

# Webinar: Building an Electric Future Together

The electrical contracting sector's key policy asks for the EU legislative term 2019-2024

18 March 2019 | 2-3 PM CET



The European Association for Electrical Contractors

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# Speakers



**Giorgia Concas** AIE  
Secretary General



**Alexis Delepouille**  
AIE Board Member  
& Policy Working  
Group Chairman



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# What is AIE

We are the European Association for Electrical Contractors

We represent



more than **1 million** professionals



more than **100 thousand** companies, 90% SMEs



more than **100 billion** € annual turnover

We promote opportunities for electrical contractors by helping to build a regulatory environment in the EU that embraces **the modern electrical contractor**.

From energy efficiency, smart and new digital technologies, renewable energy, electromobility, and training and education - we make sure that the key strategies and main priorities for the modern electrical contractor as a solution provider in Europe are well represented.



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# Our members



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# The electrical contracting sector today: wide range of technologies and applications



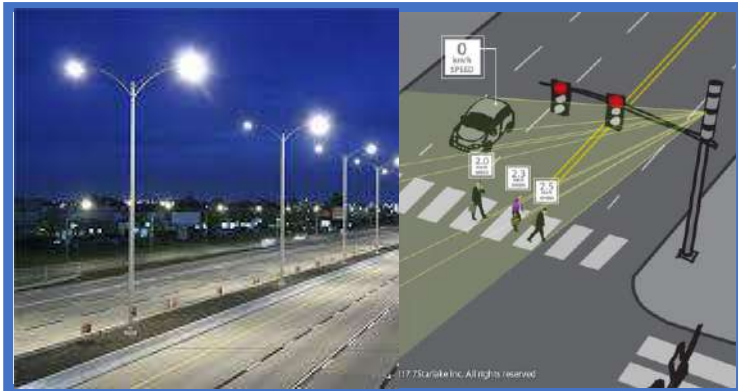
Decentralised and centralised power plants



