



Safe Electrification with Rooftop Solar

European Fire Safety Week 2023

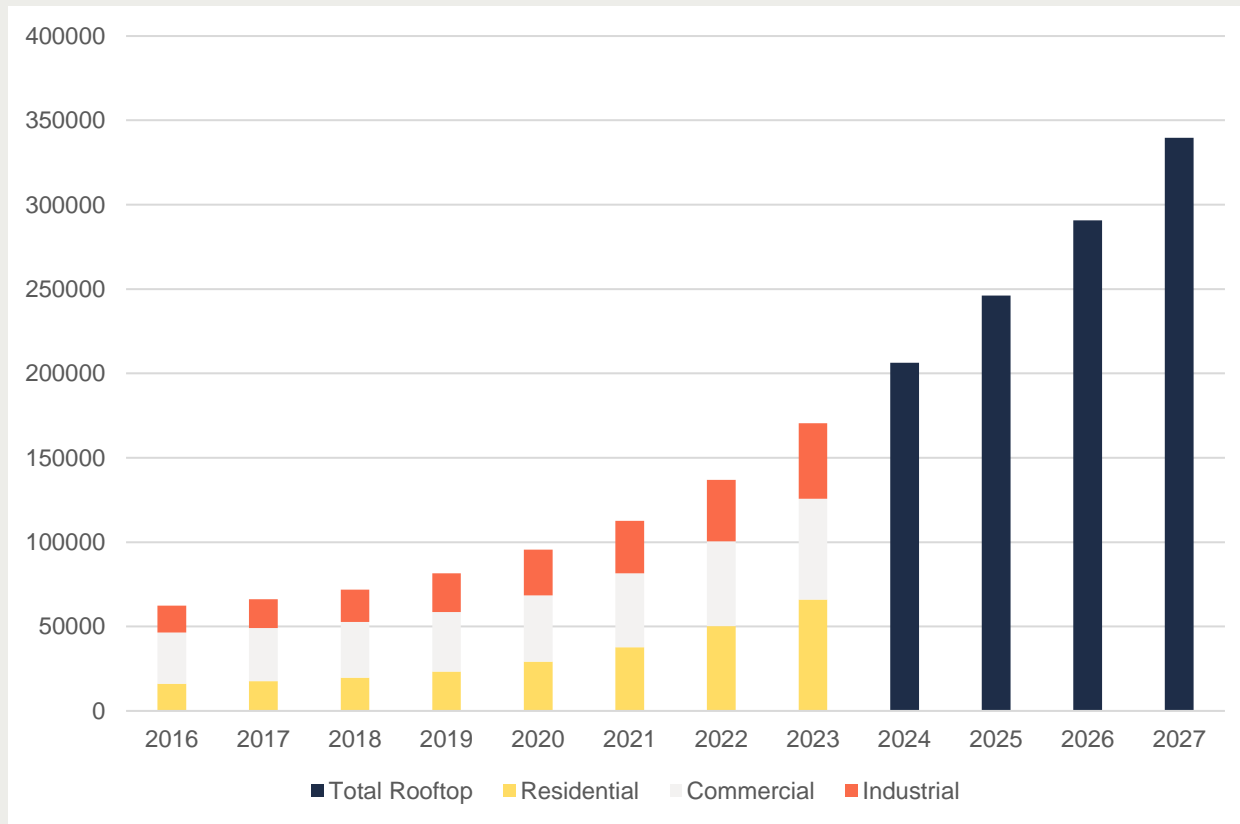
SolarPower Europe Buildings & Prosumers
Workstream

