



Funding opportunity: Energy Demand Research Centre

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Funders involved

- EPSRC
- ESRC

Money available

Total fund amount (indicative)	Up to £15,000,000 (80% FEC)
Maximum amount per application	Up to £14,500,000 (80% FEC)

Key dates / timeline

Event	Date	Time
Opening date	31/10/2022	00:00 UK time
Call open in Je-S	11 November 2022 (at the latest)	00:00
Closing date	28 February 2023	4pm UK time

Interview panel date	Early May 2023	Time tbc
Grant fixed start date	1 July 2023	

Who can apply

This is the second of a two-stage process. This is an invited call and only the successful Energy Demand Champion appointed from the first phase is eligible to apply as PI. Together with the Co-Champion as a Co-I, they will work with the wider research and innovation community through an interdisciplinary consortium that builds upon and enhances the outputs from the first stage.

Standard EPSRC eligibility rules apply. Research grants are open to:

- UK higher education institutions
- research council institutes
- UKRI-approved independent research organisations
- eligible public sector research establishments
- eligible Research and Technology organisations
- NHS bodies with research capacity.

Check if your institution is eligible for funding.

You can apply if you are a resident in the UK and meet at least one of the conditions below:

- are employed at the submitting research organisation at a level equivalent to lecturer or above
- hold a fixed-term contract that extends beyond the duration of the proposed project, and the host research organisation is prepared to give you all the support normal for a permanent employee
- hold an EPSRC, Royal Society or Royal Academy of Engineering fellowship aimed at later career stages
- hold fellowships under other schemes (please contact EPSRC to check eligibility, which is considered on a case-by-case basis).

Holders of postdoctoral level fellowships are not eligible to apply for an EPSRC grant.

Submissions to this funding opportunity will count towards the **EPSRC repeatedly unsuccessful applicants policy**.

What we're looking for

Scope

A reduction in energy demand is a global and UK priority. It is central to achieving the UK government's national target of carbon neutrality by 2050, and the interim target to cut emissions by 78% by 2035 compared to 1990 levels.

To achieve these targets, a whole systems approach will be required, as outlined in the Department for Business, Energy and Industrial Strategy's **net zero strategy** and the **UK net zero research and innovation framework**.

The need for energy demand reduction, through a whole systems approach, working across UKRI is underpinned by the cross-cutting priorities of EPSRC's 'Engineering Net Zero', and ESRC's 'Net Zero, Environment, Biodiversity and Climate change' priority, set-out in the 2022-2025 delivery plans of EPSRC and ESRC respectively;

- **Engineering Net Zero Priority** - EPSRC will continue to support a whole systems approach to developing the technological solutions which will decarbonise our economy and society, to create a sustainable net zero future.
- **Net Zero, Environment, Biodiversity and Climate change Priority** – ESRC will fund research that generates the evidence needed to build resilience to environmental damage and climate change, drives a successful social and economic transition to a Net Zero society and a sustainable and biodiverse environment, and informs sustainable growth and desirable social outcomes.

This research also addresses aims of UKRI's '**Building a Green Future**' strategic theme set-out in the UKRI Strategy for 2022-2027, in helping to improve the health of our environment and deliver net zero, securing prosperity across the whole of the UK

The Climate Change Committee (CCC) has highlighted that a combination of low-carbon technological changes and societal and behavioural changes will be needed, and energy efficiency and demand side challenges exist, for example they:

- reported to Parliament on 'progress on reducing emissions'. In this report, they noted that for building related emissions, rates of improvement in energy efficiency continue to be well below the necessary level, as they have been over the last decade and that data limitations make it difficult to assess progress'.
- convened an independent expert group that highlighted some of the "biggest challenges will be the efficient operation of the low-carbon electricity system, with a much more dynamic demand side once electric vehicles and heat pumps are more widespread."

Studies of incremental efficiency improvements and minor behavioural changes will not be sufficient, more transformative change is needed.

