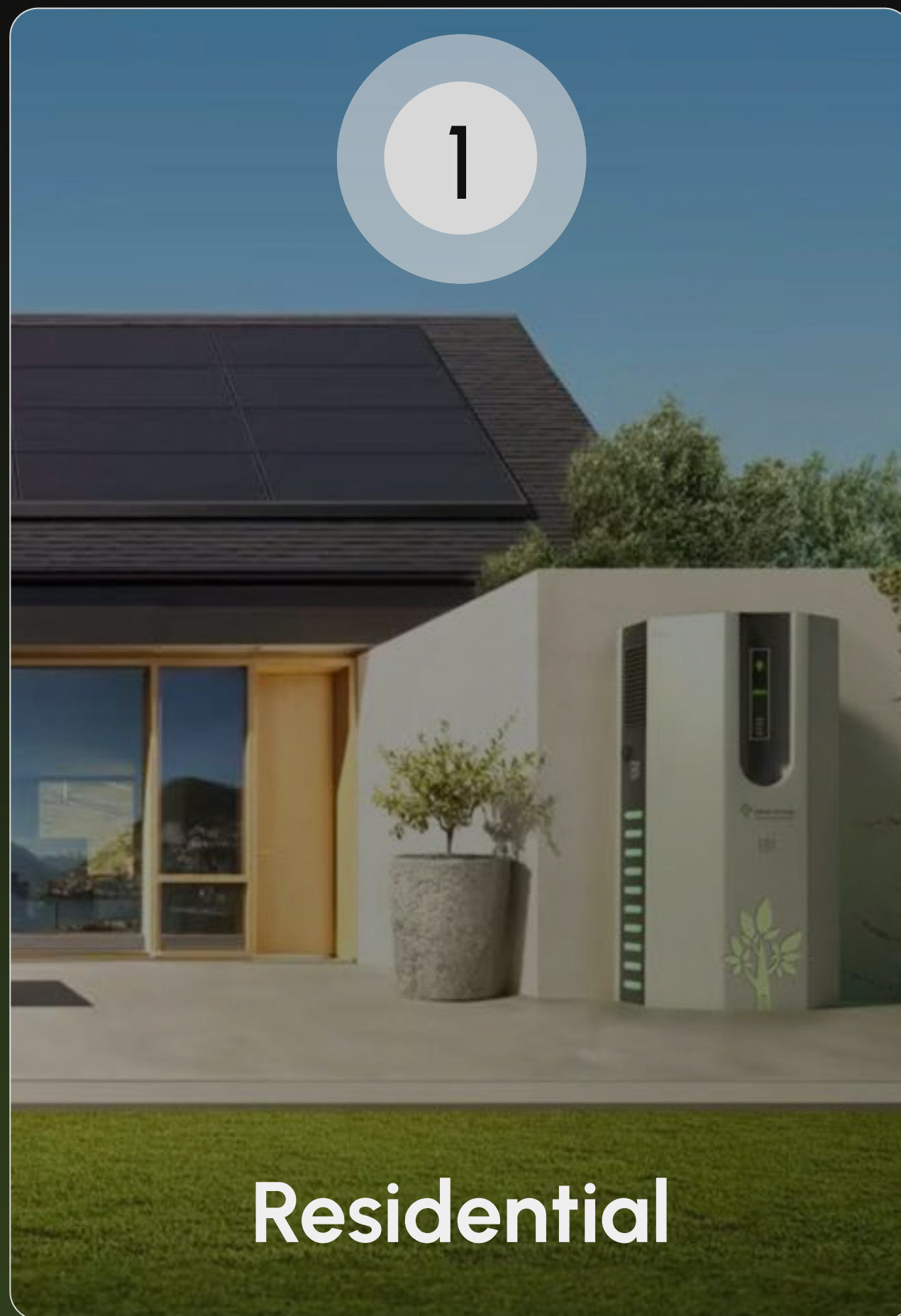


SOURCE: Energy Storage Systems Market Size & Outlook, 2030." Grandviewresearch.com, 2024



