

# Carbon Trust

## Industrial Energy Efficiency Accelerator Stage 2: Support for Implementation Project Grants

### Supplementary Information

#### About Stage 2 of the Industrial Energy Efficiency Accelerator



This document provides supplementary information designed to help you prepare your proposal for a Carbon Trust Industrial Energy Efficiency Accelerator Stage 2 Project Grant.

## About Stage 2

Stage 2 of the Industrial Energy Efficiency Accelerator will demonstrate and deploy innovative low carbon technologies or industrial process changes and build the business case for sector-wide implementation. The Carbon Trust is looking to work with UK companies and academic organisations that have relevant skills or technologies whether or not they currently have interests in industrial energy efficiency.

Stage 2 will involve:

- UK based companies working in target industries;
- Developers and manufacturers of industrial technologies; and
- UK Academic research teams with expertise relevant to industrial technologies.

These organisations are invited to work individually or collaboratively to research or demonstrate industrial technologies and to build a business case for sector wide implementation. The ultimate aim is to implement step-change energy efficiency measures in industry.

All queries and completed application forms should be sent to [IEEA@carbontrust.co.uk](mailto:IEEA@carbontrust.co.uk).

### What are we looking for?

Opportunities for energy efficiency have been identified in stage 1 of the Industrial Energy Efficiency Accelerator. However, some of these opportunities require further research or demonstration work in order to build a business case for the industry sector to implement the necessary changes. The Carbon Trust is looking to support organisations with skills in these industry areas to assist with further investigation, technology transfer, adaptation, demonstration or innovation, that will overcome barriers to adoption and build a robust business case for implementation.

### What are we offering?

The Carbon Trust is offering grants of £50,000-£250,000 to part-fund research or demonstration projects that will provide evidence for a robust business case for sector-wide implementation of key energy efficiency opportunities. Projects are expected to last up to twenty-four months.

The key opportunity areas have been identified through work with individual industry sectors.

Three calls for proposals will be made relating to the following opportunities during Autumn 2009:

Industry Sector	Target Date of Open Call	Implementation Project Opportunities
Animal Feed Milling	23 <sup>rd</sup> September 2009	Development of an energy efficient formulation system
		Implementation of more efficient press machines
Aggregates	11 <sup>th</sup> September 2009	Accelerating the development of a market for lower temperature mixed asphalt
		Implementation of heat recovery for preheating combustion air
		Implementation of advanced burner control
		Evaluation of low-carbon vehicles as 'in quarry' vehicles
Plastic Blow-moulding	9 <sup>th</sup> October 2009	Implementation of induction barrel heating for extrusion blow moulding

Applicants will need to complete a full grant application form. From these the best projects will be offered grants.

#### Programme Timeline



All queries and completed application forms should be sent to [IEEA@carbontrust.co.uk](mailto:IEEA@carbontrust.co.uk).

## What makes a good project?

Before submitting an application, you should consider what makes a good Stage 2 project. This section is provided to help clarify the Carbon Trust's requirements for IEEA Stage 2 projects. It does not replace any of the criteria mentioned in other documents. Where any ambiguity between requirements arises, the application documents, contracts, and official State Aid Rules take precedent over this information.

### Objective

The main objective of Stage 2 of the IEEA is to:

Demonstrate and deploy innovative low carbon technologies or process changes in order to build a business case for sector wide adoption.

The specific opportunities for support are listed previously.

### Good ideas

Good ideas will:

- Be based on robust theory or practice
- Develop or adapt the sector-specific manufacturing process in a way that -
  - Is innovative
  - Reduces the amount of energy used by the sector
  - Can be implemented across the whole sector
- Tackle the key area for development identified in the project title
- Have the potential to be implemented by a significant proportion of the industrial sector
- Have a clear route to sector-wide implementation
- Represent good value for money

### Strong teams

A strong team will -

- Be led by a company that has experience in managing and operating the sector-specific manufacturing process
- Comprise a number of individuals who, between them, have demonstrated experience in all areas relevant to the project
- Have members who will all contribute to the project and all benefit from it
- Have clear project plans
- Have the means and the will to work closely with the Carbon Trust to take the results of the work to the rest of the sector

### Good proposals

Energy-efficiency opportunities where further work is required to research or demonstrate the business case have been identified during stage 1 of the Industrial Energy Efficiency Accelerator. The application process to receive funding from the Carbon Trust to carry out this work allows the whole sector and relevant partners or stakeholders the opportunity to participate. The submitted proposal allows the Carbon Trust to judge whether the grant

requested is warranted, based on the detailed cost and work programme, and plan for sector-wide dissemination.

