



Free Wireless Devices from Batteries

IoT
sensors, electronic shelf labels,
industry 4.0

Consumer electronics
remote control, keyboards, door
lock



The Problem

Powering Indoor Devices Has
Not Reached the 21st Century!

Over 78M Batteries are
Disposed of **DAILY**



Environmental effects

Daily generation of 3.6 ktCO₂eq

Maintenance burden

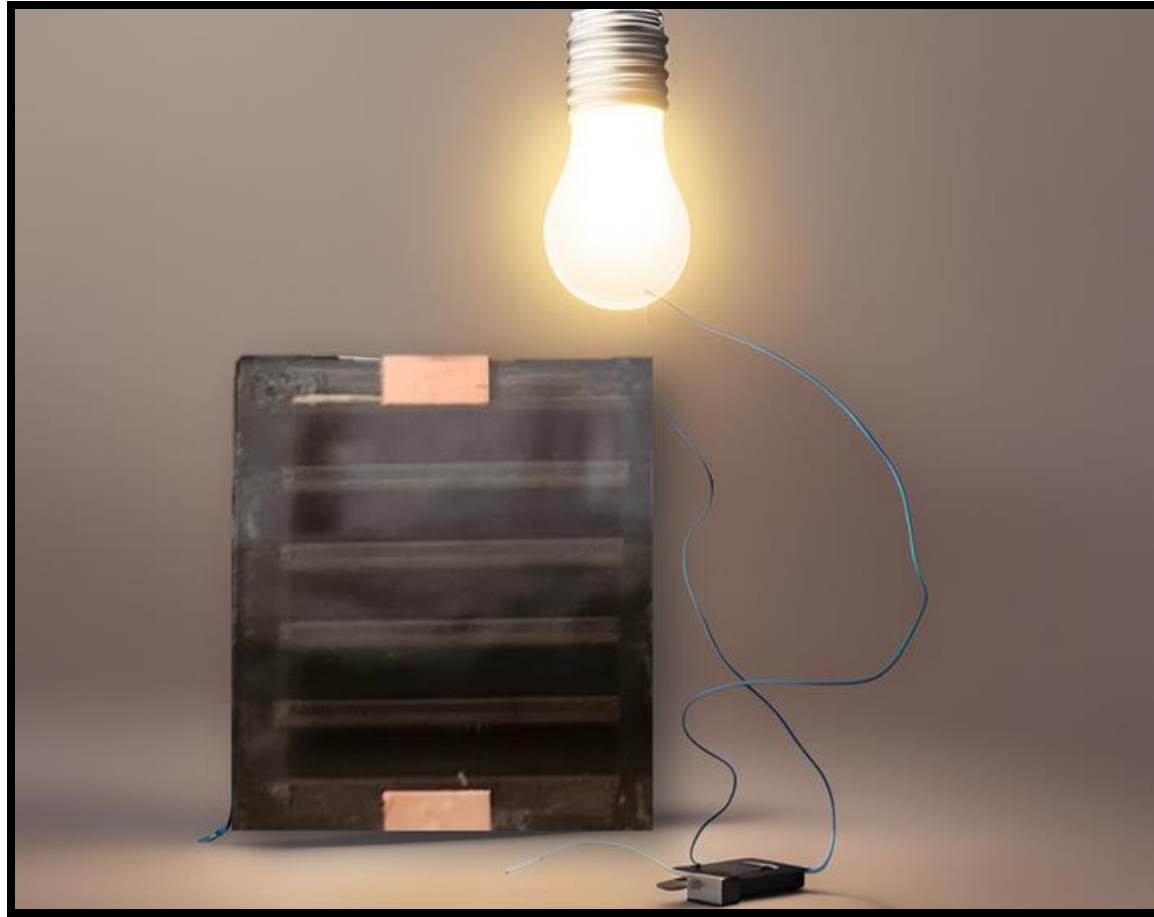
Battery replacements and downtime

Maintenance cost

Labor, Battery cost, Critical devices downtime

Strict regulations

Regulations for the disposal of batteries
