



Welcome to the NIA's Supply Chain Capacity Event

19th April 2023

A very warm welcome!

Today's objectives

- ✓ Learn from industry experts
- ✓ Network
- ✓ Share views
- ✓ Identify the opportunity for industry
- ✓ Ask questions
- ✓ Share best practice



Agenda

Time	Presenter	Topic
10.30	George Donaldson, Scottish NIA Board Member	Opening remarks
10.45	Derek Horrocks, NIA Chair	Welcome
10.50	Fiona Chestnutt, NIA Secretariat	Making the most of your membership
11.00	Ed Chapman, Scottish Government	Energy efficiency policy update
11.20	Pilar Rodriguez, Energy Saving Trust	Optimise the opportunity: Funding for energy efficiency
11.40	John Renwick, Energy Skills Partnership	Plugging the gap: building training and skills for the future
12.00	Panel Q&A	Your opportunity to ask question and engage with speakers
12.20	George Donaldson, Scottish NIA Board Member	Closing remarks
12.30 for lunch and networking		





A warm welcome –
identifying the
opportunity for
industry

Derek Horrocks
NIA Chair

An exciting time for industry



Opportunity for the sector to play a key role in decarbonising homes at scale to an excellent standard of quality and customer service



Scale of delivery has changed with Government interventions



Providing solutions for the 4 major UK Crises



We can help to ensure the right voices are influencing Government – consultation responses, attending government meetings and workshops

One unified, collaborative, clear and concise voice – influencing policy at all levels of UK / Devolved Governments / Energy Efficiency Taskforce



NIA members can share best practice to drive the energy efficiency agenda



HM Government



Scottish Government
Riaghaltas na h-Alba



Northern Ireland
Executive



Llywodraeth Cymru
Welsh Government



RETROFIT
ACADEMY CIC



Thank you for listening



Derek Horrocks

Chair of the National Insulation Association





Make the most of
your NIA
membership

Fiona Chestnutt

Policy Advisor and Member
Engagement Lead

Matthew Rudd

Membership of NIA and member benefits

61

members
in total

46 Installers,
8 Manufacturers,
7 Associates

- Business leads

- Knowledge sharing

- Network

- Influence



Meet the team – here to support you

Fiona Chestnutt

- Policy Advisor and Member Engagement lead

Matthew Rudd

- Social media communications and Policy

James Higgins

- Oversees the Secretariat

Tawia Hansen

- Email and telephone Enquiries
- Membership Admin

Kristina Rafnson-Hall

- Event and Board and finance organiser



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info@nia-uk.org



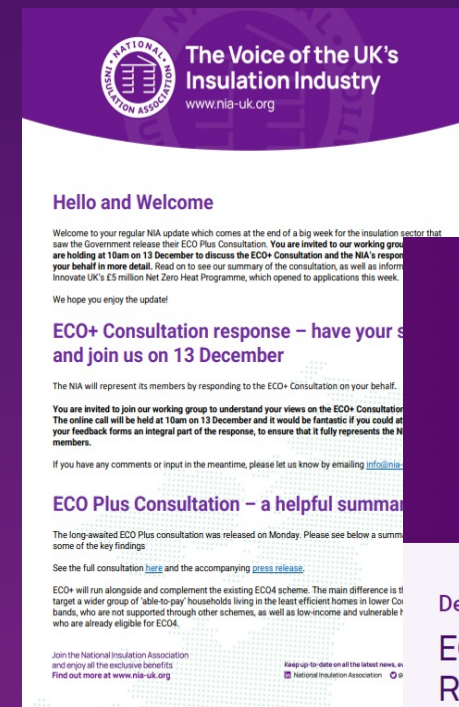
Membership services

Engagement calls

- Build relationship with members
- Gain feedback and provide knowledge on key topics.
- Programme:
(February: (DES NZ, Ruth SHDF&HUG)
March: Rob John, CoreLogic.
ECO4/ECO+/PAS2035
April: (supply chain skills and capacity, DEZ NZ)

Consultation responses

- Policy Group – opportunity for members to feed in
- Evidence Based Approach
- High quality and respected by government



Membership services

Newsletter

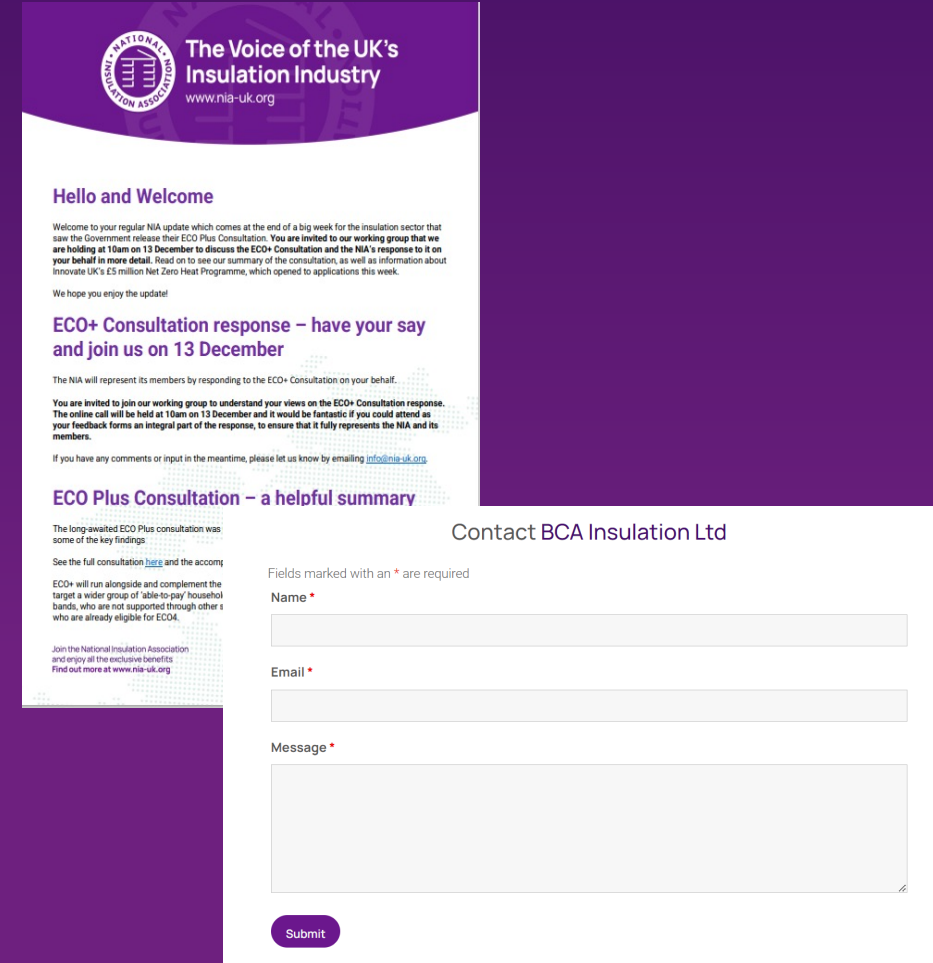
- Released every 6 weeks
- Keeps you abreast of new developments
- Highlights what the NIA has been doing

Other activities

- 270 calls received since January 2023
- Presented at University of London Event and Citation Event

Website

- New website launched last year
- Regional locator enables visitors to find a insulation installer near them – it is the most popular page with av. 2000 visits/month
- A base to share consultations/knowledge



The screenshot shows a webpage for the National Insulation Association (NIA). The header features the NIA logo and the text "The Voice of the UK's Insulation Industry" with the website URL "www.nia-uk.org". The main content area includes a "Hello and Welcome" message, a section about the "ECO+ Consultation response" with a deadline of 13 December, and a section about the "ECO Plus Consultation" with a helpful summary. At the bottom right, there is a contact form titled "Contact BCA Insulation Ltd" with fields for Name, Email, and Message, and a "Submit" button. The footer of the website is not visible in the screenshot.

Policy

Regularly
respond to
consultations

Evidence
based
approach

Influence
government
(Spring Statement)

Policy based
approach
across UK

Advocate
whole
house
approach

Advocate
high quality
energy
efficiency
installs

NIA

New Government
Departments
and Reshuffle

February 7, 2023

New Government Departments and Reshuffle

Today (7th of February) the Prime Minister has created four new government departments. These changes are focused on the Prime Minister's...

POA2023/02191



HM Treasury, 1 Horse Guards Road, London, SW1A 2HQ

Derek Horrocks
Chairman
The National Insulation Association
The Counting House
3 Mary Ann Street
Birmingham
B3 1BG

7 February 2023

Dear Mr Horrocks,

Thank you for your letter to the Chancellor of the Exchequer dated 1 February, making a representation ahead of the Budget.

The Government is grateful to you for drawing their attention to the issues set out in your letter. While it would not be appropriate to respond in detail to the points you make at this stage, please be assured that the contents of your letter have been registered with HM Treasury.

I would like to thank you for taking the time to contribute to the Budget process.

Yours sincerely,

James Cartledge MP
EXCHEQUER SECRETARY TO THE TREASURY



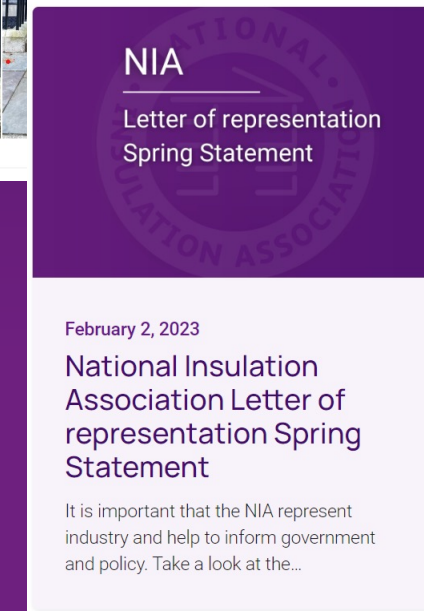
Relationship with Government

Excellent working relationship
with the Department for Energy
Security and Net-Zero

Regular attendance of DESNZ at the
NIA's Member Engagement calls

Opportunity for NIA to influence
policy via consultation responses

Evidence based approach



Training and skills

Co-ordinating skills group

- Working with DES-NZ and leading industry bodies – really good group of organisations to move forward
- Taking steer from experience in Scotland who are further ahead
- Identifying training and skills gap and investigating solutions. Considering all aspects: funding, skills requirement, existing provision...

Development of training course

- Working with Energy Efficiency North and leading trade bodies
- Development and delivery of a new EWI course in Yorkshire
- Course in development, next stage is stake holder meeting to include Trade bodies, System Designers and Installers

NIA Members

Opportunity to access considerable support for NVQ Certificates in Insulation & Building Treatments

January 6, 2023

Opportunity for NIA members to access support for NVQ Certificates in Insulation & Building Treatments

The NIA wish you all a Happy New Year! We're looking forward to 2023 we're sure it's set to be...



