



Contractors and wholesalers –  
working together to deliver net  
zero  
EDA and ECA

# Agenda

- The history of the electrical contractor
- The energy contractor
  - EV
  - PV
  - Batteries
- Upselling and awareness
- Summary
- Q&A

The birth of an industry

# The history of the electrical contractor

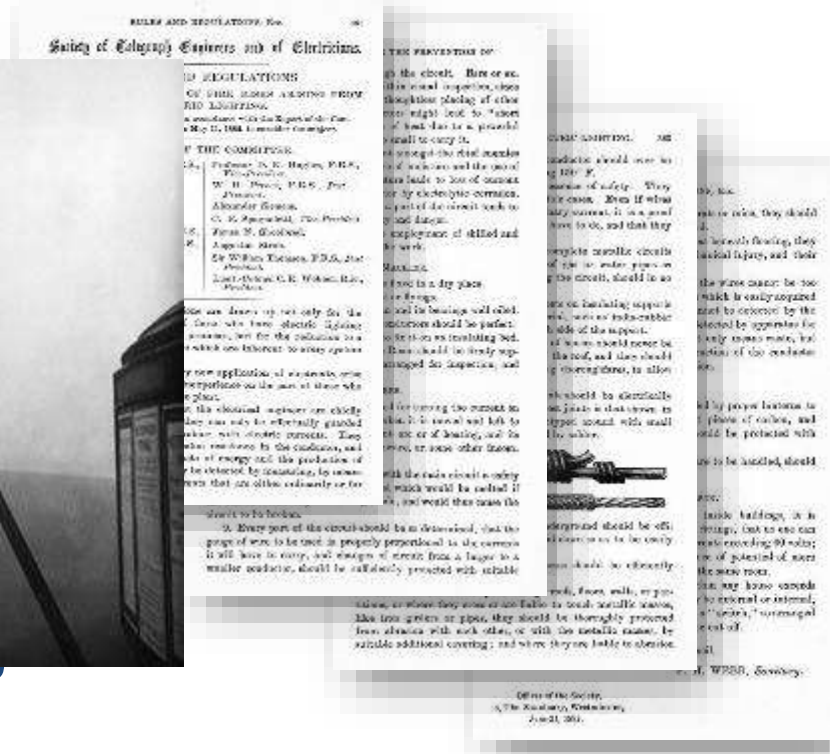


[www.eca.co.uk](http://www.eca.co.uk)

ECA Technical Team

# The birth of the electrical contractor

- In 1882 the Society of Engineers and of Electricians adopted the *Rules and Regulations for the prevention of fire risks from the use of electric lighting*
- This came about after **electric lighting** started to replace gas lighting

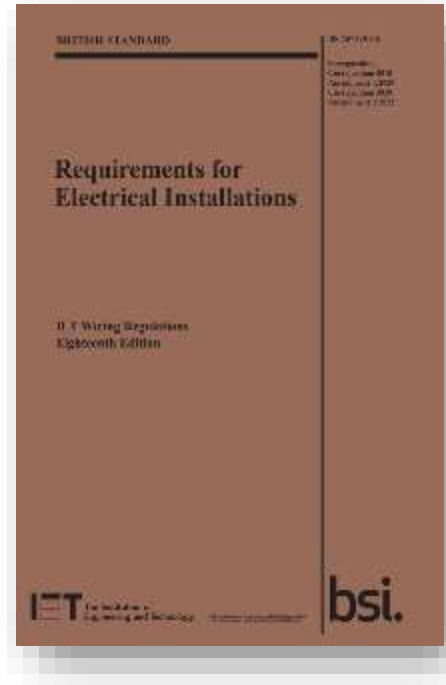






# The Wiring Regulations – and its 7 usual parts?

- The Wiring Regulations, or BS 7671, developed into a document more than 600 pages long
- In 2022 a new Part 8 was introduced that brought about phrases such as prosumer and prosumers electrical installations
- These are new terms to the industry that bring big **opportunities**



The birth of a NEW industry

# The energy contractor



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# The energy contractor

- Now we are seeing a new industry develop and grow
- The electrical contractor is changing into an energy contractor
- Buildings are changing, client demands are changing and wholesalers need to change to meet those demands
- Do you only want to sell gas lights?