adopted by the EU

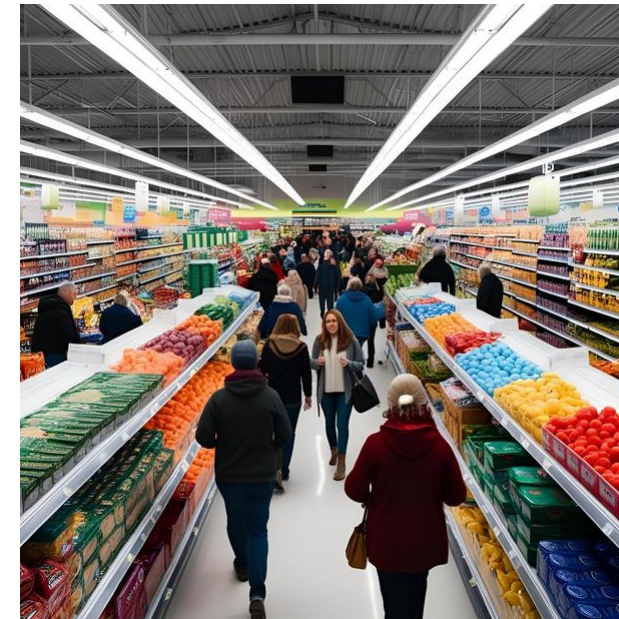
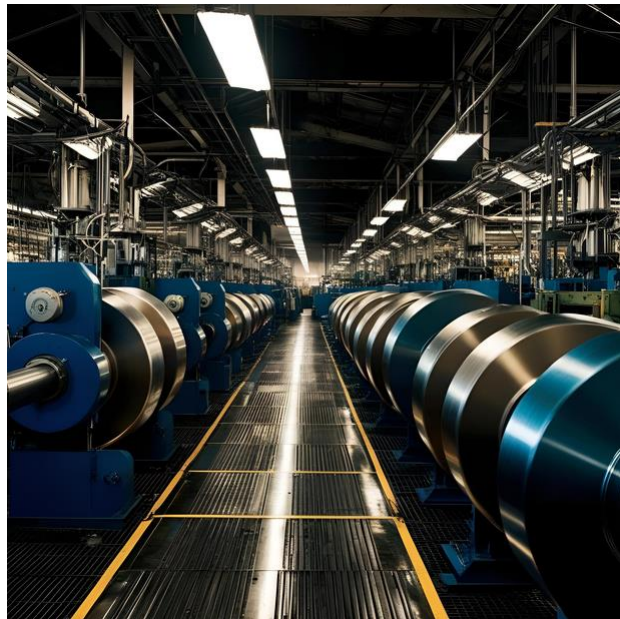


Clearer Than Ever Before

“**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!**

Indoor PV Panel Instead Of Disposable Batteries



Frequent battery replacement
Polluting batteries



Maintenance-free
No disposable batteries

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

SOLRA-PV delivers the most efficient, scalable, and cost-effective multi-cell **indoor energy harvesting** solution for smart devices