Electricity & IT infrastructure



Electromobility



Public lighting, smart cities



Commercial and industrial electrical installations, monitoring & control systems



Residential electrical installations, smart home technologies

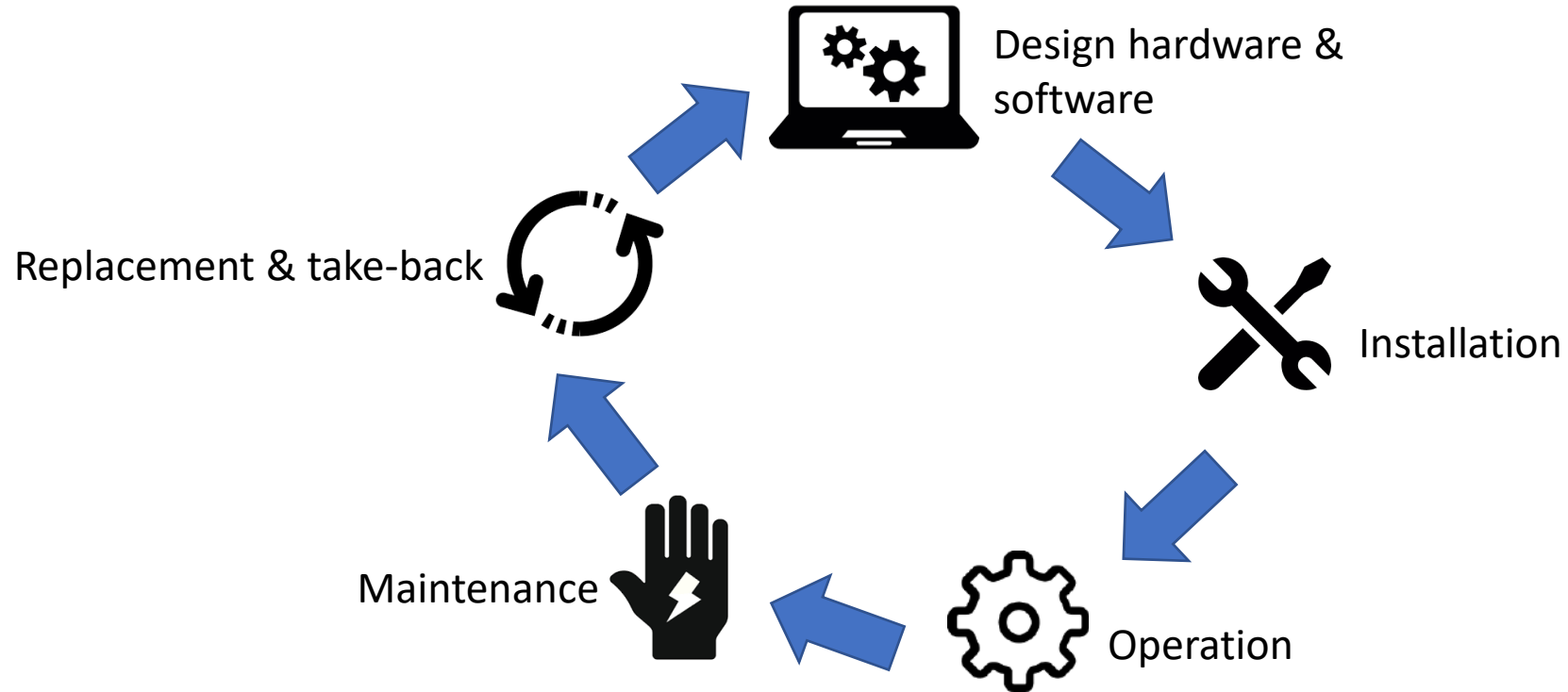


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# The electrical contracting sector today: full range of activities

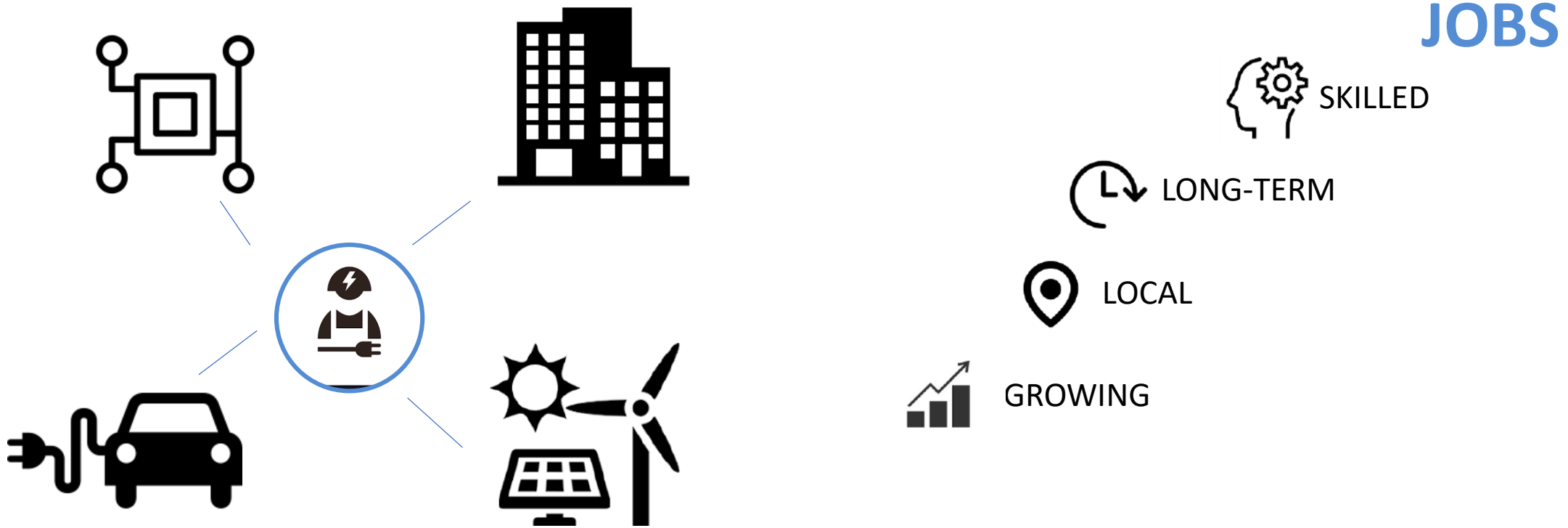


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# Going forward: the key role of the electrical contracting sector



