



2022-2023

SUSQI BEACON SITE RECOGNITION

Your step-by-step guide



CENTRE for
SUSTAINABLE
HEALTHCARE
inspire • empower • transform



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What is a SusQI Beacon site?



A Beacon Site is an institution or organisation that has integrated sustainability into the way they educate and train their learners/staff in Quality Improvement.

Beacon Sites have been established across the UK and the Republic of Ireland. They celebrate Sustainable Quality Improvement (SusQI) education in both postgraduate and undergraduate settings, and represent medical, nursing and AHP education.

Aspiring Beacon Site

To encourage and recognise those individuals and institutions, who are working towards the integration of SusQI, either independently, or with the support of the SusQI Academy, we are also offering Aspiring Beacon Site status.



Benefits of Beacon Site Accreditation



- Be recognised as a **leader** in the empowerment of staff, and/or students, to design and implement sustainable quality improvement and transformation
- Be **identified** as a Beacon Site on the Centre for Sustainable Healthcare's online map (susqi.org)
- Use the **Beacon Site logo** for internal and external communications and educational/training materials
- Keep **up-to-date** with news from other Beacon Sites via the quarterly e-newsletter
- Access a **discount** for staff on attendance at an annual **SusQI Showcase Event**, with the opportunity to present sustainability in QI work and exchange ideas with other Beacon Sites

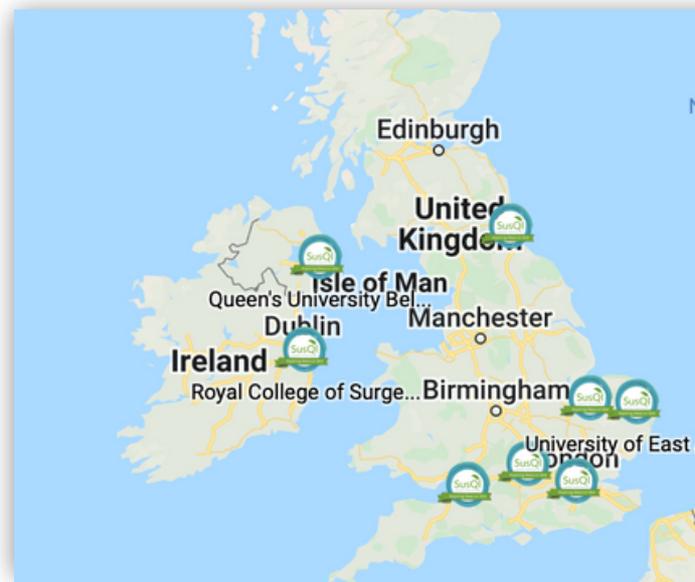
Criteria for Beacon Site Accreditation

Who can qualify as an Established Beacon Site?

Any undergraduate or postgraduate healthcare educator (medical, nursing, AHP), management or improvement lead, may register their department/course or entire institution/organisation. We welcome applications from both healthcare delivery organisations and academic institutions.

You will need to provide:

- a named contact
- details of the QI education and training that is being provided
- evidence showing how sustainability is integrated into this training
- confirmation that your SusQI lead has completed the SusQI self-assessment process



Aspiring Beacon site status

If you are working towards these criteria, either independently, or through our SusQI Academy (see next page), then you can apply for Aspiring Beacon Site status.

The full application checklist for both routes can be viewed in Appendix 1 at the end of this document.

Apply to become a Beacon Site

There is a one-off administration fee of £350 + VAT for applications for both Aspiring and Established Beacon Site status, followed by an annual retention fee of £175 + VAT

Once established as a Beacon Site, this status will be reviewed annually for the first 2 years, and 3-yearly thereafter. This is illustrated in the figure below.



