

BSI & EAUC Carbon Net Zero Framework for the Education Sector

EAUC/BSI in Partnership



BSI – Inspiring Trust for a More Resilient World



Experienced – Founded 1901

The world's first National Standards Body

A founding member of ISO and CEN (Europe)

A Royal Charter Mandate – focused on creating best practice

Thought leaders

Shaped over 80,000 best practice standards and guidelines.

Global best practice partner

~5,000 employees and 12,000 experts in 183 countries



The problem that BSI & EAUC is aiming to solve

Sector problem:

- to achieve carbon reduction strategy
- ensure net zero timeline is not exceeded

Why this is important:

- Most institutions are pledging net zero; few have a clear strategy that is science based
- increasingly driven by government commitment and stakeholder pressure

At Institutional level, who is concerned:

- SMT – license to operate, reduce risk, enhance reputation
- CFO – positive impact on cost of finance / operating profit
- Student recruitment – carbon reduction benefit to stakeholder footprint
- Risk – avoidance of greenwash

What success means to institutions:

- Successful delivery of reduction targets vs net zero commitment
- Meeting stakeholder expectations
- Position & performance at /ahead of sector best practice performance

Clarity?

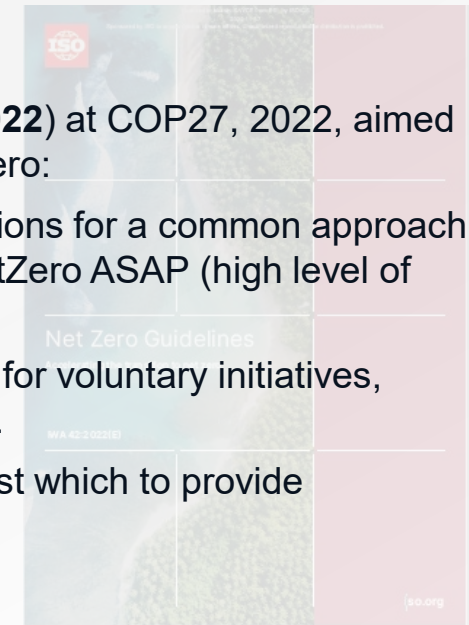
BUT, There is confusion:
A multitude of certification schemes exist:

- Inconsistent use of net zero terminology, GHG protocols, timescales, baselines etc.
- Many/most net zero certifications and claims linked to offsetting or proprietary schemes
- Severe risk of greenwash