# The energy contractor

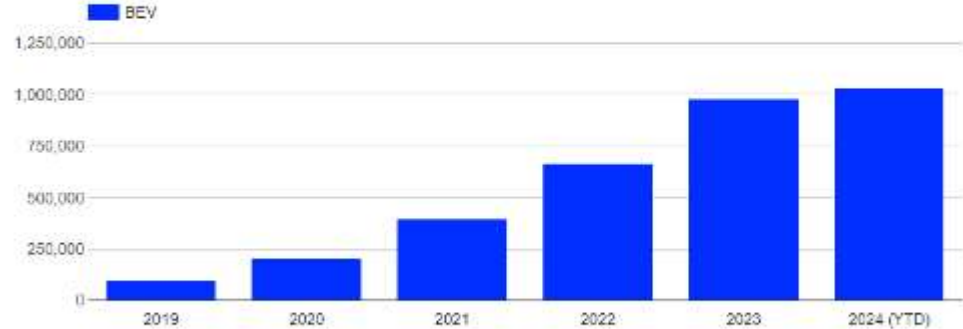
- The rise of the renewables industry has been rapid and is unlikely to slow any time soon
- Electric vehicle installations, solar PV and battery energy storage systems are becoming common place
- This is your opportunity to service your clients
- But don't take my word for it...



# The wave of a new industry – Electric vehicles

- Since 2019 EV sales have rocketed
- Over 1,000,000 are on UK roads
- Each need a charger plus public charge points

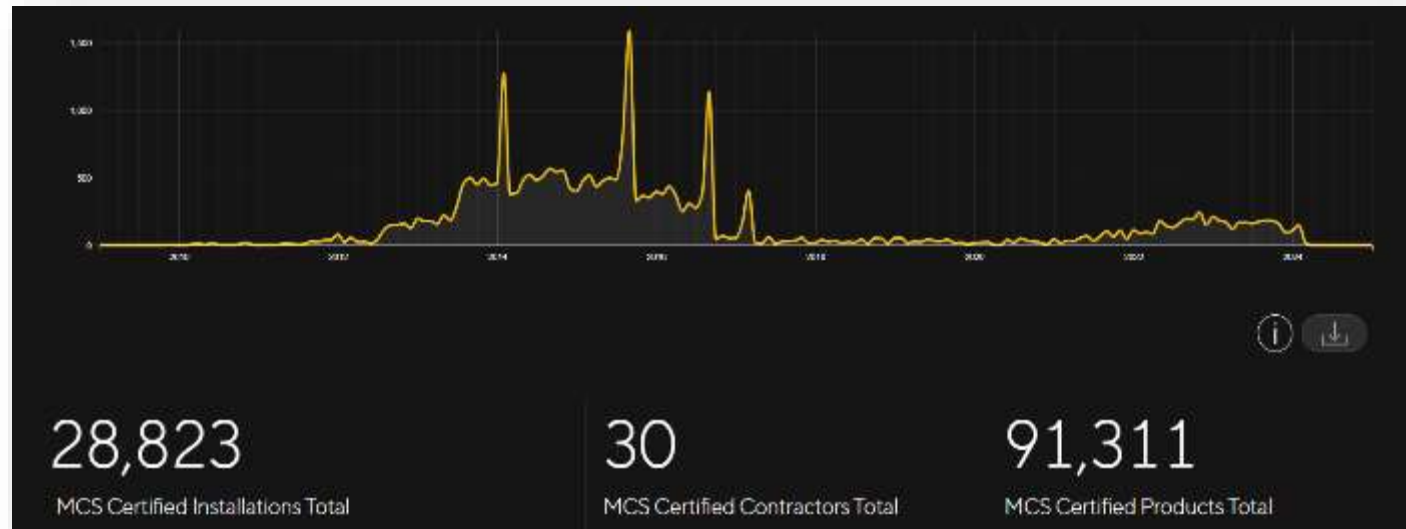
Cumulative number of battery-electric cars in the UK (2019 to date)



