

Introduction

Empowering the Future: YESC's Impact on Scotland's STEM Education

With Scottish Government and industry support, Young Engineers and Science Clubs (YESC) have been shaping Scotland's educational landscape since 1987. Since then we have collaborated with 1750 schools and STEM clubs across all 32 local authorities, bridging the gap in STEM skills and inspiring the next generation.









The invaluable support from the Scottish Government has been pivotal in executing STEM and Digital Learning and Teaching strategies. Partnering with industry leaders like BP, EngineeringUK, HCI Skills Gateway, Shell U.K. Limited, and Wood, YESC has enthused young minds, highlighting the boundless opportunities within these sectors, and supported informed decisions to pursue STEM subjects – the foundation of Scotland's future talent pipeline needed to unlock our economy and clean growth ambitions.



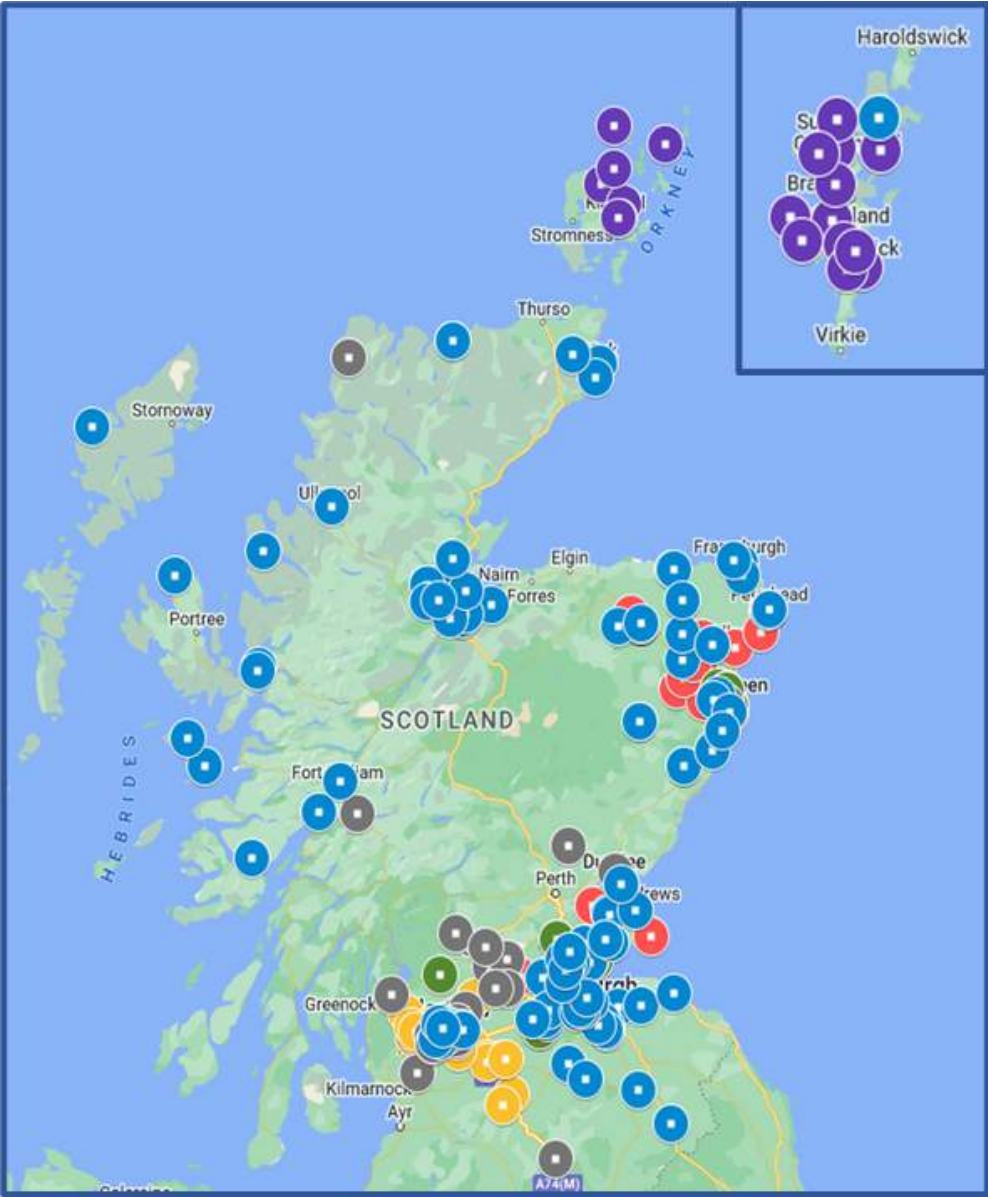
Progress with Targets

TARGET

OUTCOME

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| 1 Distribute over 150 STEM resource kits and work with around 300 schools throughout the 2022-23 academic year. |  | Distributed 301 STEM kits to 233 schools and welcomed 41 new schools to our network. Worked in a meaningful way with 248 unique schools - 10% of all schools in Scotland |
| 2 Expansion and update of two projects with sustainability and digital skills at their core (Climate Smarter and Code vs Climate). |  | Climate Smarter delivered in 104 schools reaching 3850 pupils Code vs Climate delivered in 16 schools to 500 pupils. |
| 3 Develop and launch a new project, 'Carbon Capture and Storage', to with funding support from SHELL U.K. Limited. |  | Project delivered to 57 schools and CPD training provided to 71 teachers. Additional kits were distributed to partner organisations, expanding community engagement. |
| 4 Deliver a series of Celebration of Engineering events across Scotland |  | Hosted 7 Celebration of STEM events fostering connections between 82 companies, 218 industry volunteers and the future innovators of our nation from 55 schools |
| 5 Deliver over 30 secondary school workshops aimed at increasing diversity and careers awareness within the engineering sector through the Energy Quest programme. |  | 38 sessions delivered - reaching a total of 1815 pupils. 77% of these sessions took place in schools that met our Equality, Diversity and Inclusion criteria. |
| 6 Continue national delivery of the EEP Robotics Competition with a target to engage 50 secondary schools across Scotland. |  | 34 schools actively took part in the program, with 13 of them meeting our Equality, Diversity, and Inclusion criteria. |
| 7 Continue work with our industry partners to give pupils and teachers an insight into the world of work. |  | 268 industry volunteers from 82 companies attended our celebration events - a 265% increase from last year. |
| 8 Target projects and work on engaging those currently under-represented in engineering - specifically females and those from geographically remote or deprived communities. |  | We worked with 248 unique schools: <ul style="list-style-type: none">• 68.5% (170) of these schools were in the top 25% most deprived regions or with the highest black and minority ethnic pupil percentages or free school meal recipients or those classed as remote / rural |

2022-23 YESC school projects and events



- Code Vs Climate
- EEP Robotics Challenge
- Climate Smarter
- Carbon Capture and Storage
- Energy Quest
- Pylon Challenge

To find out how you can support our work:

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View our full report

<https://www.scdi.org.uk/yesc/>

Lead Partners



Project/Event partners