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# Our priorities for the next years



Clean,  
decentralised  
electrification



High-standard  
buildings



Building sector  
digitalisation



Learning  
opportunities &  
standards for  
electricians



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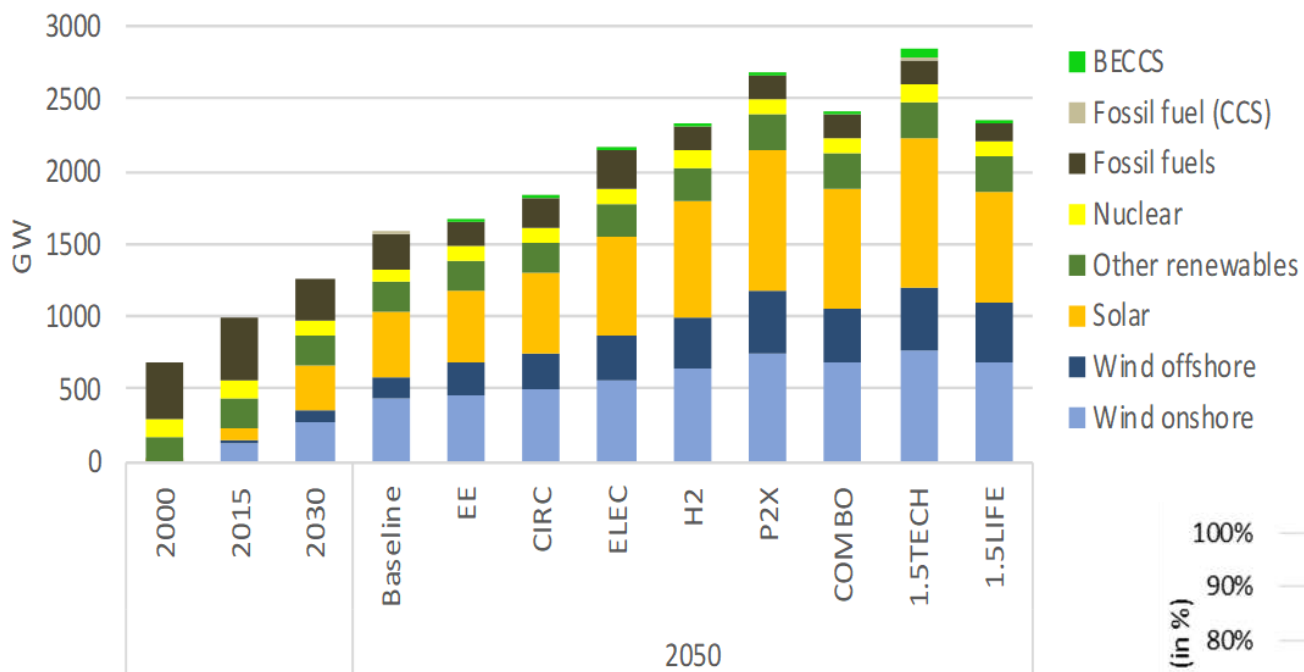
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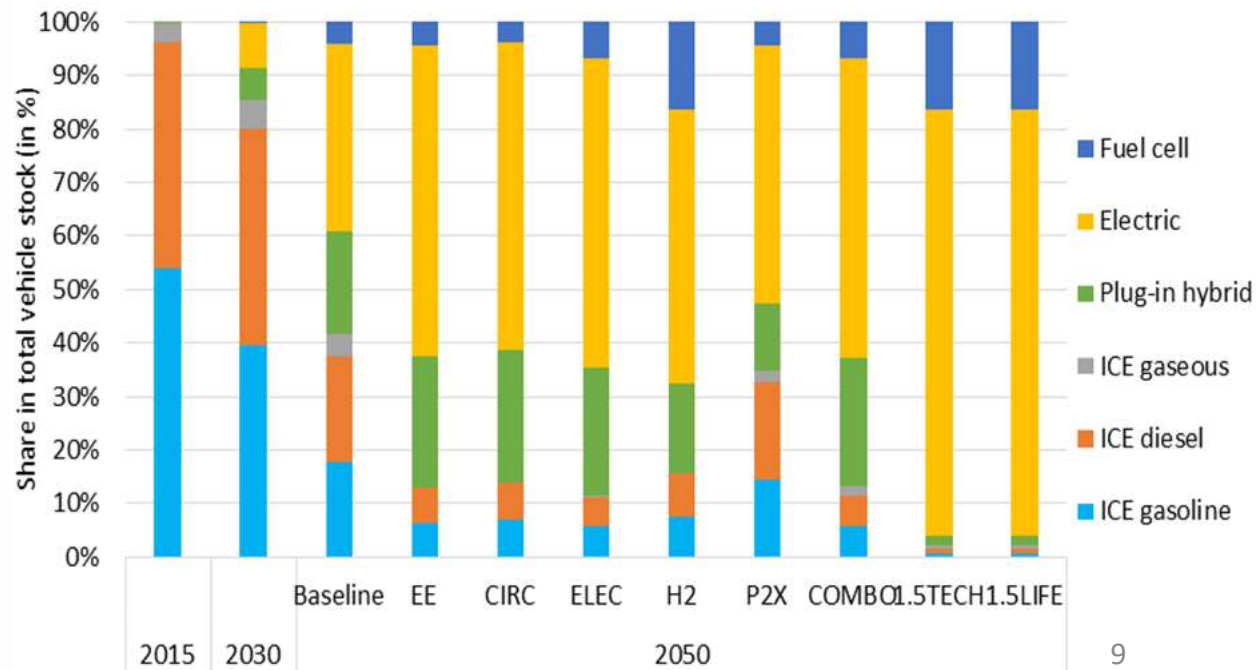


