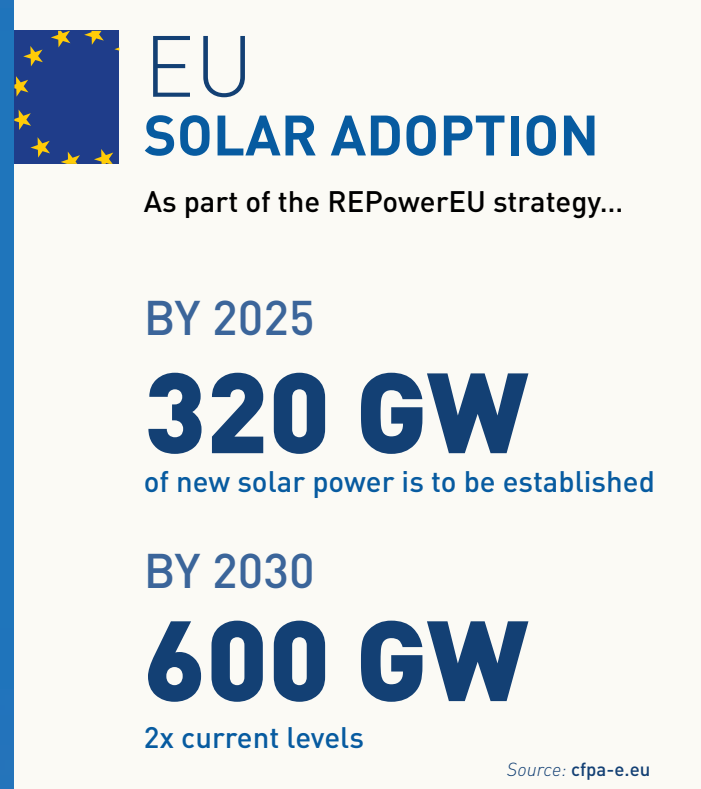
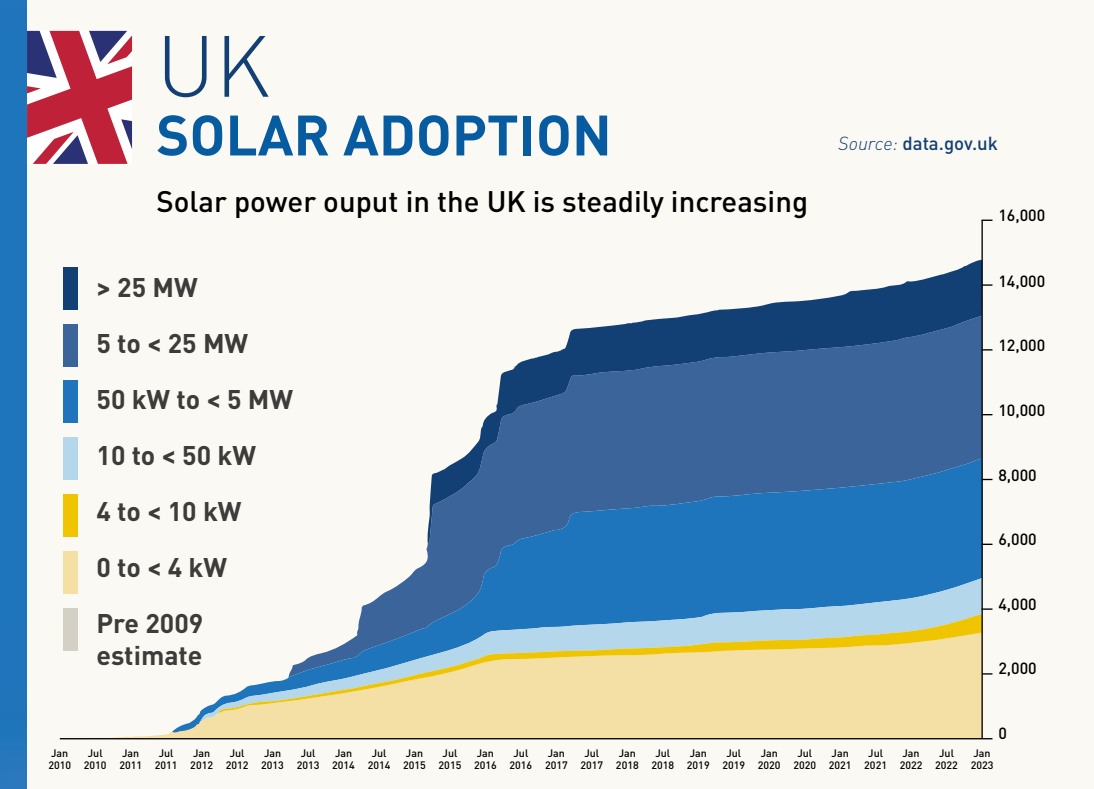


