

**EFFICIENCY  
FOR  
ACCESS**

# **EforA Research and Development Fund Cooling Call – Webinar**

1/07/2019 & 8/07/2019



# Overview

- Background and objectives
- First call
- Why Cooling?
- Scope
- Funding available
- R&D categories and project length
- Eligibility
- Applying
- Assessment
- Due diligence and award
- Application assistance
- Intellectual Property Rights
- Key Dates
- Q&A



# About the Coalition

## Donor Coalition



## Investor Network



## Programme Partners



## Co-Secretariat





# Low Energy Inclusive Appliances (LEIA)

A research & innovation programme that aims to accelerate the availability, affordability, efficiency, and performance of a range of low energy inclusive appliances particularly suited to developing country contexts.

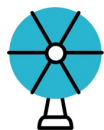
# Technology Focus Areas

LEIA will help **halve the cost** and **double the efficiency** of a range of off- and weak-grid appliances in least developed countries.

Driving scale in **near-to-market** technologies:



Televisions



Fans

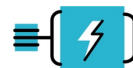


Solar Water Pumps



Refrigerators

Enabling innovation in **horizon and enabling** technologies



Brushless DC Motors



Connectivity/Internet of Things



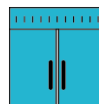
Advanced Electric Cooking



Agricultural Processing

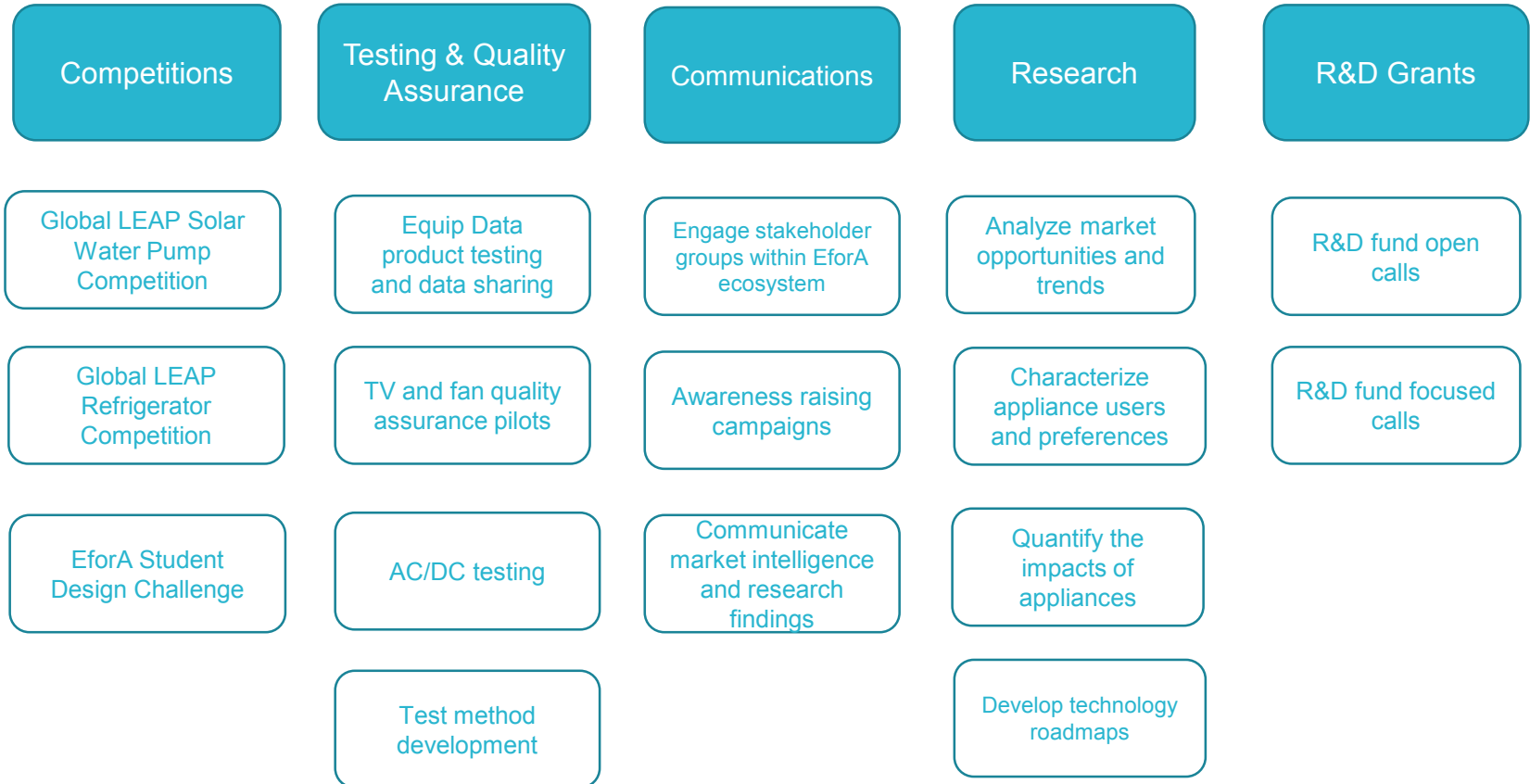


Interoperability



Advanced Cooling

# LEIA Ongoing Activities



# Summary

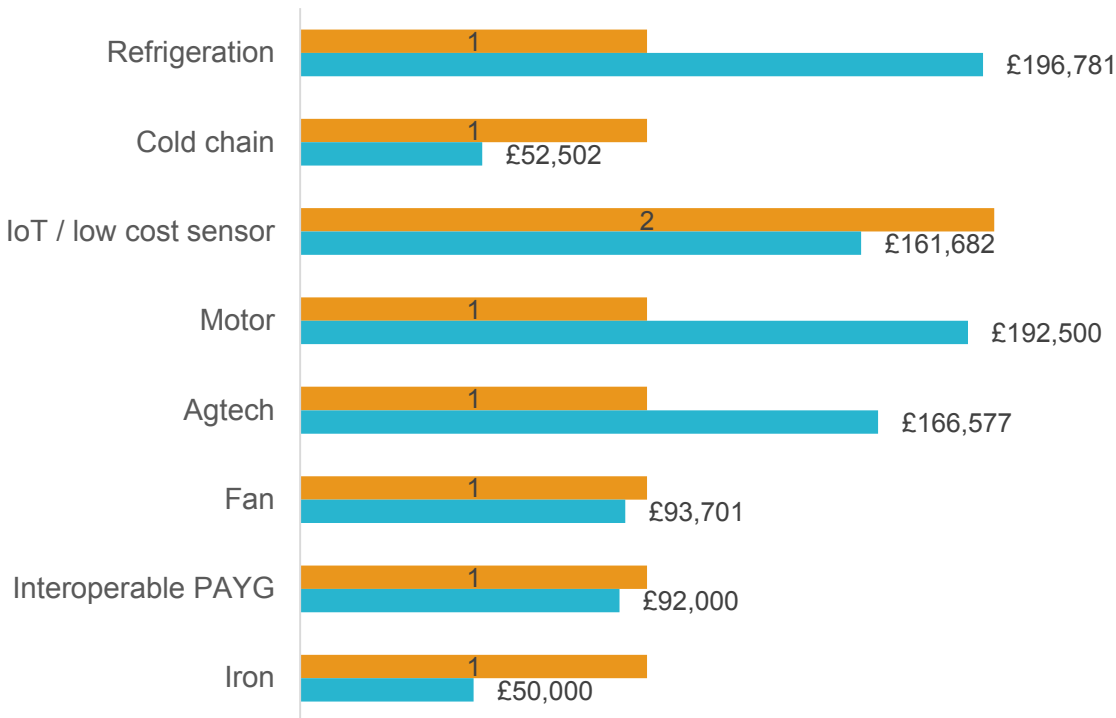
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- ▶ **Open call** – for projects that “*aim to accelerate the availability, affordability, efficiency and performance of a range of low energy inclusive appliances that are particularly suited to developing country contexts and promote social inclusion*”
- ▶ LEIA funding at least 9 projects – totalling £1.05 million
- ▶ MECS to fund 6 cooking applications – ~£750,000