Source: SMMT, February 2024

# The wave of a new industry – Solar PV

- Since 2009 almost 1.5 million small scale PV systems have been installed in the UK with 29,000 in NI



Source:  
<https://mcscertified.com/>

# Electrical energy storage systems - EESS

- Add to this the recent developments in EESS
- This *new* technology helps to join up solar PV, EVs and can provide close to free fuel

*“When a man gets on to accumulators or rechargeable batteries  
his inherent capacity for lying comes out”*

*Thomas Edison - 1908*

Some hints and tips

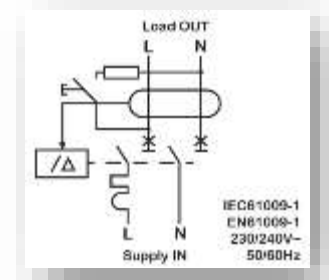
## Upselling and awareness

# How can you help your customers?

- Working with your customers you can help to keep them informed of changes to requirements, new technology and research
- This is an opportunity for you to work with your customers to share information and upsell
- We are all learning when it comes to renewables – so here are some easy tips

# Electric vehicles– upselling and tips

- RCDs – some charge point manufacturers provide ‘digital RCDs’ in their units
- These **do not** comply with the Standards and many now state you need an additional RCD upstream
- It needs to be a specific Type
- And switch all live conductors



A Hager Type A 2 pole RCD – a compliant and reputable product



# Solar PV – upselling and tips

- If installing the inverter in the loft (more on this later) then there must be a suitable smoke alarm system in the loft too\*
- Protective devices must be double pole
- And should be capable of dealing with power flowing both ways
- This is known as being bi-directional, many older devices are not capable of this

\*See BS 5839-6



# Battery storage systems – upselling and tips

- If adding to an existing PV system, inverters have a life span of approx. 10 years so it could be cheaper to replace the existing inverter
- They SHOULD NOT be installed in lofts – if anyone is buying a battery, please make this clear\*
- They are a dangerous good and should only be transported by people with appropriate training and insurances

\*See PAS 63100:2024

# Competence is key

- As with anything, it is vital that designers and installers are competent
- You can help by informing your customer of suitable training courses to ensure that they are up to speed with the latest rules and requirements
- Some may not know what they don't know



An example of a battery being installed in a new loft courtesy of Google Images

# Competence is key

- Competence is needed by everyone, including you
- EDA can support you with their online training modules including specific ones on renewables
- Visit [www.eda.org.uk](http://www.eda.org.uk) for more information



Putting this together

## Summing this all up

# Summary

- We are on the brink of a new industry
- Your support and work is vital in the electrification of the built environment
- Ensure you understand your customers needs
- Competence is everything, including yours
- Make sure you offer the best service by staying ahead of the ever changing requirements

# And finally, RenewableNI

- RenewableNI is the voice for the renewables industry in NI
- Their mission is to ensure that NI reaches its net zero requirements
- Their aim is to have clean, zero carbon energy by 2035 and have 80 % renewables by 2030
- That is just 6 years!

<https://renewableni.com/>

**Renewable**ni

# Questions?





# Links

- <https://pages.bsigroup.com/PAS63100:2024>
- <https://renewableni.com/>
- [https://niceic.com/for-the-trades-1/develop-your-skills/training/training-brochure/?gad\\_source=1&gclid=Cj0KCQjwztOwBhD7ARIsAPDKnkCSx3FC-LjUidaTm7OB4gp6VKgo4t0OxQm36zSDZXmWXY2ID57Z-ZIaAIU-EALw\\_wcB](https://niceic.com/for-the-trades-1/develop-your-skills/training/training-brochure/?gad_source=1&gclid=Cj0KCQjwztOwBhD7ARIsAPDKnkCSx3FC-LjUidaTm7OB4gp6VKgo4t0OxQm36zSDZXmWXY2ID57Z-ZIaAIU-EALw_wcB)
- <https://www.eda.org.uk/training-apprenticeships/modules/>