- This deck is an expanded version of the slides presented by EngineeringUK and Enginuity as a Code webinar on 08 Feb 2023
- It provides additional content not covered in the webinar due to time constraints

• All additional slides are indicated as follows:





Environmental Sustainability

Using it to inspire young people into engineering & technology









Who and what this document is for

- To support practitioners (experienced and novice) designing and delivering STEM engagements for young people of secondary school age.
- To show how "environmental sustainability" can be used to inspire more young people to consider a career in engineering.







- 1. What is "environmental sustainability"?
- 2. Why use env. sustainability to inspire young people into engineering & tech?
- 3. How to use env. sustainability to inspire young people into eng/tech
- 4. Enginuity
- 5. Engagement delivery
- 6. Further resources



1. What is "environmental sustainability"?

And what it's not

Environmental sustainability is about:

- "living within our means" or
- "living within planetary boundaries"

so that future generations will inherit a planet which is no worse (or better) than today's.

<u>Social</u> sustainability covers: poverty, hunger, health, equality, etc.

They're linked!

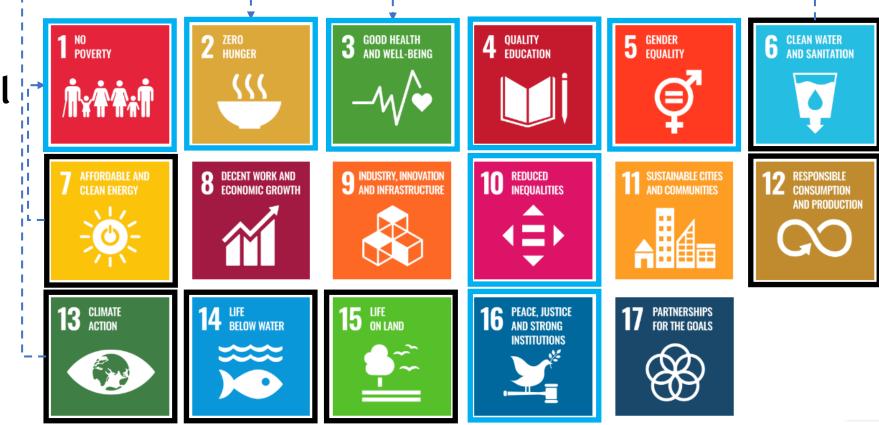


1. What is "environmental sustainability"?

The UN's Sustainable Development Goals

Third are related to **environmental** sustainability,

half relate to **social** issues







- 1. What is "environmental sustainability"?
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...to inspire young people?

Research shows us that:

- Young people care about the environment, more than adults (A)
- It's one of young people's major concerns (B,C,D)
- They often choose it for project-work ^(E)





Much

evidence

 $\mathbf{\nabla}$



...to inspire young people?

Research shows us that:

 Young people agree that engineers are important for improving "the environment" (F) - but in which fields?

Some evidence





But...

Research also shows us that:

- Many young people suffer from "eco-anxiety" (G,H,I,J)
- Young people don't link climate change to: (K)
 - engineering solutions; and therefore (maybe) to
 - a career in engineering
- Young people struggle to match ES solutions to ES problems ^(N)





Finally...

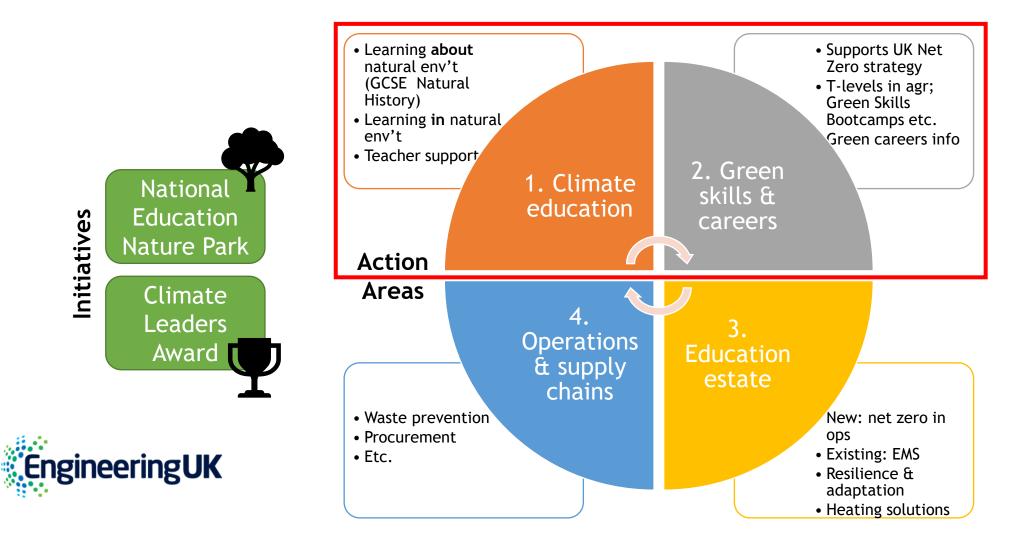
Research shows us that:

- People hear more about negative impacts of climate change than about progress ^(M)
- People have more faith in technology to provide solutions than in business or government ^(M)





Support DfE Sustainability and climate change strategy (April 2022)