Therefore, new interdisciplinary research is required to rapidly deliver actionable insights on the future of energy demand within the UK. This includes interdisciplinary energy demand research that focuses on a combination of:

- technology
- social change
- business models
- governance

Energy Demand Centre

EPSRC and ESRC are looking to fund a new 'Energy Demand Research Centre' that will deliver world-leading interdisciplinary research to provide a range of energy demand solutions with communities which include e.g. technological, social, policy experts, those focussed on economics and business models etc. This investment will help inform the UK's transition to net zero by 2050.

Centre Objectives

- deliver a world-leading, transformative, interdisciplinary research programme focused on solutions for energy demand reduction in the UK which builds on existing research, evidence, and infrastructure, and builds on from the champion role.
- engage a critical mass of interdisciplinary researchers (across all career stages) with the knowledge and skills to transform our understanding of reducing energy demand, with each challenge / theme bringing together the engineering, physical and social sciences expertise required to deliver the interdisciplinary research programme and enable the vision of the Centre to be achieved.
- engage a diverse and evolving set of partners and stakeholders (e.g. academic, government, business, industry, civil society) throughout the lifetime of the centre to address the pressing challenges of energy demand reduction and enable enhanced evidence informed actionable solutions in a national and international context.
- promote and maximise the application of artificial intelligence (AI), digitalisation and data to transform our understanding of a reduction in energy demand. to realise the transformational impact of digital technologies, working across the landscape including through championing the use of existing data infrastructure, such as Smart Energy Research Lab (SERL) (and its successors), the Administrative Data Research UK (ADR UK) and longitudinal studies, such as Understanding Society, is essential.
- ensure knowledge mobilisation is integral to the programme, by making information useable and accessible, with the aim of building capacity, informing decision making and accelerating the impact of research between academia, policy makers and energy users.
- develop mechanisms that enable the Centre to rapidly respond to the changing energy landscape and that will create a culture that encourages agility.
- be an exemplar of Equality Diversity and Inclusion practices and enable those involved to have and be EDI role models.

The long-term goals of the Centre are to:

- provide leadership and coordination on interdisciplinary energy demand research through the delivery of a world-leading Energy Demand Research Centre
- contribute towards the evidence base for energy demand across interdisciplinary research themes that fulfil the scope above (i.e., energy demand solutions with communities which include technological, social, policy experts, those focussed on economics and business models etc) from the outset of the investment, informing strategies to help meet the UK's 2050 net zero target, interim net zero targets and broader global environmental and sustainability goals
 - Building on the work of the Centre for Research into Energy Demand Solutions (CREDS), work with partners to accelerate research outcomes into application including commercial exploitation, policy change, and new businesses; to see a step-change in the rate of uptake of Energy Demand solutions.
- enhance utilisation and engagement with energy demand research across society and other stakeholders including business and policy, to ensure more sustainable and equitable decision making
- develop a legacy in energy demand research which will outlast the Centre and provide a long-term benefit to national and international policies and priorities.

Requirements

- The Energy Demand Research Centre proposal should include detail on the following requirements: How it will deliver world-leading transformative interdisciplinary research focused on energy demand reduction in the UK.
 - The Centre should bring together different disciplines to break down boundaries and address challenges facing the UK such as around energy security, technological solutions, energy justice, and economic cost of energy.
 - Provide evidence of how the final interdisciplinary themes for the Centre have been chosen as a result of stakeholder engagement and co-creation with users, bringing expertise together from a range of disciplines and perspectives, for example technical, social and policy.
- How it will deliver an effective ecosystem supporting world-class people, places and innovation through a more inclusive, connected and resilient ecosystem:
 - Ensure involvement of civic policy actors in the co-designing of research questions.
- Provide evidence on how it will address regional agendas, which may vary by local/regional demographics, characteristics, topologies etc
- How the Centre's programme of work will allow an agile and flexible response to changes in the energy landscape throughout the lifetime of the centre.

