



LIGHTRICITY LTD

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Lightricity is exhibiting and presenting the industry's highest-performance light energy harvesting devices and sub-systems at the IDTechEx Show! 2018 in Berlin, eliminating the need for battery replacements or the recharging of IoT-products.

Lightricity is an SME based in the Oxford Science Park and a spin-out from Sharp Laboratories of Europe, Sharp's European R&D lab.

Lightricity's unique indoor photovoltaic technology delivers up to 6x more power per area than other technologies.

We also offer innovative sub-system designs integrating energy harvester, storage and power management with high efficiency.

We enable functionality previously not accessible with light energy harvesting, e.g. small form-factor energy harvesting nodes (new applications in asset tracking, wearables, medical & retail) and IoT LPWAN sensors (reduced installation & operation cost – no battery changes).

Lightricity's technology is already being designed-in by customers and system integrators, and is fully customisable for both mass-market and challenging applications.

Key innovations:

- Highly efficient solar cell for ambient light energy harvesting:
 - Ultra-high power (>20 $\mu\text{W}/\text{cm}^2$ at 200 lux)
 - Customisable size (mm^2 - cm^2 range), shape, voltage
 - Proven reliability
 - Greatly superior aesthetics (fully black)
- Sub-system design & supply:
 - Harvester, storage, power-management integration with high efficiency

Applications:

- Wearable devices, building automation, mobility
- Low power wireless sensors & Internet of Things products

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