



 **SOLRA-PV**

**Free Wireless Devices
From Batteries**

Battery Replacement is the Next Bottleneck

Leading OEMs actively seeking energy harvesting solutions



EnOcean
Sustainable IoT



SHARP

amazon

Honeywell



Lenovo



Exploding IoT footprint

50 billion by 2027

High-frequency battery replacement

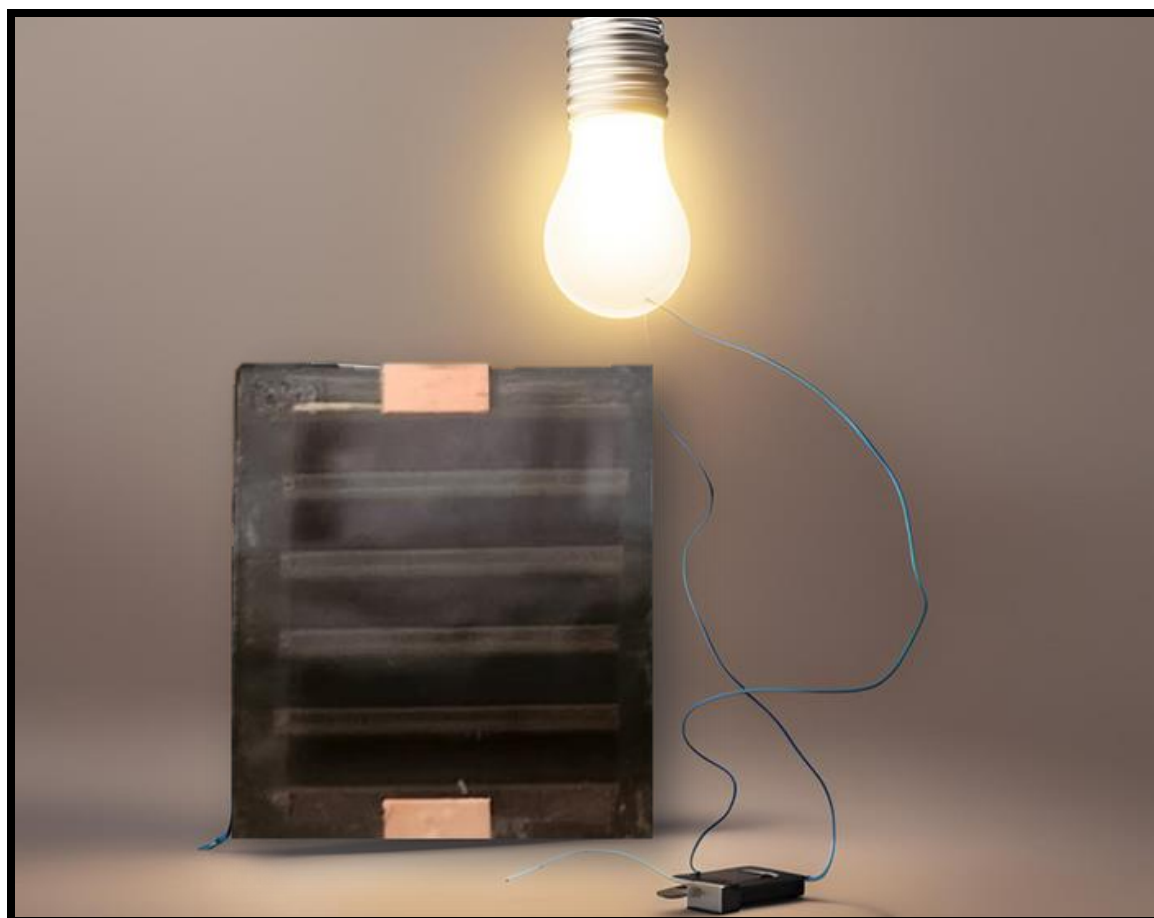
Eat into OpEx.

Devices unplanned downtime risk

Caused by battery failures

Regulatory & sustainability pressures

Over 78M Batteries are Disposed of daily!

