Forum for European Electrical Domestic Safety

https://www.feedsnet.org/

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Energy transition and safety

How to ensure residential electrical safety in Europe
Energy transition

“Electrification of the energy world, our societies and our economies, will shape the future”

H.E. Dr Fatih Birol, Executive Director, International Energy Agency (IEA)
Why FEEDS?

- Electrification requires an adequate electrical installation
- Over recent years, the number of domestic fires are decreasing in the world and in the EU
- But, as demonstrated by FEEDS, the share of domestic fires from electrical source doesn’t decrease at the same rate
Why FEEDS?

- Mapping this concern at EU level required a study:
  - The FEEDS report (*edited March 2020*)

- Credibility is assessed by the FEEDS members: broad panel of attendees including fire organisations, consumer organisations, insurance companies, professional associations including contractors and manufacturers
FEEDS Members
FEEDS model

• Evaluation of the number of domestic fires from an electrical source across EU

• The overall methodology is based on the best available data and extrapolated region by region & country by country
Basic assumptions

- 2 out of 5 domestic fires require an intervention by the fire brigades (reported fires), 5 is the number of declaration to insurance companies.

- Fires from unknown/uninspected sources are redistributed into the existing categories.

- All data processed according to the FEEDS model have been submitted to our members for review.
FEEDS data

- Electrical fires account for 25 - 30% of all \textit{domestic fires}, an increase of 5 - 10% (among the total number of domestic fires) in the last 10 years.

- The \textit{total number of fires of electrical source} in the EU is estimated to be 273,000 per year.

- Their consequences have a strong impact in terms of fatalities, injuries, the economic cost to society and dramatic experiences for families.
<table>
<thead>
<tr>
<th>Per year</th>
<th># Population</th>
<th>Number of dwellings</th>
<th>Electrical fires (reported or not)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwestern EU</td>
<td>252 727 014</td>
<td>113 685 316</td>
<td>187 050</td>
</tr>
<tr>
<td>Nordic countries</td>
<td>22 125 461</td>
<td>11 076 310</td>
<td>8 800</td>
</tr>
<tr>
<td>(minus Norway)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern and Central EU</td>
<td>104 704 842</td>
<td>40 022 493</td>
<td>28 480</td>
</tr>
<tr>
<td>Southern EU</td>
<td>133 205 368</td>
<td>62 297 305</td>
<td>48 900</td>
</tr>
<tr>
<td>Total EU</td>
<td>512 762 685</td>
<td>227 072 424</td>
<td>273 230</td>
</tr>
</tbody>
</table>

Before Brexit
<table>
<thead>
<tr>
<th></th>
<th>Population</th>
<th>Dwellings</th>
<th>Electrical Fires</th>
<th>EF/population</th>
<th>EF/dwellings</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>512 762 685</td>
<td>227 081 424</td>
<td>273 230</td>
<td>530</td>
<td>1200</td>
</tr>
<tr>
<td>Japan</td>
<td>126 475 664</td>
<td>53 890 900</td>
<td>2 732</td>
<td>22</td>
<td>50</td>
</tr>
<tr>
<td>USA</td>
<td>313 232 044</td>
<td>129 968 653</td>
<td>47 700</td>
<td>155</td>
<td>370</td>
</tr>
</tbody>
</table>

Theresa Griffin @TheresaEurope

No we can't accept this & will take further action
[link to Twitter](https://twitter.com/ModernBuildEU/...)

Modern Building Alliance @ModernBuildEU

Replying to @ModernBuildEU

Electrical fires per dwelling in #EU 🚨🔥

3 times more than in #USA 😱
2 4 times more than in #Japan 😱

Can we accept that? 🚨🔥
@TheresaMEP @SeanKellyMEP #prevention #inspection #EuropeanFireSafetyWeek
Electricity and Energy Transition

- Electricity will play a major role in the Energy Transition and it has to be:
  - Clean
  - Reliable
  - Affordable
  - Safe

- Are the European electrical domestic installations ready for the big change of Electrification?
The key factors for an inclusive Energy Transition

- Technological changes (EV, PV...)
- Societal change (Energy Poverty - EPOV, elderly, single families...)
- Climate change (More flooding, increased temperatures...)
- Political trends (Green Deal, renewables and efficiency policies, Renovation Wave...)

What can FEEDS do at European level?

- **Deepen the question of data**, FEEDS is ready to help and work with EuroFSA in the EU project and FEEDS is also working on accidental fires

- **Exchange of best practice**, FEEDS already attends to FIEP meetings since its creation

- **Develop awareness**, FEEDS plane regular communication campaigns

- FEEDS is a **toolbox** and an **expertise** at your disposal
Ask from FEEDS to EU

- Recognizing the importance of this issue
- Importance of the prevention
- Not too much focus on large event
- Coordination of the communication & best practice at the local level
- Promotion of mandatory checks of electrical domestic installations in the various policies regarding the EU Energy Transition (as it was the case for cars)
Thank you for your time and your attention

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"A faulty electrical installation is more dangerous than a rhino behind your back."

Benoît Dôme @FesdEU