

# Installer Skills/Quality Assurance for Insulation

Green Heat Installer Engagement  
Programme

18 January 2023



# Presenters

Pilar Rodriguez	Green Heat Installer Engagement Programme Manager, <b>Energy Saving Trust</b>	Presenter, Q&A Panel
John Renwick	Sector Manager, Construction, <b>ESP</b>	Presenter, Q&A Panel
Martin Smith	Contract Development Manager, <b>Edinburgh College</b>	Presenter, Q&A Panel
Robert Wood	Curriculum Manager, <b>Edinburgh College</b>	Presenter, Q&A Panel
Paul Manderson	Curriculum Leader, <b>Edinburgh College</b>	Presenter, Q&A Panel

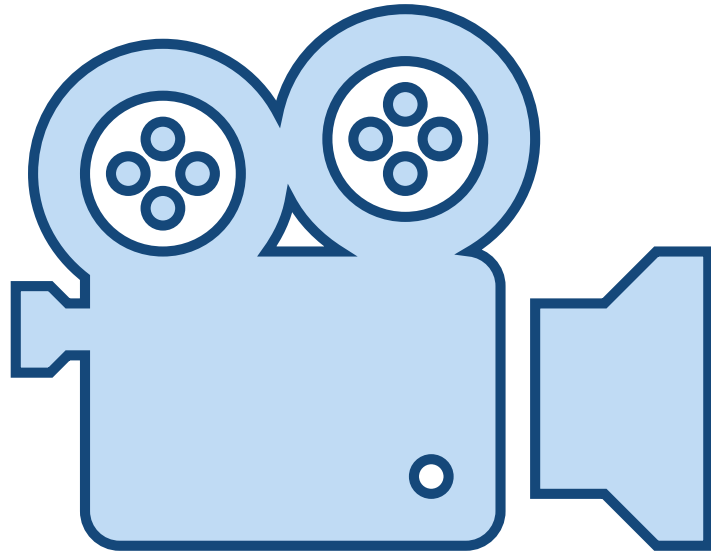
# Questions

Type questions into the **Questions** pane of the control panel

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.



# Recording



This webinar is being recorded but your name and attendance is hidden from the recording.

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.

# Have Your Say



There will be a short feedback survey after the webinar has finished.

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

# Installer Skills- thermal insulation

Pilar Rodriguez  
Programme Manager,  
Green Heat Installer Engagement Programme  
18 January 2023