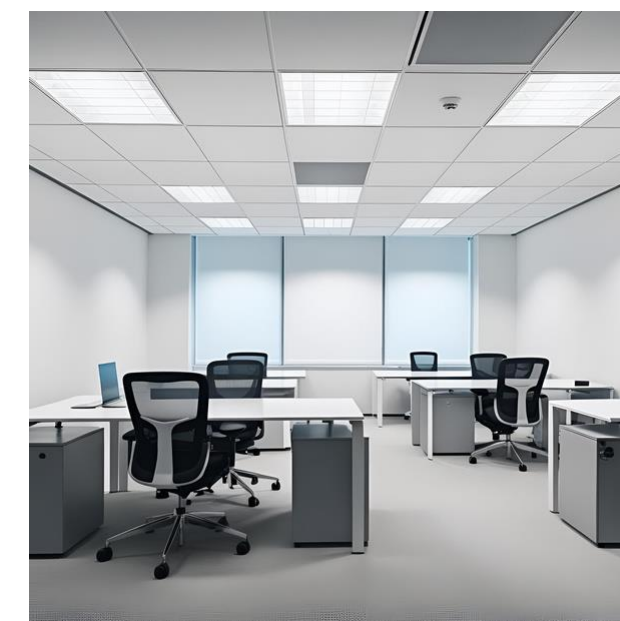
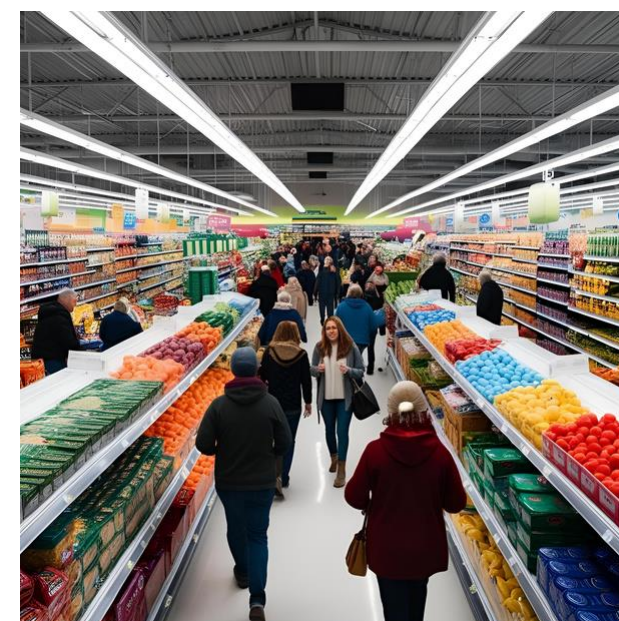
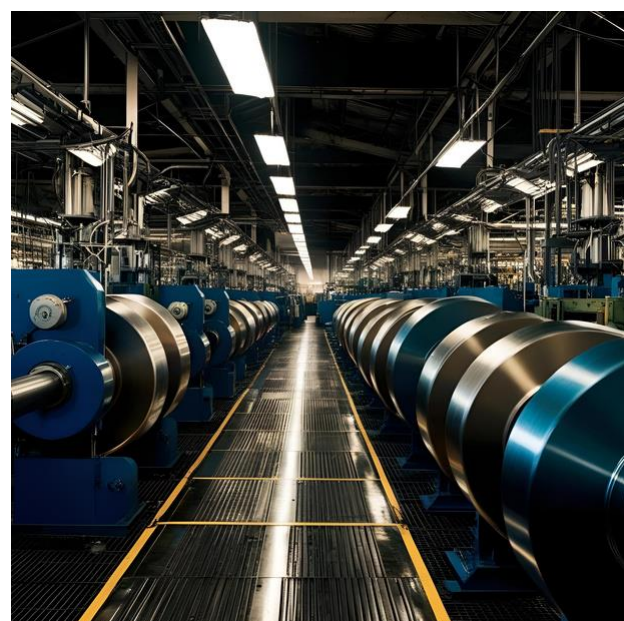


Clearer Than Ever Before

“**Power Source**” Need to Outlast the Device it Powers

The Solution

Harvesting the Indoor Light to Generate Endless Power



Starting from light intensities as low as **50 lux!**

Integration Opportunities

Internet of Things (IoT)

Environmental sensors (BEMS)

Motion & occupancy sensors (BEMS)

Electronic shelf tags



Consumer electronics

Remote control

Door locks

Power-point clicker



Value Proposition



Lower TCO

Up to 40% lower cost over 10 years vs. battery-powered sensors.



Truly Wireless— maintenance free

Powers IoT devices directly from indoor light—no batteries, no maintenance.



Improved performance

~2× more efficient than indoor PV competitors under typical lighting.

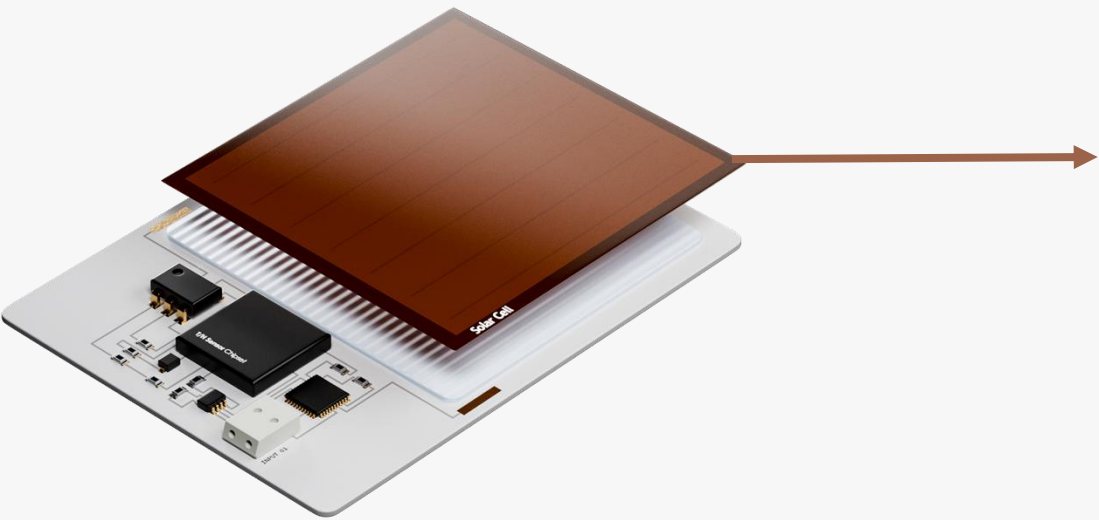


Sustainable by Design

Eliminates battery waste, aligns with ESG and green product goals.