# Who are our Initial Customers?

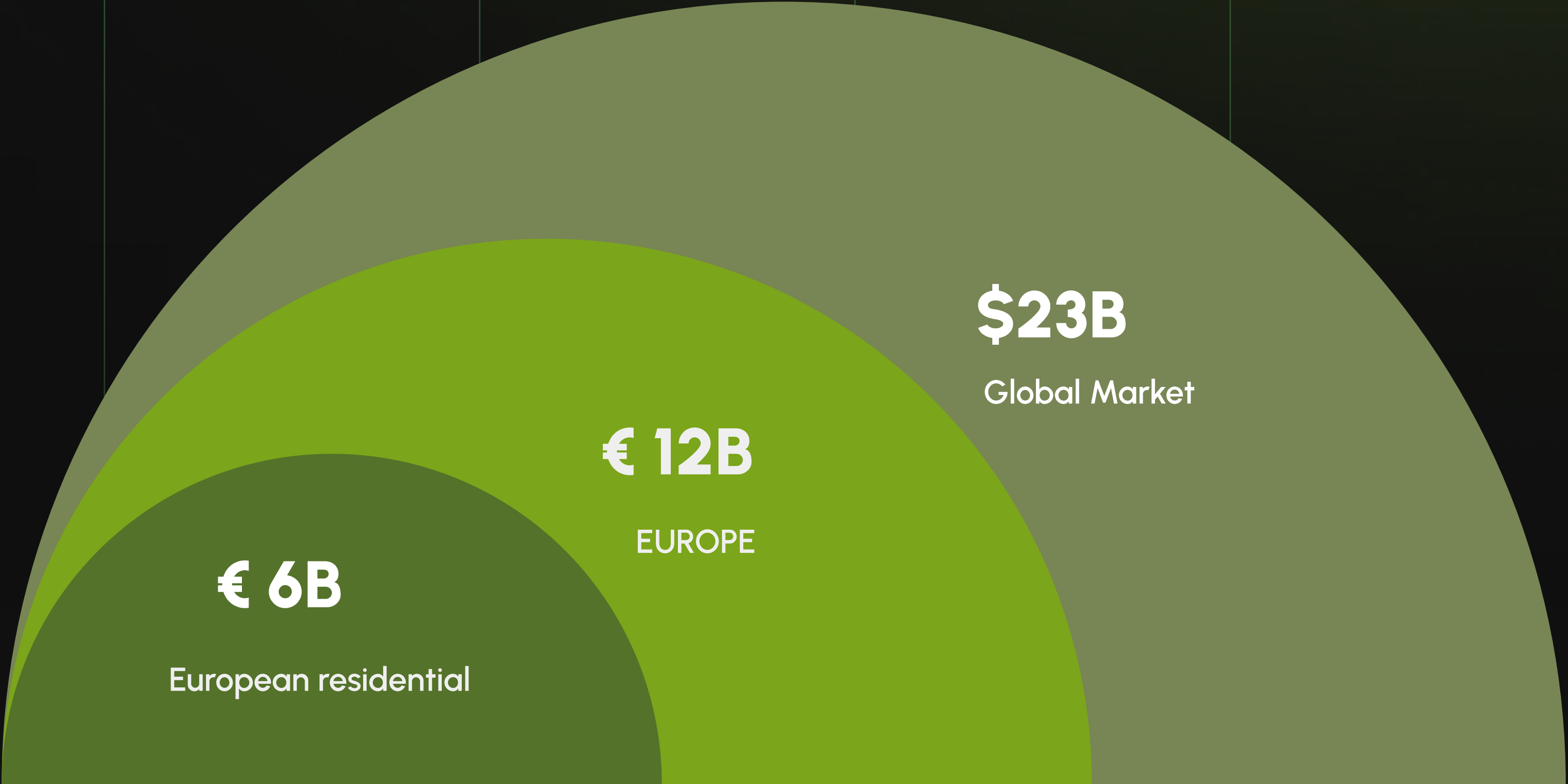
## Homeowners



- **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

Source: Grand view Research - Batteries for Energy Storage in the European Union 2022, European Commission

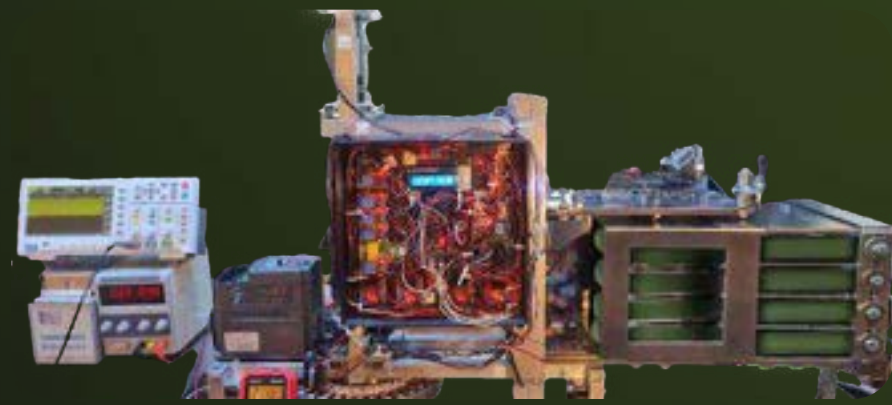


# Competitive Landscape

	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



**PATENTSCOPE**

**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



sanuteam



# 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!**



**Elastic Energy**  
Clean Energy Storage