# EforA R&D Call – Projects Funded from 1<sup>st</sup> call

## Technologies Funded

■ Number of projects funded   ■ Funding



## Companies Funded

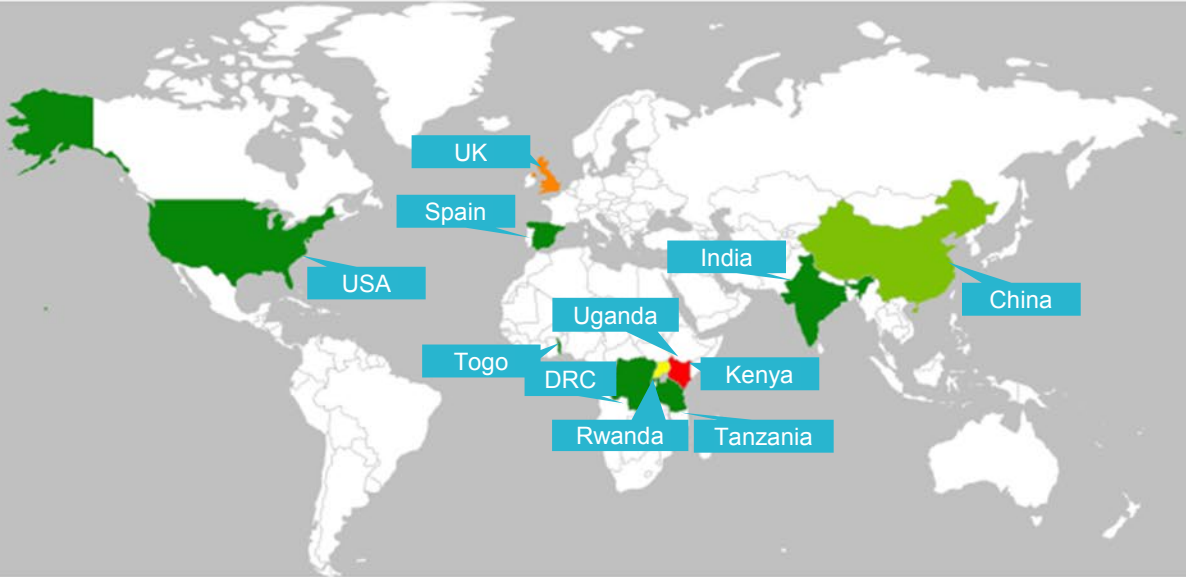


DGRIDENERGY, LLC





# Funded Project Implementation Locations



Number of projects implemented in country: 1 (green) to 5 (red)

# Why Cooling?

- Essential in achieving many of the SDGs, such as the SDGs for poverty and health
- Prerequisite for broader economic development, enabling farmers to access new markets, as well as reducing food loss and waste
- In an increasingly warmer climate, cooling provides much-needed relief and helps to save lives
- Communications Campaign  
#EfficiencyForCooling



# Scope

Developing an innovative appliance technology or product focused on cooling for use in off- and weak-grid settings.

## Focus Areas

## Priority Areas

### Fans

- Improved motors for use in off-grid fans;
- Enhanced blade designs;
- Smart functionalities;
- Improved electronic controls; and
- Alternative approaches and designs for fans.

### Refrigeration

- Improving variable speed compressors and their controls;
- Appliance and system controls;
- Modular cooling system designs for local assembly;
- Tools or software for technical sales to guide appliance selection;
- Increasing cooling capacity and temperature lift at times of high temperature and humidity;
- Technologies that improve the energy efficiency or effectiveness of ice-making or its end use; and
- Approaches that could lead to practical exploitation of Peltier or other solid-state cooling technologies

### Cold Chain

- Technologies and design innovations to improve reparability, reliability and cooling in high temperatures;
- Ways of organising and managing technology along the cold chain from 'farm to fork';
- New compressors with improved efficiency;
- Monitoring and control units for power supply networks and refrigeration;
- Modular cooling sub-systems and components;
- Flexible designs
- Innovative designs around cooling products specifically for transportation of produce or goods; and
- Systems thinking on cooling.

# Funding Available

- Grants are available from £50,000 to £200,000
- Minimum total funding pool available under this call is £1m
- Applicants are required to provide matched funding

Organisation size	Staff headcount	Turnover	or	Balance sheet total	Proportion of funding available for eligible project costs
Micro	<10	≤ £2m		≤ £2m	Up to 90%
Small	< 50	≤ £9m		≤ £9m	Up to 70%
Medium	< 250	≤ £45m		≤ £39m	Up to 60%
Large	> 250	> £45m		> £39m	Up to 50%

Eligible project costs	Ineligible project costs
Personnel costs	Profit
Services	Bonuses
Direct overheads	Dividend payment
Travel costs - direct	Interest payment / financing costs
Equipment and materials	Currency exchange
Indirect overheads: <ul style="list-style-type: none"> <li>• General office costs</li> <li>• Admin support</li> <li>• IT/HR/support function</li> </ul>	Recoverable VAT / local taxes
	Loss of income / opportunity cost
	Patent costs