# Emissions

2022

2024

2025

2030

2033

2040

NET ZERO  
2045

Emissions  
from buildings  
**68% lower than  
2020 levels**

**75%  
REDUCTION**

**90%  
REDUCTION**

New build homes to  
use zero emissions  
heating & cooling

Phasing out  
fossil fuel boilers  
in **off gas** areas

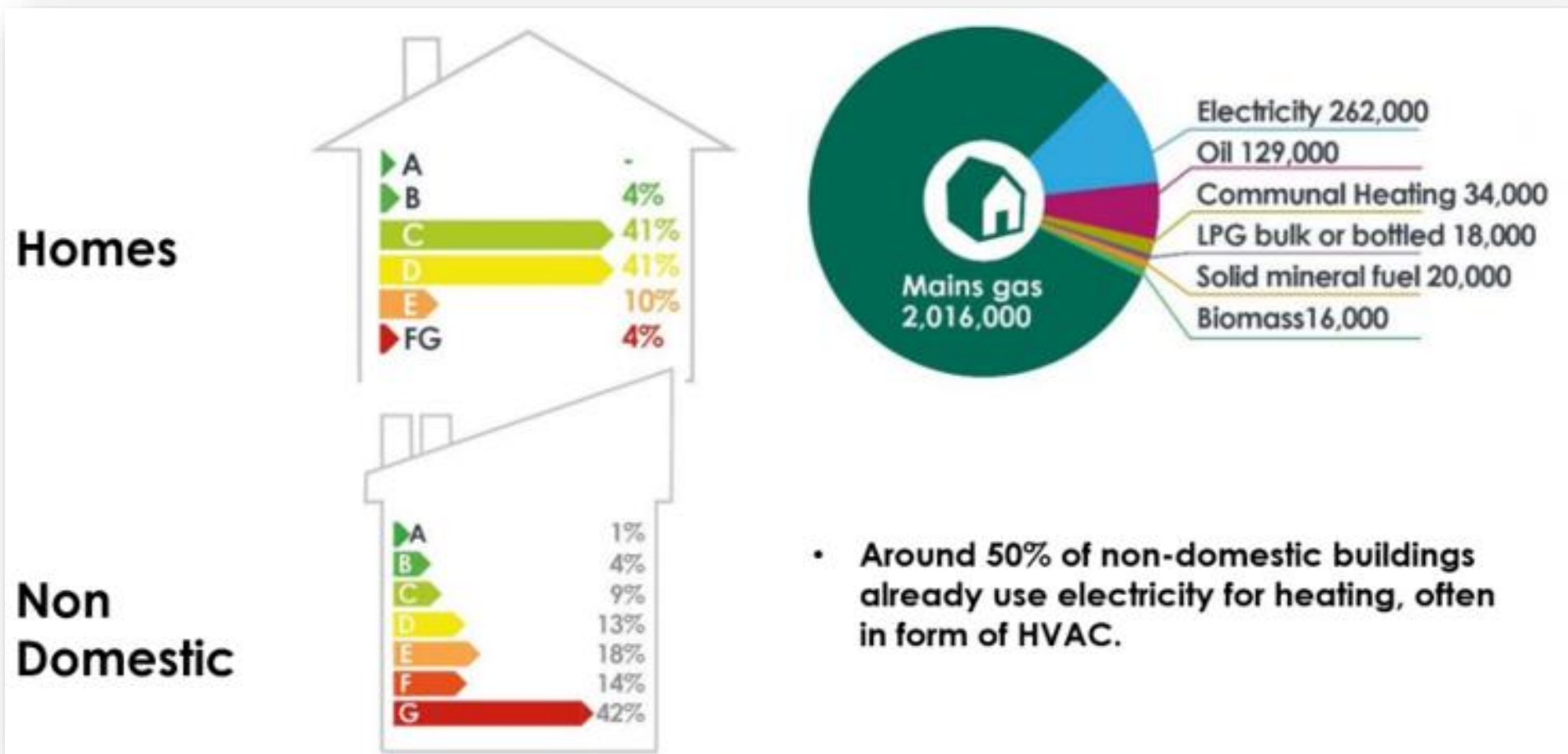
Phasing out fossil fuel  
boilers, in **on gas** areas  
All homes reaching **EPC C**

