



**Dumfries and  
Galloway College**

One step ahead

# **Green Energy Skills Academy**

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**Vice Principal, Learning Skills and Student Experience**

# KEY FACTS



**Sector leaders  
in Climate Change**



**Working with  
200+ local  
employers**



**One of Two National Centre of  
Excellence in Scotland –  
World Skills**

**Finalist in WorldSkills UK 2021**

**Largest tertiary  
Education provider  
in the South of  
Scotland**





Since 2014 we have exceeded our carbon reduction target with an overall reduction of

**33%**

Emissions reduced from 1321 tonnes CO<sub>2</sub> equivalent to 906 tonnes.

# Net Zero by 2030

Our Climate Change Action Plan is to;

- Set a path to embed this into our culture and change mindsets
- To be ambitious and innovative, working to achieve the Net Zero target

# Award Winning College



December 2021  
**WINNER**  
**Scottish  
Renewables  
Green Energy  
Award**  
*Outstanding Project*



December 2021  
**WINNER**  
**CDN Awards**  
*Sustainability Action Award*



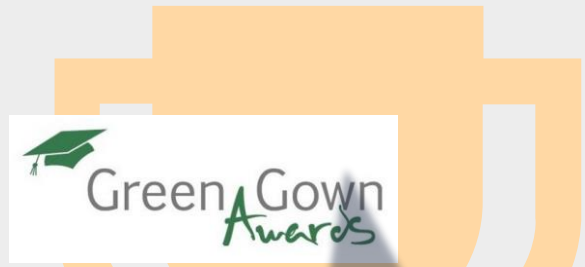
**International  
Green Gown Awards**  
**Shortlisted** – April 2022  
*Benefitting Society*  
**Finalist** – May 2021  
*Campus of the Future*

## Green Gown Awards

July 2021  
**WINNER**  
*Campus of the  
Future*

July 2021  
**WINNER**  
*Benefitting  
Society*

July 2020  
**WINNER**  
*Sustainability  
Institution of the  
Year*



December 2020  
**Highly Commended**  
**CDN Awards – Climate Emergency Action**



# Horizon Scanning

The service industry will need to undertake skills training to maintain the new technology.

Retraining engineers in new technologies as well as continuing with existing gas systems.

Likely installation of gas heating systems cease in new builds

Sales of new petrol and diesel vehicles cease

Scottish Government Power Grid Decarbonised 100%

2030

2045

2025

2035

2050

Scottish Government Power Grid Decarbonised 50%

Scottish Government target of net zero

The roll out of Green Skills training will include many Government initiatives which will, ideally, be supported with funding opportunities to encourage businesses to take up the skills offerings

# Green Skills Academy

At Dumfries and Galloway College, we launched a new Green Skills Academy in 2021 which aims to meet the current and future demand in this ever-growing area.

The Academy aims to create a range of pathways into Green Skills employment or Higher Educational opportunities, widely supporting the Green Economic Recovery and the race to Net Zero.

# Green Skills Academy for a Just Transition



Dumfries and Galloway College currently offers a range of courses that sit within the Green Skills area



These courses include introductory level courses, apprenticeships and bespoke learning for the existing workforce



The courses cover a range of subjects – digital – energy – transportation – sustainable construction



Embedding the principles of sustainable teaching throughout our curriculum



Dumfries and Galloway College offer a wide range of courses that sit within the Green Skills area

Opportunity for students to problem solve sustainable solutions



Courses include introductory level courses, apprenticeships and bespoke learning for the existing workforce

Ensuring that assessment provides access to the latest technology to foster the development of students' metaskills



Courses cover a range of subjects



**DGC**  
**Dumfries and Galloway College**  
One step ahead





Our Campus



-  Cross College Climate Emergency Working Group
-  Cycle friendly campus
-  Water Refill Campus/zero single use plastic
-  On Site recycling
-  Zero Carbon 'Footprints' Shop
-  Electrical Vehicle Charging Point

# Skills Development



**EV Charger  
installation  
and  
maintenance**



**Wind turbine  
maintenance**



**Air source and  
ground source  
heat pumps**



**Solar  
thermal**



**Solar PV**

# Skills Development



EV Maintenance



Battery Storage



District Heating



Hydrogen  
Fuel Cell  
Technology



Electrotechnical  
training

Advanced  
Manufacturing



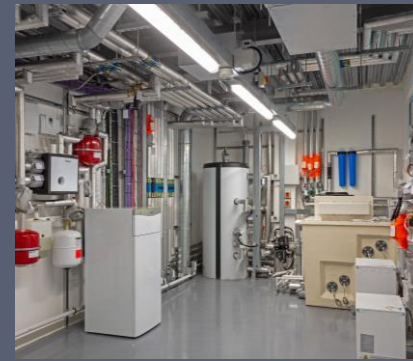
# Skills Development



**Sustainable Construction Practices**



**Battery Storage**



**Mechanical  
Ventilation Heat  
Recover**



**Wind turbine  
Rescue**

# FUEL CHANGE

**Every school - Every workplace - Everywhere.**

# What is Fuel Change?

Fuel Change is a social-enterprise movement that empowers the Next Generation to help solve the decarbonisation challenges faced by industries worldwide.

Our ambition at Fuel Change is to create a bottom-up movement driven by our Next Generation, which supports the Just Transition to Net Zero while creating a highly-skilled workforce of the future.



# Fuel Change Education

We partner with businesses and educators to engage and empower apprentices, graduates and school pupils to take credible action against climate change. We do this by giving them the platform to unleash their underestimated skills and talent through our Fuel Change Challenge programme.

Fuel Change is working with Dumfries and Galloway College to credit level the challenge process to make this a qualification that can be delivered in Scotland's Colleges and Schools. This will allow the climate literacy and skills needed to thrive in the future.





# Our Teaching Facilities

- We have a purpose built, state of the art Green Energy Skills Academy which is designed to teach the skills required for the green Recovery. Using live practical technology the center hosts a unique opportunity for aspiring green energy workers.
- The Centre is digitally connected, meaning we can deliver out to anywhere with compatible VC services to give learners an almost in person feel whilst learning from distance.



# Our Teaching Facilities





# Our Teaching Facilities



# Questions