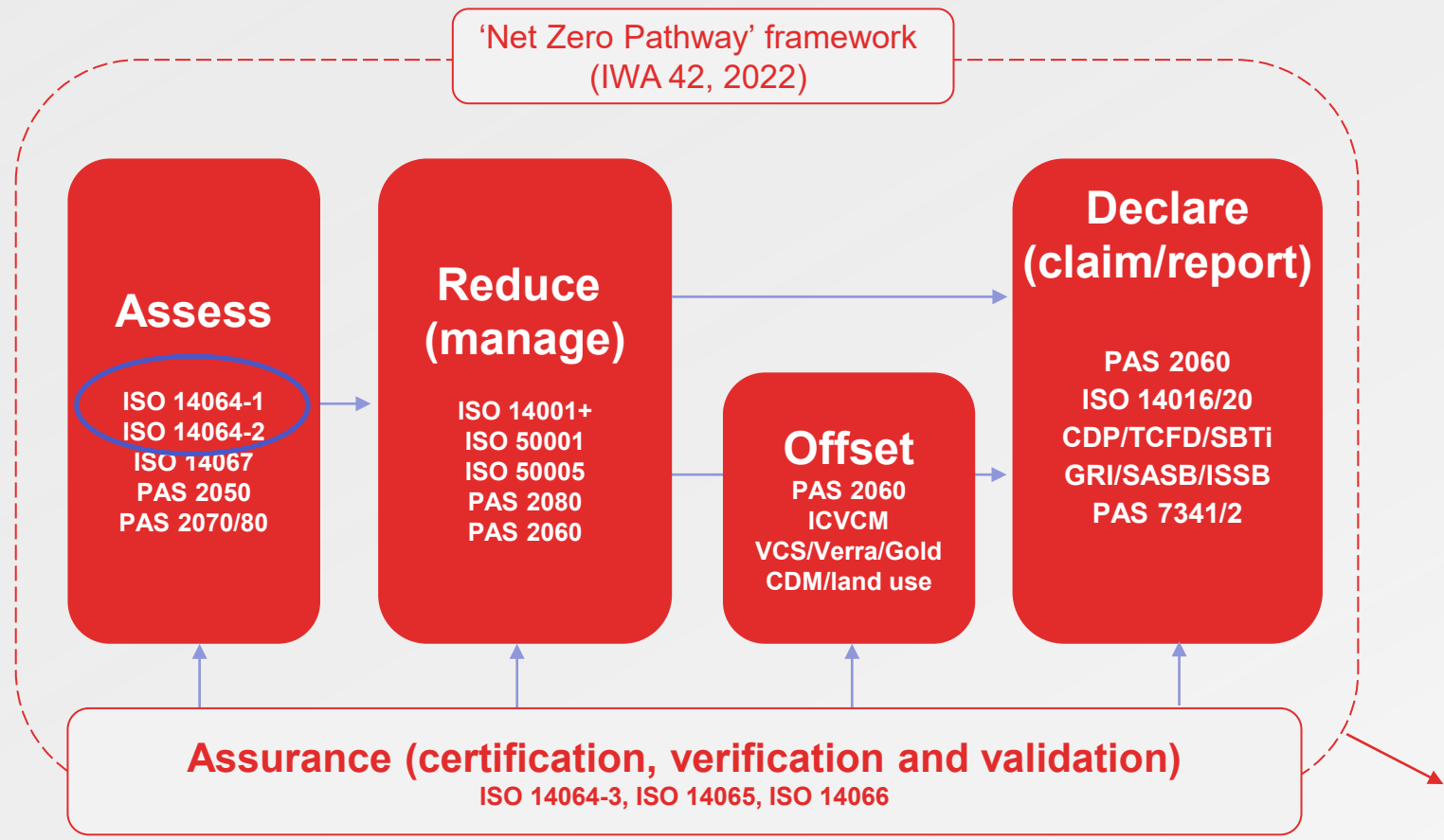


ISO NetZero Guidelines (IWA 42:2022) at COP27, 2022, aimed at accelerating the transition to NetZero:

- guiding principles / recommendations for a common approach to drive institutions to achieve NetZero ASAP (high level of ambition)
- intended as a common reference for voluntary initiatives, standards, policy and regulations.
- Guidelines, not a standard, against which to provide **assurance**



Standards for the carbon journey



- ISO 14064-1: Emissions quantification at organizational level
- ISO 14064-2: Emissions quantification at project level
- ISO 14067: Emissions quantification at product level
- ISO 14040: life cycle analysis
- PAS 2050: Lifecycle product emissions (carbon footprint)
- PAS 2070: City level emissions assessment
- ISO 14001: Environmental management
- ISO 50001: Energy management
- ISO 50005: Energy management – for SMEs
- PAS 2080: Carbon management in infrastructure
- PAS 2060: Carbon neutrality
- ISO 14020: Environmental labels and declarations
- ISO 14064-3: Verification/validation of GHG inventories
- ISO 14065: Validation/verification body requirements
- ISO 14066: Competence of validation/verification teams

Ongoing management via PDCA

- ✓ Inform emissions reduction strategy
- ✓ Align / realign targets to science-based pathways
- ✓ Enable decision making/resourcing
- ✓ Realise ambition beyond net zero
- ✓ Credibility and trust in communication
- ✓ Demonstrate leadership
- ✓ 3rd party verification of emissions, targets & timelines

IWA42 in more detail

Who is IWA 42 – NetZero Guidelines for?

All organisations from national governments, cities, multi-nationals and institutions to small family businesses.

What the *Guidelines* cover?