Thank you for listening

Fiona Chestnutt
Fiona.chestnutt@gemserv.com



Scottish Government Delivery schemes update

Heat and Energy Efficiency Scotland

Local Heat and Energy Efficiency Strategies

23-24 Area Based Schemes

- Multi-year funding and planning
- Changes to ABS Guidance

Reform of EPCs in Scotland

ECO4/GB Insulation schemes

- UK Government consultation
- Scottish Government 'asks'



Ed Chapman,
Team Leader - Area Based Schemes
Heat and Energy Efficiency Scotland



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Heat and Energy Efficiency Scotland

- Heat and Energy Efficiency Scotland is a new agency that will lead and coordinate heat decarbonisation in Scotland. It will reduce harmful climate change emissions from Scotland's buildings.
- It aims to reduce Scotland's contribution to climate change by 2045 by making Scotland's homes and buildings:
 - cleaner
 - greener
 - easier to heat

What the agency will do

It will continue to work with our existing partners to:

- deliver heat and energy efficiency measures into homes and buildings
- support the development of heat networks

HEES will work with partners to find ways to do this more efficiently. It will help people understand the changes needed in how we heat and use energy in our homes and buildings. You can read more about the agency in the [Heat in Buildings Strategy](#).

Developing the agency

Heat and Energy Efficiency Scotland has been set up as a virtual agency. This means the initial work will happen within the Scottish Government as part of the Directorate for Energy and Climate Change. This work includes creating a dedicated agency in the future.

Work to develop the agency started with a [call for evidence](#). This ran from December 2021 to February 2022.

We published an independent [analysis of responses](#) in May 2022. This report's findings will help inform the future work of the agency. The agency will be in place by September 2025.



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What are Local Heat and Energy Efficiency Strategies?

- Long-term **plan for an entire local authority** area to decarbonise heat and improve energy efficiency
- Sets out how each **segment of the building stock** needs to change to reach net zero
- Identifies **strategic heat decarbonisation zones**, and sets out the principal measures for reducing buildings emissions within each zone
- **Prioritises areas for delivery** of heat decarbonisation action
- **Provide a strategic plan** which can be used to target government funding and private investment for heat decarbonisation and energy efficiency investment
- An LHEES is structured in two parts:
 - A Local Heat and Energy Efficiency Strategy
 - A Local Heat and Energy Efficiency Delivery Plan



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LHEES Considerations

	No	LHEES considerations	Description	Analyse
Heat decarbonisation	1	Off-gas grid buildings	Transitioning from heating oil and LPG in off-gas areas	Four categories – suitability for retrofit
	2	On-gas grid buildings	On-gas grid heat decarbonisation	Four categories – suitability for retrofit
	3	Heat networks	Decarbonisation with heat networks	Linear heat density and anchor loads, gridded heat density
Energy efficiency and other outcomes	4	Poor building energy efficiency	Poor building energy efficiency	Wall, loft and glazing
	5	Poor building energy efficiency as a driver for fuel poverty	Poor building energy efficiency as a driver for fuel poverty	Wall, loft, glazing and fuel poverty
	6	Mixed-tenure, mixed-use and historic buildings	Mixed-tenure, mixed-use buildings, listed buildings, and buildings in conservation areas	Identify where – more challenging to decarbonise



ABS - Multi-year Funding Framework summary

- COSLA and the Scottish Government developing the options for a multi-year funding framework for Area Based Schemes;
- Similar to Affordable Housing Supply Programme (AHSP) resource assumptions;

	Year One Total allocation	Year Two – 60% funding assumption	Year Three – 40% funding assumption
Total ABS	£50m	£30m	£20m (£100m)
Urban authority	£2.3m	£1.38m	£0.92m (£4.6m)
Rural authority	£5m	£3m	£2m (£10m)

- Scottish Government gives LA planning assumptions for ABS funding for three years on a 100:60:40 ratio (reduces risk of unexpected funding cuts);
- Seeking views from ALACHO and local ABS leads (officers), COSLA engaged with option development;
 - Planning/targeting largely options scoped and changes required identified;
 - Delivery/admin options to be refined and agreed for wider discussion.
- 23/24 will be transition year to MYFF and new delivery arrangements;



Area Based Schemes (ABS11) Programme 2023-2024

- The budget for Area Based Schemes (ABS11) is £64 million for 23-24 and advised councils about their allocations during March.
- The deadline for LA proposals is likely to be the end of May and we will confirm grants in June.
- Typically we ask councils to have issued a tender/have a contractor in place by the end of September.
- Publishing our programme guidance for targeting etc. over a three year period to support multi-year planning and delivery.
- Separate ABS11 Delivery guidance will be shared with councils and includes uplift in grant-in-kind maxima to reflect continued pressures on costs.
- However seeking to manage costs where we can.
- Aiming to provide greater certainty for householders too - Ministers have agreed in principle that we will cap household contributions to increase signups.
- And we are looking at the scope to accelerate project delivery by providing top-up funding for social/private landlords. The aim is to help with the cost of more technically complex projects (e.g. extending rooflines)
- Likewise we may fund some households/properties that are not currently eligible for ABS, if this is more cost-effective in the long run (e.g. small remote islands).
- Asking for more evidence for vfm for solar PV/battery installs, unless in remote rural areas/islands,
- The ABS team will commission at least one independent QA inspection of every Area Based Scheme in Scotland (all 32 councils).



ABS11 Technical Inspections - Quality and Evaluation

- Has the work been carried out to relevant building and quality standards?
- Was the work necessary?
- Where the correct materials used?
- How/who would arrange inspections?
- What would you find useful?
- Timing/when would inspections be required to be carried out?
- How would installers prefer to handle feedback?
- What would installers expect to be done as a result of any findings positive or negative?
- U-values, damp etc.



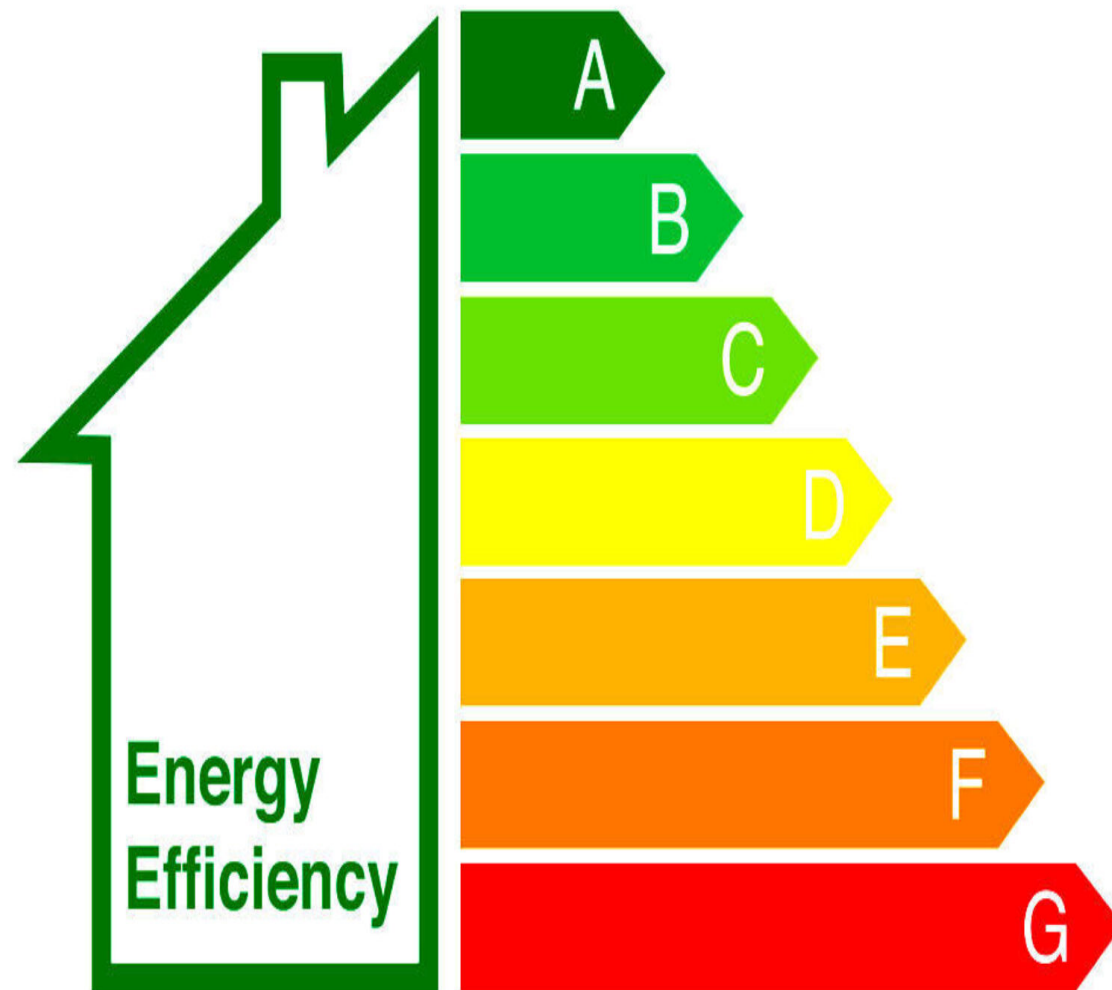
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Reform of Energy Performance Certificates (EPCs) in Scotland

We plan to consult on a reform of EPCs in Summer 2023. The consultation is designed to collect the views of stakeholders and interested parties on our EPC reform proposals.

We this to include proposals on:

- Potential Fabric energy efficiency metric
 - Retaining Existing Energy Cost Rating
 - Retaining Existing Carbon Emissions Rating
 - Heating system type
-
- Design project to improve display of information on EPCs
 - We also plan to move to consult on a web based format,
 - Would potentially improve user features – for example links to further support
 - Improved data access with API to be developed
 - EPC data currently published quarterly online



Great British Insulation scheme (ECO plus)

UKG published an [ECO+ consultation](#) last November. We expect their response to be published in April.

GBIS will be worth an extra £1 billion on top of planned ECO4 investments. UKG propose to allocate an extra £130 million in ECO finance from April 2023 and £435 million to each of the second and third years.

UKG propose to extend eligibility for insulation measures to households living in properties with an EPC rating of D or below; that are also in Council Tax bands A-E in Scotland and are not in receipt of means tested benefits.

Delivery of ECO+ measures is likely to remain aligned to BSI standards for retrofit (PAS 2035/PAS 2030).

ECO+ will provide around £1000 - £2000 for cavity wall insulation and around £5000 for hard to treat properties (solid wall) requiring IWI or EWI



Off-gas properties in Scotland will benefit from a c.20% uplift in ECO+ finance. Funding for some loft/cavity wall insulation may fully meet delivery costs.

SG has asked for householders to be directed to Home Energy Scotland for advice/referrals about ECO+. We have had some engagement with energy suppliers about a more joined up approach.

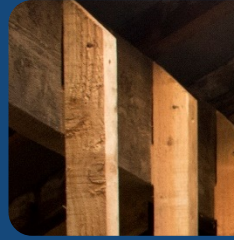
SG has also asked whether ECO+ finance could be combined with other public funding (i.e. SG grants or loans) for the same measure, such as insulation.

