Electrical safety: time for action

Electrical installations are the backbone of zero-emission buildings

The EPBD must make them safe, ready, efficient and smart - Infographic, ECI, December 2020

Electrical safety: time for action

• 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.

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

The 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..."

130 millions of obsolete electrical installations (half of the EU building stock)

- aging of components
- lack of maintenance
- evolution of uses
- low renovation rate

Safe and decent housing is a must of the energy transition

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

EU data:
Domestic fires of electrical source = 273,000/year
25 to 30% of all domestic fires
50% of all domestic accidental fires

50% have an electrical source

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

Japan: 50
USA: 370
EU: 1,200

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

EU: inspections regimes vary strongly among Member States
EU deployment of inspection regimes is limited and mainly voluntary

50%

of all domestic accidental fires

+ 25 to 30%

of all domestic fires

- aging of components
- lack of maintenance
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Further information:
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DEPLOY NATIONAL INSPECTIONS REGIMES ACCORDING TO NATIONAL WIRING RULES

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