Customer Discovery & Validation

40 interviews, received **8 LOIs**



Required panel properties

Efficiency > 20%



Price < \$10



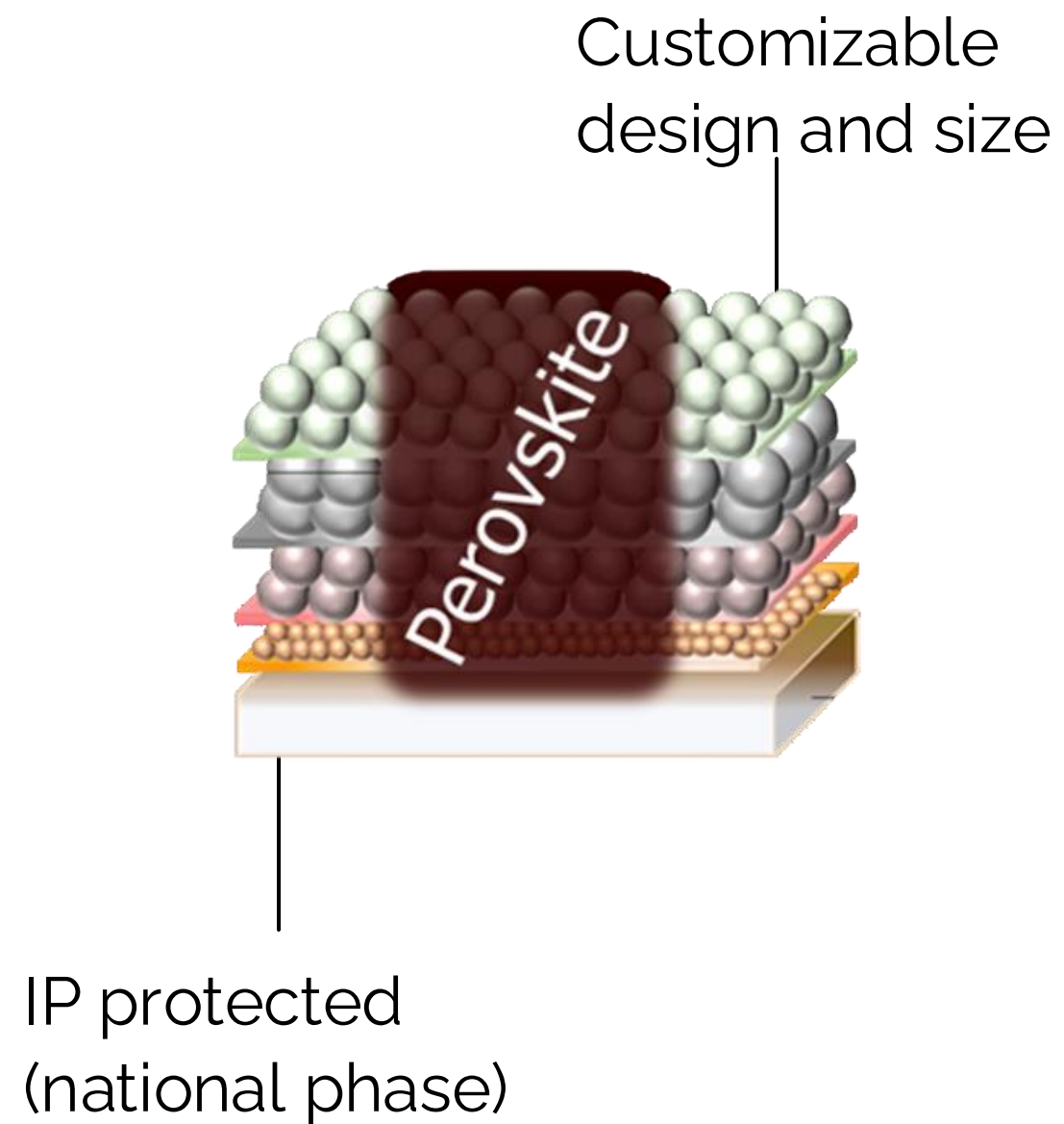
Lifespan > 10y





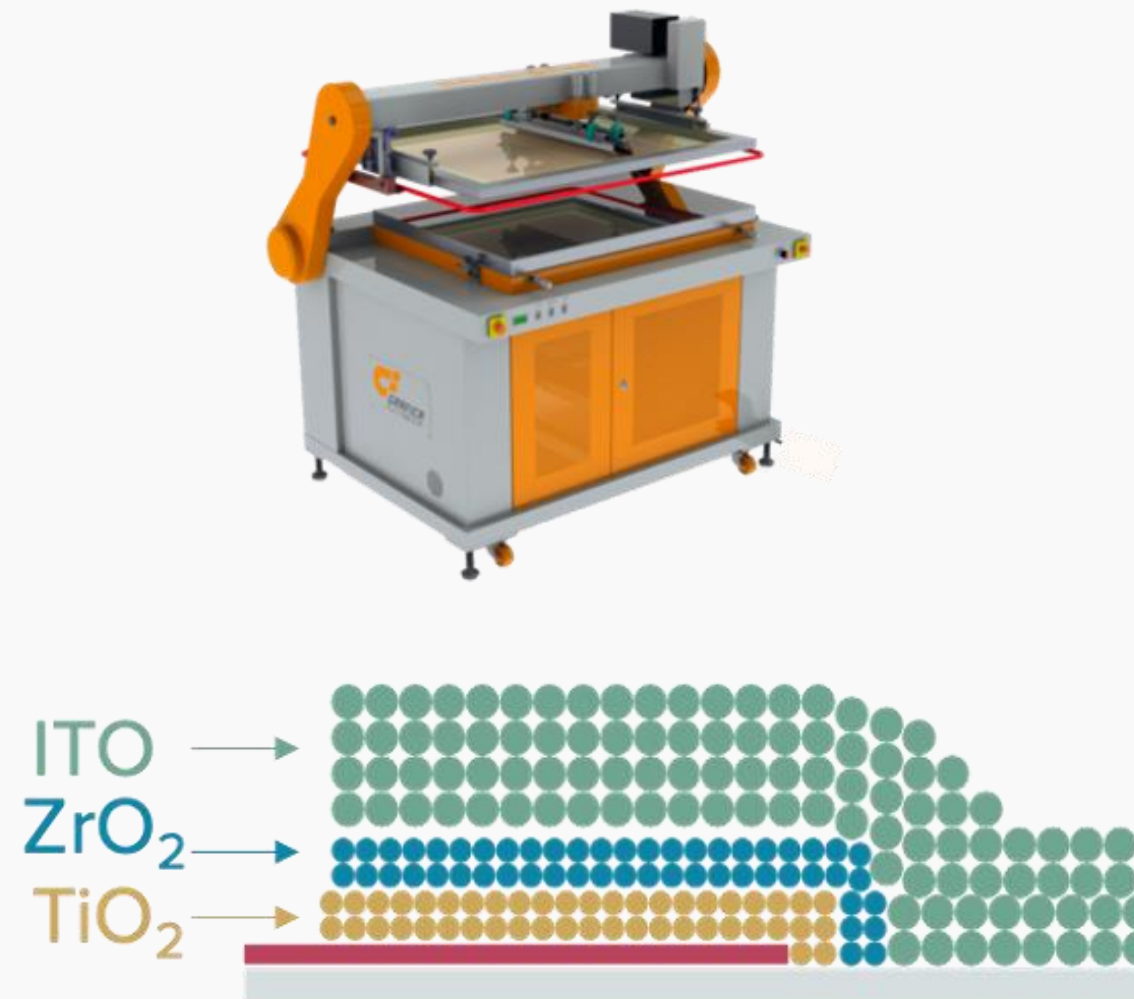
Technology & Competition