- Guiding principles and recommendations for a common, global approach to achieving net zero
- Through alignment of voluntary initiatives and adoption of standards, policies and regulation
- Guidance on effective contribution to global efforts to limit warming to 1.5 °C (using science-based targets)
- Guidance on equitable contribution, justice and social/environmental benefit
- Guidance for organisations seeking to set robust climate strategies

<https://knowledge.bsigroup.com/products/net-zero-guidelines/standard>

Why should you use the *Guidelines*?

- Bring clarity to the jargon - written with all users in mind
- Use with any voluntary initiative, and to aid the use of other standards, e.g. ISO14064/14001/50001
- Help institutions meet the UN High Level Experts Group recommendations to avoid catastrophic climate change
- Help institutions get ready for stronger climate change laws
- Help to accelerate innovation and develop expertise
- Help to improve the efficiency of operations
- Help to strengthen climate change risk management
- Increase stakeholder trust and confidence
- Help institutions to grow justly and sustainably

IWA42 & the SDGs

Contributes to Goal 3 - good health and well-being, Goal 6 - clean water and sanitation, Goal 7 - affordable and clean energy, Goal 9 - industry, innovation and infrastructure, Goal 10 - reduced inequalities, Goal 11 - sustainable cities and communities, Goal 13 - climate action, Goal 15 - life on land, Goal 16 - peace, justice and strong institutions and Goal 17 - partnership for the Goals.

About our Target Evaluator tool

Will I hit my net zero target?

The BSI net zero tool uses peer-reviewed data from leading scientific bodies such as the University of Oxford and Nobel Prize winning economist Joseph Stiglitz to forecast if you will hit your target

How will emissions be affected by business growth?

The net zero tool will forecast how your emissions profile will change based on expected growth and take account of this when assessing forecast net zero date

How much will it cost to achieve net zero?

Our Tool will use the latest information to forecast how much your offsets and reduction initiatives are likely to cost

What is the social cost of my emissions?

Using the latest scientific data, the net zero tool can estimate the cost to human health and property of your emissions

How much will I save by becoming Net Zero

Our Tool will help you understand the cost of your plan and the alternative scenarios if you were to do nothing, to help you make the business case for net zero investment



7 steps* supporting the path to net zero

ISO14064 verification cycle / annual IWA42 alignment

Step 1: Calculate Carbon Footprint

Using the requirements of ISO14064:2018

BSI conduct a verification of the data and issue a **Verification Opinion**. This footprint will be used as the baseline for target setting and reduction

Step 2: Reduction targets

Using a science-based approach, map annual emissions profile to reach Net Zero by/before 2050

Starting point will be total **market based** emissions reported on verification opinion. Targets as tonnes CO₂eq

Step 3: Implement reduction system

Meeting ISO Net Zero Guidelines IWA 42:2022

The management system is to include specific reduction objectives to achieve targets established in step 2

Step 4: Independent Audit

Implementation of the reduction management system to be assessed by BSI through audit

This will confirm IF all IWA 42 recommendations have been addressed and that reduction targets are correctly set using a science-based approach

Step 5: Certificate

Once footprint verification, target setting and satisfactory audit Against IWA42:2022 steps are completed, BSI will issue a certificate confirming commitment to the BSI Net Zero Framework scheme

Valid for 3 years from date of issue

Step 6: Staying on track

An annual surveillance audit will be to assess if the reduction management system is being maintained and that satisfactory progress against targets is being made

This high-level review will not produce an emissions Verification Opinion

Step 7: 3-year verification

A next full verification to ISO14064-1 with a new accredited Verification Opinion**

To include an audit of progress against targets & reduction management system to determine if IWA42 requirements continue to be met. If so, a new 3-year certificate is issued (as per Step 5)

BSI Consulting and BSI Connect software solutions

We support with training to help you achieve your emission reduction targets



Your Net Zero goal

I will achieve Net Zero by...