Click [here](#) to apply for 'Aspiring' Beacon Site status



Healthcare Delivery Organisation
Click [here](#) to apply and submit evidence for 'Established' Beacon Site status

Academic/Education Institution
Click [here](#) to apply and submit evidence for 'Established' Beacon Site status

Support to achieve Beacon Site Accreditation

Join the CSH SusQI Academy

Membership includes:

- CSH SusQI course
- CSH Teaching SusQI course
- SusQI Educator certification
- Expert CSH Mentorship
- Exclusive access to latest discipline-specific SusQI educator materials
- Access to national SusQI Educator forums
- 50% off annual CSH SusQI showcase event

Independent route

- Gather the required evidence independently
- Open access CSH resources for teaching SusQI are available online - www.susqi.org
- Attend the CSH [SusQI course](#)

SusQI Academy Membership starts from £1950 + VAT with discounts available for group membership

[Learn more](#)

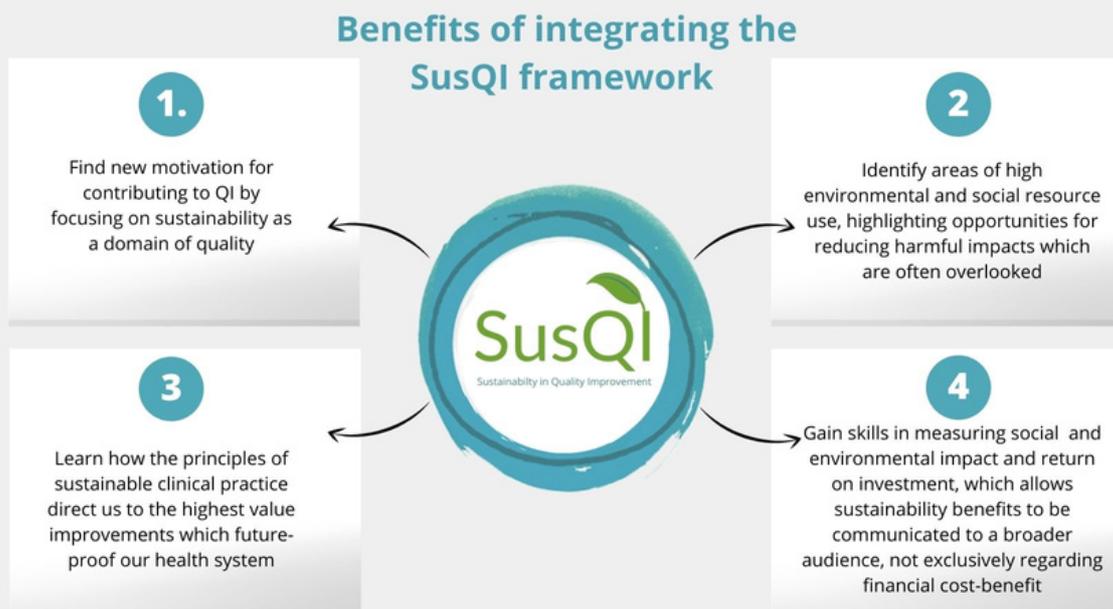
Introducing the SusQI Framework

Sustainable Quality Improvement (SusQI) recognises that there are finite environmental, social and financial resources available to deliver quality patient care.

The overall goal of SusQI is to maximise sustainable value. This means delivering the best possible health outcomes while minimising financial and environmental costs, and adding positive social value at every opportunity.

As in standard cost-benefit analysis, the concept can be expressed as an equation - see below.

$$\text{SUSTAINABLE VALUE} = \frac{\text{OUTCOME FOR PATIENTS AND POPULATIONS}}{\text{ENVIRONMENTAL + SOCIAL + FINANCIAL IMPACTS (THE 'TRIPLE BOTTOM LINE')}}$$



Benefits of integrating the SusQI Framework

“This framework has radically altered how I approach quality improvement, in how I deliver quality improvement to the students I teach, in my own practice and in how I appraise the work of others”

- Noreen Ryan, Domain Lead for Quality Healthcare, Imperial College London School of Medicine

“Made me more passionate to make a change”

- Student at KCL Florence Nightingale Faculty of Nursing, Midwifery & Palliative care, 2021-2022

"SusQI projects are a great way of team building and putting a spring in the step of the people we work with and give treatment to."