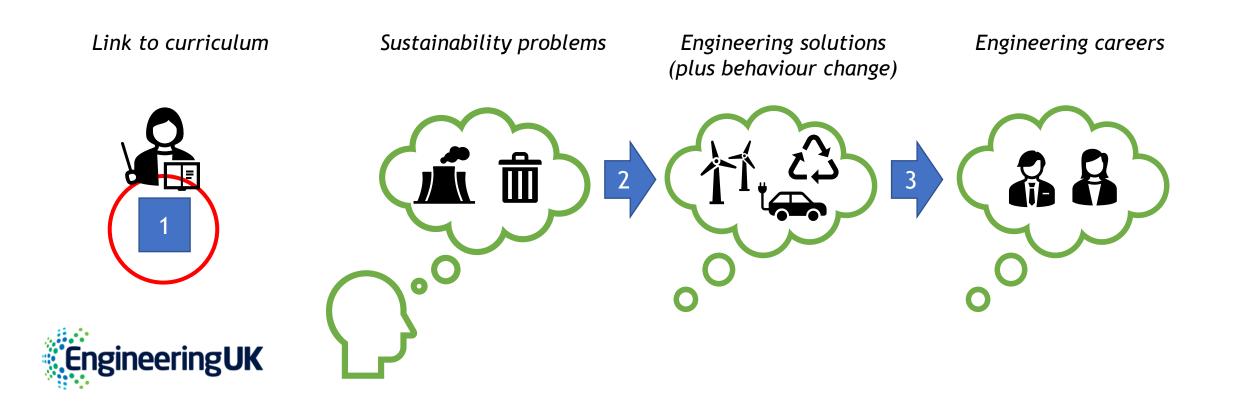




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Show people the links





Step 1: Link sustainability problems to the curriculum

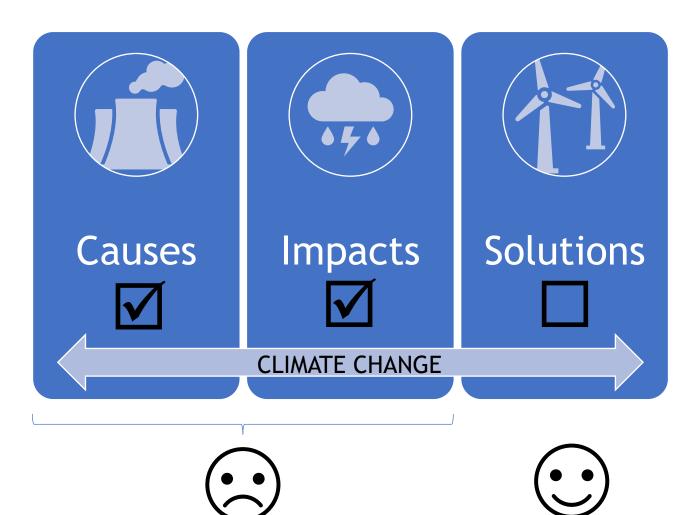
	Key Stage 3 (Age 11-14; Yrs 7,8,9)	Key Stage 4 / GCSE (Age 14-16; Yrs 10,11)			
Biology	• Adaptation of species to changes in environment; biodiversity	 Importance of biodiversity; human interaction w/ ecosystems The carbon cycle 			
Chemistry	 Resources & recycling Production of CO2 by humans & impact on climate Evels and energy resources 	 Evidence for anthropogenic causes of climate change Effects of increased levels of CO2 CH4 / mitigation Atmospheric pollutants Obtaining potable water 			
Physics	Fuels and energy resources Journal Control of Social Soc	 Renewable / non-renewable energy sources Trends in the use of energy resources 			
<u>Geography</u>	 Weather & climate; change in climate; use of natural resources How humans change climate 	 Causes, consequences of and responses to extreme weather conditions Characteristics of climate change, evidence for different causes 			
Design & Technology	 Investigate new and emerging technologies Understand impact on individuals, society and the environme 	 Be aware of environmental and economic factors The impact of new and emerging technologies on sustainability and the environment 			



Step 1: Link sustainability problems to the curriculum

• Curriculum last updated 2014

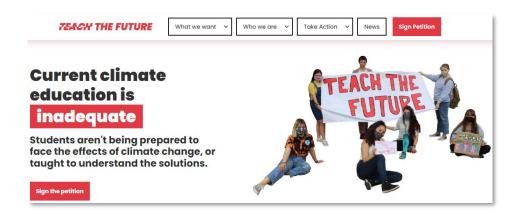






Step 1: Link sustainability problems to the curriculum

- Some stakeholders want more climate change in the curriculum:
 - DfE (Sustainability and Climate Change Strategy, 2022)
 - Teach the Future
 - National Climate Education Action Plan



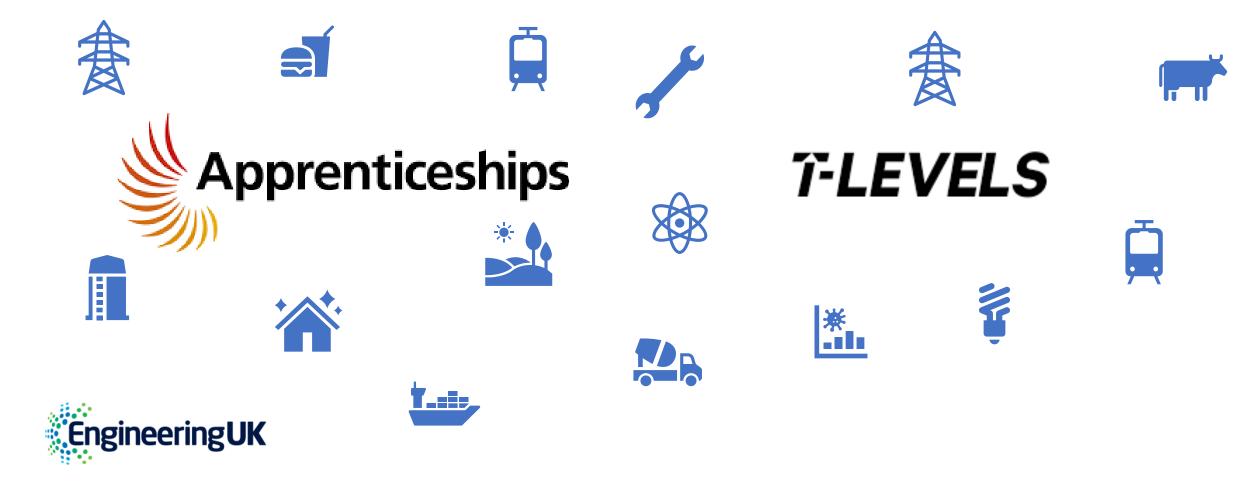


"...will enable young people to explore the world by learning about organisms and environments, environmental and sustainability issues, and gain a deeper knowledge of the natural world..." Source: GOV.UK

UK to lead the way in climate and sustainability education - GOV.UK (www.gov.uk)