Perovskite Indoor PV panels

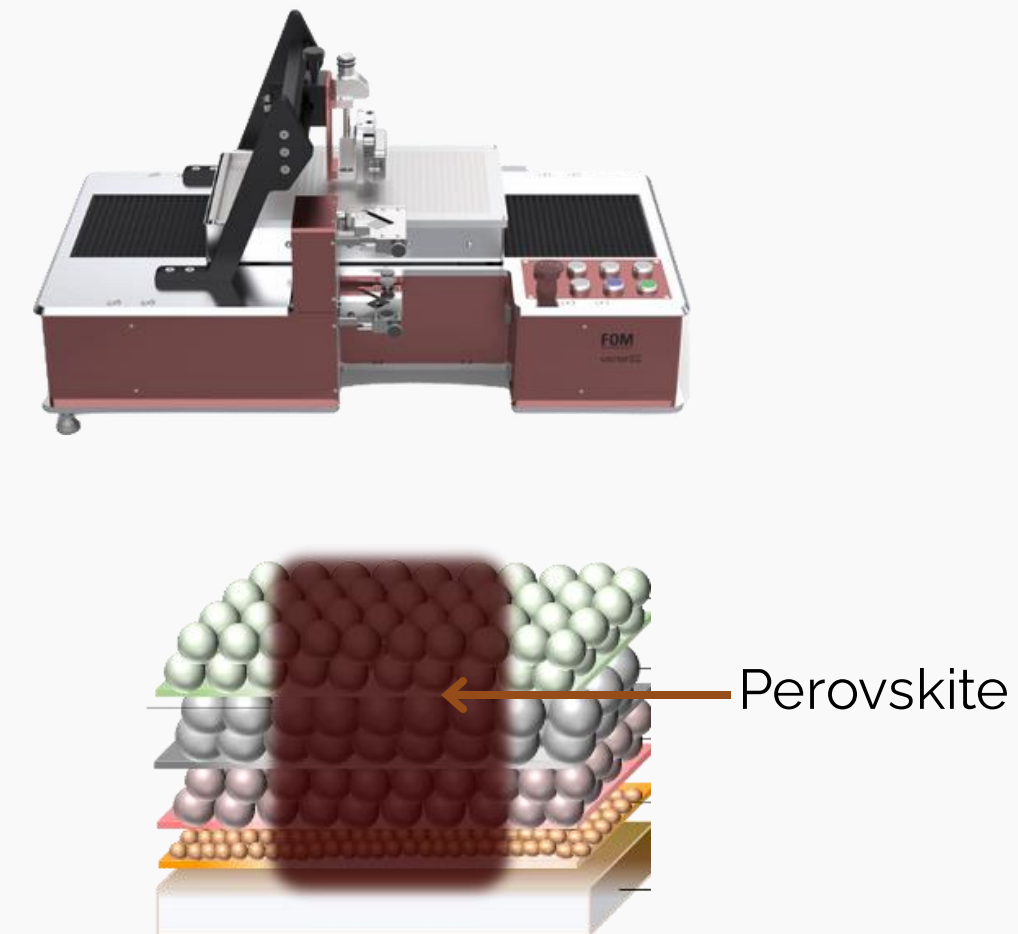


Production by Scalable Printing

Layer by layer printing

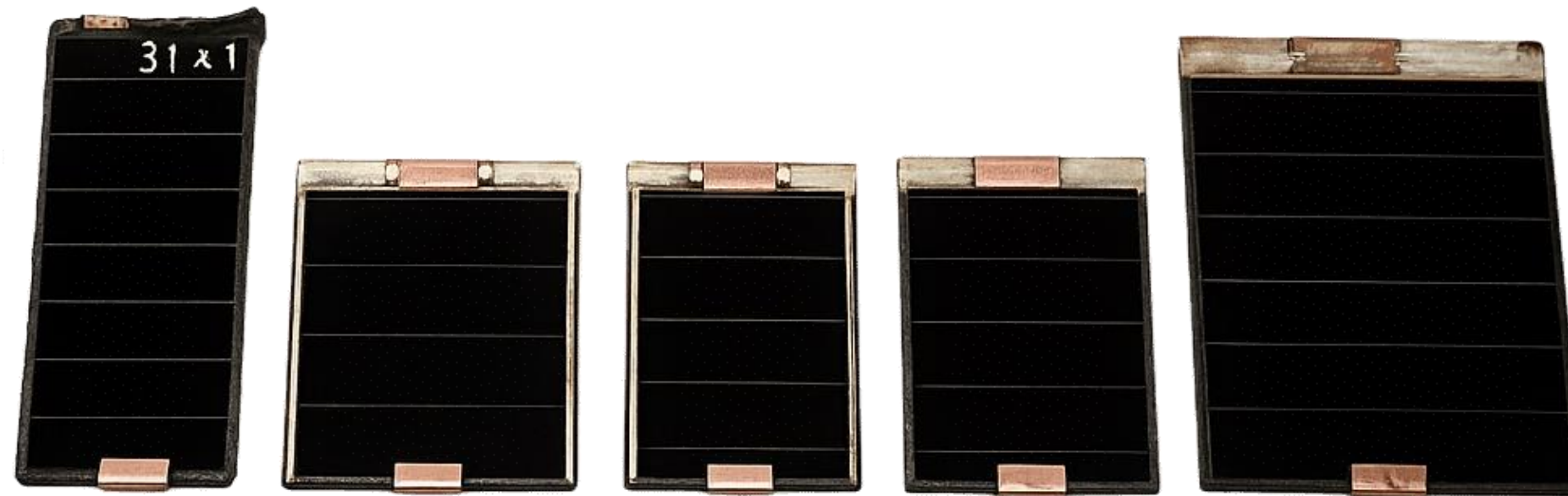


Perovskite (PSK) deposition via Slot Die

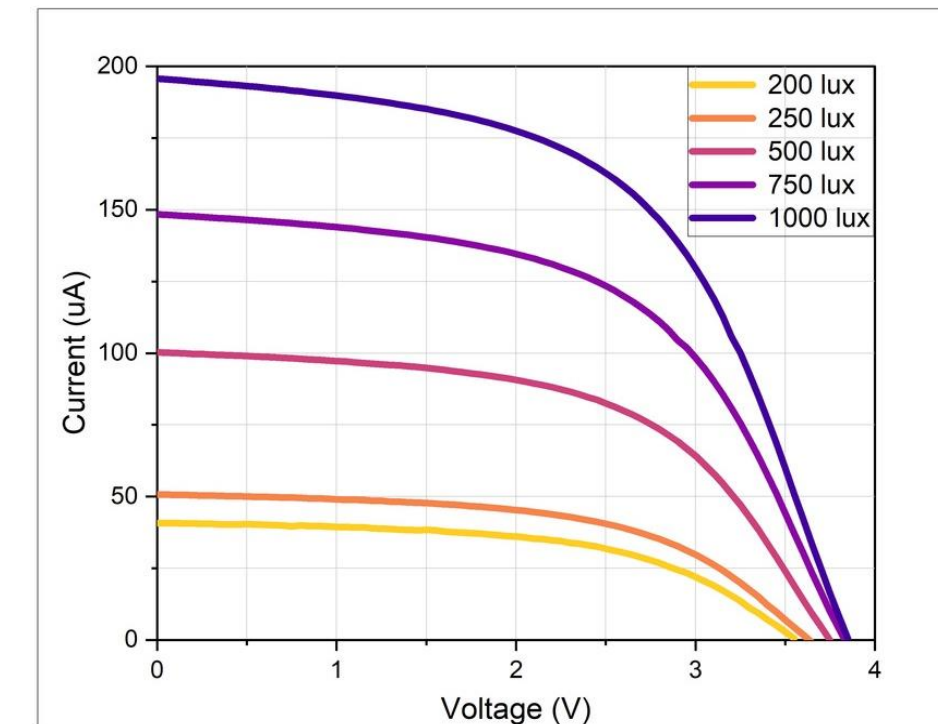