Current turnover (£) ¹
I don't know

Current carbon footprint (t/CO2e) ¹
I don't know

Current cost of offsets (£ per t/CO2e) ¹
I don't know

Annual investment in reduction initiatives (£ per t/CO2e) ¹
I don't know



Ask an expert



Short Term Reduction Plan

Tell us about your forecast business growth and expected reductions in your GHG emissions

| Forecast: | Business growth (%) | Reductions (t/CO2e) |
|-----------|----------------------|----------------------|
| 2024 | <input type="text"/> | <input type="text"/> |
| 2025 | <input type="text"/> | <input type="text"/> |

Medium Term Reduction Plan

Tell us about your forecast business growth and expected reductions in your GHG emissions

| Forecast: | Business growth (%) | Reductions (t/CO2e) |
|-----------|----------------------|----------------------|
| 2026 | <input type="text"/> | <input type="text"/> |
| 2030 | <input type="text"/> | <input type="text"/> |

Long Term Reduction Plan

Tell us about your forecast business growth and expected reductions in your GHG emissions

| Forecast: | Business growth (%) | Reductions (t/CO2e) |
|-----------|----------------------|----------------------|
| From 2030 | <input type="text"/> | <input type="text"/> |



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By Royal Charter

FIND A STANDARD

- ISO 9001 Quality Management
- ISO 13485 Quality Management
- ISO 14001 Environmental Management
- ISO 22301 Business continuity

SERVICES

- Access and buy standards
- Develop a standard
- Online subscription services
- Standards services
- Assessment and ISO certification
- Auditing and

SECTORS

- Built environment
- Energy
- Food and retail
- Government
- Healthcare
- ICT
- Manufacturing
- Transport and mobility

TOPICS

- Future of mobility
- Global market access
- Health and safety
- Information security
- Innovation
- Internet of things (IoT)
- Organizational Resilience

ABOUT

- About BSI
- BSI impartiality
- Our accreditation
- Our clients and partners
- Our financial information
- Our governance
- Our legal information



Send feedback

Leave a message for us



Results

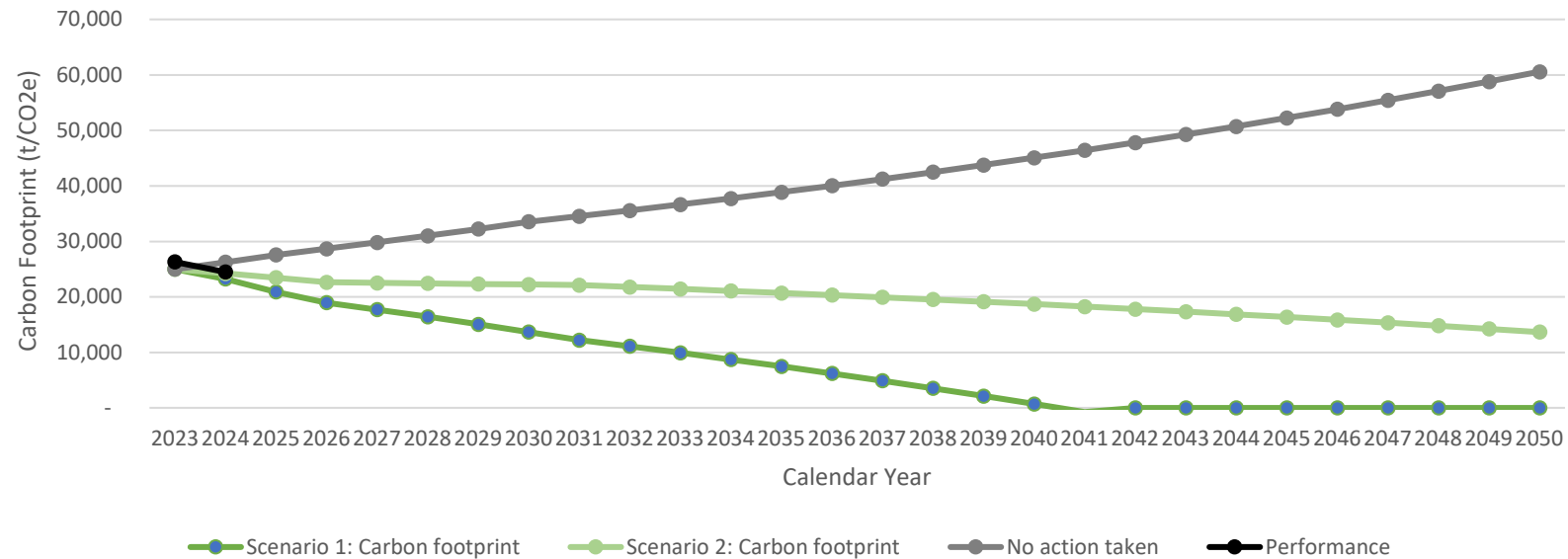
Our forecaster assesses that you are **at risk** of not achieving your Net Zero goal by 2035.