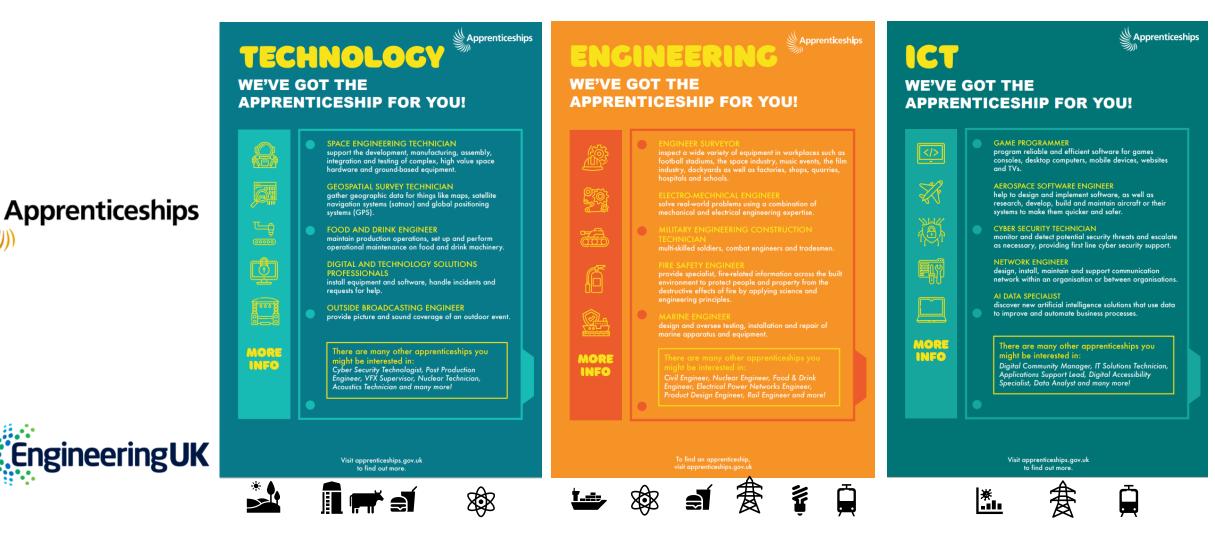


Step 1: Link sustainability problems to the curriculum





Step 1: Link sustainability problems to the curriculum





Step 1: Link sustainability problems to the curriculum

T-levels	Core Content / Options			
Building Services Engineering	 sustainability and the environmental impact of construction heating engineering and ventilation refrigeration engineering and air conditioning engineering 			
Design, Surveying and Planning for Construction	 sustainability and the environmental impact of construction 			
Onsite Construction	 sustainability and the environmental impact of construction 			
Design and Development for Engineering and Manufacturing	materials and their propertiesstructural engineering			

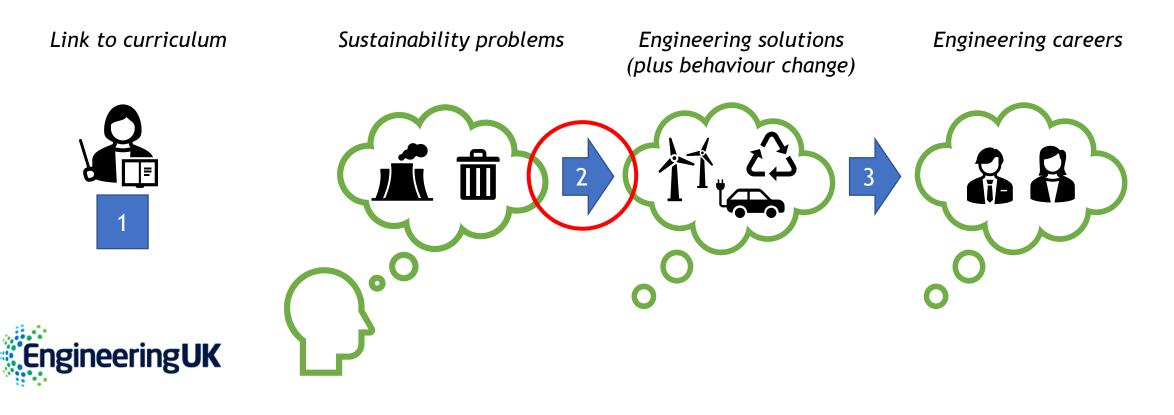


T-LEVELS



Step 2: Link sustainability problems to eng/tech solutions

• Show young people the links:



Step 2: Link sustainability problems to eng/tech solutions

Sustainability problems





Problem	UN SDG
Climate change	7 AFFORMATIE AND CLEAN DERRY CONTACTOR 13 ACTION
Waste	12 REPORTER
Air quality	3 GOOD HEALTH AND WELL-BEING -///
Freshwater	6 CLEAN WATER AND SANITATION
Natural resource depletion	12 RESPONSE AND PRODUCTION
(Biodiversity loss)	14 LIFE TO THE TRADE

Different issues will appeal to different young people



Step 2: Link sustainability problems to eng/tech solutions

Transportation

Engineering solutions (plus behaviour change)



Electric vehicles, charging networks	Rail electrification	Electric planes, Sustainable Aviation Fuel	Electric shipping & ports, alternative fuels	Increased cycling and walking (town planning)
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Different sectors will appeal to different young people







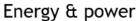


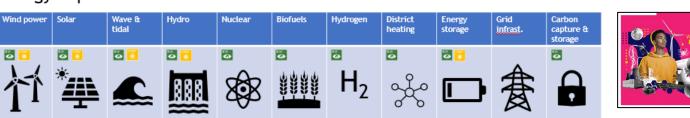
Step 2: Link sustainability problems to eng/tech solutions

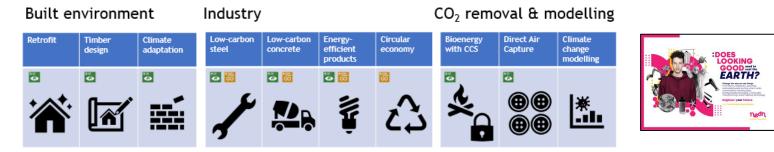
Engineering solutions (plus behaviour change)











Agriculture & food Materials, Waste, Water & Air Methane Meat Biodiversity Plastic Recycling * Anaerobio Fresh water Air quality Reduced incl. vertical | reduction alternatives monitoring alternatives digestion supply food waste 0 • • 5 ┝₩₩₽