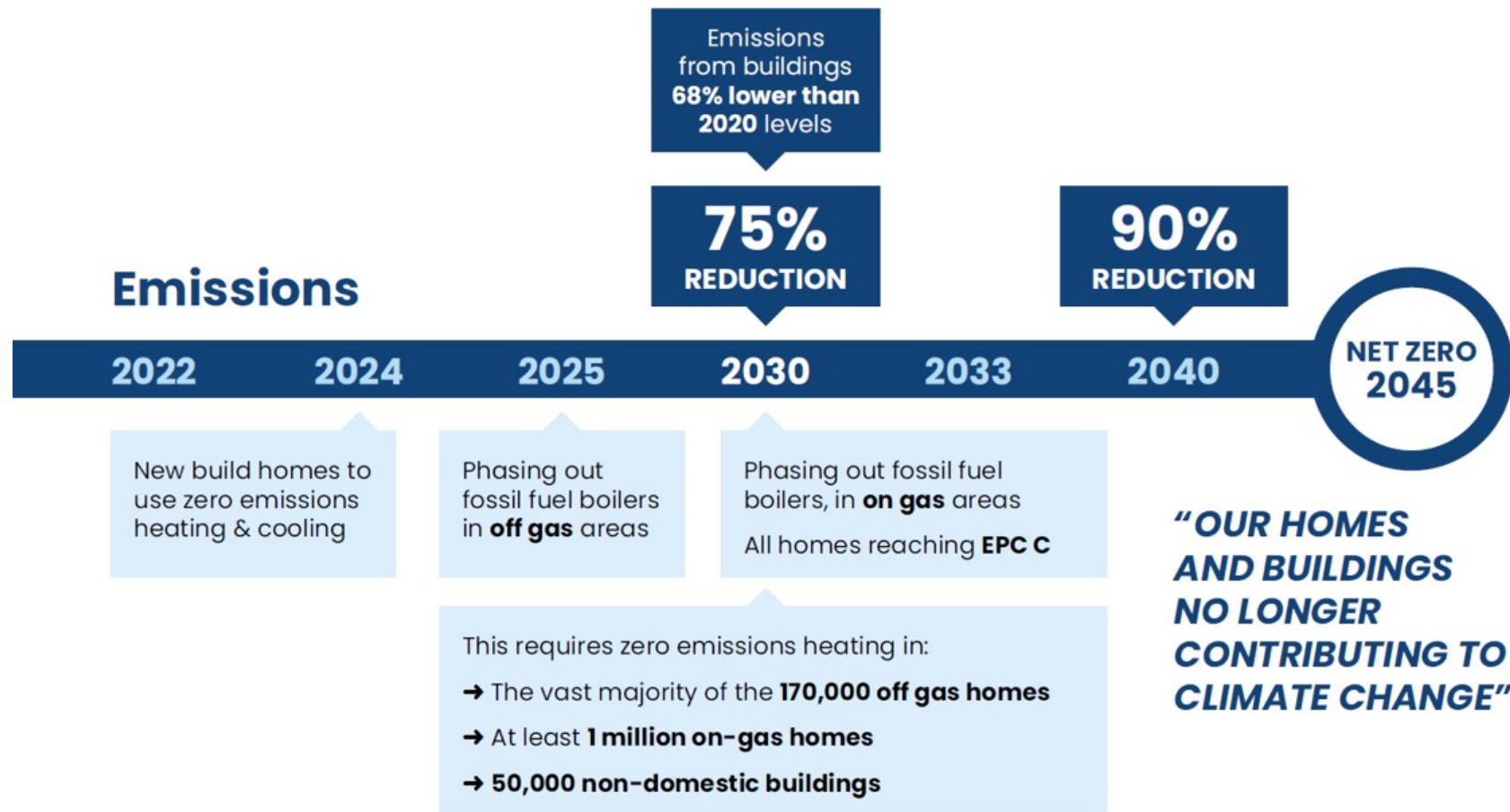


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Thermal insulation sector – challenges and opportunities



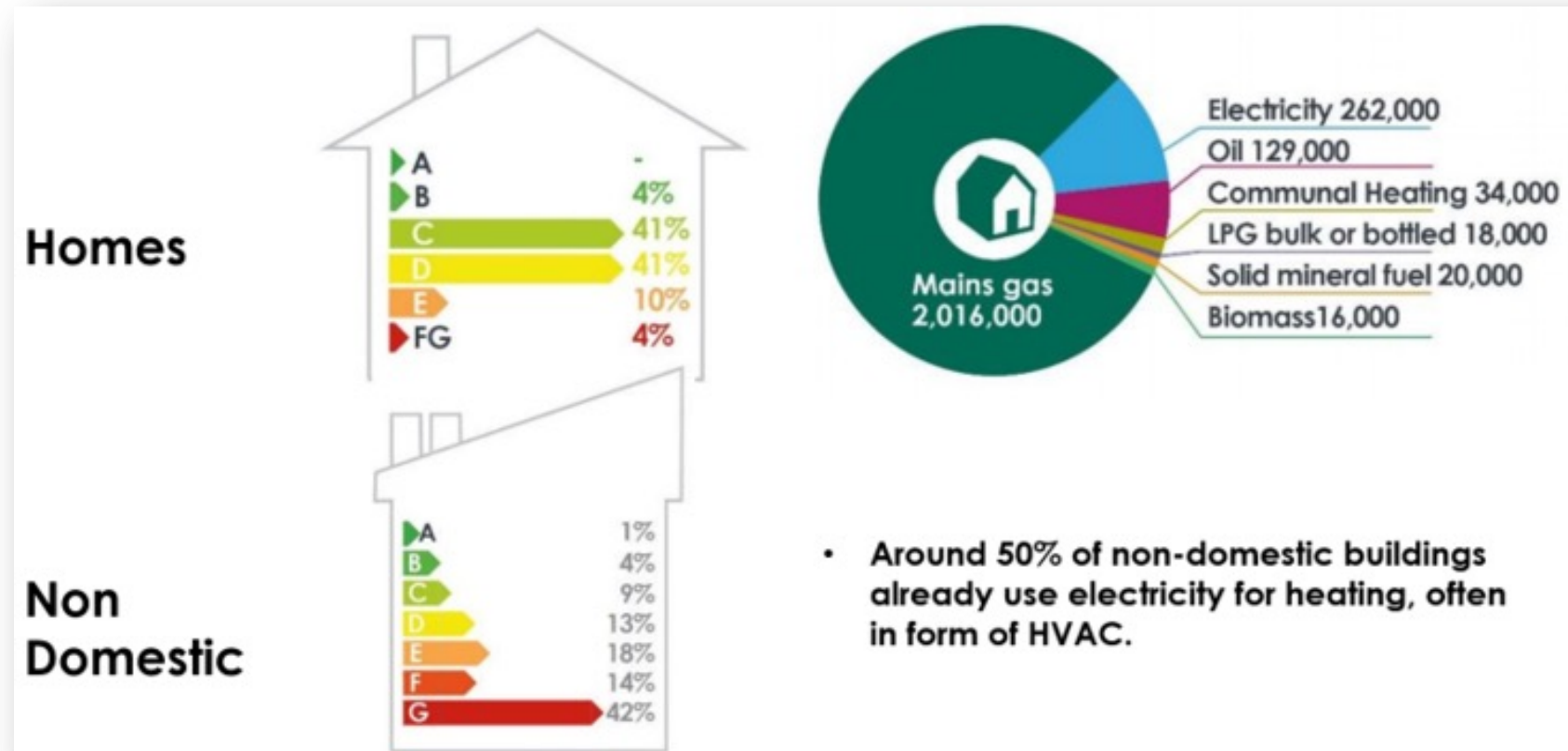


How people are coping with the high costs of energy – Autumn 2022

- **69% are finding more difficult to keep up with their energy bills compared with last year**
- **43% cannot heat their home to a comfortable level due to financial concerns**
- **68% are rationing energy use and 73% are cutting back in other financial commitments to pay for their energy bills**
- **35% of Scottish households at risk of falling into fuel poverty with around 24% in extreme fuel poverty (20% income to heat their homes)**

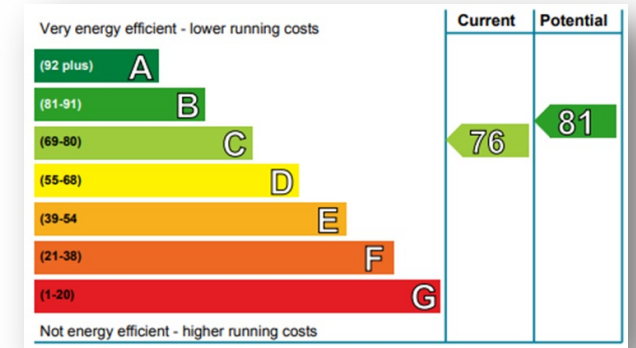
<https://consumer.scot/media/rtdjh4vl/consumer-scotland-consumer-spotlight-energy-affordability-tracker-1-november-2022.pdf>

Where are we now



Where do we need to be

- By 2025 –all private rented homes achieving EPC C
- By 2030 –large majority of homes achieving EPC C
- By 2030 –all homes with fuel poverty households archiving EPC C (EPC B by 2040)
- By 2033 –all homes achieving at least EPC C
- By 2032 –social rented homes achieving EPC B



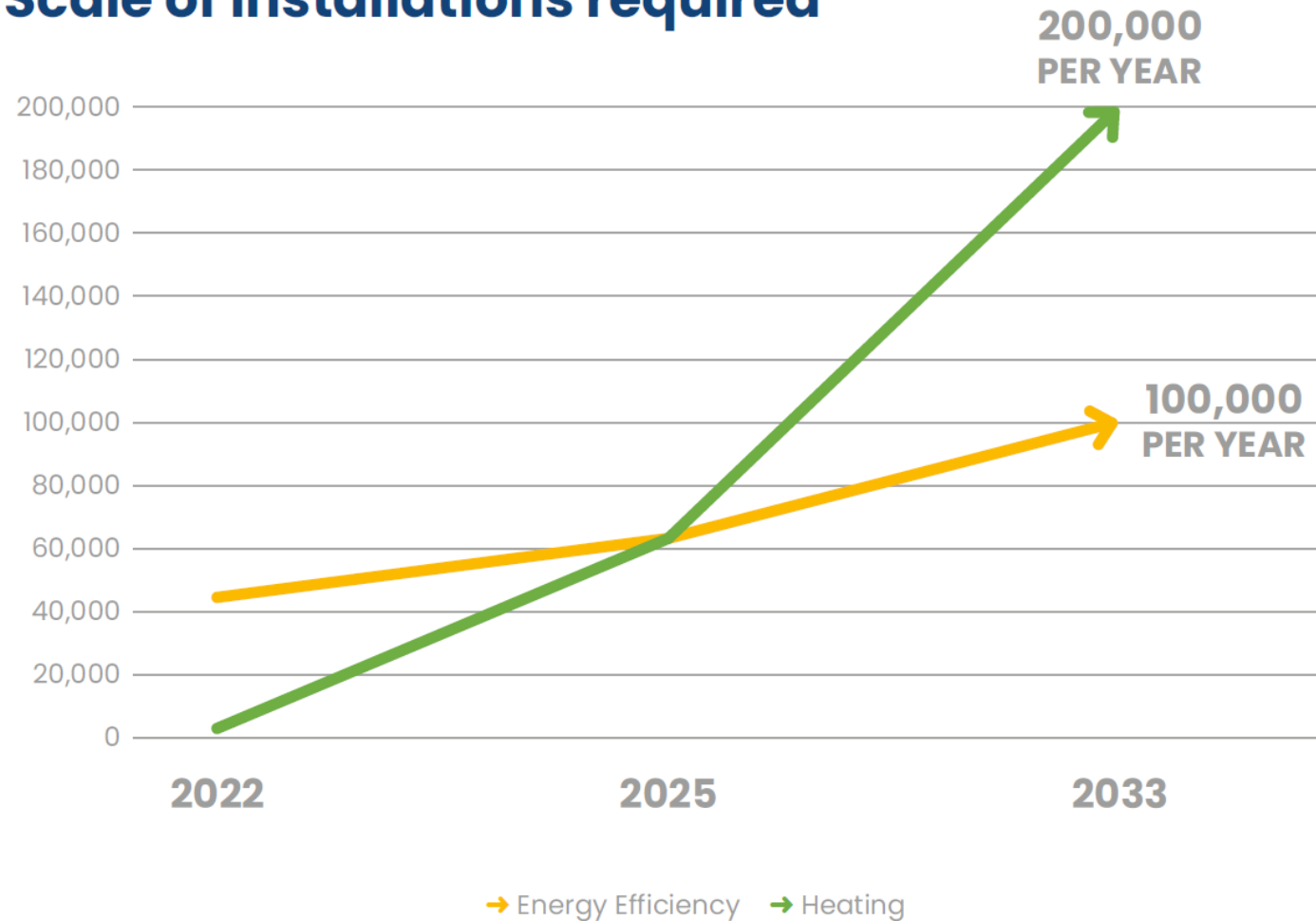
How do we get there

- **Hundreds of retrofit installers in Scotland**
- **Consistently high quality work**
- **Energy retrofit embedded into the everyday practices of builders working in the repair, maintenance and improvement market**
- **Support installers by providing clarity on qualifications, certifications and funding for upskilling**