| | |
|--|--------|
| Forecast Net Zero date ¹ | 2051 |
| Cost to achieve Net Zero ¹ | £45.4m |
| Social impact of future emissions ¹ | £54.3m |

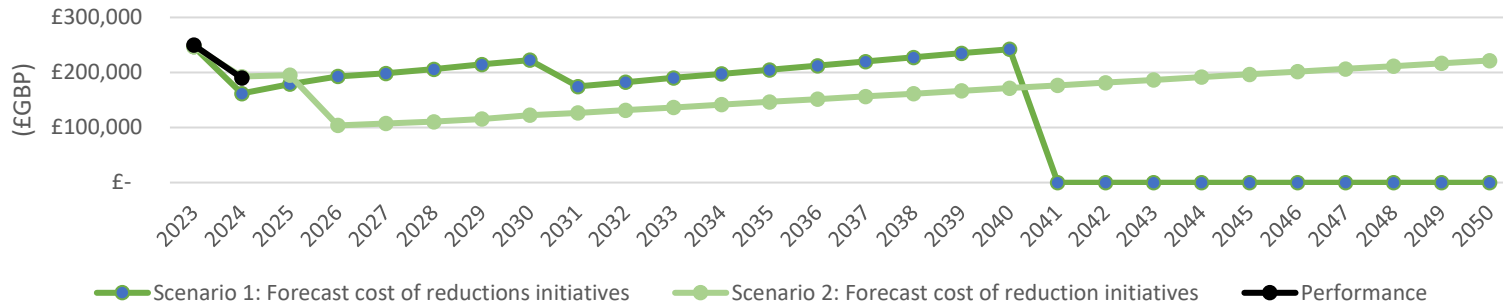
● ● ● ● ● **●** Results

[Ask an expert](#)