Truly Wireless

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

Lowest TCO

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

Superior Efficiency

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

Sustainable by Design

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



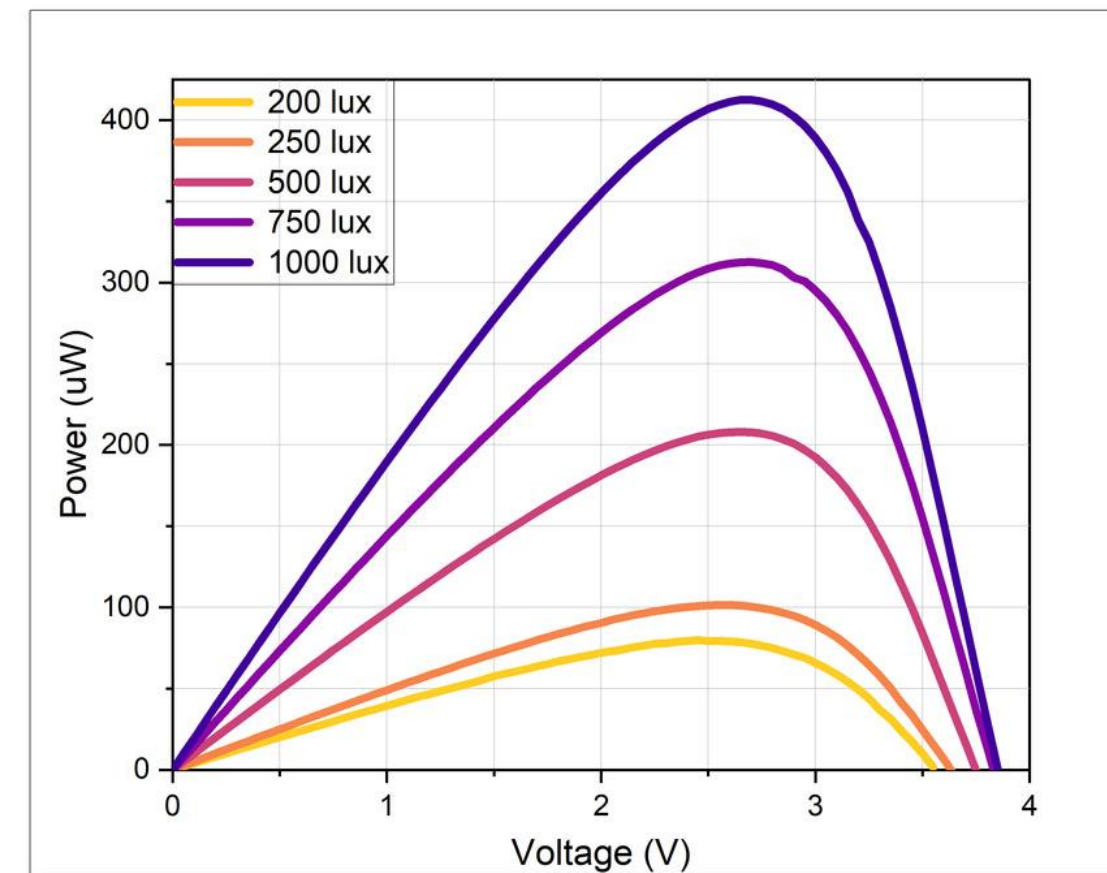
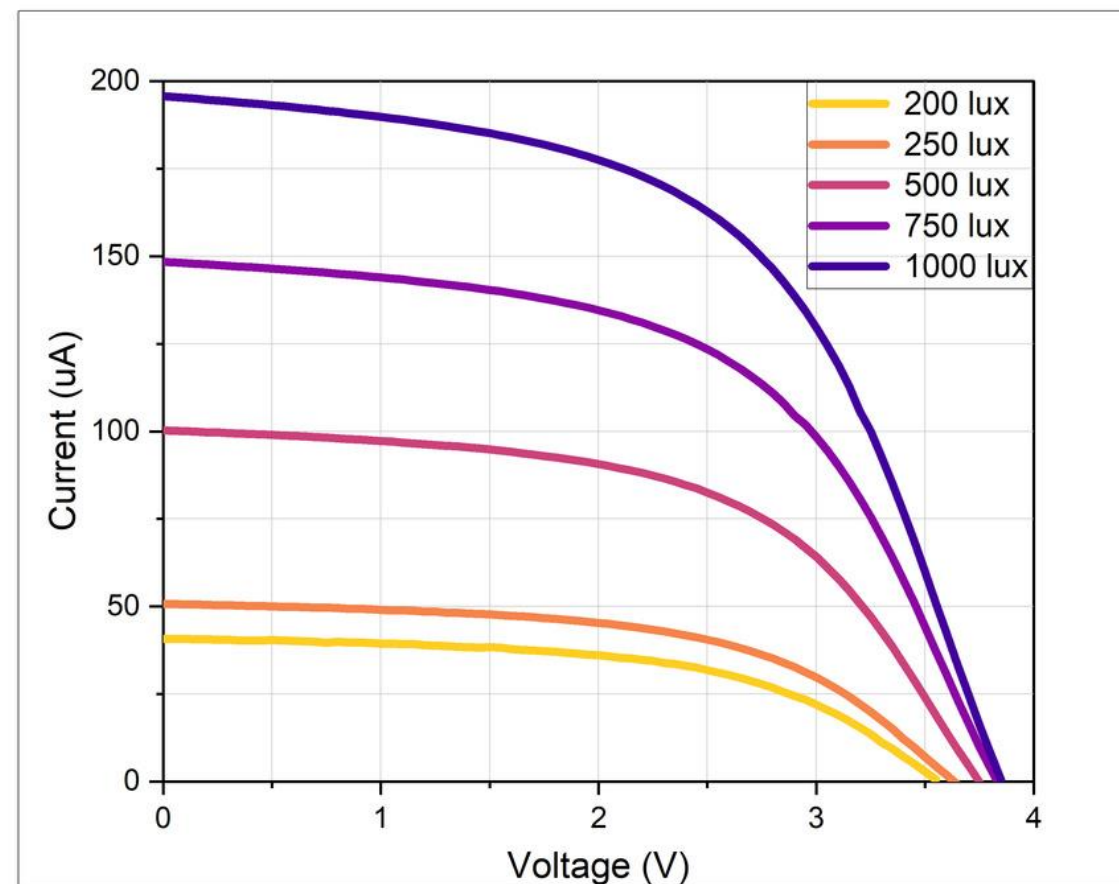
Flexible, custom solar panel
fabrication in any size and
configuration