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

Funding in Scotland for energy efficiency

- **Home Energy Efficiency Programmes for Scotland: Areas Based Schemes**
- **Warmer Homes Scotland**
- **Home Energy Scotland Grant and Loan scheme**
- **Private Rented Sector Landlord loans**
- **SME loan**
- **Local Heat and Energy Efficiency Strategies (LHEES)**

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.

Funding for energy efficiency – SME loan scheme

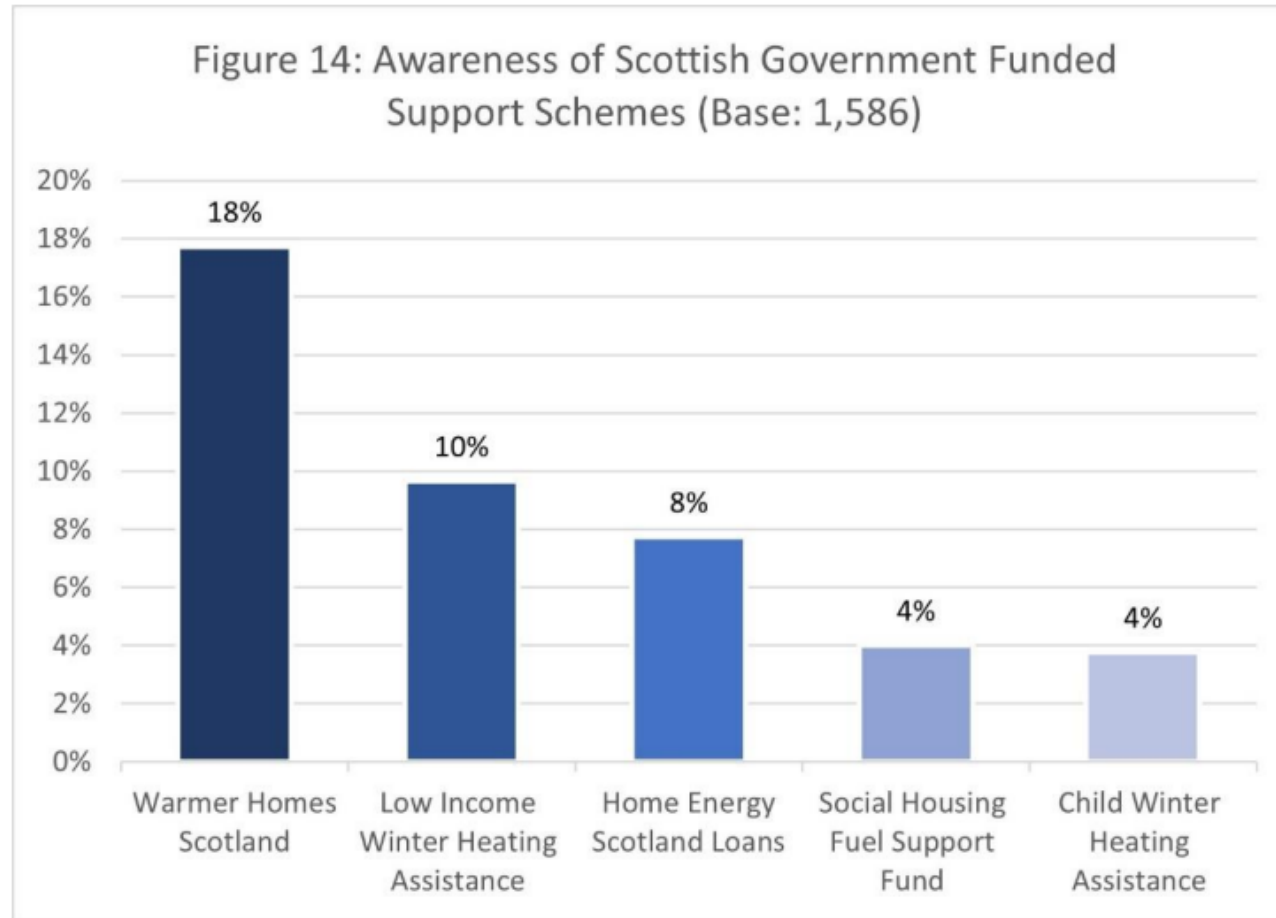
Energy efficiency	Heating, ventilation, insulation, draughtproofing, double glazing
Interest rate	0%
Cashback grant	75%
Maximum cashback	£20,000
Loan value	Up to £100,000 (with 8 year repayment)

Private Rented Sector Landlord loan

Energy efficiency and other improvements

Loan value (0% interest)	Up to £100,000 (£35,00 per property) Available to landlords registered in Scotland with 5 or fewer properties
Loan value (3.5% interest)	More than 5 properties can borrow up to £250k

Low awareness of Scottish-specific support



<https://consumer.scot/media/rtdjh4vl/consumer-scotland-consumer-spotlight-energy-affordability-tracker-1-november-2022.pdf>

Green Heat Installer Engagement Programme – useful links

- Website: energysavingtrust.org.uk/green-installer
- Email updates and quarterly newsletter subscription – bit.ly/2PSatKL
- LinkedIn group: linkedin.com/groups/5139242
- Email: GreenInstallerScotland@est.org.uk