- How it will add value to the wider Energy Demand research and innovation landscape, including how it will build on and link to existing and emerging UKRI activities, investments and infrastructure.
- How the Centre team will facilitate and engage widely with members in the energy demand community, as well as with those in relevant fields broader than energy demand, to collaboratively develop the research programme and develop a step-change in the rate of uptake of Energy Demand solutions.
 - The Centre should include mechanisms for members to partner, collaborate and engage with a wide range of stakeholders (including business, policy makers, third sector groups, community groups etc) to agree priorities and deliver on the key activities. Embedding new and existing partnerships in the project to harness sustainable academic business cocreation and business co-creation and co-investment in research, as well as a plan to develop this aspect further during the lifetime of the Centre.
 - The Centre should evaluate the range of stakeholders and allow it to expand and evolve over time dependent on needs. The initial group of key stakeholders should include (but not be limited to): UKRI; existing and emerging UKRI investments and infrastructure; government decision makers from across the UK; and industry.
 - There is an expectation that any partners involved are committed and demonstrate this commitment through in kind or cash contributions and the role they play in the Centre and how this will be enhanced during the duration of the Centre.
- How the Centre will develop and implement a strategy to support access to and use of appropriate data and models generated, which builds on and integrates with the existing energy demand research data landscape including SERL (and its successors), ADR UK and Understanding Society.
- A management and governance structure that includes:
 - a strategic advisory board: an outline of the collective skills, expertise and experience that will be sought for the advisory board should be provided. The Centre leadership team will be required to work with UKRI to ensure representation is diverse and the Centre includes direct connections within its governance structure to relevant UKRI investments.
 - mechanisms for working in partnership with UKRI throughout the course of the grant to optimise the impact of the Centre and embedding monitoring protocol such as regular reporting and a mid-term review.
 - the proposal should include a programme management structure and articulate how the programme will be managed day to day.
 - project management resources and administrative support should be detailed. Explain how the leadership will provide adequate operational capabilities and resources to meet the demands of the planned activities.

- how the Centre will commission and manage a flexible and competitively distributed funding programme that supports agile research on emerging topics and to support the involvement of discrete parts of the community that would bring significant benefit to the programme that would have not otherwise been engaged.
 - outline how the legacy of proposed activity will be managed to engage beneficiaries and increase the likelihood of its impact in providing lasting value to participants, stakeholders and the wider energy demand community.
- Evidence of how equality, diversity and inclusion will be integrated into the Centre's operation. This includes providing an inclusive environment for researchers at all career stages to thrive, with support for interdisciplinary and intersectoral engagement. The proposal for the Centre should include an outline of the approach to a strong career development programme for all team members and an EDI plan.
 - Explain how key performance indicators will be identified and how progress against these will be monitored and reported to UKRI and the Centre's Strategic advisory board, beyond providing evidence during UKRI's midterm review of the Centre. Detail how plans to measure and demonstrate the Centre's impact in the longer term will be developed.
 - Provide a host statement from any named ROs involved which details significant levels of commitment and support, and detail planned approaches to eliciting significant leveraged support (in kind and cash contributions) over the lifetime of the investment from business and industry, and wider partners. Proposals building upon contributions from mature partnerships as well as forming new partnerships are expected.
 - Enable timely knowledge transfer between academia, policy makers and energy users.
 - Develop a brand and communications strategy that builds on the reputation of CREDS, whilst enabling the evolution from CREDS to the new Centre.

It is expected that the feedback from Phase 1 of the Energy Demand Research Centre Call process (i.e. the Champion stage) will be considered during the design of the Centre. This includes setting out a clearer view regarding responsive funding with a clear transparent governance process for its allocation.

Funding Available

There is up to £14,500,000 available (80% FEC) for the Centre over 5 years, with a fixed start date of 1 July 2023.

The funding can be used to request any eligible grant costs, with the exception of Equipment over £10,000 in value (incl. VAT), which is not available through this call. Smaller items of equipment (individually under £10,000) should be in the Directly Incurred - Other Costs heading.