SOLRA-PV Delivers What the Industry Demands

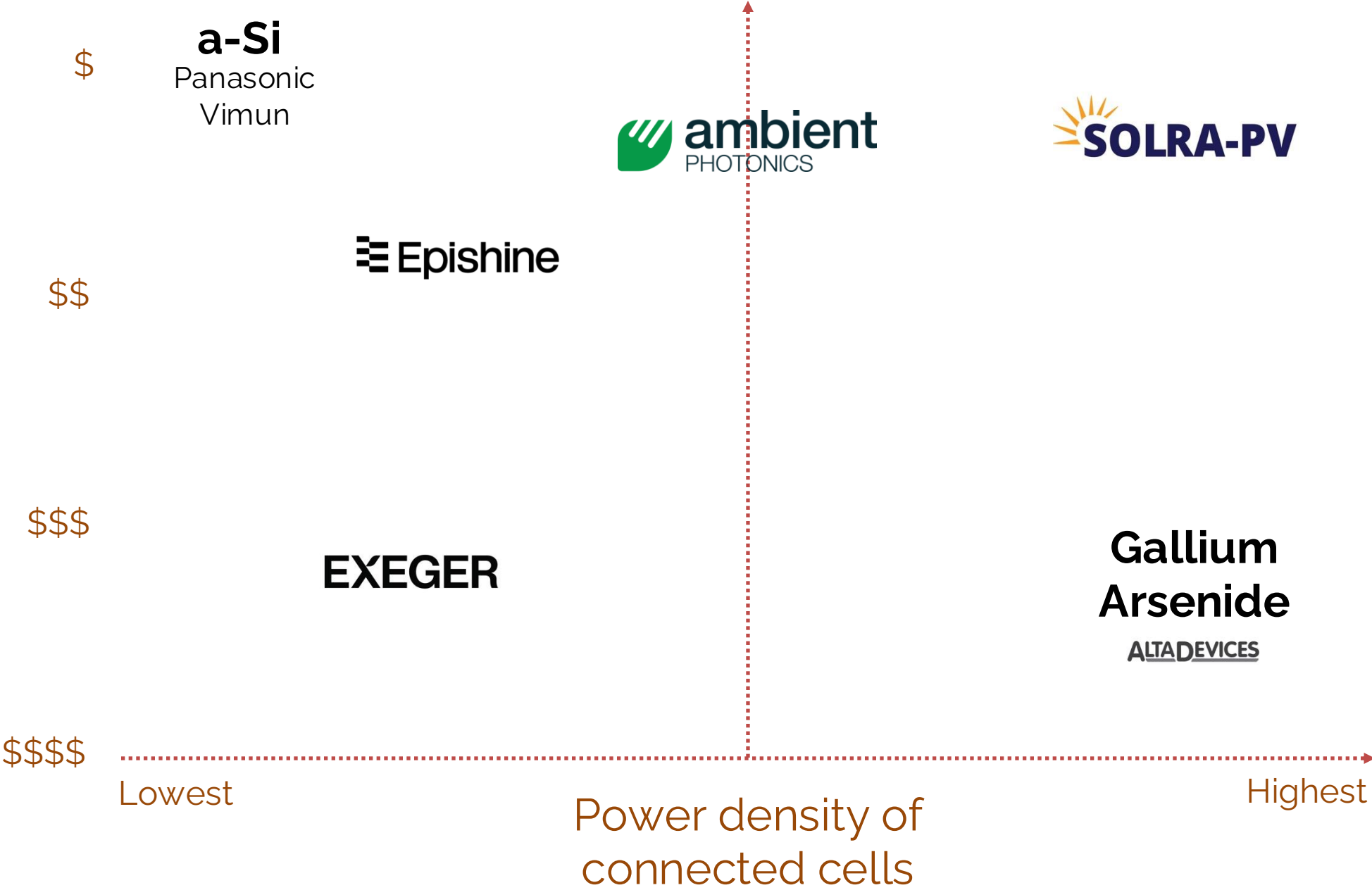
Flexible, custom solar panel in any size and configuration



Module measured under LED light
Efficiency >20% @ 1000lux
Active area 7 cm²