**energy
saving
trust**

**Thank
you**





Scottish Funding Council

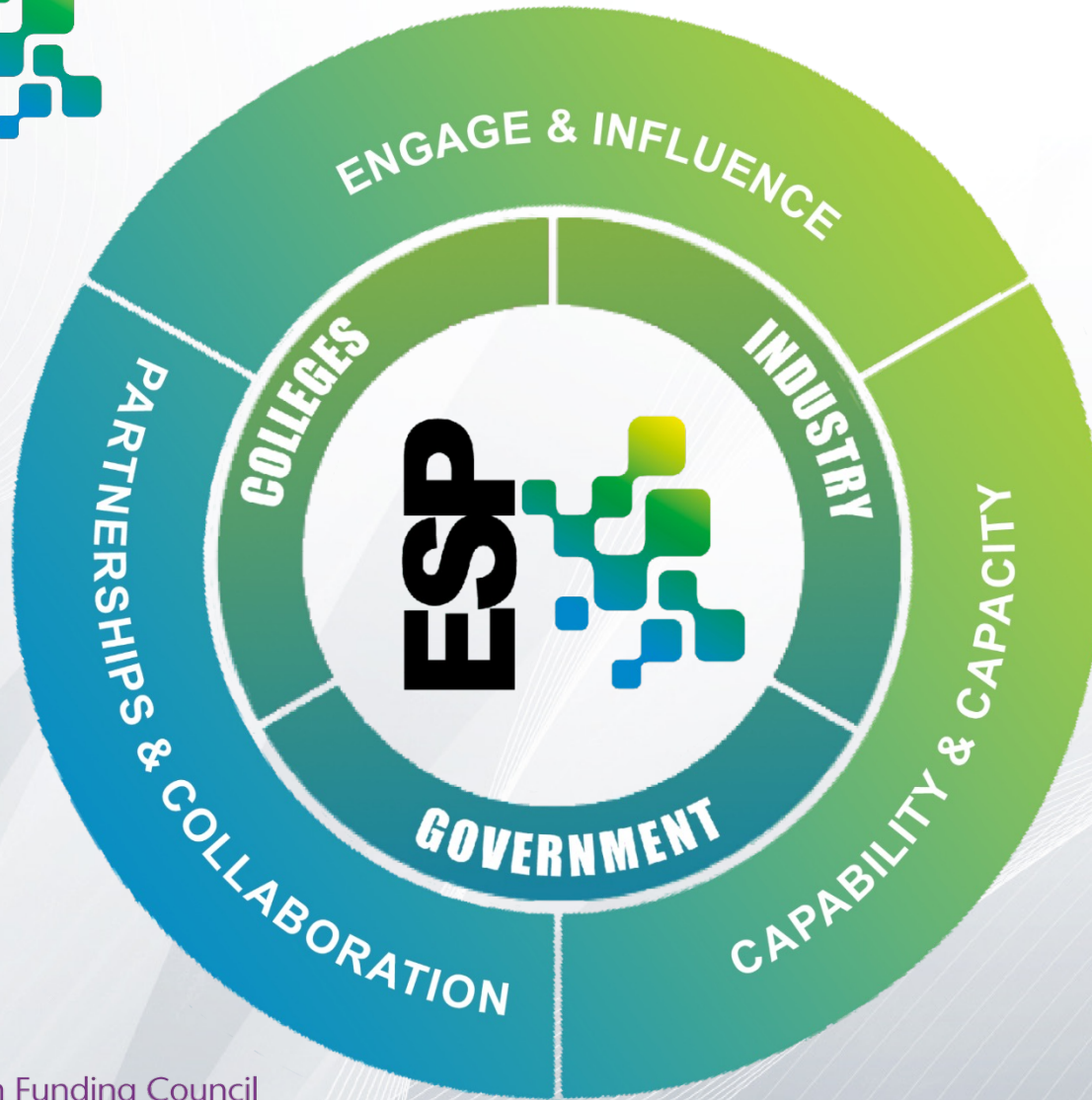
Promoting further and higher education



Skills & Training

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

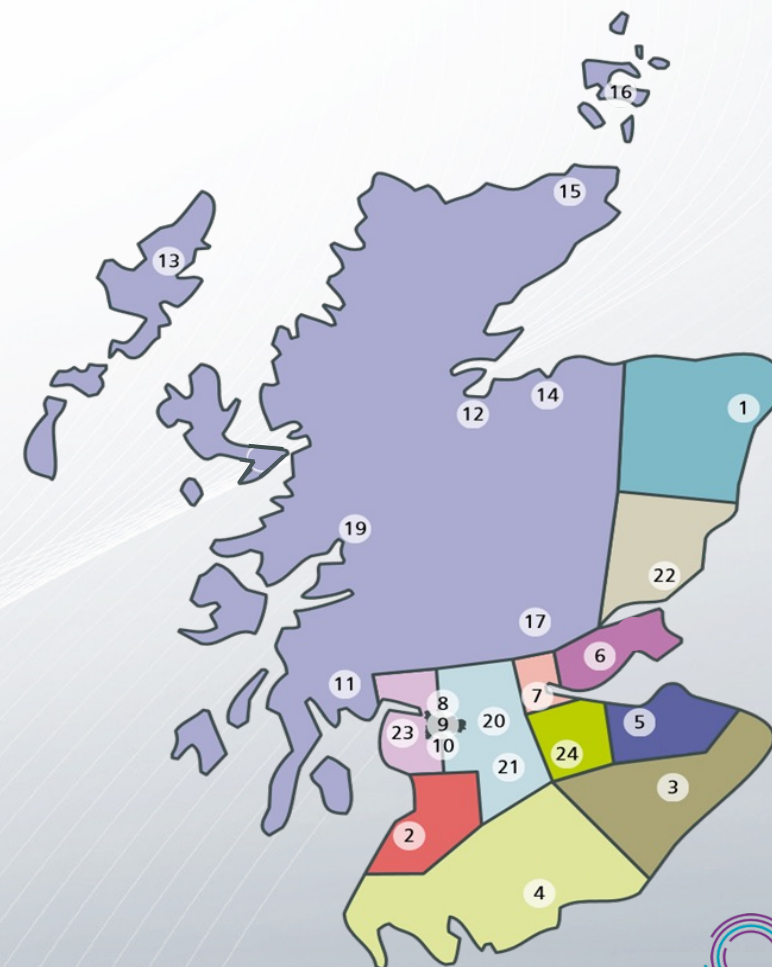
Scotland's colleges – delivering skills for the energy, engineering and construction sectors



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



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



ESP - Construction Structure

ESP Construction Leads Forum

Department
Heads of
School

Building Services Engineering Training Network

- Electrical
- Water
- Gas
- Plumbing
- Heating, Ventilation, Air Conditioning & Refrigeration
- Electronic Fire & Security

Construction Technician Training Network

- Civil Engineering
- Quantity Surveying
- Construction Management
- Architectural Conservation
- Building Surveying
- Computer Aided Design
- Retrofit Designer

Construction Crafts Training Network

- Plastering
- Bricklaying
- Stone Masonry
- Wall & Floor Tiling
- Roof Slate & Tiling
- Carpentry & Joinery
- Painting & Decorating
- Floorcovering
- Timber Frame Erection
- Interior Systems
- Wood Machining
- Operative & Specialisms
- Advanced Manufacturing

Energy Efficiency Training Network

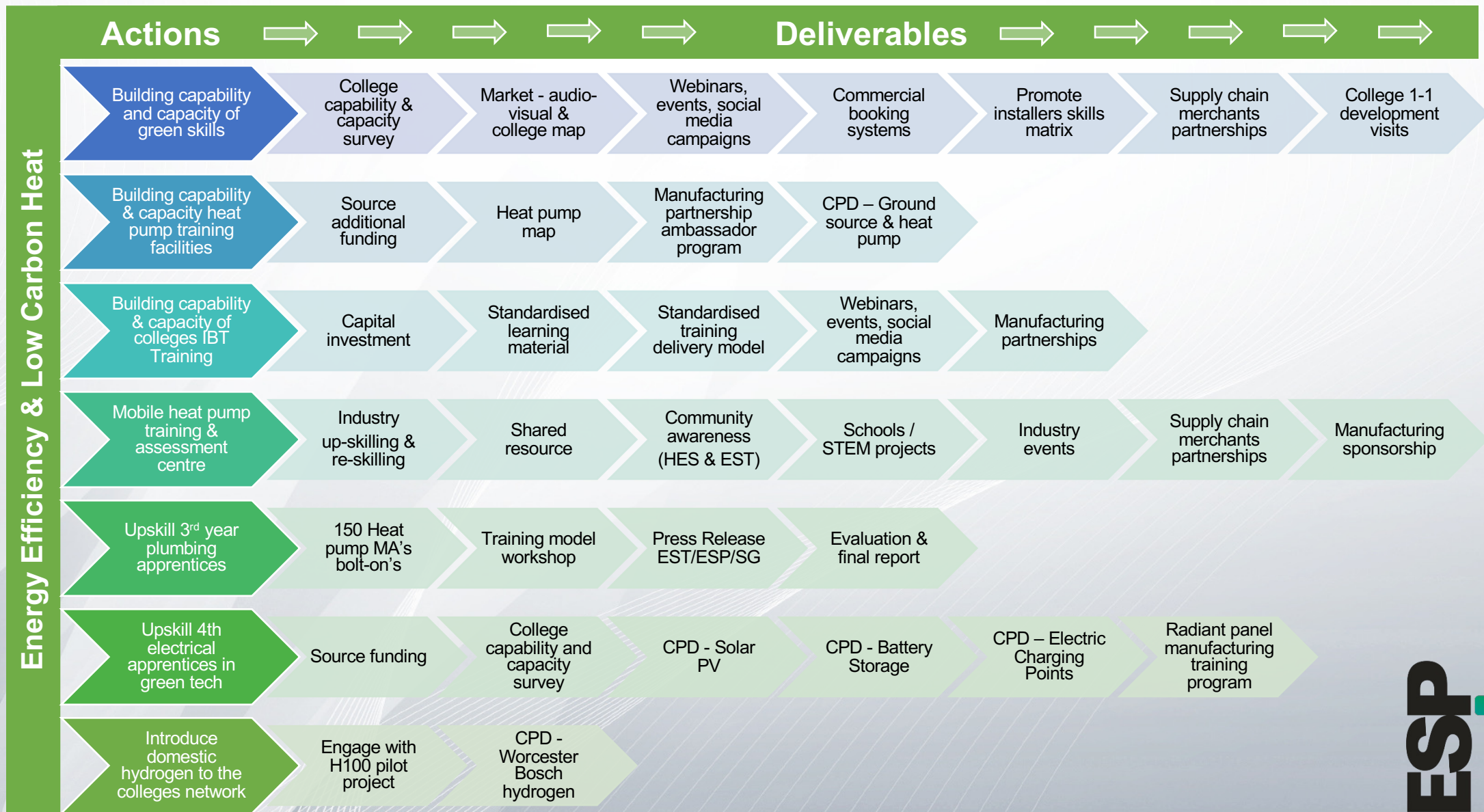
- External Wall Insulation
- Internal Wall Insulation
- Electrical Vehicle Charging
- Grey Water/Rain
- Air Tightness

Low Carbon Heat Training Network

- Heat Pumps
- Battery Storage
- Solar Photovoltaic
- Solar Thermal
- Mechanical Ventilation Heat Recovery
- Electrical Boilers
- Hydrogen

College
Experts

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



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



Scotland's Colleges

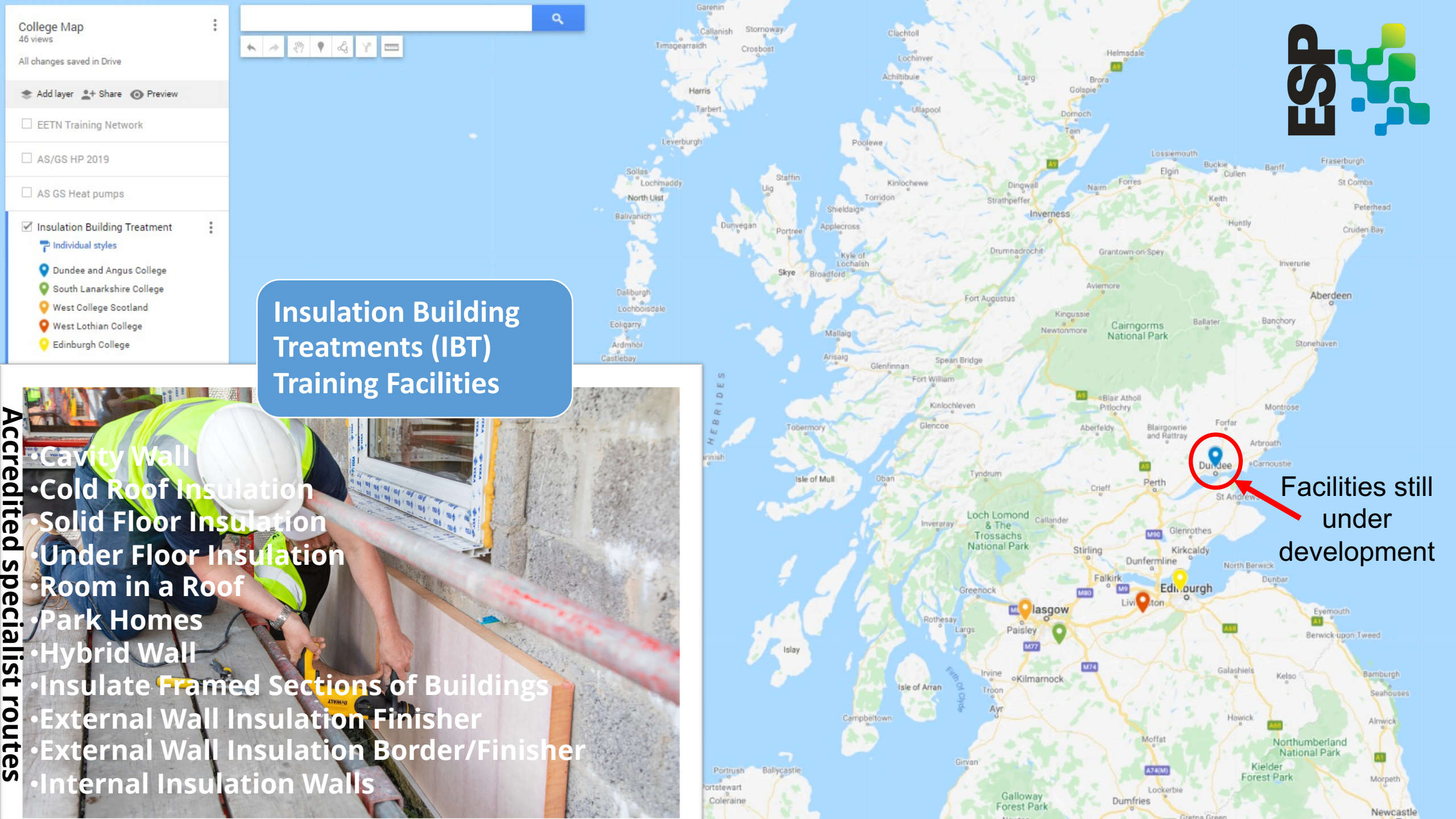
Energy Efficiency
&
Low Carbon Heat
Training Facilities