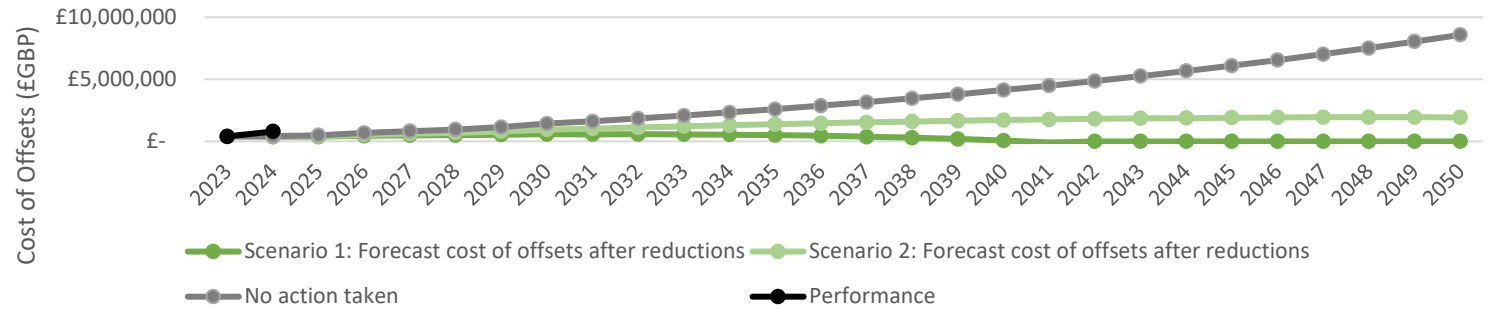
Your forecast net zero journey



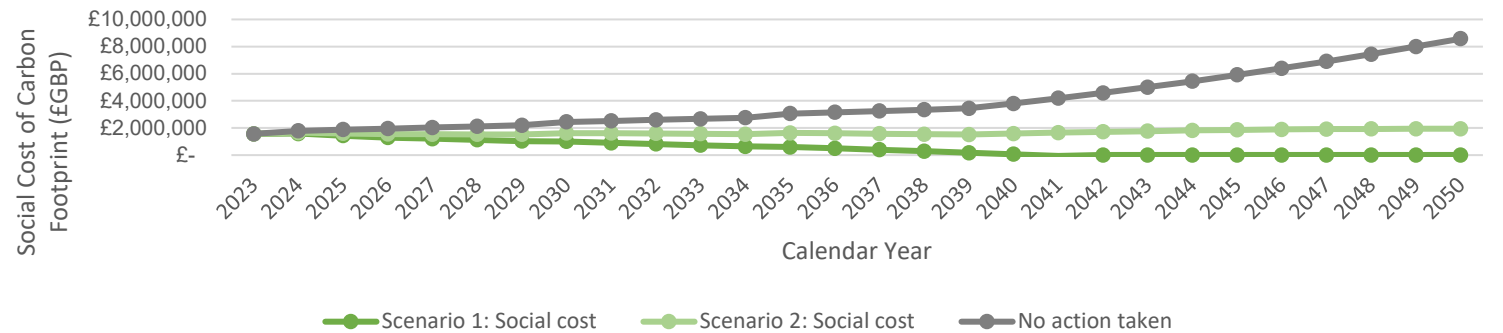
Cost of delivering reduction initiatives (£, GBP)



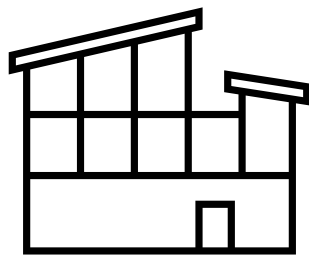
Cost of offsets (£, GBP)



Estimated social cost of future emissions



For example:

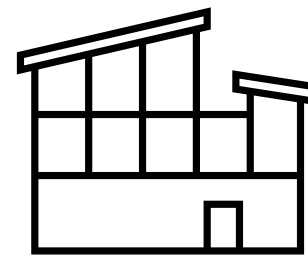


Organization A

Turnover: £700m

Carbon footprint: 25,000 t/CO₂e

Forecast growth: 5%

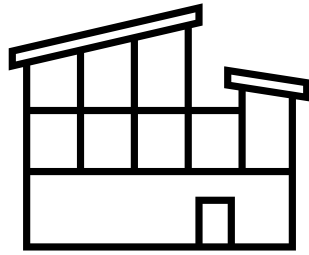


Organization B

Turnover: £700m

Carbon footprint: 25,000 t/CO₂e

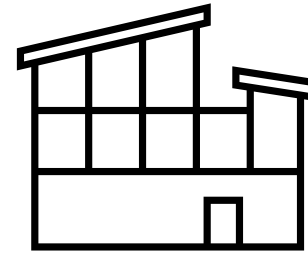
Forecast growth: 5%



Organization A

Does nothing to manage its carbon footprint

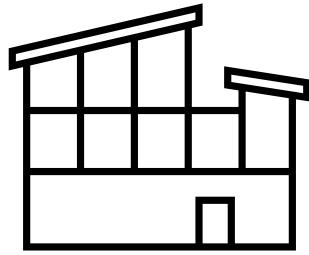
Commits to offsetting its residual emissions



Organization B

Commits to reducing their carbon footprint by 4,000 t/CO₂e per year

Commits to offsetting its residual emissions

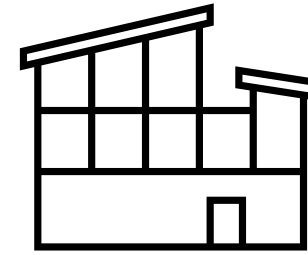


Organization A

Spend on offsets: £98m by 2022-50
Spend on reductions: £0m by 2022-50
Doesn't achieve Net Zero by 2050