International collaborators are permitted as project partners but cannot be costed to the award. Travel and subsistence costs can be included for advisory board members to attend meetings.

The Centre should include a flexible funding programme which is limited to a maximum of £2,500,000 of the overall award.

The costings for a flexible fund for the Centre, requires the following detail:

- The applicants must define and justify their objectives for a flexible funding programme and outline how it will be operationalised and governed. Funds for the flexible programme should be included in the total cost of the proposal and funded at 80% full economic cost (FEC). This should also include consideration of the handling of bringing new partners into the consortia and varying rates of overheads between HEI's
- Projects funded through this programme must undergo a competitive process, following the principles of peer review, and comply with FEC rules. UKRI must be consulted throughout the funds commissioning process to ensure compliance with funding eligibility and that best practice is followed. Projects funded are expected to engage with the wider programme of activities and report their progress and outcomes to the grant holder for reporting purposes.
- The flexible fund should be clearly named as such in the application costings on the Je-S form and in the justification of resources.
- In the application the funds for this flexible fund pot will appear as supported at 80% FEC. Until the funds are distributed the host organisation is effectively underwriting the 20% contribution. When distributed the 20% contribution requirement passes from the host organisation to the organisation receiving the flexible funding. This is the responsibility of the Centre to manage.
- Applicants for these funds must comply with UKRI eligibility and use of funds must be in line with EPSRC policy and grant conditions.
- The sum awarded under the heading of 'flexible funds' can include both directly incurred and directly allocated expenditure. These funds must be reported on the final expenditure statement (FES) as awarded on the offer letter and a breakdown of the expenditure must be submitted along with the FES. If a breakdown of this expenditure is not received the final expenditure statements will be returned. Standard grant conditions apply to all other funds awarded on this grant.

Responsible innovation

You are expected to work within the [EPSRC framework for responsible innovation](#).

International collaboration

Applicants planning to include international collaborators on their proposal should visit [Trusted Research](#) for guidance on getting the most out of international collaboration whilst protecting intellectual property, sensitive research and personal information.

How to apply

Applicants should ensure they are aware of and comply with any internal institutional deadlines that may be in place. You should prepare and submit your proposal using the Research Councils' [Joint Electronic Submission \(Je-S\) system](#).

The submissions must be made by the lead institution, on one single Je-S form, representing all the institutions involved.

When adding a new proposal, you should go to documents, select New Document, then select:

- 'Create New Document'
- Council 'EPSRC'
- Document type 'Standard Proposal'
- Scheme 'Standard...'
- On the Project Details page you should select the '[invite only – Energy Demand Research Centre]' call.

After completing the application:

- You must 'Submit document' which will send your application to your host Organisation's administration
- Your host Organisation's administration is required to complete the submission process. Applicants should allow sufficient time for your Organisation's submission process between submitting your proposal to them and the call closing date

EPSRC must receive your application by **4pm on 28 February 2023**

As well as the Joint Electronic Submission (Je-S) Application Form, the following documents must be submitted:

1) Case for support – (8 pages plus technical annex)

Two-pages detailing the relevant expertise and track record of each investigator will bring to the research programme.

Six-pages to address the following areas:

- Background
- Vision and ambition
- Research objectives
- Research programme and methodology
- National Importance
- Relevance to stakeholders
- Theory of Change

Technical support annex to provide additional information on the research - maximum number of pages to equal four times the number of research challenges and themes up to a maximum of 20 pages.

The format of the technical annex within this page limit is up to the applicant to decide but must clearly demonstrate how these challenges / themes are being addressed in an interdisciplinary way, not just multiple disciplines working independently towards a goal.

2) Equality Diversity and Inclusion (EDI) plan – (Additional document - maximum 2 pages)

This document should detail the routes and mechanisms by which EDI will be achieved and the outputs that are expected. The EDI plan should consider all aspects of the Centres activities, including achieving diversity of advisory board members and of participants in research, engagement and networking activities.