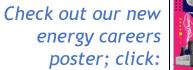


Different sectors will appeal to different young people

Step 2: Link sustainability problems to eng/tech solutions

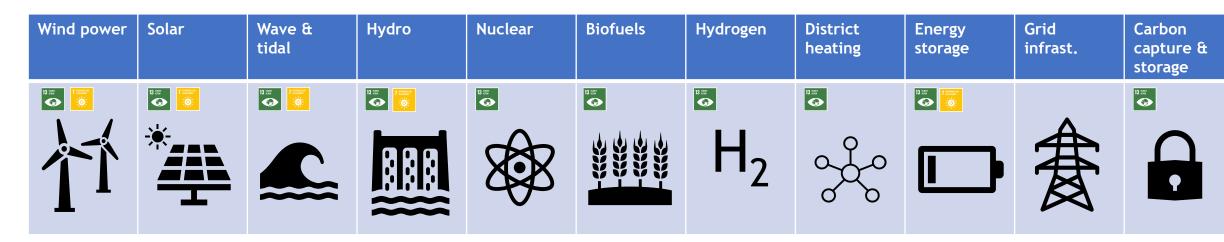
Energy & power

Different sectors will appeal to different young people











istainability problem

Step 2: Link sustainability problems to eng/tech solutions

Built environment

Timber

design

13 255 13 255 Climate

13 🛤

adaptation

Retrofit

13 255 Cor Industry

Low-carbon

steel

13 2000 13 2000 12 2000 Low-carbon

concrete

CO₂ removal & modelling

Direct Air

Capture

13 IM 13 PM

Bioenergy

with CCS

13 255 13 255

Circular

economy

	y C	Ŷ	23		∦

Energyefficient

products

Different sectors will appeal to different young people



Check out our new fashion & materials careers poster; click:





13 CLIMATE ACTION

Climate

change

modelling

istainability problem

12 RESPONSIBLE CONSUMPTION

AND PRODUCTION

Step 2: Link problems to eng/tech solutions



tainability problem

Agriculture & food

Materials, Waste, Water & Air



Different sectors will appeal to different young people



* Right to Repair Regulations, Sept 2021

Check out our new food & farming careers poster; click:





Step 2: Link sustainability problems to eng/tech solutions

Key points to make:

- Solutions to environmental problems exist and (many) are eng/tech-based
- A career in engineering can provide a practical contribution
- Work in any area/sector that interests you (highlight local opportunities)

Key point **<u>not</u>** to make:

• Climate change is a challenge for your generation to solve







Avoid "green-washing*"

- Measure the impact: "8% less PM10s", "Reduced by 1.5 t carbon"
- Provide context: "This compares with..."
- Use clear language: "Greener", "more sustainable" **



* The act or practice of making a product, policy, activity, etc. appear to be more environmentally friendly or less environmentally damaging than it really is

** An activity is either sustainable or it isn't - think of commercial fishing

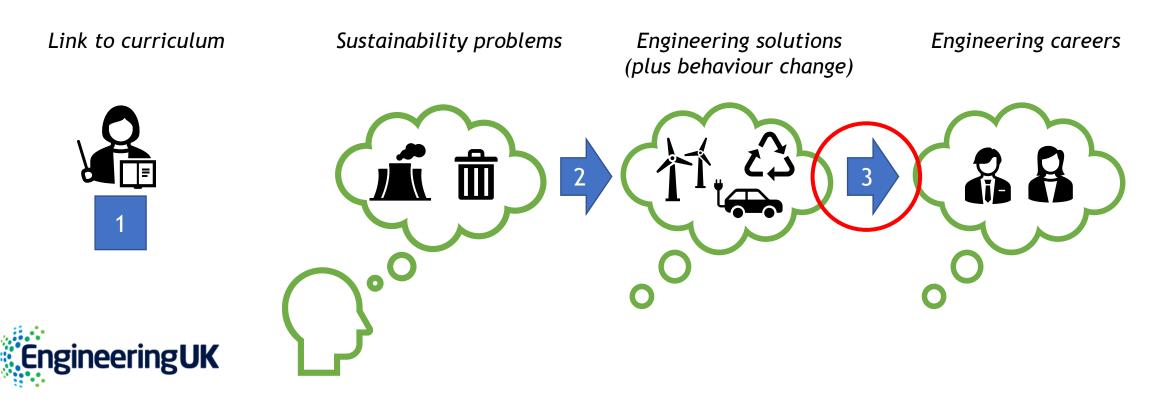
- YOUR THOUGHTS -

 How engagement supports curriculum or
 Linking environmental problems to eng/tech solutions



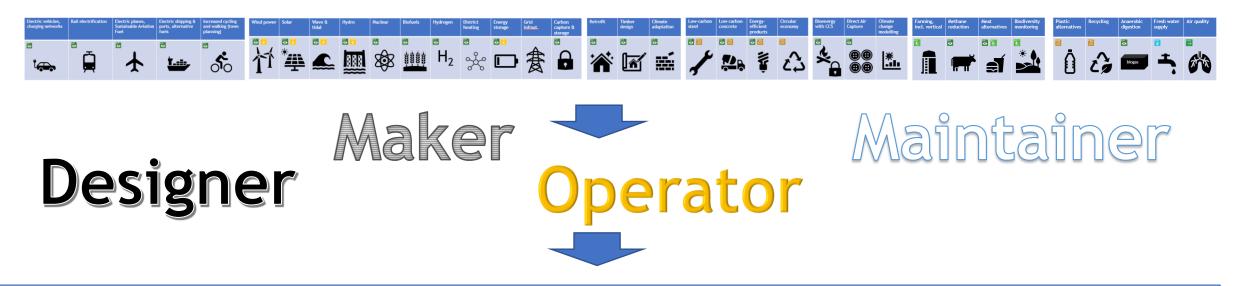
Step 3: Link eng/tech solutions to eng/tech careers

• Show young people the links:





Step 3: Link eng/tech solutions to eng/tech careers



Agricultural / Chemical / Civil / Electrical / Marine / Mechanical / Structural / etc.





