

FOUNDED: 2023 HQ: Osaka, Japan STAGE: Seed

CONTACT: contact@start-lep.jp WEBSITE: https://www.start-lep.jp/en/home-2/

VISION

Contributing to the reduction of CO₂ emission by achieving a lifestyle that uses minimal electricity

OVERVIEW

Founded in 2023, LEP is at the forefront of pioneering bioluminescent plants as the next generation light source, poised to replace traditional lighting and significantly reduce ${\rm CO_2}$ emissions. Leveraging cutting-edge technologies developed in Osaka University and Nara Institute of Science and Technology, LEP has successfully engineered prototypes of self-glowing poplar trees, tobacco, and petunias. These are now ready for scale-up. Our innovative enhancement of the bioluminescence technologies not only increases brightness but also allows for multi-color illumination, opening up a wide range of market opportunities.

PRODUCTS – prototypes available







Cut flowers bouquet



Lamp (luminescent cells)

MARKET OPPORTUNITY - \$5 Trillion TAM

Entertaiment - Exhibhition and rental of bioluminescent platns for entertainment purposes Flowers - Sale of biloluminescent flowers for gift and home Lighting - Replacement of conventional lighting for homes, businesses, and cities

COMPETITIVE ADVANTAGE - Multi color

LEP is the only company in the world with the multi-color bioluminescence tehcnology. Competitors suchs as Light Bio (US), and Woodlight (France) are only capable of glowing in single color.



MANAGEMENT TEAM



CEO Takeharu Nagai, PhD





Executive Officer Taku Demura, PhD



OUR ASK

- Business development and distribution partners in U.S.
- · Funding for Series A