



# Theft of photovoltaic panels in Weining

Are solar PV projects causing theft and vandalism?

The capital costs of solar PV projects can be enormous, running up into millions of dollars and with parks taking years to realise. Given this, developers want to make the most out of their investment but an increasing practice is threatening this return: theft and vandalism of solar technology.

Are solar panels causing a surge in photovoltaic panel waste?

The coming surge in photovoltaic panel waste is tiny compared to other categories, and most health concerns about solar equipment are unfounded. The Amazon Fort Powhatan Solar Farm in Disputanta, Virginia on August 19, 2022. Credit: Drew Angerer/Getty Images

How much does a solar theft cost?

Strecke says European solar thefts typically cause EUR60,000 (\$63,900) of damage, when repairs and loss of business are factored in. "Solar crime is on the increase," says Rachael Oakley, director of crime intelligence at Telford-based DeterTech, formally known as SmartWater Group thanks to its product-marking technology.

Does the UK have a solar crime rate?

And the UK experience is far from unique. German solar security business Viamon tells pv magazine that more than 5,000 "major" solar thefts annually occur in Europe, with more than 400 in Germany alone. In southern Italy, says Viamon Managing Director Oliver Strecke, the solar crime rate is 10 times higher than the European average.

Should solar panel waste be increased?

Concerns about an increase in solar panel waste need to be placed in the context of how the amount of waste compares to other sources.

Are solar panels being stolen in the UK?

That figure - reported by Detective Superintendent James Taylor, head of UK serious organized acquisitive crime unit Opal - included a rise in small-scale theft of solar panels as rising energy bills and the cost-of-living crisis bite. And the UK experience is far from unique.

**Conclusion: Preventing Solar Panel Theft.** Solar panel theft is a huge problem. Because of the allure that these panels carry, they are one of the most commonly stolen items. This theft ...

Solar energy is considered the primary source of renewable energy on earth; and among them, solar irradiance has both, the energy potential and the duration sufficient to match mankind future ...

Photovoltaic (PV) systems have attracted increasing attention in last years as well as Wireless Sensor Networks (WSNs), which have been used in many application fields. In PV plants, ...



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