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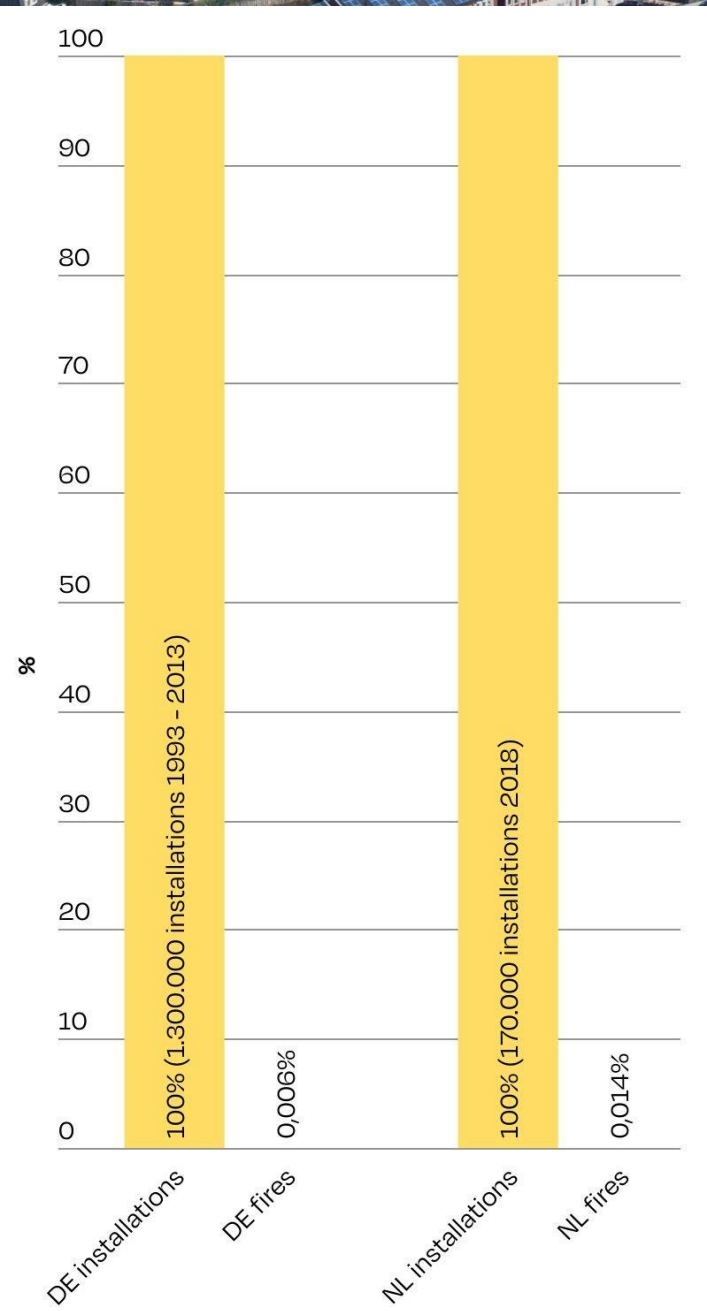


Solar is on track to exceed the REPowerEU targets – as long as it continues to be safe



- **Annual solar installations** across all segments, residential, commercial, and industrial, **increased by 45 % from 2021 to 2022**
- 2022 cumulative installations power the equivalent of 41 million homes
- **Rooftop solar is European's favourite energy source** – as long as it's safe

EU cumulative rooftop solar installations. Source:
Global Market Outlook for Solar Power, 2023, SPE



Solar fires are marginal

- **Common causes:**
 1. installation errors - 39% (DE)
 2. product defects - 36% (DE)
 3. design errors - 18% (DE)
 4. external causes - 10% (DE)
- **35% of fires happened in the first year after installation**, and 90% of fires happened in the first 6 years of the installation.
- **We need more data!** Insurance companies and or firefighters should provide this data

Member states have safety measures in place

- **Member states use different approaches:** installer training / quality requirements / a final inspection above a certain capacity.
- All inverters today are equipped with insulation monitoring to find and avoid earth faults, i.e. an arcing risk
- Arc Fault Protection detects and mitigates arcing faults on DC conductors which can occur in the intended path of current flow.
- **IEC standards are available and constantly updated with available data:** Product, installation, and documentation standards are available and constantly updated.



Thanks for participating

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