# Clean, decentralized electrification



... And decentralised power technologies, such as electromobility, will play key role

EU Comm strategic vision 2050 finds that, to minimize CO2 emissions in Europe, use of electricity must dramatically increase...





# Clean, decentralized electrification

## The electrical contracting sector commits to:

- Raise consumer awareness about benefits of power-based solutions
- Improve our skills and availability to offer best-of-class electrical solutions

## We call on policy makers to:

- Help accelerate transport electrification
- Improve consumer information about product environmental performance
- Make electricity prices competitive and dynamic



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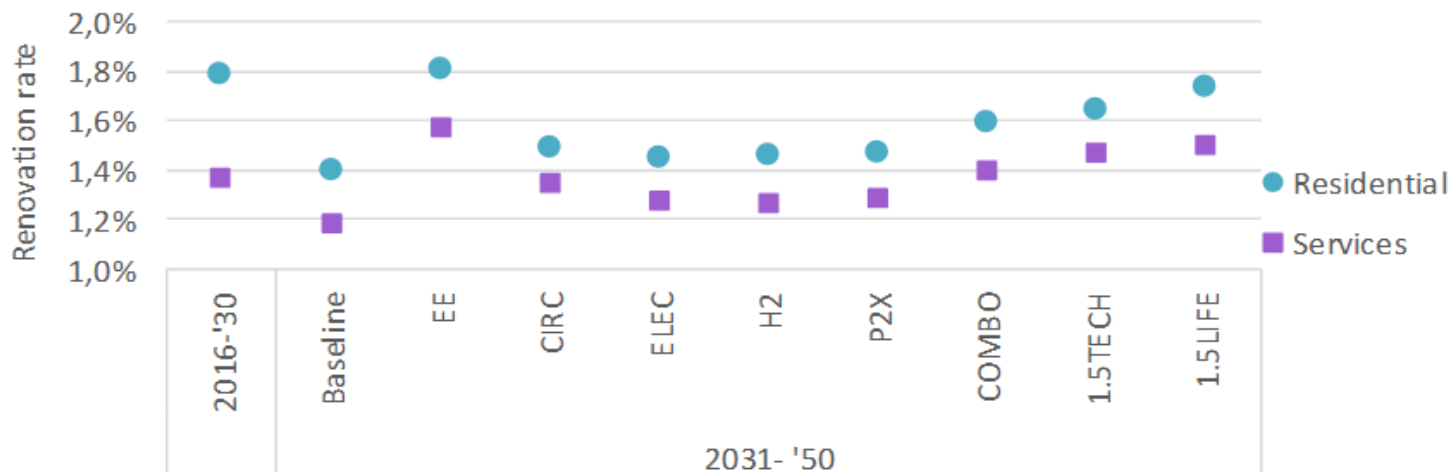
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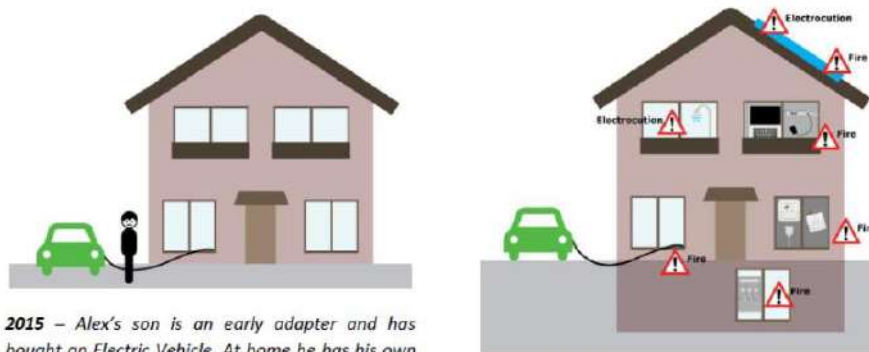