3) Workplan (4 page – including 1 page for risk register table)

It is not expected that this will include a Gantt chart for the whole time of the project but should include a comprehensive plan for the first 12 months of the project and then refer to the management strategy to give appropriate milestones for when important decisions on the direction will be taken. You should include key dates for any flexible funding calls (if relevant) and Advisory Board meetings.

The risk register table should detail the top risks for each work-package, the likelihood and impact of each risk and briefly detail any mitigating steps which should be taken.

4) Management plan (Additional Document - 2 Pages)

Details of how the management structure will function, including a day-to-day management strategy. Details of how external advice streams will be assembled.

Monitoring strategy, including how the direction of the research activity will be assessed internally.

5) Communication and engagement plan (Additional Document - 2 Pages)

Detail how the Energy Demand Research Centre will develop a communications and engagement plan stating how the centre will work with stakeholders and ensure that the right content is going to the right people, at the right level and at the right time (i.e., to feed results into policy cycles etc). Each activity should be monitored to gauge effectiveness.

Describe how the centre will also develop an engagement plan which will enable interactions with existing networks and groups who can carry the centres messages to the interested stakeholders, detailing how it will evolve throughout the lifetime of the centre. This will be more about how to target key stakeholders who would take-up the outputs from the centre for maximum impact.

6) Data management plan (Additional Document - 2 Pages)

Please note that this goes beyond the UKRI policy framework on research data. A data management plan should incorporate data management into the research cycle to ensure that generated data can be made available and re-used to the maximum extent possible at the end of a grant.

This must detail how the Energy Demand Research Centre will:

- Curate the data – ensure any captured data is in a format that is easy to interpret or analyse, feature accurate metadata to describe what the data is and if necessary is anonymised to protect personal data.
- Make sure the data is freely accessible – the data must be deposited somewhere that is freely accessible and features a front end that makes the data easy to find.
- Sign-post the data – links to the data must be included in presentations, reports, research journals, posters and other publications when appropriate.

The new centre must also explain how it intends to handle and archive useful data from CREDS, so as to ensure continuity.

7) Justification for resources (2 pages)

This should be a narrative description of the need for the resources requested.

Please see [Justification of resources – UKRI](#) for more information.

8) Letters from host universities

Letters are required from all universities with named staff on the proposal and should be signed by the Pro-VC for Research, or equivalent. The letters should explain:

- How the new centre would align with the university's research strategy
- Any commitment (direct or in-kind) the university will be contributing
- What support will be given to staff involved in the centre

Please combine all letters into one document and upload into Je-S as 'Host organisation Statement' attachment type

9) CVs (up to two A4 sides each) for named:

- postdoctoral staff, researcher co-investigators (research assistants who have made a substantial contribution to the proposal and will be employed on the project for a significant amount of time)
- visiting researchers

10) letters of support from all project partners included in the Je-S form (no page limit), [EPSRC guidance on project partners letter of support](#)

You should attach your documents as pdfs to avoid errors. They should be completed in single-spaced Arial 11 font or similar-sized sans serif typeface

Advice on writing proposals.

Ethical information

EPSRC will not fund a project if it believes that there are ethical concerns that have been overlooked or not appropriately accounted for. All relevant parts of the 'ethical information' section must be completed.

Guidance on completing ethical information on the Je-S form.

EPSRC guidance can be found under 'additional information'.

How we will assess your application

Assessment Process

The proposal will be assessed in two ways by a panel. Firstly, through written assessment and secondly via interview. Panel members will provide anonymous written reviews which will be sent to the Principal Investigator via Je-S. The Principal Investigator will then be invited to submit a response to the reviewers' comments.

The Principal Investigator (Champion) and Co-Champion will then be invited to attend an interview. The interview panel will consider the submitted proposal, reviews and response to reviews and lead a discussion with the Champions to enable them to assess whether the proposed Centre meets the assessment criteria sufficiently.

