Realization of next-generation film-type solar cells with lowcost, long life, and high efficiency for GX Innovation



Technology

Commercialization Promotion Organization

Vision Incubate Co., Ltd.

Principal Investigator

Kanazawa University
Professor TAIMA, Tetsuya

Our two innovative technologies overcome key challenges and enable the development of next generation flexible perovskite solar cells (PSCs)

Innovative Technology 1: lonic-liquid Addition Technology

1 Stability (Lifetime)

Several hours of durability in ambient air

High stability of over 6000 hours without sealing

2 Manufacturing Cost

Competitor's face high manufacturing costs due to the use of expensive sealing films

Simple sealing reduces costs

Innovative Technology 2: Bonding Technology

3 Coating Technology

Unestablished technology for neatly coating large-area films

Joint development of equipment with REIKO Co., Ltd.

4 Power Conversion Efficiency

Single-junction flexible PSCs reach up to 15% efficiency

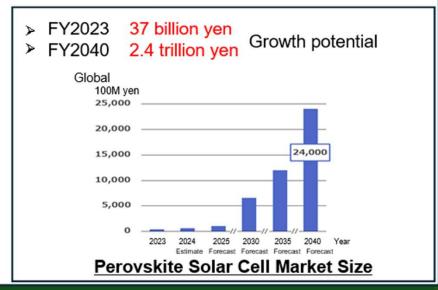
Over 30% efficiency is possible in tandem solar cells



Professor, Nanomaterials Research Institute, Kanazawa University

TAIMA, Tetsuya Ph.D. Unit leader, Study on Ionic-lid

Unit leader, Study on Ionic-liquid Addition Technology



Expected establishment date: FY 2026

Target market: Global, Domestic