# High-standard buildings

The pace at which buildings in Europe are being made green and comfortable is still very slow, and there is still a high number of buildings which are even unsafe



EU Comm 2050 strategic vision, Nov 2018: renovation rate must increase considerably



**2015** – Alex’s son is an early adapter and has bought an Electric Vehicle. At home he has his own charging station, but where can he charge his car when he is visiting his parents’ house? Via an extension cord through the window, he plugs it into one of the ordinary sockets in the living room...

**2016** – 40 years after the construction of the house and the initial verification of the electrical installation, the place is full of dangers...

Residential electrical safety - How to ensure progress, Forum for European Electrical Safety (FEEDS), May 2017



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# High-standard buildings

## The electrical contracting sector commits to:

- Inform building investors, owners and occupants about benefits of higher building standards
- Offer expertise and advise on most appropriate combinations of solutions for higher safety, comfort, energy optimization and low environmental impact

## We call on policy makers to:

- Support expansion of markets for quality buildings
- Enable introduction of clean and efficient technologies into multi-occupancy buildings and districts
- Maximise quality and performance of both single building products and systems with complementary measures
- Improve safety of electrical installations, esp in residential buildings



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# Building sector digitalisation

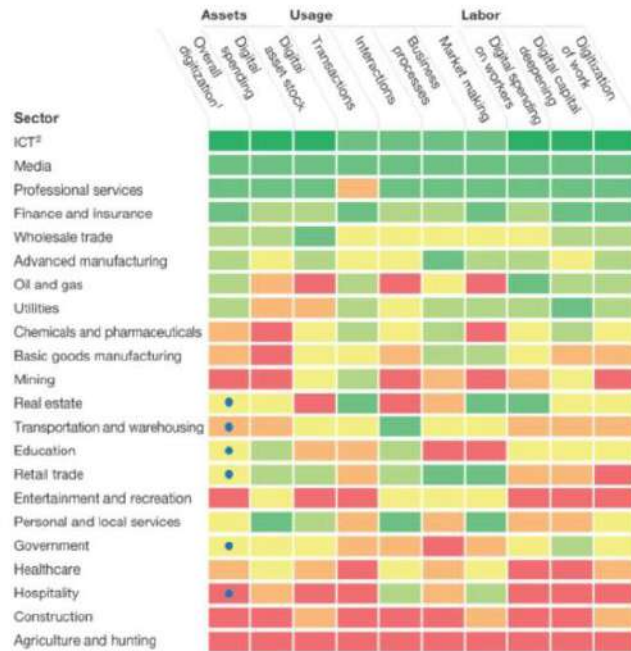
The construction sector is among the least digitalized, but digitalization opportunities are growing...

