

SOLAR ABSORPTION AND REFLECTION HELP UK DRIVE CHANGE IN COMMERCIAL AND CONSUMER ENERGY MARKETS

Renewables overtake fossil fuels in the UK¹

Nation's electricity met in 2020 by:



43.1%

Renewable sources including wind, solar, and biogas



37.7%

Fossil fuel generation

Solar on the rise

Even before the high gas prices of 2022, commercial and consumer solar investment in the UK was on the rise:



730MW

of new solar capacity in 2021²



Solar PV capacity now sits at **14.6GW**³

Solar PV and solar thermal outperform heat pumps⁴

2021 UK installations:



Nearly **67,000**

solar PV and solar thermal*

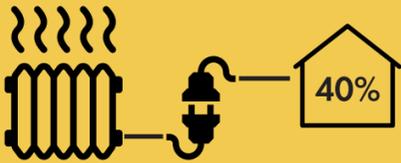


24,000 heat pumps

* accredited by the Microgeneration Certification Scheme

Revised UK Building Regulations open door to solar, thanks to tighter commercial and new build home emission targets⁵

At present, heating and powering buildings makes up **40%** of the UK's total energy use



CO₂ emission reduction targets:



New build homes - by **30%** or more



New buildings, including offices and shops - by **27%**

UK financial incentives to switch to solar

Removal of **business rates** on a range of green technologies, including solar panels, will save businesses more than **£200 million** over next five years⁶

Removal of **VAT** and other measures saves 'average' home **£1,000** when installing solar PV⁷

~~BUSINESS RATES~~

✓ **£200 million**

~~VAT~~

✓ **£1,000**



The key to solar thermal and solar PV success?

Maximising solar yield, whilst keeping investment, operational and maintenance costs low is key to a solar thermal or PV solution's success

Solar PV

Maximising reflectance – Alanod's Reflective 85 and MIRO-SUN® and MIRO-SUN®PV offer total solar reflectance of either **85%** or **90%**

Solar thermal

Alanod's selective absorber coatings have solar absorption rates of up to **97%** and emission rates as low as **4%**



Increasing durability with Alanod

10-year material warranties on all outdoor PV and thermal applications

10 YEAR WARRANTY



To find out more about Alanod's solar reflection and absorption materials visit alanod.co.uk/downloads/

1 The U.K. government, Digest of UK Energy Statistics (DUKES) for 2021, published by the Department for Business, Energy and Industrial Strategy (BEIS).
2 Figures from research by Solar Media Ltd and released by Solar Energy UK, 2022
3 Solar Energy UK, 2022
4 Solar Energy UK, 2022
5 Gov.uk, 15 December 2021
6 Government Budget Statement, October 2021
7 Government Spring Statement, 23 March 2022