Check out our careers quiz; just click:

Meet the future you

Step 3: Link eng/tech solutions to eng/tech careers

Provide examples of specific STEM jobs that support environmental sustainability, using different sectors

"Designer of more efficient wind turbines" "Climate change modeller" "Maker of low-energy TVs" "Operator of EV-charging networks" "Building energy manager"

Careers ideas: just click:

Engineering careers

Engineering solutions

(plus behaviour change



Provide examples of real people who do these types of jobs



● VIDEO CASE STUDY

Getting rid of plastic

Environmental engineer Serena Cunsolo is trying to stop microplastics from entering the ocean



() VIDEO CASE STUDY

Making carbon neutral aircraft a reality

Nathanael West works at Hybrid Air Vehicles who are producing the Airlander, the first zero carbon aircraft.



VIDEO CASE STUDY Net zero farming through engineering

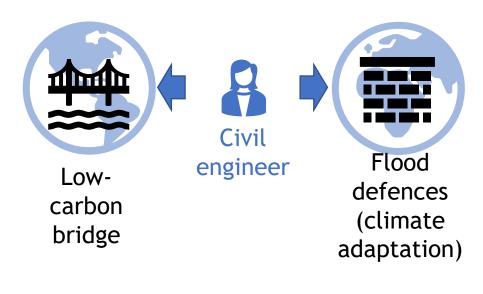
Charlotte Bugden is an apprentice at Bicton College and works on her family farm as well as studying - she is dedicated to making sure that the future of the farm is net zero.



Check out these ^^^ case studies; just click

Step 3: Link eng/tech solutions to eng/tech careers

Skills/jobs are transferable





They're in demand

EV Electrician

Salary: £37,500 - £43,000/annum Location: Notlingham Job Type: Permanent

Automotive Design Engineer Posted 3-days age by Perpetual Digmeeting Pertembers United Solary: 443,000 - 445,000 amount Locator: Bedford gol Type: Permanent

Site Engineer - Rail Pasited 5 days age by Oper & Buller & Featured pth Location: CT19, Shorneliffe Camp, Kent job Type: Permanent

Wind Turbine Technician

Pestad 06/10/2022 by ENERCON Services OK Ltd. **6** Quick apply Locations: HS1, Stormoway, Elean Star (00 Type: Permanent

Wind Turbine Project Manager

Solary: £40,000/annum Location: Wadebridge, Conwall job Type: Permanent

Commissioning Engineer - offshore wind farm

Posted a week ago by SAVR Recruitment Location: Montrose, Angus Job Type: Contract

Solar PV Design Engineer Petted 3 Gep age to James King & Dack appy Salary: £12,000 - £40,000/Jamesm Bonus + Excellent Benefits Location: Glasgow Job Type: Permanent

Project Engineer - Solar Farm

Salary: £40,000 - £45,000/annum Location: London Job Type: Permanent

Nuclear Engineer

Roted a week ago by Cubic Recruitment Salary: £30,000 - £48,000/annum Location: M60 Job Type: Permanent

Hydrogen Design Engineer Hydrod 12/10/2021 by Yreo James Retrictment Salary: £15,000 - £45,000 tamum Location: Sunderland, Tyme & Wear job Troje: Remained

Battery Engineer

Salary: £28,000 - £32,000/anv Location: Slough Job Type: Permanent

Senior Grid Engine

Posted a week ago by Actube Techn Salary: 645,000 - 655,000/anv Location: Scotland job Type: Permanent

Lead Developmen Dioxide Storage

Possed 12/10/2022 by Carminach I Location: Aberdeen Job Type: Permanent

Lead Maintenance Digestion

Postel 2 Geyn ago by Adust Techni Salary: £45,000 - £50,000/ann Location: Croydon, London Job Type: Permanent

Retrofit Coordinat

Potenic 2 weeks apo by trSTR Ltd Salary: £40,000 - £45,000/anv Location: London

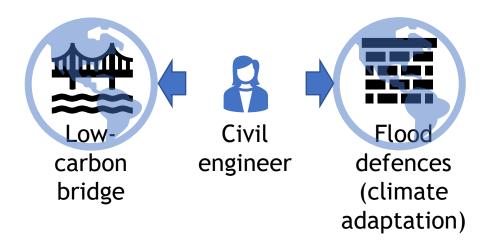
Engineering solutions Engineering careers (plus behaviour change)

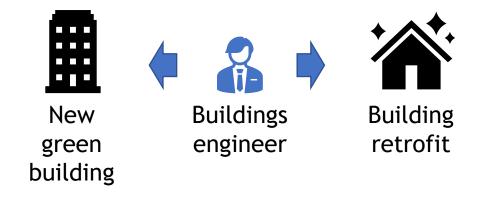
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Step 3: Link eng/tech solutions to eng/tech careers

Skills/jobs are transferable





Engineering solutions

(plus behaviour change

Engineering careers



Engineering solutions Engineering careers (plus behaviour change)



Step 3: Link eng/tech solutions to eng/tech careers

EV Electrician

Posted a week ago by Windmill Recruitment Ltd

Salary: £37,500 - £43,000/annum Location: Nottingham Job Type: Permanent

Automotive Design Engineer

Posted 3 days ago by Perpetual Engineering Partnerships Limited Salary: £43,000 - £45,000/annum Location: Bedford Job Type: Permanent

Site Engineer - Rail

Posted 5 days ago by Dyer & Butler ★ Featured job Location: CT19, Shorncliffe Camp, Kent Job Type: Permanent

Wind Turbine Technician

Posted 06/10/2022 by ENERCON Services UK Ltd **O**Quick apply Location: HS1, Stornoway, Eilean Siar Job Type: Permanent

Wind Turbine Project Manager

Posted 07/10/2022 by Gold Group Salary: £40,000/annum Location: Wadebridge, Cornwall Job Type: Permanent



Commissioning Engineer - offshore wind

farm

Posted a week ago by NAYR Recruitment Location: Montrose, Angus Job Type: Contract

Solar PV Design Engineer

Posted 3 days ago by Jarvis King Quick apply Salary: £32,000 - £40,000/annum Bonus + Excellent Benefits Location: Glasgow Job Type: Permanent

