

EPSRC Supergen SuperSolar Research

UK University Science

SCIENTIFIC
AMERICAN

Perovskite Solar Cells Could Beat
the Efficiency of Silicon



Perovskites: the future of solar power?

With predictions of up to 50% efficiency and named one of the breakthroughs of 2013, perovskites are the clean tech material development to watch right now

Solar+Power
MANAGEMENT

SuperSolar Hub Brings UK Researchers Together
To Focus On Perovskite PV

pv magazine

How selenium alloying gives
CdTe thin film a boost

UK Companies

Born2Invest
Save. Invest. Prosper.

7 energy startups that are shaking
up the industry

Wirewatt, Watty, SEaB Energy, Oxford PV, Avant Garde Innovations, BuffaloGrid and Aquion Energ are on the rise.

The Telegraph

Oxford PV breaks record for solar
power efficiency

IEEE
SPECTRUM

[Perovskite Solar Out-Benches
Rivals in 2021](#)



PILKINGTON

First Solar Breaks Ground on new \$680m,
3.3 GW Ohio Manufacturing Facility

Overview

- Solar is the most popular form of new generation.
- Photovoltaic manufacturing has expanded 200x since 2004. Forecast to exceed 200GW in 2021.
- Industry expansion is driven by reducing cost of PV. Solar electricity now as low as 1 US cent/kW.hr
- Solar is expanding fast in the UK with 40GW by 2030

New applications for solar photovoltaics

- Building Integrated (roofs, windows and facades)
- Automotive (Electric vehicles)
- Agrivoltaics
- Indoor applications

Research Priorities

- Lowering cost of solar electricity by increasing device efficiency
- Increasing durability and reliability
- Reducing cost of Operation and Management of solar assets (inspection, monitoring, soiling)