Electrical installations are the backbone of zero-emission buildings. The EPBD must make them safe, ready, efficient and smart — infographic, ECI, December 2020.

**World data:**
Number of domestic electrical fires per 1,000,000 dwellings

<table>
<thead>
<tr>
<th>Country</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan</td>
<td>50</td>
</tr>
<tr>
<td>USA</td>
<td>370</td>
</tr>
<tr>
<td>EU</td>
<td>1,200</td>
</tr>
</tbody>
</table>

- Japan: mandatory inspections of electrical installations every 4 years
- USA: inspection every 10 years (differs among states) + awareness campaign

**Copper** is a key element for decarbonisation of the building stock due to its inherent properties, particularly its excellent electrical and thermal conductivity, making it the material of choice for low carbon, efficient and smart building technologies.

EU data:
Domestic fires of electrical source = 273,000/year

- 25 to 30% of all domestic fires
- 50% of all domestic accidental fires

Safe and decent housing is a must of the energy transition.

**European Parliament** (resolution of 15 December 2021 on the implementation of the EPBD):

- "... calls on Member States to develop an electrical inspection regime..."
- "... believes that the European building stock renovation should integrate electrical safety checks and upgrades..."


**EU**: inspections regimes vary strongly among Member States

EU deployment of inspection regimes is limited and mainly voluntary

Further information:
- [RESIDENTIAL ELECTRICAL SAFETY - HOW TO ENSURE PROGRESS, White Paper, FEEDS, February 2020](#)
- [ACCIDENTAL ELECTRICAL DOMESTIC FIRES, White Paper, FEEDS, April 2021](#)

Sources: Forum for European Electrical Domestic Safety - FEEDS - [https://www.feedsnet.org/](https://www.feedsnet.org/)