# R&D Categories and Project Length

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- ▶ Early stage for feasibility studies – 6 to 12 months
- ▶ Mid-stage for industrial research – 12 to 24 months
- ▶ Late stage for experimental development – 12 to 30 months

# Eligibility

- A legally registered and physically established business, academic organisation, non-profit, public sector organisation, or research and technology organisation from anywhere in the world.
- Applicants may form partnerships. The lead partner will assume responsibility for the project and will be the recipient of the grant funding. At least 50% of the staff budget must be allocated to the lead partner, i.e. staff costs allocated for all other partners and sub-contractors must be less than 50% of the total staff costs. In addition, more than 50% of purchases for capital equipment and other costs must be made by the lead partner.
- Outcomes are linked to both the programme's overall objective and the scope.
- Sufficient match funding for project costs can be demonstrated.
- Compliant with fundamental in-country and international human rights, labour standards, and environmental management laws. Not involved in any act of terrorism or support terrorist activities.
- Allow regular due diligence.
- Contact us: [EforAgrants@est.org.uk](mailto:EforAgrants@est.org.uk)



# Applying

- Please ensure you have read the full **Guidance for Applicants** before applying.
- Register on our website – [efficiencyforaccess.randdgrants.com](https://efficiencyforaccess.randdgrants.com)

The screenshot shows the website for the EforA Research and Development Fund. At the top left is the logo for 'EFFICIENCY FOR ACCESS', which consists of a stylized 'X' shape made of yellow and green lines. To the right of the logo are the navigation links 'Home' and 'Register'. The main heading is 'EforA Research and Development Fund' in a large, dark font. Below the heading is the text 'Register your organisation now to be able to apply for funding'. On the left side, there is a text box containing information about the fund's mission and a 'REGISTER' button. On the right side, there is a form for existing users with fields for 'EMAIL' and 'PASSWORD', and a 'LOGIN' button. A link for 'Forgotten your password?' is also present.

**EFFICIENCY FOR ACCESS**

Home Register

## EforA Research and Development Fund

Register your organisation now to be able to apply for funding

The Efficiency for Access Coalition (EforA) will invest into Research and Development (R&D) projects that aim to accelerate the availability, affordability, efficiency and performance of a range of low energy inclusive appliances that are particularly suited to developing country contexts and promote social inclusion.

To apply, click the button below.

**REGISTER**

Existing Users

Already have an account? Log in to view your details

EMAIL

PASSWORD

Forgotten your password? **LOGIN**

# Applying

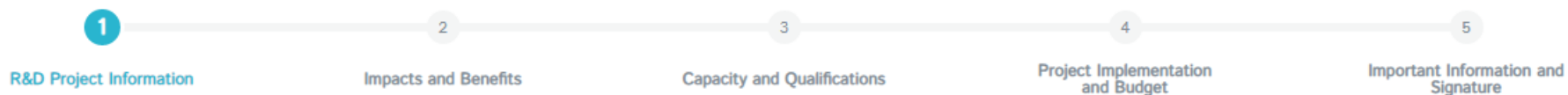
- Apply on our website – [efficiencyforaccess.randdgrants.com](http://efficiencyforaccess.randdgrants.com)

Dashboard / Application Form

## EforA Research and Development Fund - Application Form

Thank you for taking the time to complete an application form. The information you provide here is confidential and will not be shared with any third parties unless agreed upon with you.

Please note the character count and be brief and concise in your response. Bullet points are encouraged.



- Upload supporting evidence such as studies, reports, etc.
- Specify milestones within your project, including grant amount request for each milestone. Amount requested in final milestone must be  $\geq 10\%$  of total grant request.