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**

***“OUR HOMES  
AND BUILDINGS  
NO LONGER  
CONTRIBUTING TO  
CLIMATE CHANGE”***

# Where are we now?

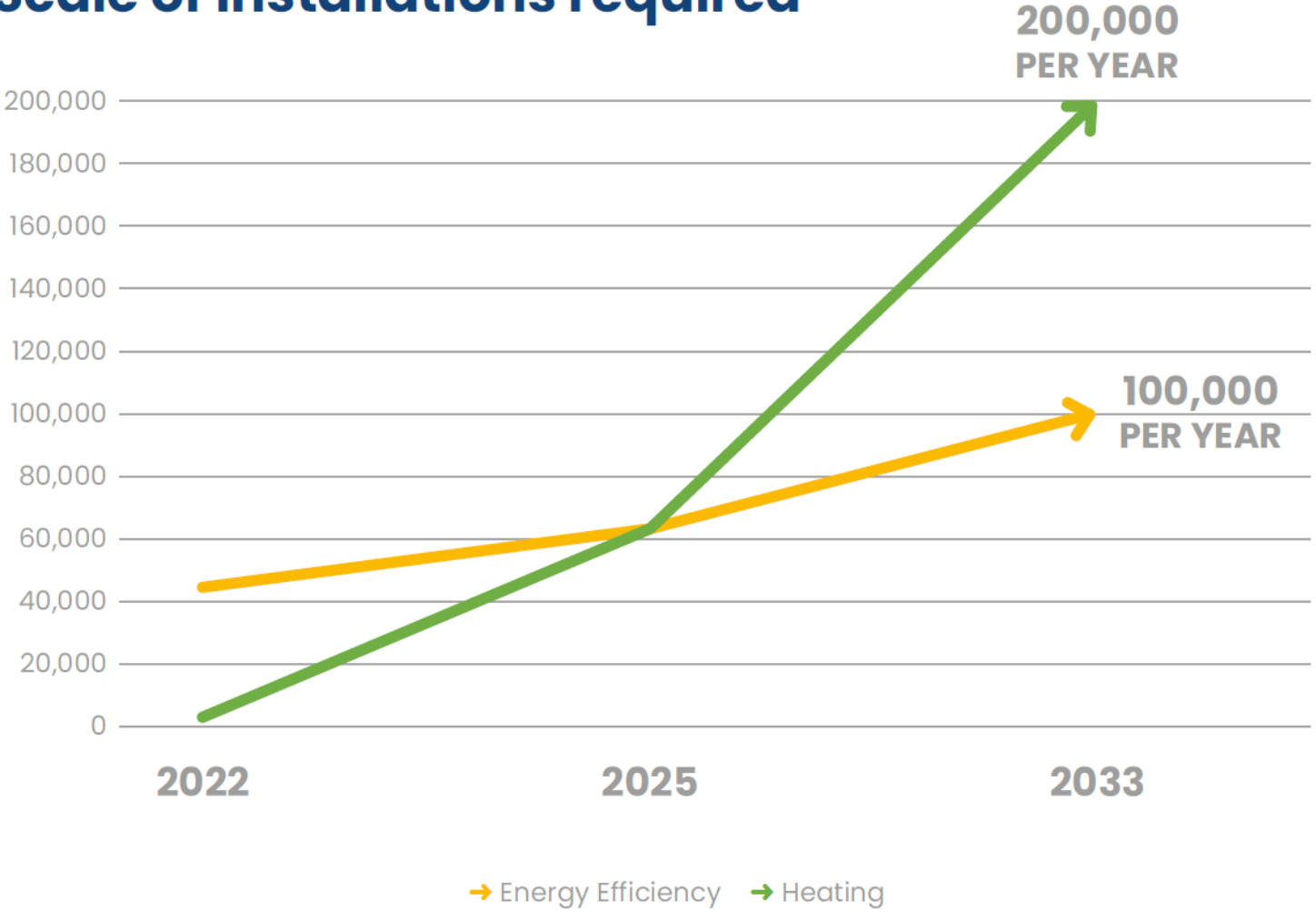


- Around 50% of non-domestic buildings already use electricity for heating, often in form of HVAC.



# Domestic Energy Efficiency installations

## Scale of installations required



# Heat in Buildings Strategy- Scottish Government Quality Assurance Policy Statement

- Domestic - a quality assurance scheme for Scotland in accordance with BSI PAS 2035/30 standards
- Non domestic - role of BSI PAS 2038 retrofit standards in overcoming quality issues
- HES grant and loan schemes- applicants must use a supplier TrustMark approved.
- The [Scottish installer skills matrix](#) will be integrated into both the BSI PAS 2030 and [MCS installer standards](#) in 2022.

[www.gov.scot/publications/heat-buildings-quality-assurance-statement/documents](http://www.gov.scot/publications/heat-buildings-quality-assurance-statement/documents)

# Funding for energy efficiency – Home Energy Scotland Grant and Loan schemes

Primary improvement	Maximum cashback	Maximum Loan	Total funding available
External and internal wall insulation	£7,500	£2,500	£10,000
Room-in-roof or flat roof insulation	£3,000	£1,000	£4,000
Loft, cavity wall and floor insulation	£1,500	£500	£2,000

For all eligible energy efficiency measures the maximum grant is 75% of the cost of the measure or the maximum funding limit – whichever is the lowest – up to a combined maximum of £7,500 or £9,000 if the household qualifies for the rural uplift. The rural uplift is additional funding for those in eligible rural and island postcodes. An optional interest-free loan may be taken to cover the remainder of the cost up to the maximum amount per measure.

# Green Heat Installer Engagement Programme - useful links

- Website:  
[energysavingtrust.org.uk/green-installers](https://energysavingtrust.org.uk/green-installers)
- Email updates and quarterly newsletter subscription:  
[bit.ly/2PSatkl](https://bit.ly/2PSatkl)
- LinkedIn Group:  
[linkedin.com/groups/5139242](https://linkedin.com/groups/5139242)
- Email:  
[GreenInstallerScotland@est.org.uk](mailto:GreenInstallerScotland@est.org.uk)

