Freedom of Information Request FOI 26 54

Solar panel fires 2022 - 2025

Query:

If possible, please provide the information in the Excel spreadsheet attached. If you are unable to answer any questions, please complete the questionnaire as best as possible and share any available relevant data.

1. How many fire incidents involving solar panels (photovoltaic) systems were recorded in the following time periods?
   a. 01/01/2022 - 31/12/2022
   b. 01/01/2023 - 31/12/2023
   c. 01/01/2024 - 31/12/2024
   d. 01/12/2025 – 31/12/2025

2. In 2024, how many fire incidents involving solar panels occurred in each of the following locations?
   a. Residential properties
   b. Commercial properties
   c. Industrial properties
   d. Solar farms (ground-mounted solar installations)

3. In 2025, how many fire incidents involving solar panels occurred in each of the following locations?
   a. Residential properties
   b. Commercial properties
   c. Industrial properties
   d. Solar farms (ground-mounted solar installations)

4. In 2024, how many solar-panel related fires originated in the following settings?
   a. Solar panel
   b. DC cabling/ connectors
   c. Invertor
   d. Battery bank

5. In 2025, how many solar-panel related fires originated in the following settings?
   e. Solar panel
   f. DC cabling/ connectors
   g. Invertor
   h. Battery bank

6. In the following years, how many fire incidents involving solar panels were
   a. confined to the solar panel system?
   b. spread to the wider building?

   Please provide figures for:
   a) 01/01/2022 – 31/12/2022
   b) 01/01/2023 – 31/12/2023
   c) 01/01/2024 – 31/12/2024
   d) 01/01/2025 – 31/12/2025

7. What equipment or firefighting methods are typically used by your fire service to extinguish or control solar panel fires?
   a. Standard water hoses/jets
   b. Foam additive hoses
   c. CO2 and/or Dry Powder
   d. Specialist extinguishing agents, if so please specify
   e. Other agents or equipment/tools, please specify (e.g. black out blankets, PV Stop)

Response:

Please see the attached excel file (FOI 26 54 - Solar panel fires 2022 - 2025) for our response to this request. Please note, DWFRS has used our mobilising systems incident narrative to retrieve the data provided for this request.

Information/Detail accurate on the date provided: 12, March 2026