Scottish Funding Council
Promoting further and higher education

✓	Under Development	West Lothian College	West College Scotland	Dundee & Angus College	South Lanarkshire College	New College Lanarkshire	UHI Perth	UHI Moray	UHI Outer Hebrides	Glasgow Kelvin College	Glasgow Clyde College	Forth Valley College	Fife College	Edinburgh College	Dumfries & Galloway College	Borders College	Ayrshire College	NESCOL
	Updated: April 2023																	
	Level 3 Award in Energy Efficiency Measures for Older and Traditional Buildings	✓																
	Air Tightness	✓			✓								✓				✓	
	Thermal Imaging	✓										✓	✓				✓	
	SMART Control systems		✓									✓	✓			✓		
	Internal Wall Insulation				✓									✓				
	External Wall Insulation				✓									✓				
	Battery Storage		✓	✓	✓							✓	✓	✓				
	Ground Source Heat Pumps	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓				
	Air Source Heat Pumps	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓				
	Solar Thermal	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓				
	Solar Photovoltaic			✓	✓							✓	✓	✓				
	Rainwater Harvesting				✓							✓	✓	✓				
	Mechanical Ventilation Heat Recovery			✓							✓							
	Grey Water System				✓							✓		✓				
	Electric Boiler											✓						
	Electric Vehicle Charging			✓	✓				✓		✓						✓	
	Solid Biomass				✓													
	Smart Metering												✓					

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



Insulation Building Treatments (IBT) Training Facilities

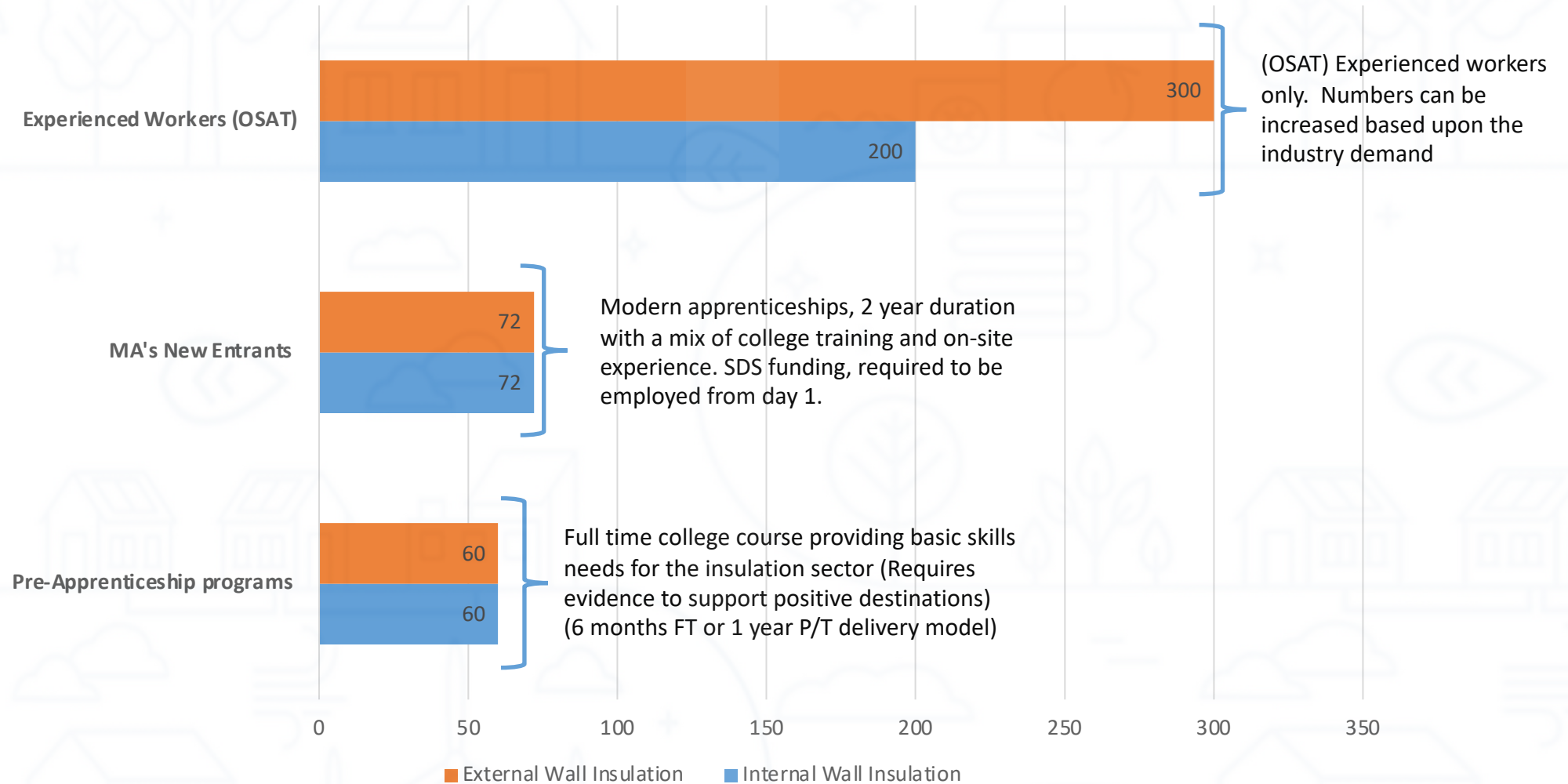
- Cavity Wall
- Cold Roof Insulation
- Solid Floor Insulation
- Under Floor Insulation
- Room in a Roof
- Park Homes
- Hybrid Wall
- Insulate Framed Sections of Buildings
- External Wall Insulation Finisher
- External Wall Insulation Border/Finisher
- Internal Insulation Walls

Accredited specialist routes

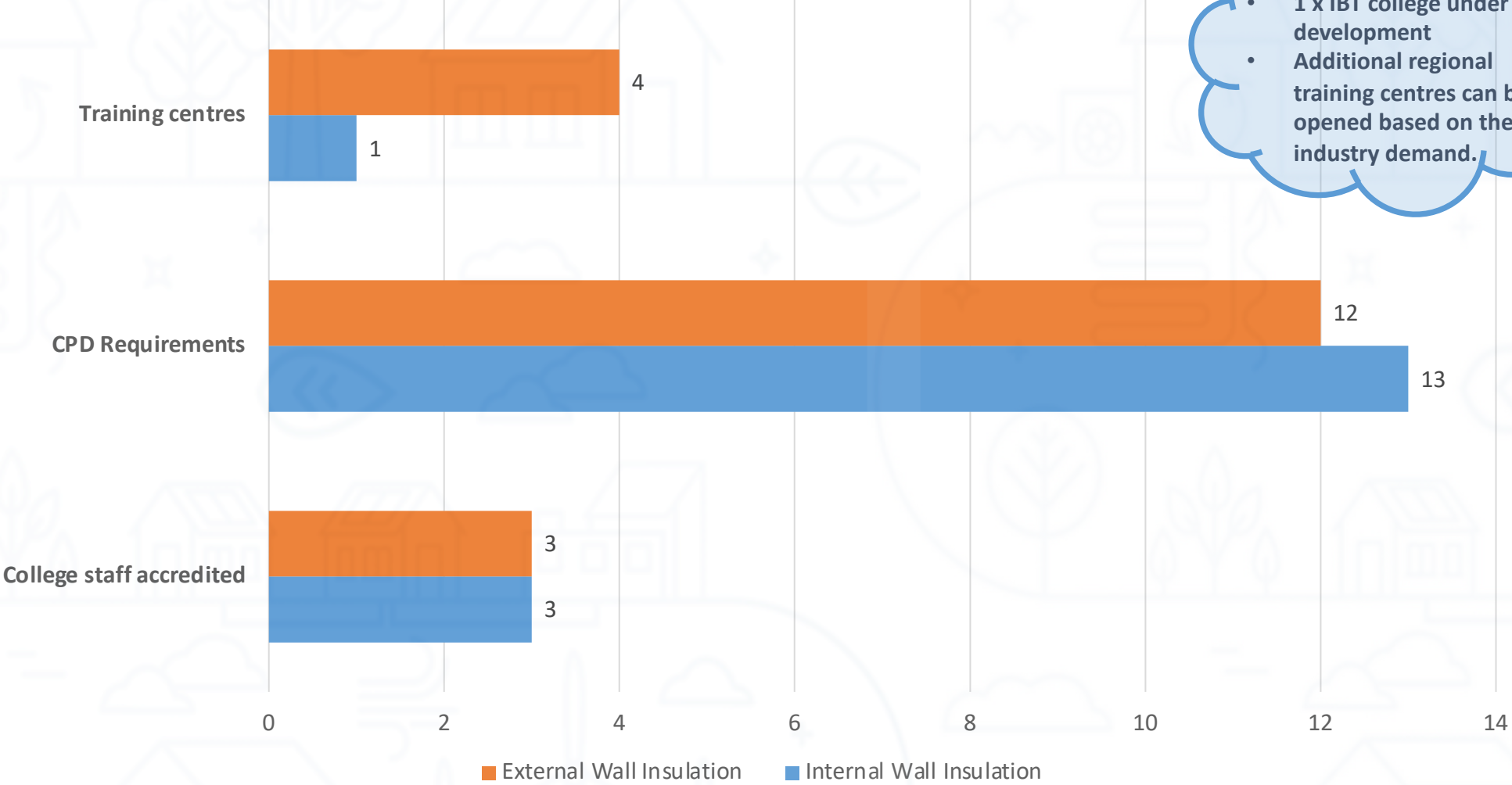
Facilities still under development



Scotland's Colleges Capability & Capacity (IWI & EWI)



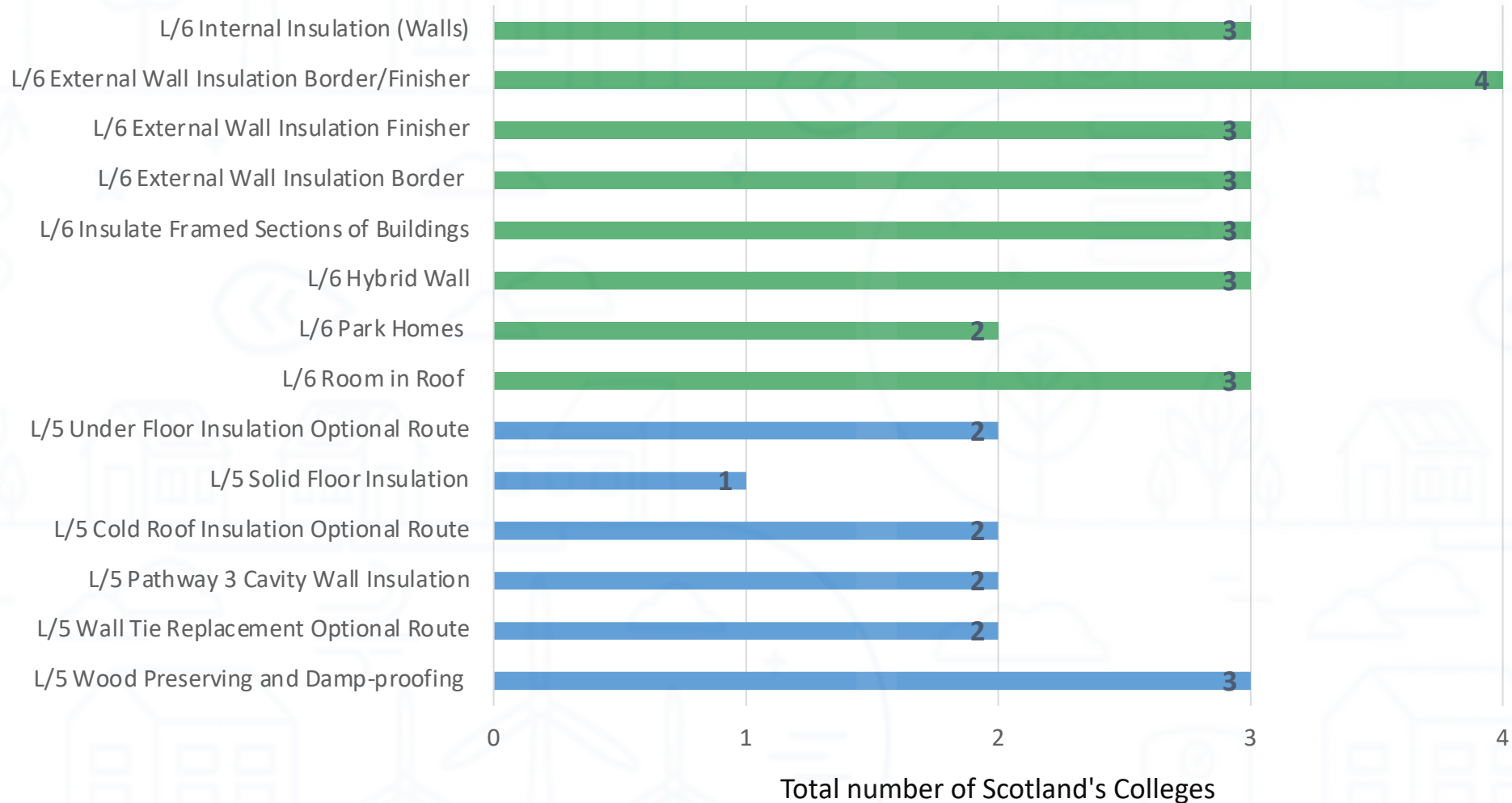
Scotland's Colleges "Current" IBT landscape