Thanks for listening



Net Zero  
Scotland  
Scottish  
Government



LET'S DO  
NET ZERO





**energy  
saving  
trust**

## Insulation skills/quality assurance webinar



**Scottish Funding Council**

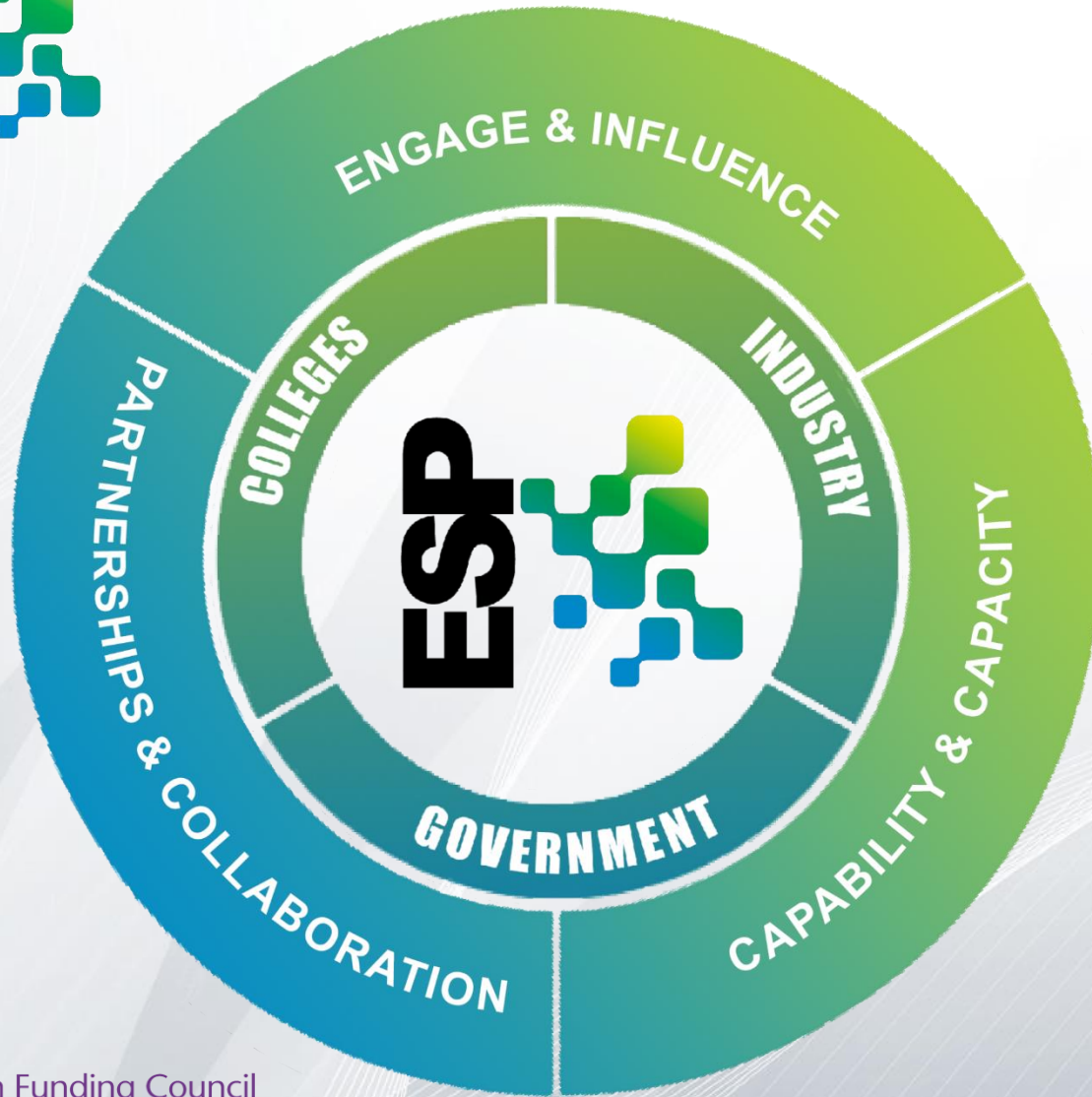
Promoting further and higher education

John Renwick  
Sector Manager  
Construction  
ESP



*Scotland's colleges – delivering skills for the energy, engineering and construction sectors*





## About us

### WHO ARE WE ?

**ESP** is the college sector agency in Scotland for the energy, engineering and construction sectors. Whilst also being the college sector lead for STEM and the college sector agency leading on the Climate Emergency Skills Action Plan.

