

Development and Manufacturing Scale-Up of fixtureless Bipolar All-Solid-State Batteries(Lasagna.one Japan GK)



City	Year of Establishment	Founder
Sakai, Osaka	2025	Yuki Katoh

Partner VC	Latest round of Fundraising	Valuation
Sparx asset management	Series A	Non-Disclosure

Contact Information :
tel : -
e-mail : info@lasagna.one

Website : <https://lasagna.one>

○ Business Plan

The fixtureless bipolar all-solid-state battery being developed by the applicant represents a new battery architecture capable of simultaneously achieving fast charging, long cycle life at elevated temperatures, and high power output. The technology aims to become a next-generation infrastructure platform that dramatically improves uptime and reliability in commercial applications such as logistics equipment, robotics, aerospace systems, and industrial machinery.

○ Research Outline

The applicant has already demonstrated stable operation of bipolar cells over more than 1,000 cycles. To further advance the technology toward practical deployment, this project will focus on improving performance and developing key enabling technologies for stable operation. In parallel, the project will also advance production technologies for scale-up and continuous manufacturing of a proprietary breakthrough process currently under development, which has the potential to dramatically reduce manufacturing costs.

- 1. Elemental technology development and validation of pressureless bipolar all-solid-state batteries
- 2. Development of key manufacturing processes toward mass production

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Energy & Infrastructure	STS 2026～2027 FY	JPY 500 million	United States, Europe

○International collaborative technology demonstration

- Contract with local partners
- Relationship development with potential local partner