Social footprint: causes £106m damage to human health and property 2022-50

Total spend: £98m by 2050



Organization B

Spend on offsets: £3.4m by 2050
Spend on reductions: £4.1m by 2050

Achieves Net Zero by 2031

Social footprint: causes £7.8m damage to human health and property

Total spend: £7.5m by 2050



It doesn't pay to be late to make the green transition

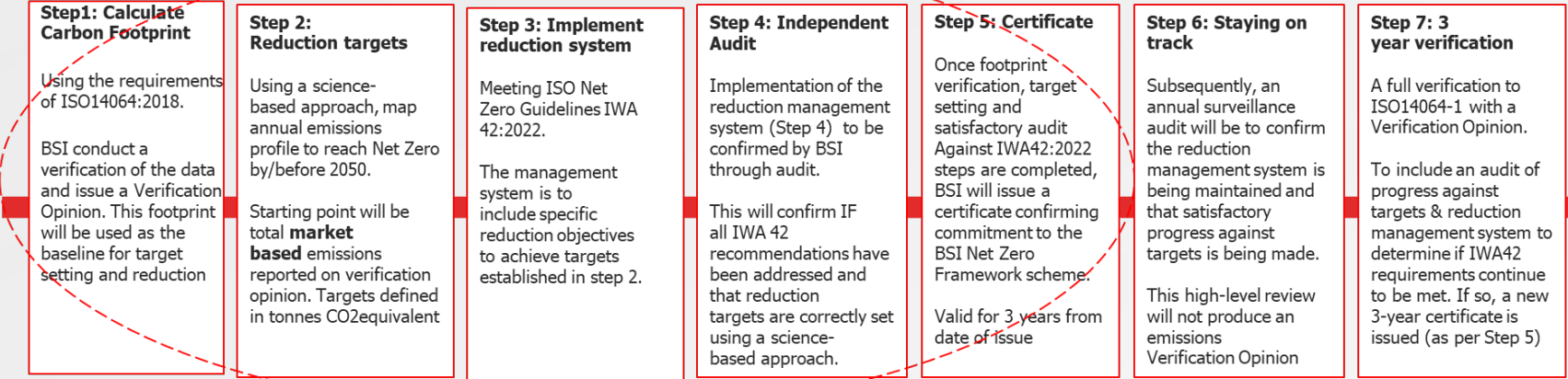


EAUC and BSI have the following aim:

To address carbon reductions through to net zero credibly for the sector through a standardised approach to target setting, and to verification to ensure accuracy and transparency:

- ✓ roll-out and use by members of the EAUC SCEF, as signatories of the Race to Zero for Universities and Colleges
- ✓ introduction to BSI's Net Zero Framework, to drive target setting and reductions (based on data verification and IWA42)
- ✓ annual audit to ensure satisfactory progress and that timeline on track
- ✓ Beginning with key pilot programmes with selected Universities to lead

What EAUC pilot members can expect



Cost / time consideration

- ISO14064 GHG data audit
- 4-20 audit days
 - £7k – 30k typ
 - AMF 1.5k – 10k*

- Net zero audit (IWA42)
- 1-4 audit days
 - £1.5-5k typ
 - AMF 1.5k – 10k*

- Net zero audit (IWA42)
- 1-4 audit days
 - £1.5-5k typ
 - AMF 1.5k – 10k*

- ISO14064 GHG data re-audit
- 4-20 audit days
 - £7k – 30k typ
 - AMF 1.5k – 10k*

- Audit days are based on:
 - Number of emission sources and sinks
 - Level of GHG Emissions tCO₂e
- Cost/time considerations are for a single site/campus; for Universities with multiple sites to include, a multiplier is applied
- ISO14064 re-audit (Step 7) is typically less in time/costs than the initial audit if no significant changes
- Discussion ongoing between BSi and EAUC about preferential rates for members

*Annual management fee (includes sign-up pledge to BSI scheme, publicity of the same and administration charges)

EAUC and BSI in partnership

Benchmarking opportunity..



How to get engaged:

- Introduction Webinar: 20 June 2023 at 1400
- EAUC Annual Conference Workshop: 27 June 2023 at 1430-1600
- Surgery Webinar: 12 July 2023 at 1400

Contact fgoodwin@eauc.org.uk to register your institution's interest