Fire damage

Roof mounted PV-related incidence on commercial flat roofs

Increased roof mounted PV adoption =
Potential roof fire incidence rise =
Costly buildings repairs for businesses

As countries strive to achieve their net zero carbon targets, companies are adopting renewable technologies to show their commitment to supporting these goals and reduce their energy bills.



Solar panel related fires are rare, but as adoption of solar increases, statistically, so might the incidence of fire.

In the UK
12% rise
in the number of fires relating to solar
2021 Vs 2020

Source: www.zurich.co.uk

Based on research for Malaysian commercial buildings
An average of 29 fires occur per GW of capacity

Source: www.cfpa-e.eu

67%
caused by
solar panel
components

33%
caused by
external
ignition sources

The cost of downtime and disruption...

In the commercial sector the cost of fire through repairs, insurance premium increases, downtime of operation and other associated expenses can be astronomical.

DATA ANALYSED BETWEEN
JANUARY 09 & DECEMBER 19 FOUND

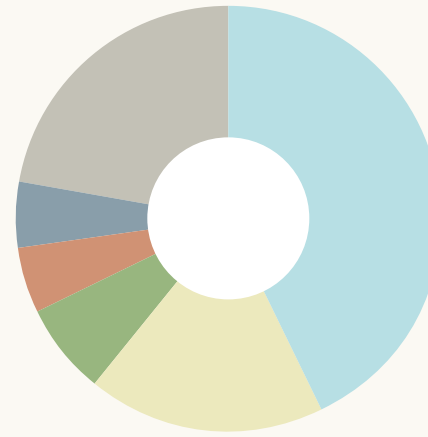
4,782
MAJOR UK FIRES
in buildings across the
private and public sectors

The average loss per incident
£657,074

Source: www.jacksonfire.co.uk

Cost ratio breakdown of PV related fire damage for commercial buildings

Source: www.jacksonfire.co.uk



43% Building Damage
18% Interruption to business/services
7% Damage to building contents
5% Loss of stock
5% Damage to machinery
22% Other

A data centre fire for French cloud computing company OVH Groupe SAS in Strasbourg resulted in **€105 million in losses**

Source: Source: businessinsurance.com

Consequences of data centre disasters...

93%
of companies
that lost data for
10+ days filed for
bankruptcy

50%
of business
without data management
filed for bankruptcy
immediately

43%
of companies
never reopen and 51%
close when suffering
from a catastrophic
data loss

30%
of all business
that have a major fire go
out of business within
a year and 70% fail
within five years

Source: unitrends.com

It is clear that additional resistance to fire for roof build-ups is crucial where solar specification is a priority.

What are DensDeck® Roof Boards?

Provide your next commercial flat roof with additional protection with a gypsum based DensDeck® Roof Board. Installed between the insulation and waterproofing membrane it provides roofing systems with added fire resistance*, improved acoustic performance and enhanced defence against impact and wind uplift.