Outperforming the Competition at a Lower Cost





Market & Strategy

The Deal: PV Panel Instead Of Disposable Batteries



Frequent battery replacement
Polluting batteries



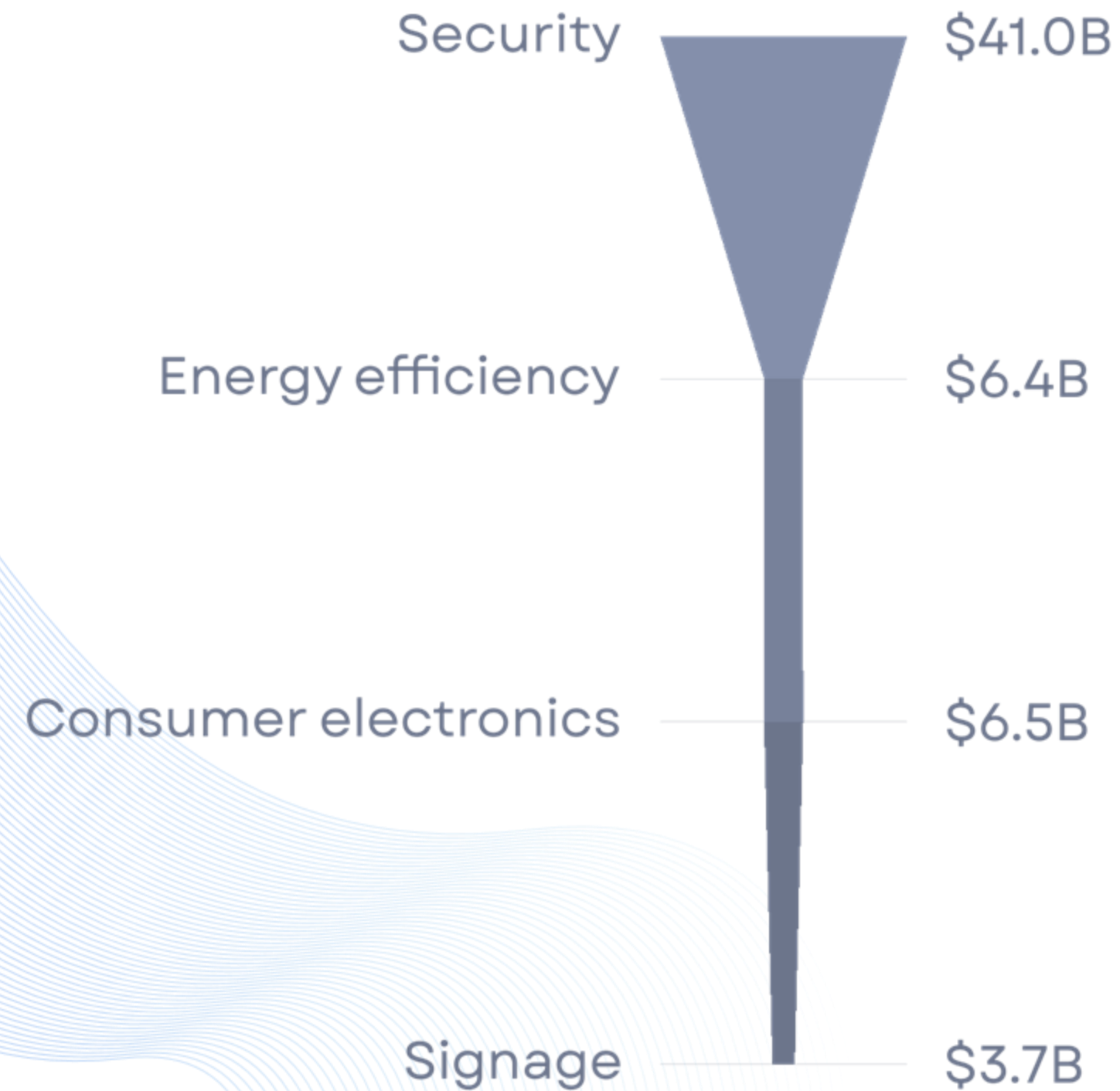
Maintenance-free
No disposable batteries

