
Tackling The Climate Emergency: The Vital Role of Scottish University Research and Innovation

Research and innovation from Scottish universities is integral to generating the new knowledge and improved understanding of the impacts of climate change and biodiversity loss that are essential in delivering the Scottish Government's Programme for Government priorities.

The Renewables Revolution



The **Green Hydrogen Accelerator** is exploring the efficient production of hydrogen from water and its use in energy storage and chemicals production.

University of St Andrews



FastBlade is the world's first rapid testing facility for tidal turbine blades, accelerating development of marine energy technologies.

University of Edinburgh



Built Environment – Smarter Transformation is providing the connections, infrastructure and culture needed to future-proof the commercial and environmental road forward for the construction sector

BE-ST Innovation Centre

Supporting Households And Communities



The **Scottish Research Alliance for Energy, Home and Livelihoods** is bringing together partners to help achieve an equitable and sustainable net zero future.



Developing the world's first **carbon positive spirits** that avoid more carbon dioxide emissions than they create.

Abertay University



ReFLEX Orkney is pioneering an integrated, affordable, low-carbon energy system for the future.

Heriot Watt University

Action On Adaptability & Resilience



Building resilience into Scotland's rural sector through guides on precision farming and regenerative agriculture practices.

SRUC



The **Hydro Nation Chair** programme is driving sustainable water management in Scotland encompassing circular economy principles, reducing emissions and enhancing resilience.

University of Stirling



The **Muir is Tir** research project addressing the impacts of coastal erosion and flooding using nature-based solutions and community engagement.

Glasgow Caledonian University

FULL TEXT AT: www.sfc.ac.uk/research-innovation/research-impact/spotlight-tackling-the-climate-emergency

Global Impact



Cool Farm Tool is helping farmers in more than 150 countries to assess their carbon output and take steps to reduce it.

University of Aberdeen



Developing **Geothermal cooling systems** that reduce heat stress for vulnerable populations in Kenya

Robert Gordon University



Designing **Disaster resilient homes** that could save communities in Bangladesh.

University of Dundee

Just Transition



Design Hopes design-led research to identify barriers and opportunities for change within the healthcare system eg green ward toolkit

Universities of Strathclyde & Dundee



JUST-Systems is developing practical pathways and accelerating action on community aspirations for sustainable, liveable and resilient places.

University of Aberdeen



GALLANT collaboration with Glasgow City Council is helping Glasgow transition to climate resilience while addressing social, economic and health inequalities.

University of Glasgow

Global Policy

Supporting the Paris Agreement

University of Edinburgh researchers have played a pivotal role in informing global climate change mitigation policy for over two decades. Since providing the research which formed the scientific basis of the 2015 Paris Agreement, Edinburgh researchers have contributed to the Intergovernmental Panel on Climate Change reports, most recently being appointed to the Bureau of expert scoping for the 7th IPCC Assessment report due in 2029. ([Seventh Assessment Report — IPCC](#)).



University of Edinburgh

Supporting resilience in urban development

GSA researchers were central to development of the United Nations Economic Commission for Europe (UNECE) Regional Action Plan 2030 supporting member states to address both the effects of the Covid pandemic as well as the climate and housing emergencies and providing the basis for plans and activities around the contribution of affordable housing to sustainable urban development.



Glasgow School of Art

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