

Installer Spotlight: AES Solar

Green Heat Installer Engagement
Programme

15 December 2022



Presenters

Jack Ambrose	Green Heat Installer Engagement Assistant Programme Manager, Energy Saving Trust	Presenter, Q&A Panel
Peter McIntosh	Technical Sales Advisor, AES Solar	Presenter, Q&A Panel
Robert Wilson	Business Development Manager, AES Solar	Presenter, Q&A Panel

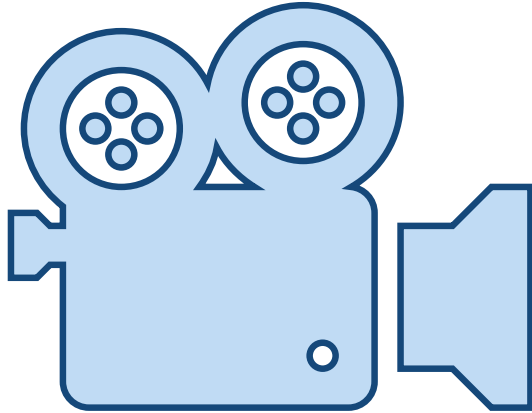
Questions

Type questions using the Q&A button in Zoom.

You can send in your questions at any time during the presentation. These will be collected and addressed during the Q&A session at the end of the presentations.



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The recording will be uploaded and will be made available to watch again.

Details of how to do this will be shared with you via email, after the webinar has ended.

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Please complete this if you can so we can continue to improve the webinars we offer.

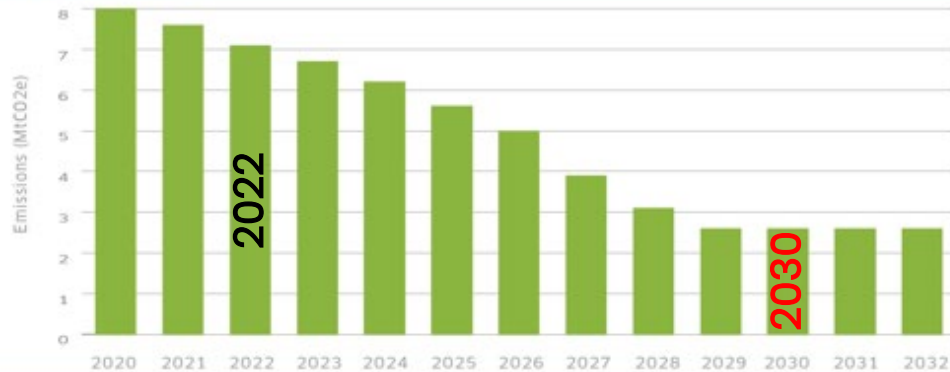
Decarbonising Scotland's buildings – Heat in Buildings Strategy



Climate Change (Scotland) Act 2019

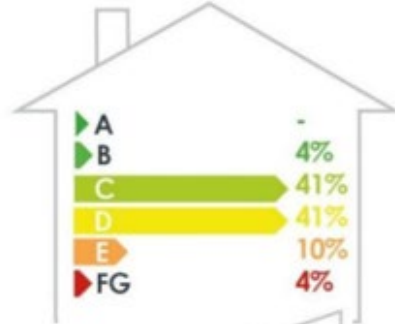
Climate Change Emission Reduction Targets (Scotland) Act 2019

- Legally binding target to achieve net zero emissions by 2045
- Interim target 75% reduction by 2030
- 90% by 2040

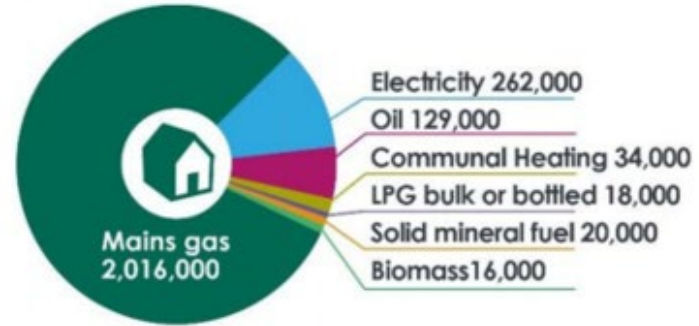
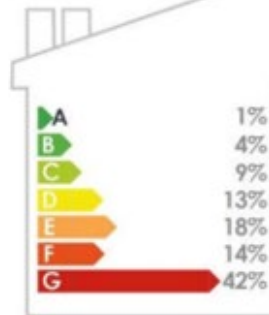


Where are we now

Homes



Non Domestic



- Around 50% of non-domestic buildings already use electricity for heating, often in form of HVAC.

Where do we need to be?

- By **2045** our homes and buildings no longer contributing to climate change
- By **2033** all homes reaching equivalent EPC C
- **By 2030** emissions from buildings **68% lower than 2020** levels. This requires **zero emissions heating** in:
 - The vast majority of the **170,000 off gas homes**
 - At least **1 million on-gas homes**
 - **50,000 non-domestic buildings**

How are we going to get there

Low and Zero Emissions Heating Systems

Systems that have **zero direct greenhouse gas emissions** such as individual electric heat pumps and connection to heat networks, or electric systems such as storage heaters, and systems that have very low emissions such as those that use hydrogen.

No and low regrets strategic technologies

Energy efficiency



Heat pumps in off gas areas



Heat pumps in on gas areas



Low and zero emissions heat networks



Electrification of heat and Secondary technologies

Technologies that work well in conjunction with zero emissions heating systems:

- e.g. solar thermal, solar PV and battery storage

Solar thermal can supplement hot water supply and PV can contribute towards electrical demand

Scale of installations

- **Domestic energy efficiency:**
 - ❑ At current rates around **45,000 domestic properties per year** improve their energy efficiency to EPC band C.
 - ❑ This needs to grow to and be sustained at approximately **100,000 each year** to reach our 2033 target
- **Domestic Heating:**
 - ❑ At current rates **only around 3,000 householders per year** install low and zero emissions heating
 - ❑ This needs to grow rapidly - at least **64,000 per year in 2025** and peak at over **200,000 per year in the late 2020s**
 - ❑ With this comes the installation of complimentary technologies such as solar thermal, PV and battery storage



Panellists:

Jack Ambrose	Green Heat Installer Engagement Assistant Programme Manager, Energy Saving Trust
Peter McIntosh	Technical Sales Advisor, AES Solar
Robert Wilson	Business Development Manager, AES Solar



Thank you for attending

- **Website:**
<https://energysavingtrust.org.uk/business/energy-efficiency/green-installer/>
- **Email updates and quarterly newsletter subscription:**
bit.ly/2PSatKL
- **LinkedIn Group:**
<https://www.linkedin.com/groups/5139242/>
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