SOLRA-PV Panel Performance

Module measured under LED light

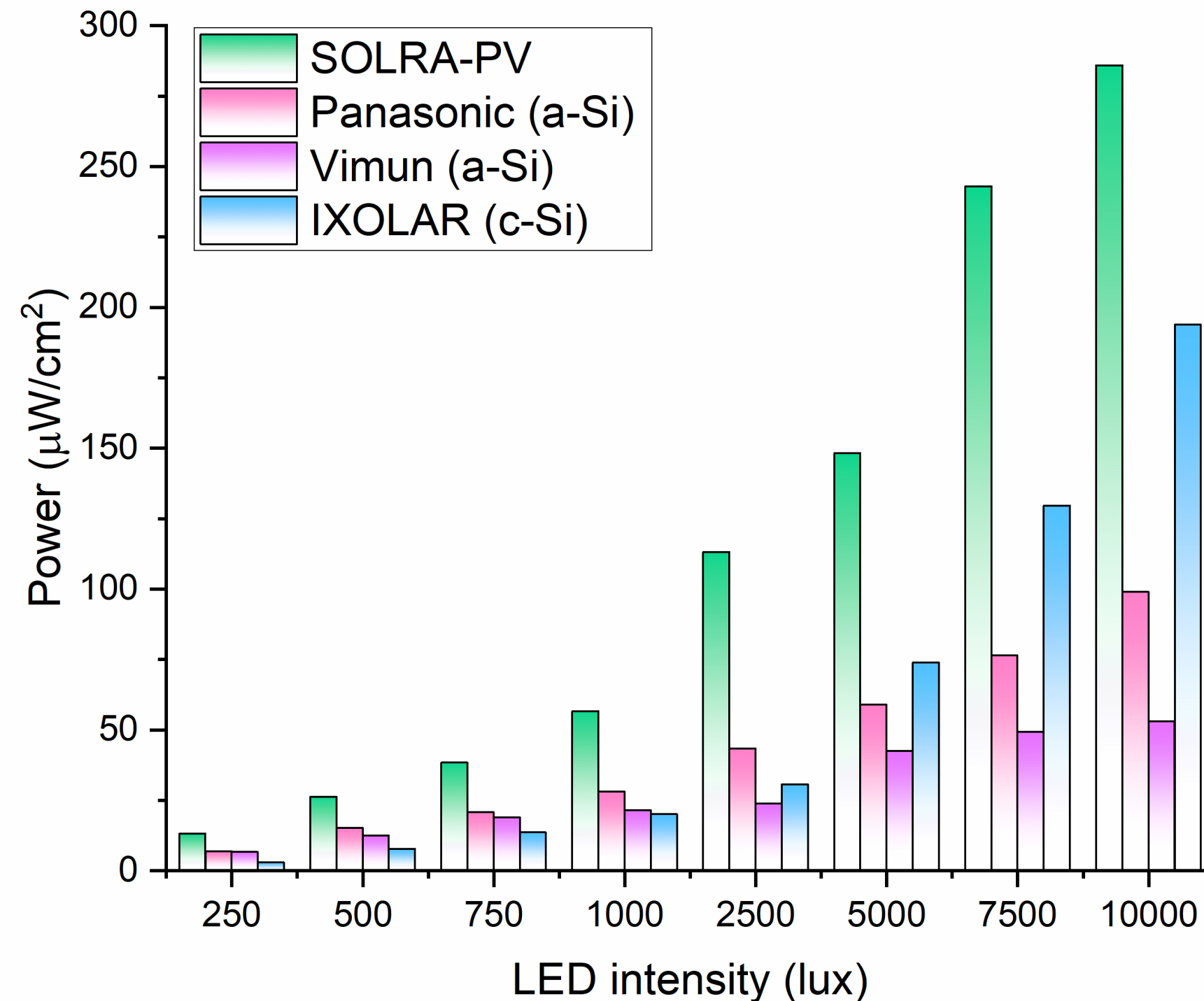
Calculated efficiency >20% @ 1000lux

Active area 7 cm²