- Mark Wright, Consultant Nephrologist and Haemodialysis Lead at Leeds Teaching Hospitals NHS Trust, July 2022

"SusQI has a transformative impact that guides daily professional practice beyond learning about QI through the development of a sustainability 'lens'"

"SusQI engages and motivates learners to contribute to the creation of a sustainable healthcare system and is time well spent."

ij Spooner, R., Stanford, V., Parslow-Williams, S., Mortimer, F., Leedham-Green, K. "Concrete ways we can make a difference": A multi-centre, multi-professional evaluation of sustainability in quality improvement education, Medical Teacher (2022)

SusQI in practice

Example 1



Early Mobilisation in Cardiac Intensive Care

This pioneering project in a Southampton Cardiac Intensive Care Unit (CICU) aimed to improve both patient and service outcomes



Reduced ventilation days by 4 days
Reduced overall cardiac intensive care stay by 6 days



Total savings of £1,266,327 over 2 years



Total savings of 48.5 tonnes CO₂e over 2 years



More rapid recovery, quicker discharge and return to ADLs
Patients having more autonomy during their hospital stay
Increased staff satisfaction

SusQI in practice

Example 2



Reducing duplicate medication ordering

This project in Southampton aimed to reduce the amount of wasted and disposed medication



Reduce potential drug errors



Annual savings of £26,000



Annual savings of 11,180 kg CO₂e
↓ Waiting time for patients receiving medications



↑ Staff time

SusQI in practice

Example 3



Reducing unnecessary cannulation in ED

This project focused on reducing unnecessary cannulation in the emergency department, and won the Royal Devon and Exeter 2018 Green Ward Competition.



Reduced infection risk
Less inappropriate IV fluid use



Annual savings £27,831



Annual savings 8,403 kg CO₂e



Patients ↑mobility/independence, ↓pain
Staff ↑time, improved work flow

Appendix 1

Evidence to collect - Academic/Education Institution

Application is via [our online form](#)

Academic/Education Institution (eg. university, Royal College, QI education provider (AQUA etc)	
Please apply via our online form. <u>You</u> will be asked to fill in the information below.	
Domain	Information/evidence required
Contact details	Named SusQI Lead(s), email address, role Has your SusQI lead completed the SusQI Educator self-assessment process? (See appendix 3a and b) Yes/No Do you have institutional or leadership support for applying to become a SusQI Beacon Site. Please note the required permissions should be decided on and confirmed by the applicant? Yes/No
Degree/Course details	Name of each module/course where SusQI has been taught Number of students in cohort Format of teaching (eg. lecture, workshop) Do students have to do/contribute to a SusQI project? Yes: No:
SusQI content in training	Have you written a learning outcome for SusQI learning? {upload evidence}
	Have you given an overview of the principles of sustainable healthcare? (yes/no)
	Have you provided a definition of SusQI and the triple bottom line? (yes/no)
	Have you provided an overview of the 4-step SusQI framework? (yes/no)
	Have you outlined how to recognise environmental, social and financial resource use (eg. process mapping/ awareness of carbon hotspots)? (yes/no)
	Have you outlined how to design a change idea using the principles of sustainable healthcare to maximise sustainable value? (yes/no)
	Have you outlined how to measure environmental, social and financial impacts of a change idea, including how to find and collect data? (yes/no)
	Have you provided worked examples of SusQI in practice? (yes/no)
	Have you provided resources for further learning, eg susqi.org? (yes/no)
	Have you added SusQI in project planning/development tools, or into assessment? {upload evidence}
Payment	Name and email address of person to invoice, with responsibility for payment

Appendix 2

Evidence to collect - Healthcare delivery organisation

Application is via our [online form](#)