### OUR VISION

A college sector working in partnership with Government, agencies and industry to meet national and regional skills needs, maximising investment and job opportunities aligned with emerging technologies, the **Climate Emergency** and the **Just Transition to Net Zero**.



Scottish Funding Council  
Promoting further and higher education

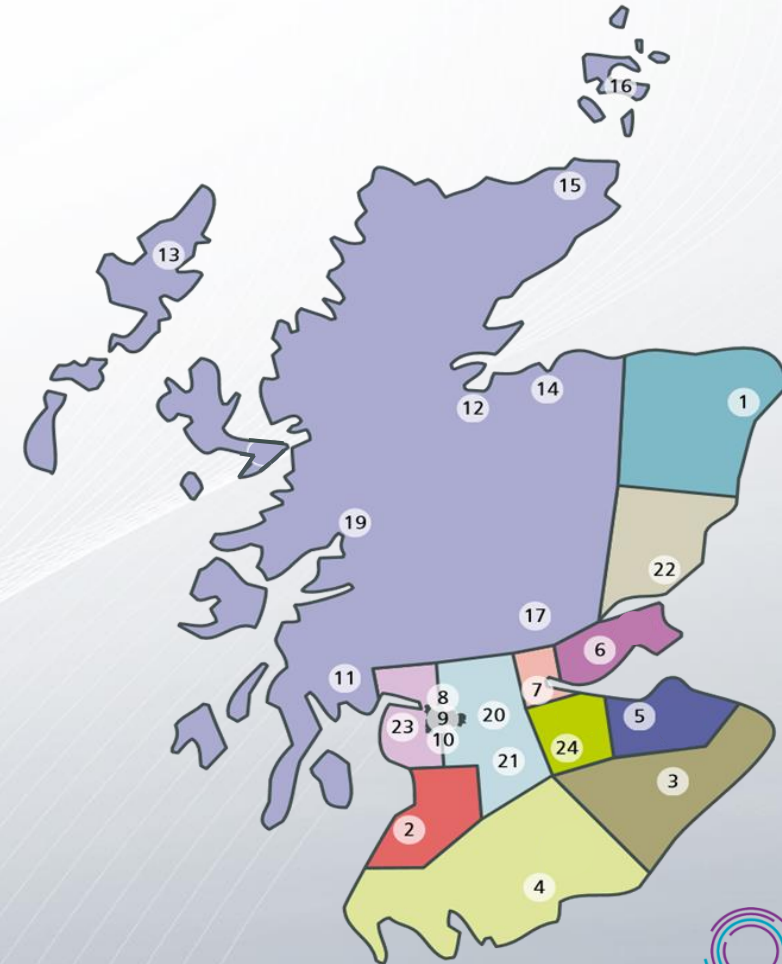
*Scotland's colleges – delivering skills for the energy, engineering and construction sectors*



# Scotland's Regional Colleges



Aberdeen & Aberdeenshire	1- NESCol (Inc. Fraserburgh)
Ayrshire	2- Ayrshire College
Borders	3- Borders College
Dumfries & Galloway	4- Dumfries & Galloway College
Edinburgh & Lothians	5- Edinburgh College
Fife	6- Fife College
Forth Valley	7- Forth Valley College
Glasgow	8- City Of Glasgow College
	9- Glasgow Clyde College
	10- Glasgow Kelvin College
Highlands & Islands	11- UHI Argyll
	12- UHI Inverness
	13- UHI Outer Hebrides
	14- UHI Moray
	15- UHI North Highland
	16- UHI Orkney
	17- UHI Perth
	18- UHI Shetland
	19- UHI West Highland
Lanarkshire	20- New College Lanarkshire
	21- South Lanarkshire College
Tayside	22- Dundee & Angus College
West	23- West College Scotland
West Lothian	24- West Lothian College