B2B

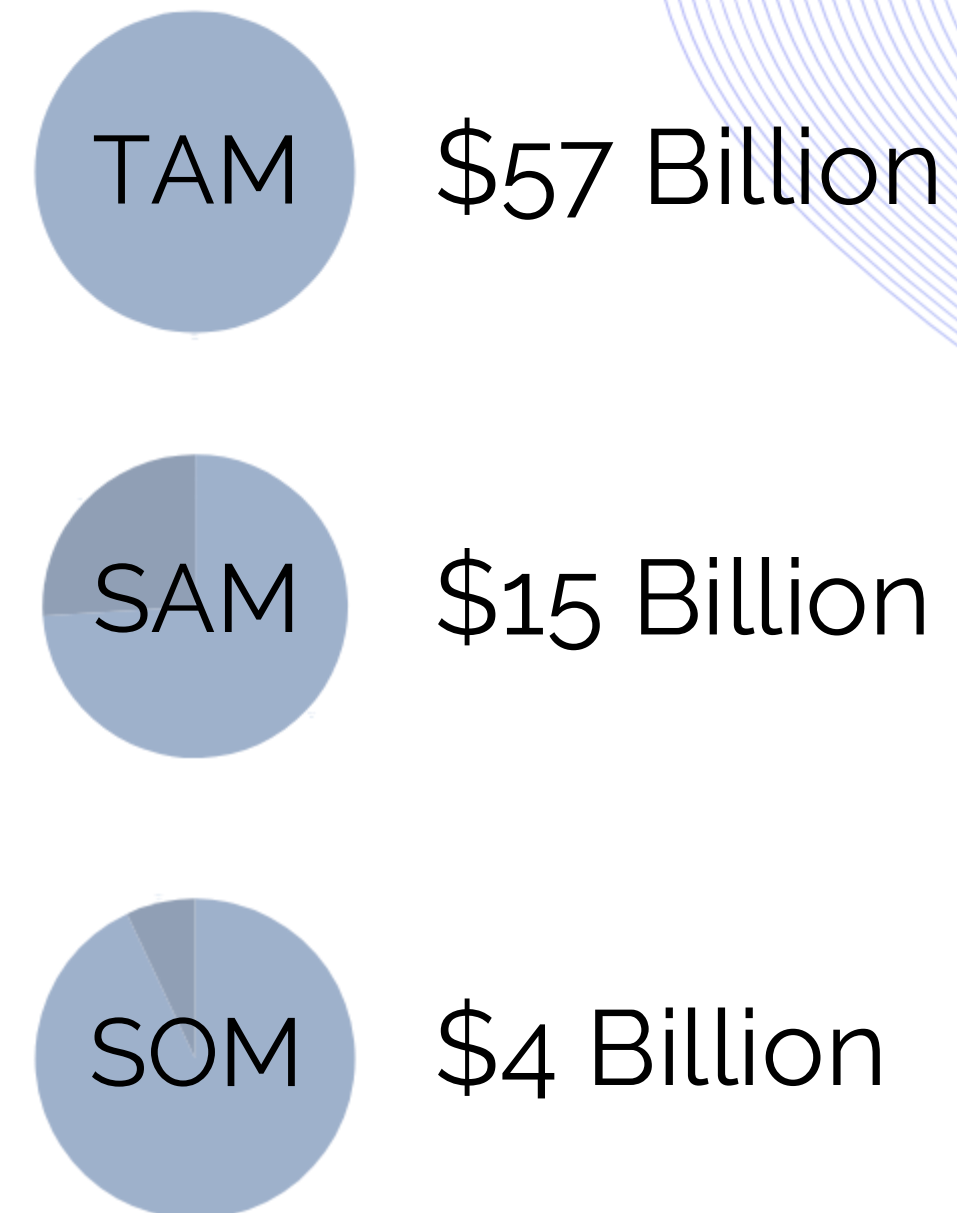
Selling custom PV panels to OEMs.