Healthcare delivery organisation Please apply via our online form . You will be asked to fill in the information below.	
Domain	Information/evidence required
Contact details	Named SusQI Lead(s), email address, role Has your SusQI lead completed the SusQI Educator self-assessment process? (See Appendix 3a and b) Yes/No Do you have institutional or leadership support for applying to become a SusQI Beacon Site. Please note the required permissions should be decided on and confirmed by the applicant? Yes/No
Course/training details	Name of each course/training package where SusQI has been taught Number of courses per year and number of participants (approx) Format of training (eg. online workshop)
SusQI in practice (optional)	Have you embedded SusQI into the practice of QI at the institution/organisation level? How? (e.g integrated into: project frameworks, organisational definition of QI, Green Plan, strategic objectives, QI awards, flagship QI programmes)
SusQI content in training	Have you given an overview of the principles of sustainable healthcare? (yes/no)
	Have you provided a definition of SusQI and the triple bottom line? (yes/no)
	Have you outlined how to recognise environmental, social and financial resource use (eg. process mapping/ awareness of carbon hotspots)? (yes/no)
	Have you outlined how to design a change idea using the principles of sustainable healthcare to maximise sustainable value? (yes/no)
	Have you outlined how to measure environmental, social and financial impacts of a change idea, including how to find and collect data? (yes/no)
	Have you provided worked examples of SusQI in practice? (yes/no)
	Have you provided resources for further learning, eg susqi.org? (yes/no)
	Have you added SusQI in project planning/development tools? (Upload evidence) If no, why not:
Payment	Name and email address of person to invoice, with responsibility for payment

Appendix 3a

SusQI Teaching Competencies

Self Assessment Tool [available here](#)

SusQI knowledge: background, principles and concepts	I feel confident to teach this to others	I understand this, but do not yet feel confident to teach others	I need to revisit this learning before teaching others
Sustainability in the wider context, including UN climate change goals (e.g. Paris Agreement) and NHS Net Zero targets			
The environmental impact of the healthcare system, including carbon hotspots			
Definition of carbon footprint, including Scopes 1-3			
The definition of sustainability and how it applies to healthcare			
The four principles of sustainable healthcare including examples of each			
The triple bottom line including how to apply it to one example			
Sustainability as a domain of quality			
The four steps of the QI framework, including examples of how sustainability adds value at each step			
SusQI in practice: real case studies			
SusQI knowledge: skills needed for SusQI steps	I feel confident to teach this to others	I understand this, but do not yet feel confident to teach others	I need to revisit this learning before teaching others
Setting Goals: identification and definition of a problem (eg. ABCD approach)			
Studying the System -The process map in SusQI: identifying social, environmental and financial resource use in a pathway -Conducting a calculation of a simple carbon footprint, including how to collect and identify data (eg. carbon emissions, units of healthcare activity) -Identifying the social impacts of a process of pathway on patients & their relatives, staff, the wider community and vulnerable groups			
Design the Improvement -Methods for generating ideas for improvement, including the driver diagram of the principles of sustainable healthcare -Describing how addressing various social determinants of health can generate a high-impact intervention			
Measuring impact -Approach to collecting baseline and post-intervention data for social, environmental and financial outcomes -Use the triple bottom line to summarise or present intervention outcomes			

Appendix 3b

SusQI Teaching Competencies
Self Assessment Tool [available here](#)

Key skills for facilitating	I feel confident to do this	I need to work on this
Create a safe learning environment		
Encourage active participation and learner engagement		
Manage group interaction, including encouraging inclusive participation and responding to moments of tension or conflict		
Build relationships with participants, including awareness of different personality or communication types (eg. those who dominate conversations)		
Facilitate discussion and other exchanges, including: <ul style="list-style-type: none">○ Clarifying questions○ Opening, linking or broadening discussion inputs○ Probing or challenging when appropriate○ Closing down discussion○ Summarising learned points		

About the Centre for Sustainable Healthcare

INSPIRE EMPOWER TRANSFORM

The Centre for Sustainable Healthcare supports the healthcare sector to lead and model climate action. This includes rapid decarbonisation of the health system and development of climate resilient health services with improved connections to green space.

We are well known for work on sustainable healthcare in research and practice, and provide strategic input and consultancy to national and local programmes.

Our Sustainable Specialties Programme is designed to mainstream sustainability within clinical areas so that it is integral to the planning of health systems and the practice of healthcare professionals. This is supported by our work in medical education and in carbon modelling of clinical care.

Our greenspace projects, especially the NHS Forest, assist organisations to improve their natural environment and reconnect their staff, patients and the wider community with their local greenspace to benefit their health.

Our work is guided by the principles of sustainable clinical practice:

- ▶ Prevention
- ▶ Patient empowerment and self care
- ▶ Lean systems
- ▶ Low carbon alternatives