College Map  
46 views

All changes saved in Drive

Add layer Share Preview

EETN Training Network

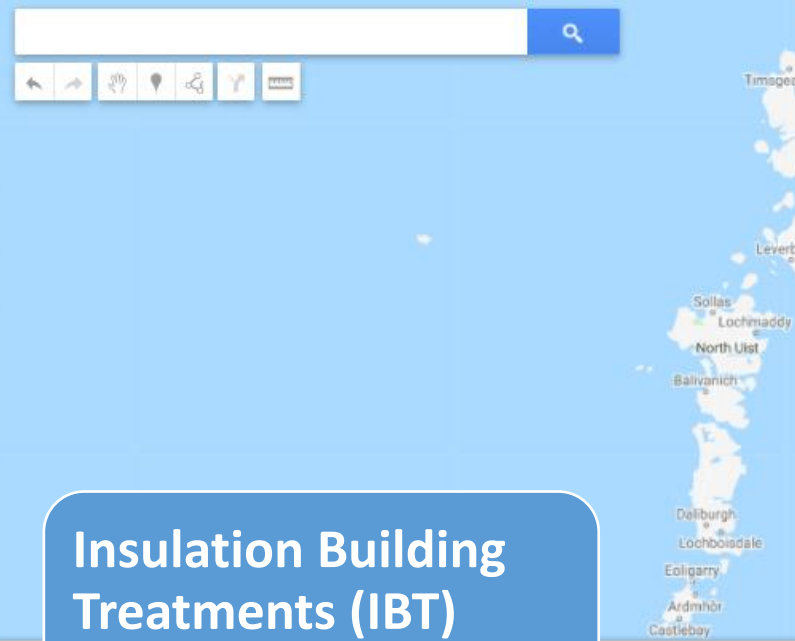
AS/GS HP 2019

AS GS Heat pumps

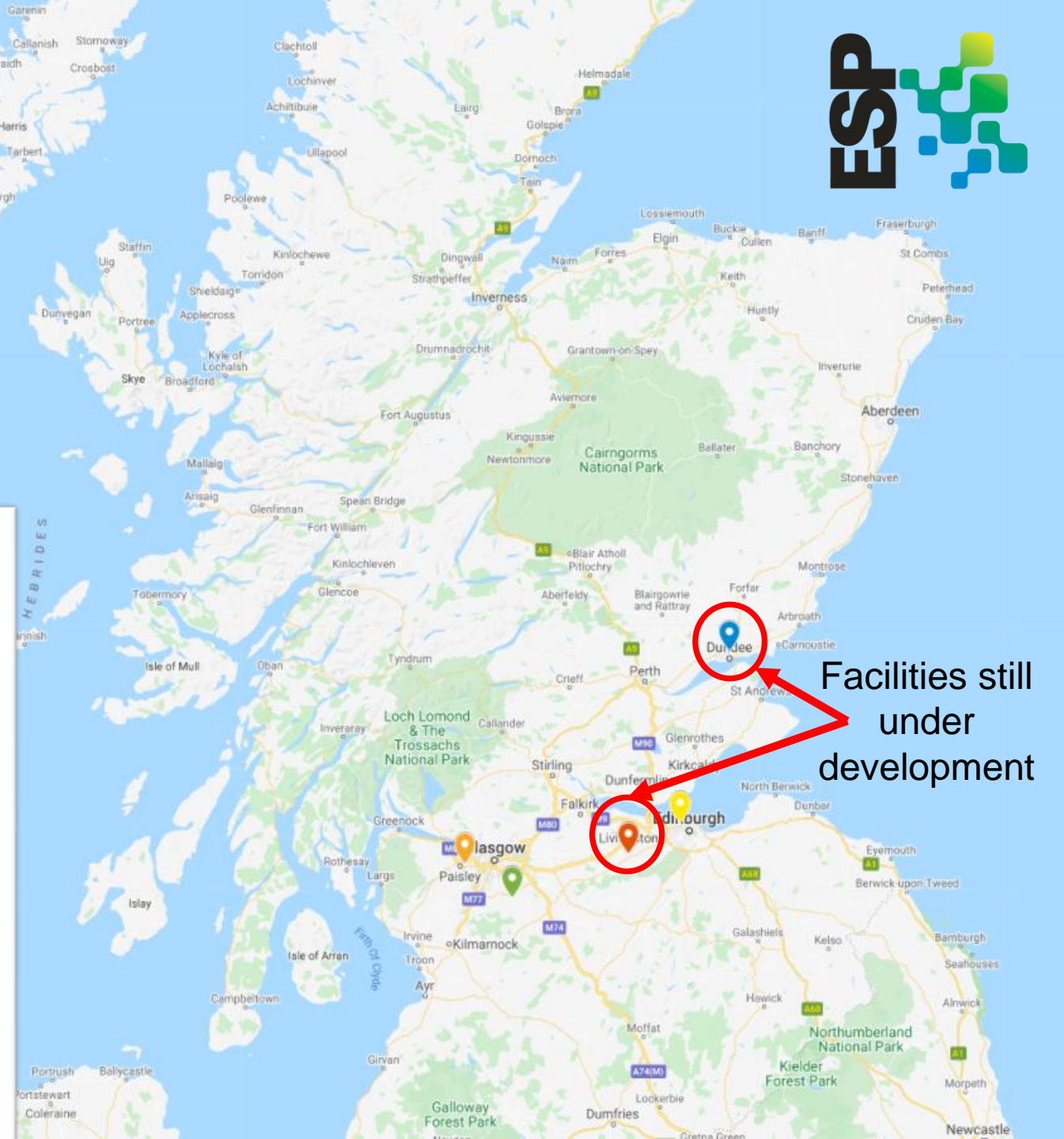
Insulation Building Treatment

Individual styles

- Dundee and Angus College
- South Lanarkshire College
- West College Scotland
- West Lothian College
- Edinburgh College



## Insulation Building Treatments (IBT) Training Facilities



Facilities still under development

Accredited specialist routes



- Cavity Wall
- Cold Roof Insulation
- Solid Floor Insulation
- Under Floor Insulation
- Room in a Roof
- Park Homes
- Hybrid Wall
- Insulate Framed Sections of Buildings
- External Wall Insulation Finisher
- External Wall Insulation Border/Finisher
- Internal Insulation Walls



Qualification Routes	Insulation Building Treatments				
	Edinburgh College	West Lothian College	South Lanarkshire College	West College Scotland	Dundee & Angus College
<a href="#"><u>SVQ in Insulation and Building Treatments (Construction) at SCQF level 5</u></a>					
Pathway 1 Wood Preserving and Damp-proofing Optional Route (Route Total = 7 Units)		//////////	X		//////////
Pathway 2 Wall Tie Replacement Optional Route (Route Total = 7 Units)		//////////	X		//////////
Pathway 3 Cavity Wall Insulation Optional Route (Route Total = 5 Units)		//////////	X		//////////
Pathway 4 Cold Roof Insulation Optional Route (Route Total = 5 Units)		//////////	X		//////////