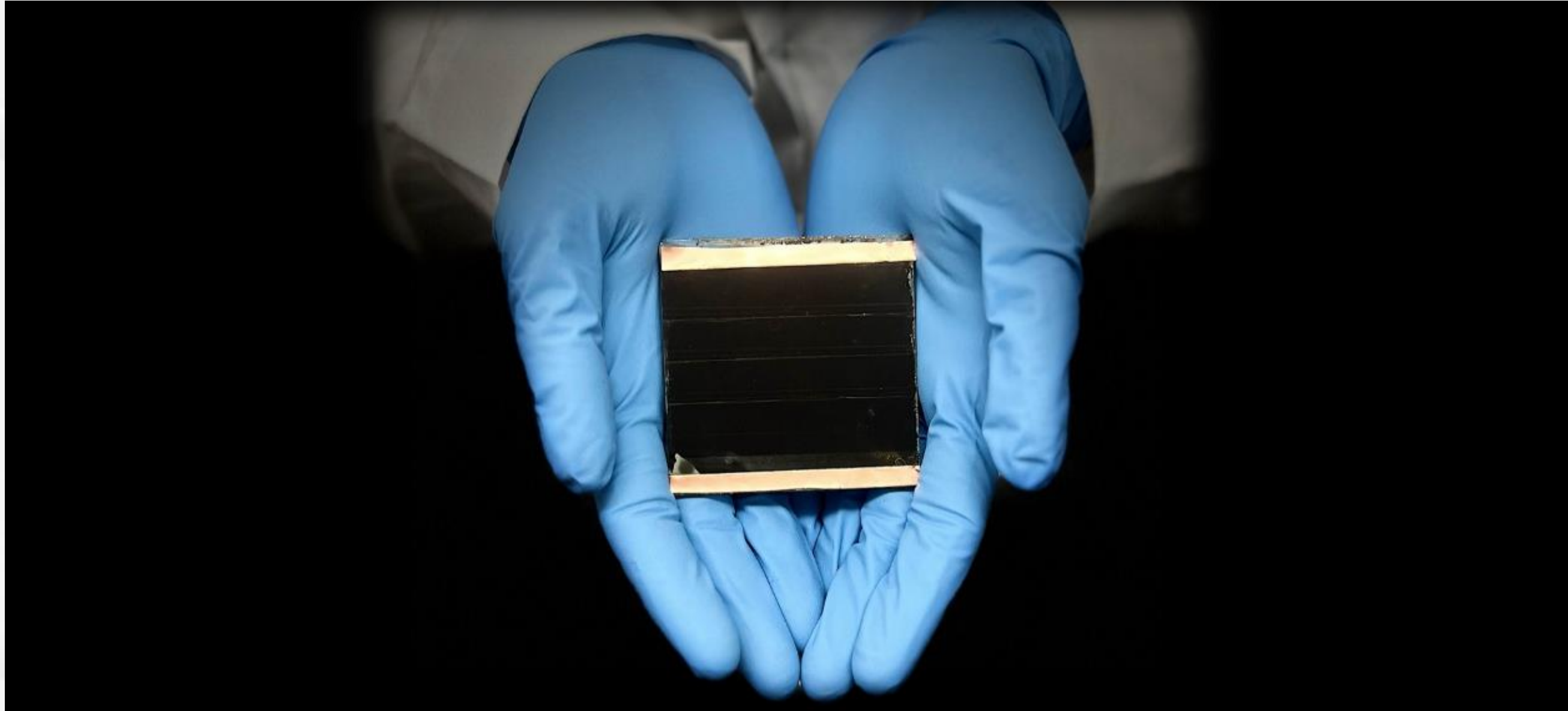


SOLRA-PV vs. Silicon Panels

Power comparison



Free your Wireless Devices from Batteries



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