

The KBriq

OPPORTUNITY

It is anticipated that all new homes in Scotland will be zero carbon by 2020. This, together with new UK house building targets of creating 200,000 homes by 2020, creates both opportunities for more efficient waste management and the supply of building materials. 70% of building materials will need to be recycled by 2025 and 0% to pass to landfill and with 120M tonnes annually produced in the UK, this will require innovation and circular economy thinking within the sector.

PROJECT

The project is to assess the feasibility and testing of a novel building material made from 90% recycled material from pilot production through to delivery of a demonstration structure with on-going monitoring. There is no equivalent product in the market with such credentials; highest recycled content and low energy required for production. The unique features of the construction unit will boost recycling and reduce carbon emissions in Scotland particularly initially as well as generating savings on energy costs and associated taxes. The building material has been tested and proved at laboratory scale and it is crucial that production is scaled-up and the material is tested in a real environment to validate its commercial viability and potential.

OUTCOMES

- 2 New products
- 2 new processes
- A new service
- New business model
- £11m increased turnover for lead partner and supply chain by year 5
- Creation of 20 high value jobs
- 5,355 tonnes of CO2eq per annum saved once 10m bricks per annum are produced
- International market expansion is also anticipated through joint venture agreements or similar.

SUPPORT

Total Project Value - £469k

CSIC Contribution - £214k

PROJECT DURATION

August 2017 - August 2019



Innovation Support: Product Innovation
Sub Sector: Component Manufacture