Project Engineer - Solar Farm

Posted 14/10/2022 by People Group Limited Salary: £40,000 - £45,000/annum Location: London Job Type: Permanent

Nuclear Engineer

Posted a week ago by Cubiq Recruitment Salary: £30,000 - £40,000/annum Location: M60 Job Type: Permanent

Hydrogen Design Engineer

Posted 12/10/2022 by Theo James Recruitment

Salary: £35,000 - £45,000/annum Location: Sunderland, Tyne & Wear Job Type: Permanent

Principal Mechanical Engineer - District Heating

Posted a week ago by Parkinson Gray Associates Salary: £60,000 - £70,000/annum Excellent benefits and bonus Location: Nottinghamshire Job Type: Permanent

Battery Engineer

Posted 11/10/2022 by First Military Recruitment Ltd

Salary: £28,000 - £32,000/annum + Company Vehicle and tools Location: Slough Job Type: Permanent

Senior Grid Engineer

Posted a week ago by Astute Technical Recruitment Ltd A Remote job Salary: £45,000 - £55,000/annum + benefits Location: Scotland Job Type: Permanent

Lead Development Engineer - Carbon Dioxide Storage

Posted 14/10/2022 by Cammach Bryant Location: Aberdeen Job Type: Permanent

Lead Maintenance Technician - Anaerobic

Digestion Posted 2 days ago by Astute Technical Recruitment Ltd

Salary: £45,000 - £50,000/annum Location: Croydon, London Job Type: Permanent

Retrofit Coordinator

Posted 2 weeks ago by NSTR Ltd 🛛 👘 Remote job

Salary: **£40,000 - £45,000/annum** Location: **London** Job Type: **Permanent**

Electrical Engineer - Energy Efficiency Posted 6 days ago by Rise Technical Recruitment

Salary: £32,000 - £52,000/annum Bonus + Progression + Holidays Location: Dudley, West Midlands Job Type: Permanent

Source: <u>www.engineeringjobs.co.uk</u> 03-Nov 2022

Mechanical Engineer - Energy Efficiency

Posted 6 days ago by Rise Technical Recruitment

Salary: £32,000 - £52,000/annum Bonus + Progression + Holidays Location: Dudley, West Midlands Job Type: Permanent

Senior Energy Engineer

Posted 6 days ago by Stride Salary: £50,000 - £55,000/annum + Benefits Location: Stevenage, Hertfordshire Job Type: Permanent

Senior Low Carbon Consultant / Building Physics Engineer

Posted 19/10/2022 by Konker Recruitment Salary: £50,000 - £70,000/annum Circa £55,000 Location: Birmingham Job Type: Permanent

Engineered Timber Designer

Posted 12/10/2022 by KBB Recruitment Location: Cardiff, South Glamorgan Job Type: Permanent

Electrical Technician - Recycling

Posted 14/10/2022 by Alecto Recruitment

Salary: £40,000 - £43,000/annum + Benefits Location: Horsham, West Sussex Job Type: Permanent

Engineering Supervisor - Waste and recycling

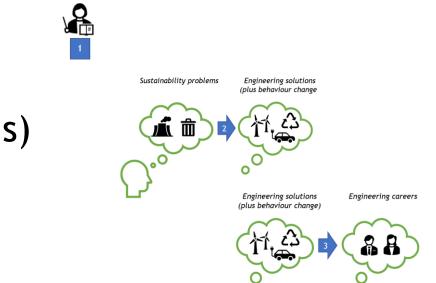
Posted 6 days ago by Red Kite Recruitment Group 🔺 Featured job

Salary: £36,000/annum Pension and Bonus Location: Nottingham, Nottinghamshire Job Type: Permanent

3. How to use environmental sustainability

Summary

- 1. Link to the curriculum
- 2. Identify a clear environmental problem(s)
- 3. Show the engineering solution





3. Examples



Neon

- Existing green-themed • 'experiences':
 - 'Net Zero Challenge' here •
 - 'Drax in the classroom' here •

each Net Zero

'Eco factory' here ٠

COMPETITION **Net Zero Challenge** A project-based activity for students to help their community 0 Ages 11 to 21 Online 📋 24 March 2021 to 31 December 2022 Flexible project work E Free Run by EDF WORKSHOP Drax in the classroom from biomace and are develo -(c) Ages 11 to 21 Online 5 October 2021 to 31 December 2022 Up to an hour (Free Run by Drax. WORKSHOP **ECO factory** I make your products and factory truly sustainable and G Ages 11 to 21 In-school 1 July 2022 to 1 July 2023 Full day Cost applies Run by Hartlepool College of Further Education ¥ 🖬 🛅

(Correct as of October 2022)



3. How to use environmental sustainability



Example: EDF's Net Zero Challenge

Student section

The Net Zero Challenge

Teacher section

Curriculum links

The Net Zero Challenge supports curriculum learning for 11-14s in the following areas:

Sepr

Science: Working scientifically; Physics (energy); Planet Earth (Scotland); Topical science (Scotland) Geography / Social Studies: Human geography; People, place and environment (Scotland) PSHE: Living in the wider world Technologies (Scotland): Technological developments in society and business



What is Net Zero – and why is it important?

Climate change is the biggest issue your generation faces. It's widely believed that if we can achieve Net Zero carbon emissions - so the amount of carbon we put into the atmosphere is equivalent to the amount we take out (also known as 'offset') we stand a chance of slowing down its effects.

Some possibilities include:







Careers in the 'green recovery'

Want a job helping to tackle one of the biggest issues our planet has ever faced? Everyone working on Net Zero Leiston is committed to helping Britain achieve Net Zero. So-called 'green industries' or working in the 'green recovery'

(roles that are helping Britain get back on its feel after the Covid-19 pandemic) offer a huge range of jobs and opportunities for anyone interested in pursuing a rewardin and fulfilling career.



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Skills Miner game development

February 2023

Enginuity

Commercial in Confidence

Why sustainability?