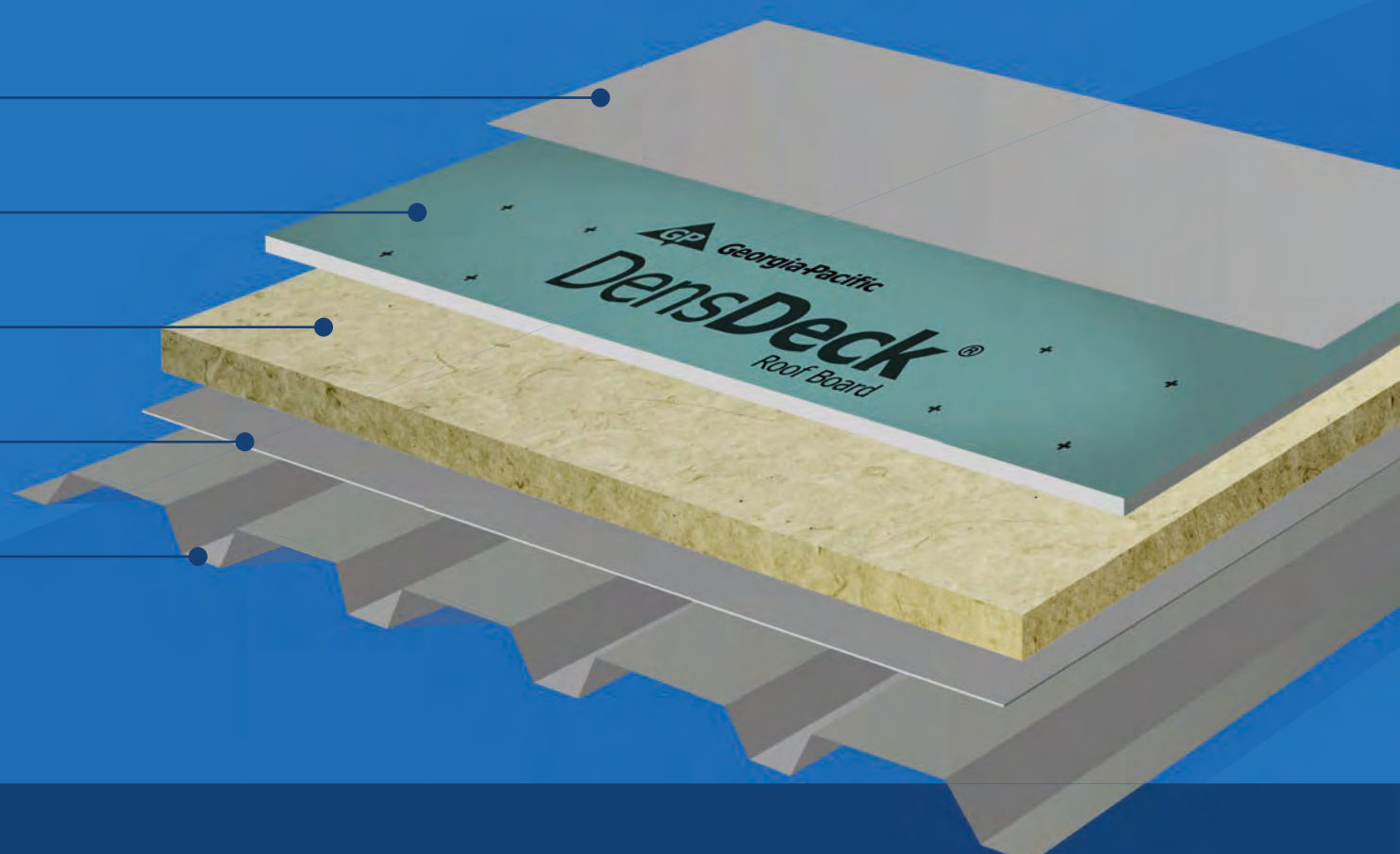
ROOF MEMBRANE

DENSDECK® ROOF BOARD

INSULATION

VAPOUR CONTROL LAYER

ROOF DECK



Visit densdeck.buildgp.com/features to discover how the DensDeck® Roof Board can benefit your next flat roof project today

*DensDeck® Roof Boards have an A1 fire classification in accordance with BS EN 13501-1 and are classified as non-combustible as described and tested in accordance with ASTM E136 or CAN/ULC S114.