- 4 x IBT colleges (Open)
- 1 x IBT college under development
- Additional regional training centres can be opened based on the industry demand.



Scotland's Colleges IBT Level 5/6 Current Landscape

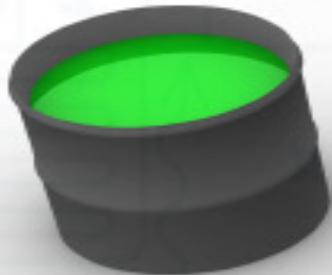


Green Heat Supply Chain

Recommended Minimum Skills and Qualifications



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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

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ENERGY &
UTILITY SKILLS



SLC
South Lanarkshire
College
East Kilbride

WEST COLLEGE
SCOTLAND



bre

SNiPEF
Plumbing and heating association

SELECT

Skills Development
Scotland

HISTORIC ENVIRONMENT
SCOTLAND
ÀRAINNEACHD
EACHDRAIDHEIL
ALBA

INCA

BESA
BUILDING ENGINEERING
SERVICE ASSOCIATION

Comments in relation to the skills matrix please
email skillsmatrix@esp-scotland.ac.uk



Career Path 2 SVQ in Insulation And Building Treatments (Construction) at SCQF level 6

- 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



**“Experienced
Worker route”**

- Supply chain upskilling programme.
1. Minimum competence, Installers Skills Matrix
 2. National skills needs analysis.
 3. Funding & support

- Quality Assurance
1. Insulation Building Treatments (IBT)
 2. Standardised portfolio/delivery
 3. Industry/college assessors
 4. Individual skills assessment
 5. CSCS

College/industry partnerships

1. On site assessment (OSAT) model
2. Approx - 6 months deliver
3. College accreditation

Certified and accredited (IBT) L5/6 installer

**“Net Zero
Delivery”**



Transitioning at Pace
into the energy efficiency sector





Supply Chain Skills Need Analysis (Example)

TRADE QUALIFICATIONS			Renewal	Joe Bloggs 1	Joe Bloggs 2	Joe Bloggs 3
Plumber	SVQ 3 Plumbing And Heating at SCQF Level 7		N/A	01/06/2004		
Heat Pumps Installer	Must hold one of the following trade qualifications	SVQ 3 Plumbing And Heating at SCQF Level 7	N/A	01/06/2004		
		SVQ 3/SCQF 6 Install, Commission And Maintain Refrigeration Systems	N/A		01/06/2014	
		SVQ 3/SCQF 6 Install, Commission And Maintain Air Conditioning Systems	N/A			
		SVQ3/SCQF 7 Service, Maintain and Commission Building Engineering Services	N/A			01/06/2020
		SVQ3/SCQF 6 Heating and Ventilating: Industrial and Commercial Installation	N/A			
	Must complete	NOS Mapped - Heat Pump Systems	5 years	01/08/2022	01/08/2024	01/08/2025
		Water Byelaws/Regs	10 years	01/08/2022	01/08/2029	01/08/2030
		Domestic Vented And Unvented Hot Water Storage	10 years	01/08/2022	01/08/2029	02/08/2030
	ONLY if working on pre-1919 buildings	Level 3 Award in Energy Efficiency Measures for Older And Traditional Buildings	N/A			
Electricity for Plumbers			5 years	01/08/2006		
SUPERVISORS QUALIFICATIONS						
SVQ Construction Site Supervision (Construction): Retrofit SCQF level 7						01/06/2022
IOSH Working Safely					01/06/2014	
IOSH Managing Safely						
First Aid Risk Assessment - Principles and Practice: 1						01/06/2022
First Aid at Work:					01/06/2018	
Emergency First Aid at Work					01/06/2018	
First Aid at Work Re qualification Course						
SITE SAFETY QUALIFICATIONS						
CPCS (A14) - Rough Terrain Forklift - Training & Testing						
CPCS (A17) Training - Telescopic Handler Courses & Testing						
Site Safety Plus - Health and Safety Awareness				01/11/2015		01/06/2022
CSCS Test and Card Application				01/09/2015		01/06/2022
CITB (SMSTS) - Site Management Safety Training Scheme Courses						
IPAF Powered Access Operator Training (1 Category - 3A & 3B)						
MISCELLANEOUS QUALIFICATIONS						
Heat Pump Non- Installer	Limited Scope Heat pump Systems		N/A			

Key

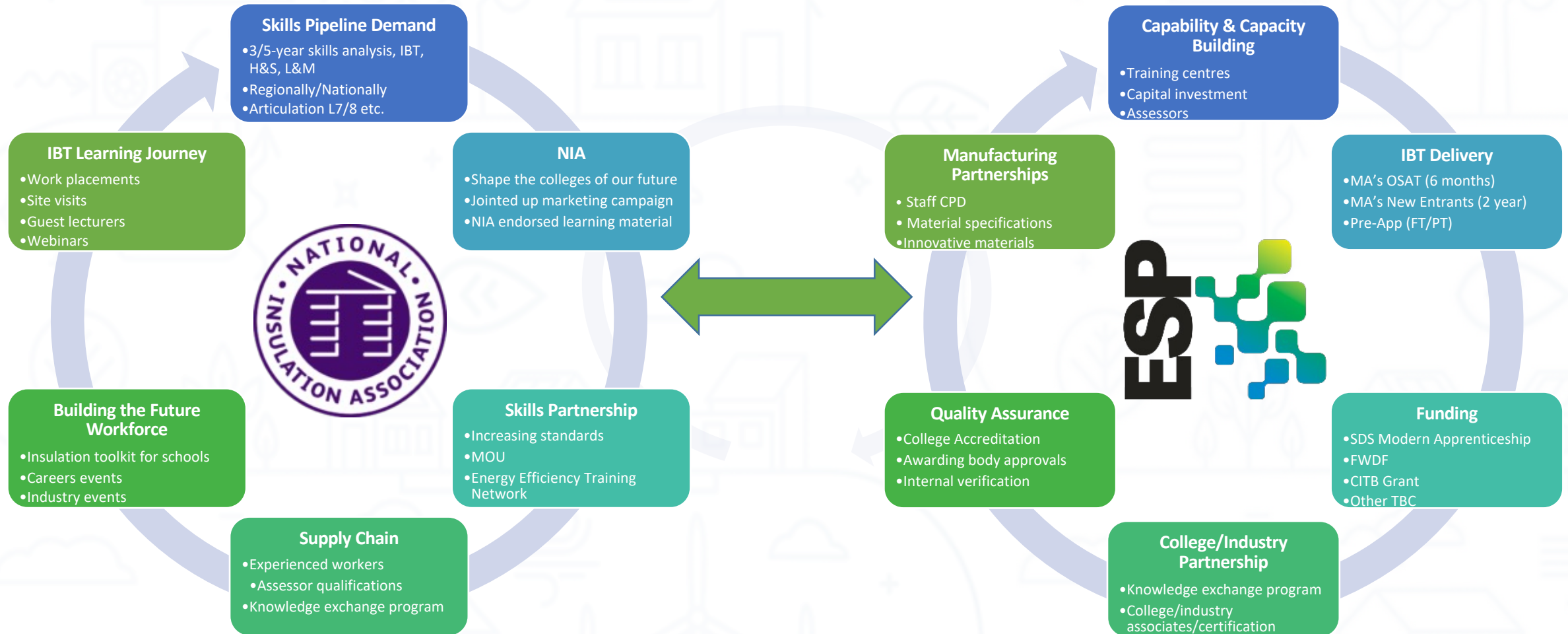
	Qualified
	Qualified requires renewal
	Training required

Company

Lead

Date

NIA/ESP Partnership



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

What Can Be
Achieved
Just Now!!





Vaillant

**FAO: Scotland's colleges Managers/Lecturers involved in the low carbon heat pump sector
(Max 2 attendees per college)**

ESP are working in partnership with Vaillant to develop stronger partnerships with colleges. Vaillant are seeking attendance from an experienced plumbing, refrigeration or gas lecturer that is delivering heat pump training or an expert that is intending to move into this sector of delivery. A manager may also attend to explore the opportunities moving forward.

