

Freedom of Information request reference number: 8709.1

Date of response: 24 May 2024

Request:

1. *Number of incidences attributed to:*
 - a. *Solar PV*
 - b. *Battery Storage System*
 - c. *Heat pump (Air source)*
 - d. *Heat pump (ground source)*
 - e. *Wind turbine*
 - f. *Electric Vehicle Charging Equipment*
2. *Number of injuries caused by the incidences in question 1.*
3. *Number of deaths caused by the incidences in question 1.*
4. *What was the cause of the incidences (based on IRS categories)?*
5. *Can the problems be pinpointed to:*
 - a. *User error/lack of understanding of the item /system requirements? (please explain)*
 - b. *Installation error? (please explain)*
 - i. *Electrical*
 - ii. *Mechanical / fixing (note: we do need to find if there is an issue with electrical installers breaching roofing construction methods)*
 - c. *Design error (please explain)*
 - d. *Equipment failure? (please explain)*
 - e. *Lack of maintenance of the LCT system and wiring? (please explain)*
6. *Were the affiliated switchgear, and protective devices (e.g., MCB, Fuse, RCBO, RCD, etc), in the consumer unit/distribution board checked to be suitable and correctly sized for the installation, considering the potential increased current flows and bi-directional operation*
7. *What was the age of the installation?*

Response:

Our Data team have provided the response to each of your queries in turn below:

1. *Number of incidences attributed to:*
 - a. *Solar PV*
 - b. *Battery Storage System*
 - c. *Heat pump (Air source)*
 - d. *Heat pump (ground source)*
 - e. *Wind turbine*
 - f. *Electric Vehicle Charging Equipment*

The table below shows the number of fires from 01 January 2020 to 20 May 2024 where a low carbon technology was mentioned in the recorded incident details, it doesn't necessarily mean the technology was the cause of the fire, but that it may be related:

	Type of low carbon technology:					Total
	Battery Storage (b.)	Electric Vehicle Charging Points (f.)	Heat Pumps (c.) (d.)	Solar (a.)	Wind Turbine (e.)	
Number of fires:	3	3	2	47	0	55

2. *Number of injuries caused by the incidences in question 1.*

	Type of low carbon technology:					Total
	Battery Storage (b.)	Electric Vehicle Charging Points (f.)	Heat Pumps (c.) (d.)	Solar (a.)	Wind Turbine (e.)	
Number of fire injuries recorded from the 55 incidents listed for Q1:	0	0	0	8	0	8

3. *Number of deaths caused by the incidences in question 1.*

There were no fire deaths recorded for the 55 incidents listed in response to question one.

4. *What was the cause of the incidences (based on IRS categories)?*

Main Cause	Type of low carbon technology:					Total
	Battery Storage (b.)	Electric Vehicle Charging Points (f.)	Heat Pumps (c.) (d.)	Solar (a.)	Wind Turbine (e.)	
Combustible articles too close to heat source (or fire)	0	0	1	1	0	2
Fault in equipment or appliance	0	0	0	9	0	9
Faulty fuel supplies – Electricity	2	0	0	21	0	23
Faulty leads to equipment or appliance	0	2	0	4	0	6
Heat source and combustibles brought together deliberately	0	0	0	1	0	1
NULL	0	1	0	0	0	1
Overheating, unknown cause	0	0	0	4	0	4

Pending Fire Investigation Team findings	0	0	0	1	0	1
Unable to determine	0	0	1	3	0	4
Unsafe use of equipment or appliance (heat source)	1	0	0	2	0	3
Unsafe use of heat source - due to unsafe disposal	0	0	0	1	0	1
Total	3	3	2	47	0	55

5. *Can the problems be pinpointed to:*

- a. *User error/lack of understanding of the item /system requirements? (please explain)*
- b. *Installation error? (please explain)*
 - i. *Electrical*
 - ii. *Mechanical / fixing (note: we do need to find if there is an issue with electrical installers breaching roofing construction methods)*
- c. *Design error (please explain)*
- d. *Equipment failure? (please explain)*
- e. *Lack of maintenance of the LCT system and wiring? (please explain)*

We do not record this information on the LFB Incident Management System (IMS) so do not hold this data.

6. *Were the affiliated switchgear, and protective devices (e.g., MCB, Fuse, RCBO, RCD, etc), in the consumer unit/distribution board checked to be suitable and correctly sized for the installation, considering the potential increased current flows and bi-directional operation*

We do not record this information on the LFB Incident Management System (IMS) so do not hold this data.

7. *What was the age of the installation?*

We do not record this information on the LFB Incident Management System (IMS) so do not hold this data.

We have dealt with your request under the Freedom of Information Act 2000. For more information about this process please see the guidance we publish about making a request [on our website](#).