Smart building devices and services are growing too, also under the push of EU and national regulation

The construction industry is among the least digitized.

McKinsey Global Institute industry digitization index; 2015 or latest available data

Relatively low digitization (red) to Relatively high digitization (green). Digital leaders within relatively undigitized sectors (blue dot).

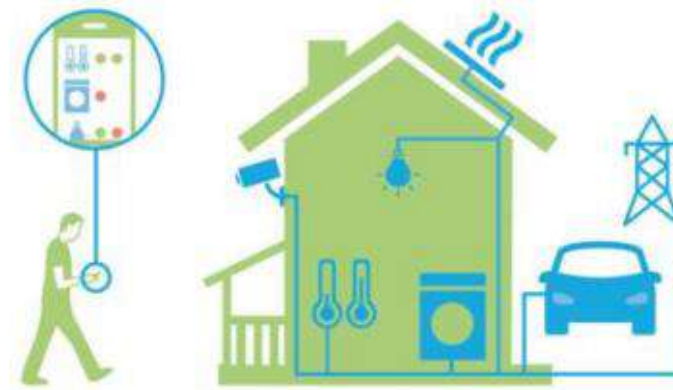


<sup>1</sup>Based on a set of metrics to assess digitization of assets (8 metrics), usage (11 metrics), and labor (8 metrics).

<sup>2</sup>Information and communications technology.

Source: AppBrain; Bluewolf; Computer Economics; eMarketer; Gartner; IDC Research; LiveChat; US Bureau of Economic Analysis; US Bureau of Labor Statistics; US Census Bureau; McKinsey Global Institute analysis

## Smart Building



### Expected advantages

- optimised energy use as a function of (local) production
- optimised local (green) energy storage
- automatic diagnosis and maintenance prediction
- improved comfort for residents via automation

Support for setting up a Smart Readiness Indicator for buildings and related impact assessment, Final report, August 2018



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# Building sector digitalisation

## The electrical contracting sector commits to:

- Increase use of digital working tools, such as BIM (Building Information Modelling)
- Improve offer of devices and services for optimized energy flows and energy behavior

## We call on policy makers to:

- Support comprehensive technology and product neutral BIM standards
- Make sure that energy management systems deliver all benefits



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# Learning opportunities & standards for electricians

The screenshot displays the OpenLearning platform interface. At the top, the 'openlearning' logo is on the left, and a search bar is on the right. A navigation menu on the left includes 'Home', 'Syllabus', 'Learning Units', 'Announcements', and 'Student Area'. The main content area shows a course structure with the following units and completion status:

- L1. Automation of building engineering systems (Completed: 0 of 4)
- L2. Energy control (Completed: 2 of 3)
  - Reading material (marked with a green checkmark)
  - Application scenarios (marked with a green checkmark)
  - Questionnaire (marked with a green checkmark)
- L3. Networks of smart controlling systems (Completed: 0 of 3)
- L4. Sensors (Completed: 0 of 3)
- L5. Programming and installation of smart meters (Completed: 0 of 3)
- L6. Programming the user interface (Completed: 0 of 3)
  - Reading material
  - Practical works
  - Questionnaire

On the right side, a 'Your Progress' sidebar is partially visible, showing a progress bar and some text: 'as smart art from nce, and ehensive acy and'.

<https://www.openlearning.com/courses/smartel-mooc/homepage?moduleSet=Default>



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# Learning opportunities & standards for electricians

## Electrical contractors' associations commit to:

- Support the modernization of education, training and apprenticeship systems for our professionals
- Provide our professionals with clear and concise guidance on technologies, markets and standards

## We call on policy makers to:

- Invest in initiatives that better prepare young electricians to deliver all leading-edge technologies and solutions
- Encourage electro-technical companies to up-skill and re-skill their employees
- Make standardization processes and standards more fit-for-purpose.



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# THANK YOU!

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0032 490 11 36 90

Read more:  
<https://bit.ly/2SLhWOf>



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