- Total number of units up to 95% of the production capacity
- 5% of the units to be tested in new markets/products

Sectors



Market Size



Electronic Shelf Labels (ESL): A Fast-Growing Market

\$1.8 billion in 2023, and is expected to nearly double by 2030, with a CAGR of ~20%

- ESLs are small digital displays used in retail chains and warehouses to replace paper price tags.
- ESLs rely on coin-cell batteries that require replacement every 3–5 years, thousands of batteries a year on average.
- The first half of 2025: ESL shipments reached ~324M units



Walmart drives record growth in electronic shelf label shipments

Rebecca Kuo, Tainan; Jingyue Hsiao,
DIGITIMES Asia

🕒 Thursday 4 September 2025



DIGITIMESasia



The Team



Dr. Yousef Farraj
CEO & Co-founder
Experience in scale-up and
product commercialization



Dr. Bat-El Cohen Wiezel
CTO & Co-founder
12 years experience in perovskite PV
fabrication



Eytan Avigad
R&D Chemist
BSc in Chemistry, MSc in
Physics



Malak Abu Odeh
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General Manager at Racah Venture
Fund.



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Renewable Energy Executive. Former VP
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Industrial IoT and Energy
Systems Executive

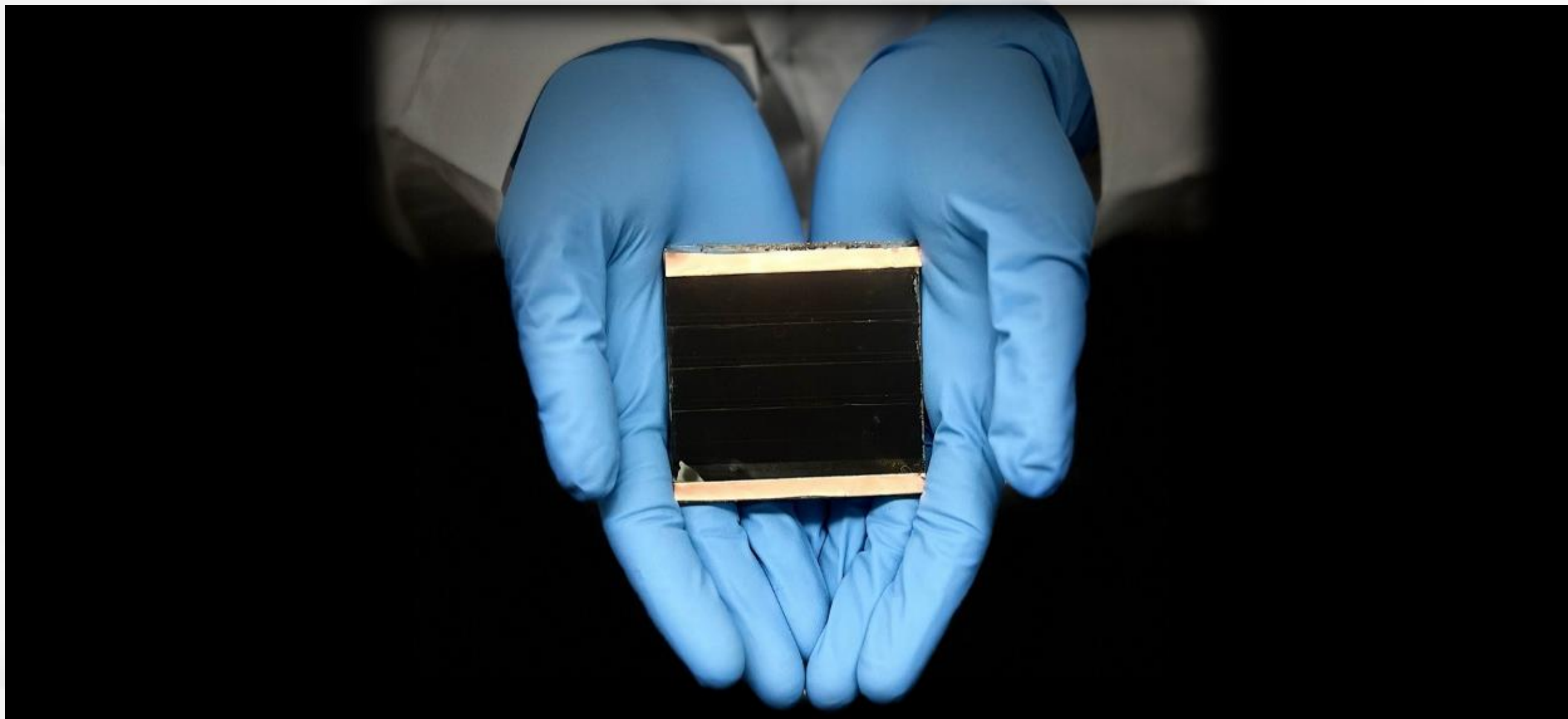


Meir Zucker
BD Advisor
Global Sales & Business
Development Executive



Baruch Levanon
GTM Advisor
Over 30 years founding and
leading tech companies

SOLRA-PV: Continuous Power, Zero Maintenance.



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