- Enginuity believe that one Engineer can change their world and ours
- Enginuity believe that Engineering is part of everything in the world around us
- Global research shows that younger generations are more concerned with environmental and health issues than older generations
- AND are more likely to want to make changes that bring about meaningful environmental change



Our research with schools

Our research with teachers found that:

- Teachers are time poor and under pressure to teach to the curriculum
- 2. This is especially true for STEM teachers
- Teachers lack confidence in giving real life examples of STEM applications and careers options

Students said that:

Enginuity

- 1. Careers teaching varied considerably
- By 11 years old most children know or have an idea of what they want to do as a career but most of them don't know much about the skills or qualifications they need to get there





Skills Miner Interactive gaming

Uncovering engineering skills through gameplay and exploration.

Harnessing Minecraft's popularity to bring engineering to life in a fun and innovative way.

Players immerse themselves in engineering by:

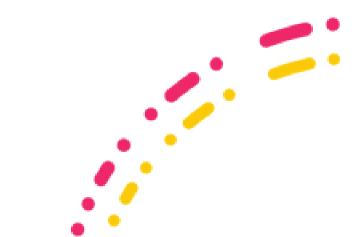
- tackling challenges
- solving problems
- gaining real insight into what it takes to become an engineer

Designed for use in the classroom and completely free-of-charge.

Our games are built in line with the National Curriculum(s) and Gatsby benchmarks.

https://greenskills.enginuity.org/skills-miner





Skills Miner: Vertical Farming

Find out what it's like to design, build and manage a vertical farm through our Minecraft games.

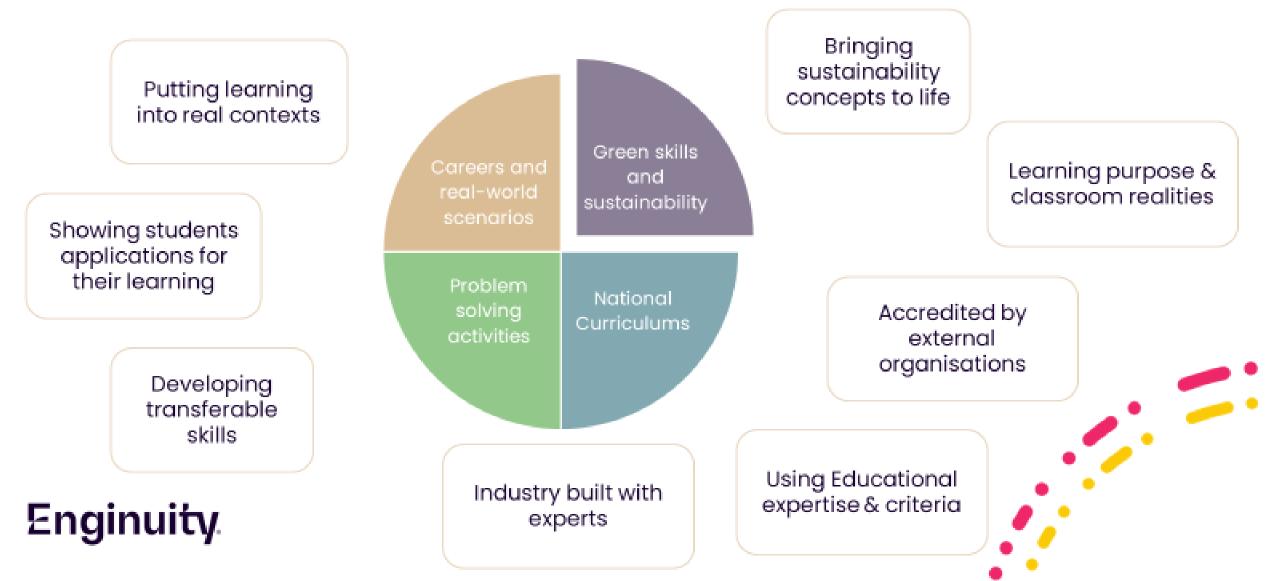
- Game 1 learn how to fix a broken farm
- Game 2 learn about sustainable resources and how they are sourced
- Game 3 learn how vertical farms can provide food for the population from within the city

https://greenskills.enginuity.org/skillsminer/vertical-farming





The process – from ideas to interactive games



The results

Independent research carried out with schools who used our games found that after playing:

Students felt they learnt something new

92%

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Enginuity

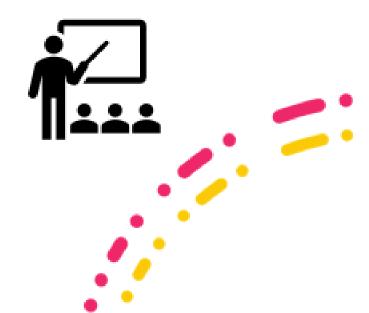
Students wanted to know more about careers in Engineering

88%



Teachers felt that using Skills Miner in lessons would be beneficial to learning

94%









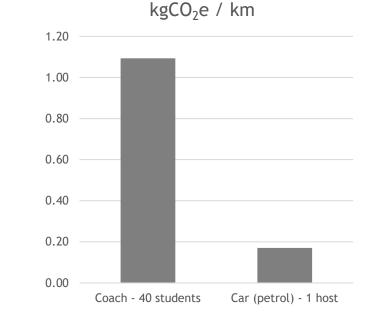
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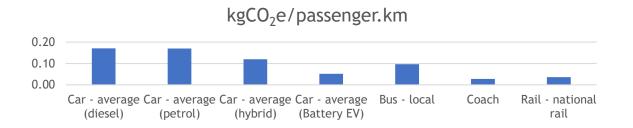
4. Engagement delivery

How to reduce the environmental impact of delivery

Travel (carbon emissions)



