

INNOVATION GATEWAY

Challenge Selection
Round 1, 2019

**Innovator Briefs – Low Carbon Refrigeration and
Cooling**



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Low carbon refrigeration and cooling

The challenge

The Partners are looking for innovative new technologies across all their portfolio types.

A number of emerging technologies are sought that will enhance energy efficiency, maintenance and control across sales floors, including HVAC chillers, high temperature and low temperature systems and F Gas assets such as comfort cooling. These are areas of specific interest for their business.

The challenge here is to identify new impactful technologies that could be developed and advanced to enable further energy reduction and control.

The solutions we are seeking

The Partners are looking for solutions that would suit a range of refrigeration and cooling uses from large supermarkets to small food outlets and possibly residential scale.

The intention is to promote and support development of new technology to reduce energy and carbon emissions related to refrigeration and cooling.

Further information

New solutions should have a detailed environmental footprint analysis and should provide step change improvements on existing solutions.

Retrofit solutions/additions to existing installations would be considered.

Maintenance of new systems should be comparable to or better than existing solutions.

There is the opportunity for a development partnership with the Partners, if the technology is still at an early stage.

Selection criteria

- Refrigeration and cooling using alternative generation technologies offering significant energy and carbon emission reduction.