Pathway 5 Solid Floor Insulation Optional Route (Route Total = 5 Units)		//////////	X		//////////
Pathway 6 Under Floor Insulation Optional Route (Route Total = 5 Units)		//////////	X		//////////
<a href="#"><u>SVQ in Insulation and Building Treatments (Construction) at SCQF level 6</u></a>					
PATHWAY 1 Room in Roof Optional Route (Route Total = 9 Units)		//////////	X		//////////
PATHWAY 2 Park Homes Optional Route (Route Total = 9 Units)		//////////			//////////
PATHWAY 3 Hybrid Wall Optional Route (Route Total = 7 Units)		//////////	X		//////////
PATHWAY 4 Insulate Framed Sections of Buildings Optional Route (Route Total = 6 Units)		//////////	X		//////////
PATHWAY 5 External Wall Insulation Border Optional Route (Route Total = 6 Units)	X	//////////	X		//////////
PATHWAY 6 External Wall Insulation Finisher Optional Route (Route Total = 6 Units)	X	//////////	X		//////////
PATHWAY 7 External Wall Insulation Border/Finisher Optional Route (Route Total = 7 Units)	X	//////////	X	X	//////////
PATHWAY 8 Internal Insulation (Walls) Optional Route (Route Total = 6 Units)		//////////	X		//////////

Scotland's colleges – delivering skills for the energy, engineering and construction sectors



# Green Heat Supply Chain

Recommended Minimum Skills and Qualifications

Transitioning our workforce



CLICK HERE >>

## [Installers Skills Matrix](#)

Developed by the sector skills bodies for construction, heating and electrical, trade associations, Scottish colleges, skills agencies and other stakeholders.