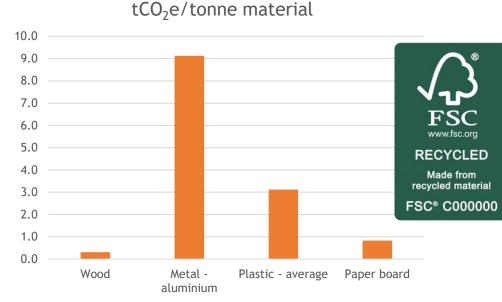


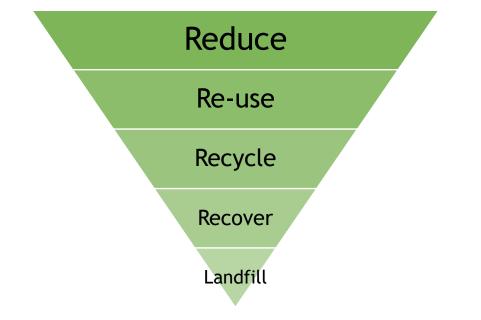




How to reduce the environmental impact of delivery

Materials







Waste

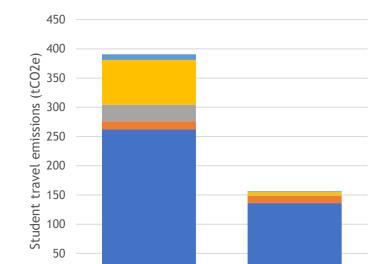
4. Engagement delivery

2021-22

Example: The Big Bang Fair

Travel

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Materials

Student travel by other

Student travel by minibus

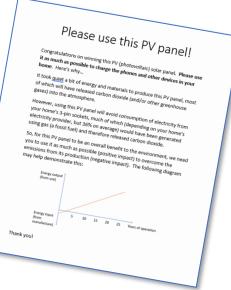
Student travel by coach

Student travel by carStudent travel by train











2018-19



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Neon

• Careers resources, available here







Interviews with young engineers, available <u>here</u> (filter on 'Engineering sector' = 'Environment')
 Real engineers

Hear from the professionals in these inspiring case studies.

Engineering sectors 🗸 Engineering routes 🗸

Video case studies









VIDEO CASE STUDY
 Protecting otters
 Civil engineers Bob and Marc came up with an
 Ingenious way to keep otters safel

CASE STUDY Changing impacts on the environment Irene Serrano Gonzalez Is a civil engineer and sustainability consultant in the Strategic

Consultancy team at AECOM London

Stemming the flood Hiba Khan keeps people's homes safe from flooding and erosion.



5. Resources

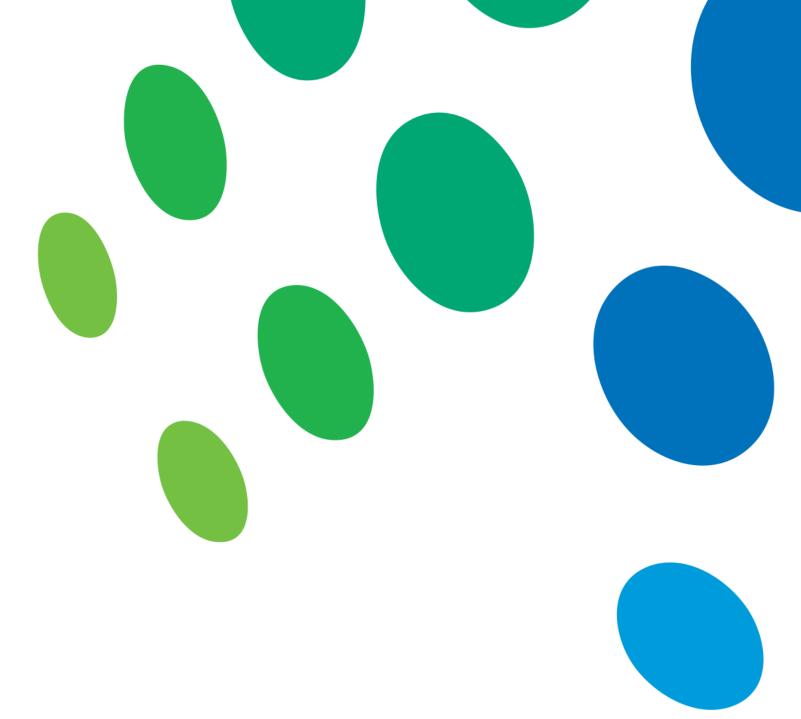
Meet the Future You quiz

• Available <u>here</u>





End Thank you

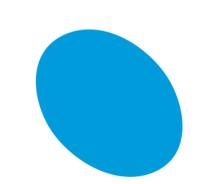




Appendix 😡

Research evidence





Young people care about the environment



Statistics refer only to those surveyed

- A. 72% of young people (aged 7-18) were willing to support key habits in reducing climate change compared to 62% of adults (Source: UWE Bristol, 2021 <u>here</u>)
- B. 78% of children and young people (aged 8-15) agreed that looking after the environment was important to them (Source: UK Government, 2021 <u>here</u>)
- C. 78% of 11-18 year olds feel climate change is an urgent priority to solve and a shared responsibility (Source: Royal Society of Chemistry, 2021 <u>here</u>)

- D. 62% of 15-16 year olds were concerned about climate change (Source: the Royal Meteorological Society, 2022 <u>here</u>)
- E. 42% of Big Bang Competition 2022 submissions were environmental, sustainability or conservation themed (Source: EngineeringUK, 2022)
- F. 70% of young people agreed that 'engineers are important for improving the environment' (Source: EngineeringUK, 2022 <u>here</u>)



Young people care about the environment... BUT



- G. 75% of 11-18 year olds feel anxious about the future L. of the planet (Source: Royal Society of Chemistry, 2021 <u>here</u>)
- H. 72% of UK young people agreed that the "future is frightening" (Source: Caroline Hickman et al, 2021 <u>here</u>)
- I. 62% of school children say they are 'Very' or 'Fairly' concerned about climate change (Source: Schools Sustainability Survey 2019-20 & 2020-21, <u>here</u>)
- J. "Students struggle to see or feel the impact of work on [sustainability] given its scale and complexity: they feel unable to make an impact." (Source: Research conducted by Everfi for EUK on their Robotics Challenge programme, 2022)
- K. Informal discussions with EUK's Teacher Network and others

EngineeringUK

17% of young people selected 'improving environmental sustainability' as an important factor in their career choice, and 6% included this in their top 3 important factors (Source: EngineeringUK, 2022 <u>here</u>)

- M. 20% of young people globally believe it's too late to fix climate change, vs. 12% of those aged 50+; 62% of Europeans say they heard more about negative impacts than about progress; 65% of Europeans have greatest faith in technology to provide solutions, rather than business or government (Source: Futerra, 2021 <u>here</u>)
- N. EUK Youth Insight Group session on environmental sustainability, 22-Nov-2022