Date: Wednesday (XXX) 2023,

Time: 10:00am - 4:00pm

Address: Vaillant, Eurocentral, 2 Parklands Way, Motherwell ML1 4WR

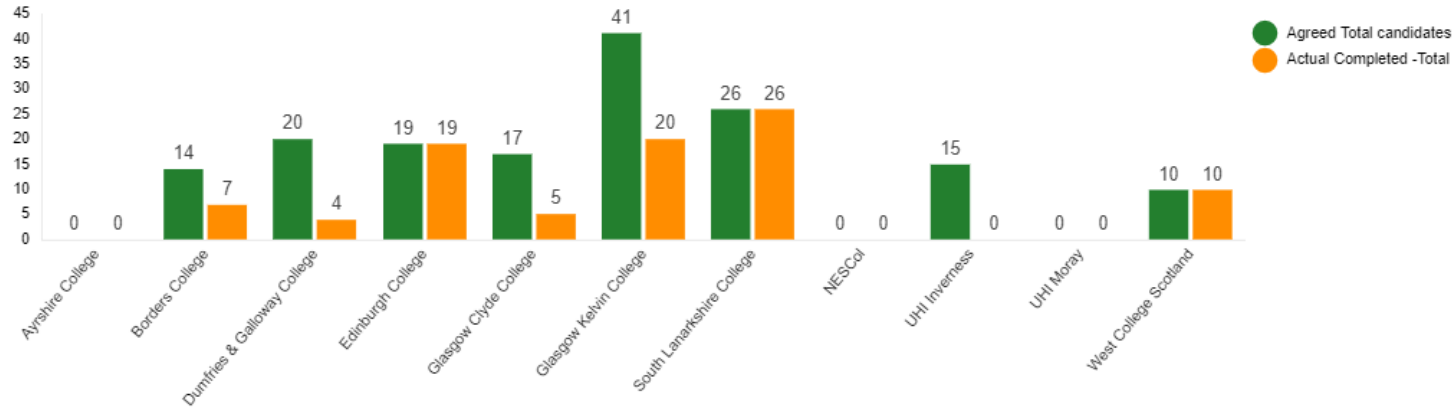




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National Statistics & Evaluation

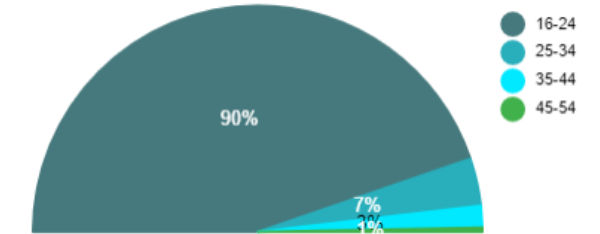
3rd Year Agreed vs Actual Targets achieved



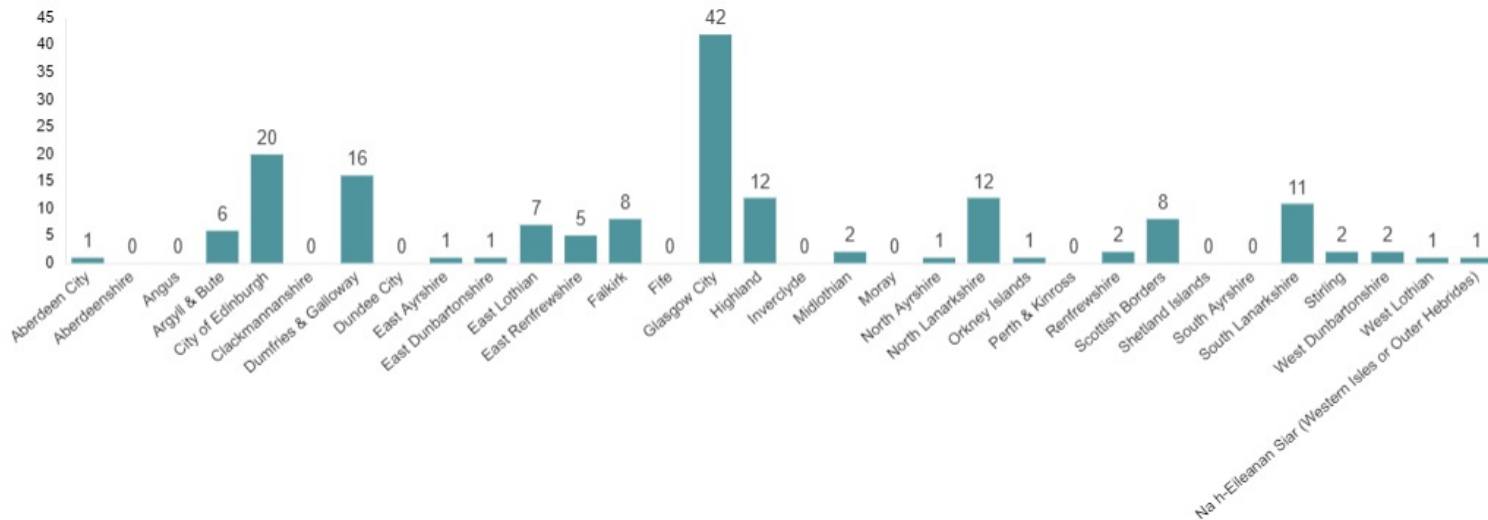
Candidates supported - Gender identity



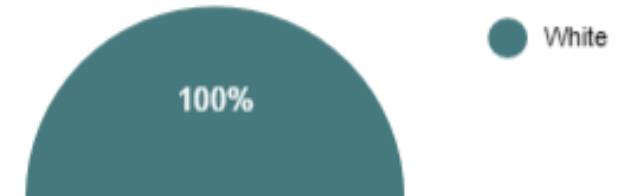
Candidates supported - Age Group



Analysis of supported company regional location



Candidates supported - Ethnicity



Heat Pump Installer Toolkit

Everything you need to know about becoming a heat pump installer in Scotland.

[Go to toolkit](#)

Contents

- 1 Why heat pumps?
- 2 Installation considerations
- 3 Training and qualifications
 - 3.1 Installer skills matrix
 - 3.2 Training providers
 - 3.3 Funding to support installer training
- 4 MCS (Microgeneration Certification Scheme)
- 5 Business considerations
- 6 Resources for installers



Why heat pumps?

Find out about the benefits of heat pumps, as well as recent legislation, funding and more.

[Learn more](#)

- Borders College
- Glasgow Clyde College
- Dumfries & Galloway College
- Edinburgh College
- Forth Valley College
- Glasgow Kelvin College
- Moray College
- South Lanarkshire College
- West College Scotland

Green PLA

		North Wales		Mid/ South West Wales	South West Wales			South East Wales					All Wales
Courses	Levels	Grwp Llandillo Menai	Coleg Cambria	NPTC Group of Colleges	Coleg Sir Gar	Pembrokeshire College	Gower College Swansea	Coleg y Cymoed	Bridgend College	Coleg Gwent	Cardiff and Vale College	The College Merthyr Tydfil	Online Courses
Renewable Energy Solutions													
Ground source heat pumps	3	✓	✓	✓	✓	✓		✓	✓		✓		
Air source heat pumps	3	✓			✓	✓	✓	✓	✓	✓	✓		
Solar thermal heating	3	✓		✓	✓	✓	✓	✓		✓	✓		
Rainwater harvesting	3	✓		✓									
Retrofit													
Introduction to Retrofit					✓				✓	✓			
Domestic Energy Assessor	2/3			✓	✓						✓		
Retrofit Coordination and Risk Management	5				✓					✓	✓		
Level 3 Energy Efficiency Measure of Older Buildings and Traditional Buildings	3		✓		✓								
Non-Domestic Energy Assessor	4			✓							✓		
Assessing Dwellings for Retrofit	5				✓					✓			
Understanding Domestic Retrofit Level 2 Award	2				✓					✓	✓	✓	
Level 4 Diploma in Construction Site Supervision – Retrofit	4									✓			
Level 6 Diploma in Construction Site Management – Retrofit	6									✓			
Retrofit Advice	3										✓		
Retrofit Assessor	3			✓							✓		
Energy													
Wind turbines Maintenance/Installation						✓							
Drone technology			✓		✓	✓					✓		
Sea survival						✓							
Electrical													
Installation and maintenance of domestic electric vehicle charging points	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Installation and maintenance of solar photovoltaic	3	✓		✓	✓	✓	✓		✓	✓	✓	✓	
Electrical Installation EAL 9331 Level 3 Diploma	3					✓			✓				
Electrical Installation EAL 7671 Level 2 Award	2					✓			✓			✓	
Energy storage systems (battery)	3	✓		✓	✓		✓		✓		✓		
Installation and maintenance of largescale electric vehicle charging points	3		✓						✓				
Construction													
HNC Construction and built envrionment	4	✓		✓					✓	✓	✓		
Building information modelling	3				✓				✓		✓	✓	
Operational ratings of buildings	3									✓			



Mobile Heat Pump Training & Assessment Centre

Partners



Scottish Government
Riaghaltas na h-Alba
gov.scot

energy
saving
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Net Zero
Scotland
Scottish
Government



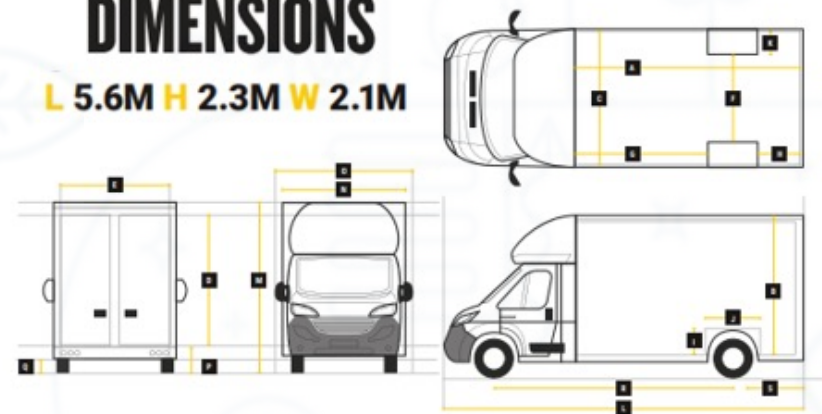
Purpose

Develop a mobile assessment and accreditation centre that will be used to upskill the supply chain in Air/Ground Source Heat Pump technologies accessible to all colleges in Scotland.

- Industry up-skilling/re-skilling AS/GS HP
- Public and private awareness
- Community projects
- Schools / STEM projects
- Industry events
- Supply chain merchants

DIMENSIONS

L 5.6M H 2.3M W 2.1M



MAX PAYLOAD
UP TO 1250KG



MAX VOLUME
UP TO 28M³



GVW
3500KG

Internal Cargo Dimensions

A	Load Length	5620mm
B	Load Height	2300mm
C	Load Width	2100mm
D	Height through rear doors	2105mm
E	Width through rear doors	1935mm
F	Between Wheel Arches	1495mm
G	Bulk Head to Wheel Arches	2700mm
H	Wheel Arch to Rear Frame	2010mm
I	Wheel Arch Height	300mm
J	Wheel Arch Length	865mm

Exterior Dimensions

K	Wheel Arch Width	310mm
L	Total Length	8200mm
M	Total Height	2865mm
N	Total Width Excluding Mirrors	2140mm
O	Total Width Including Mirrors	2490mm
P	Loading Height [Std Susp]	550mm
Q	Ground Clearance	320mm
R	Wheel Base	4700mm
S	Rear Overhang	2070mm

**FLEXIBLE
WORKFORCE
DEVELOPMENT
FUND**



**FILL YOUR
SKILLS GAP**

- up to £15k now available for employers
 - up-skill and re-skill your workforce
 - flexibility to choose who and how you train
 - apply if you have a wage bill over £3m per annum
 - choose from colleges across Scotland
- The Fund is now open – find out how to apply at www.sfc.ac.uk or contact your regional college today.

www.sfc.ac.uk



RE – SKILL YOUR TEAM WITH THE HELP OF

FLEXIBLE WORKFORCE DEVELOPMENT FUNDING

ARE YOU ELIGIBLE

Levy Payers can access up to
£15,000 and SMEs can access
up to £5,000 of training

The background image shows a spacious, well-lit industrial or laboratory environment. On the left, there is a large glass door with a yellow circular logo above it. The walls are light-colored and feature several informational panels or posters. In the center and right, there are various pieces of equipment, including tall white cylindrical tanks, a black trash bin, and a yellow pallet jack. The floor is a light-colored, polished surface that reflects the overhead lights. The ceiling is high with exposed metal beams and numerous fluorescent light fixtures.

Scotland's Colleges Driving Net Zero Skills



John Renwick
Sector Manager –
Construction



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



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



Panel Q&A

Your opportunity to ask
your questions





Thank you for joining

Please scan



or go to

eu.surveymonkey.com/r/NIA_Membership_survey
to complete our quick 5 minute survey to ensure that
your membership details are correct.