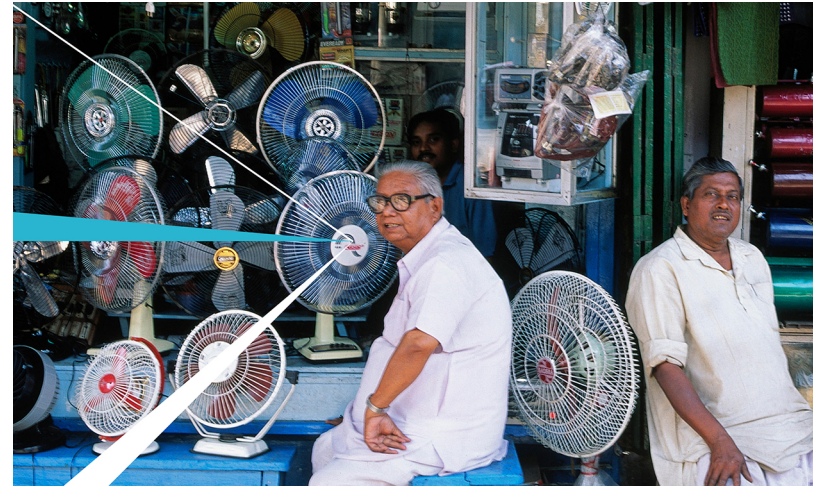
# Assessment

- Assessment by up to two EforA assessors and independent technical experts, selected from an assessment panel

Assessment criteria	Key application questions	Weighting
1) Alignment with EforA objectives and scope	1.2, 1.3	2.5
2) Technical evidence	1.4	2
3) R&D project location in at least one UK aid priority country	1.8	+2 (7.7%)
4) Project beneficiaries and impacts	2.1	2.5
5) Innovation and Additionality	2.2	2.5
6) Market for Technology or Product and Scalability	2.3, 2.4	2.5
7) Social inclusion	2.5	1.5
8) Sustainability and e-waste	2.6	1.5
9) Capacity and qualifications	3.1, 3.2, 3.3, 3.4, 3.5	2.5
10) Project plan and budget (including value for money)	4.1, 4.2, 4.3, 4.4, 4.5	2.5
11) Funding sources	4.7	1
12) Monitoring and evaluation	4.8	1
13) Project management	4.9	1
14) Project risk assessment	4.10	1
	<b>Maximum</b>	<b>26</b>

# Due Diligence and Award

- Technical due diligence
- Financial due diligence
- Due diligence and safeguarding questionnaire
- Award –
  - Grant agreement
  - M&E plan
- Reporting –
  - Milestone reports, expenditure forms, and supporting documentation (receipts, invoices, timesheets, etc.)
  - Final report



# Application Assistance

- Partner matching assistance
- Draft application review – available for micro-sized organisation or organisation's based in UK aid priority country
- Contact us by 26 July 2019 – [EforAgrants@est.org.uk](mailto:EforAgrants@est.org.uk)



# Intellectual Property Rights

- All IPRs developed during and or as a result of the funded project, will be owned by the awardee, and not the funding parties. However, the funding parties will be granted a world-wide license to the project IP for reporting and administration of the fund.
- As a public funder, UK Government's Department for International Development (DFID) has no intention of using this IPR for commercial purposes. Clause 9.3 of the grant agreement protects awardees from a competing product being developed from the IPR, closing the scope of the license to only allow use of that IP as described in the grant agreement. The licence would be the only benefit to be taken from the agreement, and its use would predominately be focused around Clause 8 (publicity).



# Key Dates

- 16 August 2019, at midnight BST  
Submissions of applications closes
- End of September 2019  
Successful applicants that pass due diligence are notified
- 15 October 2019  
Projects must start by this date





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**Questions?**

**[EforAgrants@est.org.uk](mailto:EforAgrants@est.org.uk)**





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# UK aid Priority Countries

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- Afghanistan
- Angola
- Azerbaijan
- Bangladesh
- Benin
- Burkina Faso
- Burundi
- Cambodia
- Cameroon
- Central African Republic
- Chad
- Comoros
- Congo (Democratic Republic of the)
- Côte d'Ivoire
- Djibouti
- Egypt (Arab Republic of)
- Eritrea
- Ethiopia
- Gambia
- Ghana
- Guinea
- Guinea-Bissau
- Haiti
- Iraq
- Kenya
- Kyrgyz Republic
- Lao People's Democratic Republic
- Lebanon
- Lesotho
- Liberia
- Libya
- Madagascar
- Malawi
- Mali
- Mauritania
- Mozambique
- Myanmar
- Nepal
- Niger
- Nigeria
- Pakistan
- Papua New Guinea
- Rwanda
- Sao Tome and Principe
- Senegal
- Sierra Leone
- Solomon Islands
- Somalia
- South Sudan
- Sudan
- Swaziland
- Tajikistan
- Tanzania (United Republic of)
- The Occupied Palestinian Territories
- Togo
- Turkmenistan
- Uganda
- Uzbekistan
- Venezuela (República Bolivariana de)
- Yemen
- Zambia
- Zimbabwe