[Scottish Government - The Heat in Buildings Supply Chains Delivery Plan: Towards an Industry for Green Heat](#)

Incorporated into the updated **BSI PAS 2030 (2019)** standards



Scottish Government  
Riaghaltas na h-Alba  
gov.scot



Comments in relation to the skills matrix please email [skillsmatrix@esp-scotland.ac.uk](mailto:skillsmatrix@esp-scotland.ac.uk)





Engage with your regional college's Business Development Advisor (BDA)

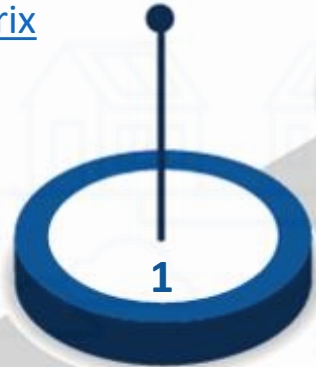
1. Develop a workforce planning model
  - a. Upskilling
  - b. New Entrants
2. Identify funding streams

Develop a 3/5 year skills need analysis using the [installers skills matrix](#)

Undertake training and assessment

Competent and qualified installer

“Net Zero Delivery”



## Transitioning at Pace

Low carbon heat or energy efficiency sector

“Supply Chain”

The background image shows a spacious, modern industrial or laboratory environment. The ceiling is high with exposed metal beams and numerous fluorescent light fixtures. The walls are light-colored, and there are several pieces of equipment, including large white cylindrical units and a black trash bin. A person is visible in the distance, working near a piece of equipment. The overall atmosphere is clean and professional.

# Scotland's Colleges Driving Net Zero Skills



John Renwick  
Sector Manager –  
Construction



Juliet Mallace  
BArch(Hons), DipArch BA  
Programme Manager-  
Construction



## GT1G 23 - SVQ in Insulation and Building Treatments (Construction) at SCQF level 6



### Available Pathways at Edinburgh College

- All available pathways have a total of 5 mandatory units – 4 specific to H&S (1 classroom based) and 1 Practical unit
  - External Wall Insulation Border (Pathway 5)  
1 practical mandatory unit
  - External Wall Insulation Finisher (Pathway 6)  
1 practical mandatory unit
  - External Wall Insulation Border & Finisher (Pathway 7)  
2 practical mandatory unit

### SVQ Requirements

- Primary evidence in the form of on-site observations is required for all units within the candidates chosen pathway.
- Secondary evidence in the form of photos/videos, witness testimony & written statements is also acceptable.
- All pathways have a combination of task specific and health & safety based NOS's which must be evidenced through practical application. Optional units are also embedded within the award, in the form of scaffold safety & customer relations

**For the future you want**

## GT1G 23 - SVQ in Insulation and Building Treatments (Construction) at SCQF level 6



### Award Length

- Candidates will be enrolled on a 2 year course.
- Experienced students can potentially achieve this in 1 year, this will depend on their CORE Skills requirements and also engagement.

### CORE Skills & Underpinning Knowledge

- Candidates will be required to have, on completion the following 5 CORE Skills:

**Communication @ SCQF Level 5**

**Numeracy @ SCQF Level 5**

**Problem Solving @ SCQF Level 5**

**Working with Others @ SCQF Level 5**

**Information & Communication Technology @ SCQF Level 4**

Candidates CORE Skills profile will be checked once enrolled, and if the required CORE Skills Level has not been previously certificated, the candidates will be enrolled on the 5 units.

- **Candidates will also be required to attend College to gain and evidence the underpinning knowledge of the SVQ.**

### Edinburgh College Timetable

- Initial plan will be for candidates to attend 2 sessions at the start of the award:

**Session 1 = Enrolment and Induction to award.**

**Session 2 = Induction onto all platforms that will be used for the award.**

- Throughout the semesters, candidates will be required to attend college for 1 day, every 2 weeks to receive the underpinning knowledge, CORE Skills and the opportunity to upload any evidence gathered in the workplace.

**For the future you want**



# Support for Employers

Accreditation for procurement

Funding for training

- Modern Apprenticeships
- Flexible Workforce Development Fund
- Construction Industry Training Board (CITB)
- Other





For more information

Martin Smith

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## Panellists:

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# Thank you for attending

- **Website:**  
<https://energysavingtrust.org.uk/business/energy-efficiency/green-installer/>
- **Email updates and quarterly newsletter subscription:**  
[bit.ly/2PSatKL](http://bit.ly/2PSatKL)
- **LinkedIn Group:**  
<https://www.linkedin.com/groups/5139242/>
- **Email:**  
[GreenInstallerScotland@est.org.uk](mailto:GreenInstallerScotland@est.org.uk)

Please remember to complete the feedback survey  
after the webinar has finished