Good proposals will provide enough evidence to—

- Succinctly and clearly explain the idea—
  - On what principles is the idea based?
  - How will it be used?
  - How will it lower the energy use of the manufacturing process?
- Clearly demonstrate the strengths of the team
- Clearly show a desire to implement the energy efficiency opportunity
- Justify the level of grant requested
- Justify the length of programme suggested
- Include a clear and logical project plan with milestones and break points if appropriate
- Give confidence that the grant money will be spent well
- Demonstrate commitment to the project (e.g. by including appropriate contribution from all major partners)
- Show that the main project risks have been identified and mitigated
- Demonstrate compliance with the funding and eligibility requirements
- Show how the supporting evidence (carbon and cost savings) will be obtained

The Carbon Trust will offer applicants a meeting to discuss their ideas and highlight any areas of concern. These mentoring meetings are intended to help the applicant complete a successful and clear application. Applicants who wish to arrange a mentoring meeting should request this within the first 4 weeks of the open call relevant to their project by emailing [ieea@carbontrust.co.uk](mailto:ieea@carbontrust.co.uk).

**What we don't support:**

- Requests that are not submitted through our online application process
- Projects that do not meet our aims
- Requests for ongoing support of R&D activities
- An endorsement of products or services
- Fundamental research
- Projects where we are not material, distinctive or additional
- Ideas that are not founded on sound scientific principles
- Projects that are not within one of our stated challenge areas
- Projects that are already planned without grant assistance

**What we can't support:**

- Any activities that are related to the development of the business and not the technology

- New patent application and protection
- Marketing activities, market research
- Recruitment, staff training
- Office set up
- Accounting, tax returns, legal advice etc
- Anything that does not bring benefit to the UK
- Any support outside our funding limits
- Any support that does not comply with R&D Framework State Aid
- Any illegal activities

## Quality Assurance

The Carbon Trust will appoint an independent Quality Assurance consultant on their behalf to monitor progress, confirm milestone achievements and prepare interim and final reports. The Quality Assurance consultant will analyse data on carbon and cost savings achieved in order to disseminate sector wide.

## Selection Criteria

The Carbon Trust will assess your application against standard selection criteria. Your Project Plan and the Objectives of your Application should address the following issues:

### *Demonstrate the potential for greenhouse gas emission savings*

There must be a credible mechanism that shows how successfully undertaking your project will lead to sector-wide implementation of the carbon saving opportunity being supported. There also needs to be an estimate of the scale of the resulting CO<sub>2</sub> reductions. You will need to provide technical evidence supporting the feasibility of the project that could include:

- Study results or site data
- Previous published research or analysis
- Independent review by a recognised expert
- Results of Carbon Trust work during Stage 1 of the IEEA

### *Innovation*

Either the technology being developed/demonstrated or the application of a technology/process must be innovative. The proposal must therefore demonstrate how the work will build on existing practices and lead to:

- Material advances when compared to the current 'state of play'
- Technologies/processes/products that can show advantages over existing/competing options

### *Sector Replication Strategy*

The proposal must show how undertaking the work will directly contribute to the progress of sector-wide implementation of the technology or process. This will require that the following need to be demonstrated:

- That there is a clear plan for gathering the data and other outputs required to present a robust business case for change to other companies in the sector
- That there is a clear need or demand for the outputs and as such the results will be acted upon
- An awareness as to whom the results need to be communicated to, and how this could be achieved by the Carbon Trust
- Commitment from the full project team to work with the Carbon Trust to disseminate the project findings and business case to the sector
- That the next steps on completion of the project will be sector-wide implementation of the carbon saving opportunity
- That undertaking the work will bring benefit to the UK.

### *Project and Risk Management*

The proposed programme of work needs to be well structured and thought through. Hence issues that must be considered include:

- The project has to have access to the full range of skills and experience required to successfully undertake the work
- The work must be well planned and show what tasks will be undertaken and by whom
- How much each task costs
- That the required match funding is in place
- That commitment from each partner in the team has been demonstrated
- Relevant risks have been identified and their potential impact on the project understood
- How thoroughly these risks will be managed.