There are three potential outcomes from the panel

- 1) The panel recommends that the Centre is funded
- 2) The panel recommends that amendments are made to the Centre proposal. Funding will be subject to suitable amendments being made.
- 3) The panel considers the Centre proposal does not sufficiently meet the assessment criteria and does not recommend it for funding.

It should be noted that if concerns have been raised by the panel during the review stage, the applicants should consider this as a feedback loop with the panel, utilising the opportunity to alleviate their concerns or to consider potential modifications as part of the PI response and interview discussion.

Assessment Criteria

Quality (primary)

Making reference to:

- Fit to the opportunity's objectives, including an effective, well-articulated vision and strategy for the next interdisciplinary Energy Demand Research Centre, and plans for longer term sustainability
- A programme of work developed in partnership and through co-creation, with evidence of how stakeholder engagement has contributed to the centre strategy and how the programme of work will deliver the vision
- Suitability of the work packages and plan for leading and managing a successful interdisciplinary centre delivering impact at both national and international levels
- Suitability of the plan for supporting the development of capacity and capability, including an interdisciplinary community, and embedding ethics and equality, diversity, and inclusion throughout the Centre
- Effectiveness of the Centre to be responsive/agile to changing national priorities and changes to the energy landscape

National Importance (Secondary major)

How the research:

- contributes to or helps maintain the health of other disciplines
- contributes to addressing key UK societal challenges
- contributes to future UK economic success and development of emerging industry or industries
- meets national needs by establishing or maintaining a unique world-leading activity
- complements other UK research funded in the area, including any relationship to the UKRI portfolio
- plans for dissemination and knowledge exchange with potential beneficiaries of the research.

Applicants and partnerships (secondary)

The ability to deliver the proposed work, making reference to:

- appropriateness of the track record of the applicant(s), giving evidence of a profile within the research community for research excellence
- The balance of skills of the project and management team, including academic and non-academic partners
- Effectiveness and agility of the plan for stakeholder engagement and knowledge mobilisation strategies involving diverse stakeholders, including the UKRI office
- awareness of the landscape of activities already undertaken and linking to existing investments where appropriate, in order to create a maintain and develop a vibrant ecosystem in energy demand research
- Details of level of commitment from the industrial partner/s and how additional leverage could be accessed over the lifetime of the award

Resources and management (secondary)

The effectiveness of the proposed planning and management and whether the requested resources are appropriate and have been fully justified, making reference to:

- Appropriateness of delivery, management, and governance arrangements, plans for monitoring and evaluation
- The effectiveness of the governance, centre support and management structure including partners
- The appropriateness of the proposed planning, including a clear timeline for at least the first 6 months
- The appropriateness and justification of the requested resources, and the agility and process for awarding the flexible fund allocation throughout the project
- the suitability of the proposed methodology and the appropriateness of the approach to achieving impact.
- Demonstrable skills and expertise in the core team required to deliver the Centres objectives

Feedback

Feedback from the panel will be provided in the form of their written assessment ahead of the interview panel and in writing from UKRI following the interview panel.

Feedback following the interview could take the form of advice to be considered during the delivery of the Centre; as required amendments that need to be addressed in order for funding to be given, or to provide feedback on why the proposal is not being funded.

The panel will expect their feedback to be addressed in the PI response and during the Interview, ensuring the applicants are utilising the opportunity to alleviate their concerns or to consider potential modifications as part of the PI response and interview discussion.

Contact

For help and advice on costings and writing your proposal please contact your research office in the first instance, allowing sufficient time for your organisation's submission process.

Ask a question about the opportunity

Contact Amanda Howes on Amanda.howes@epsrc.ukri.org cc'ing in energy@epsrc.ukri.org

Get help with Je-S

Any queries regarding the submission of proposals through Je-S should be directed to the Je-S helpdesk.

Email

jeshelp@je-s.ukri.org

Telephone

01793 444164

Je-S helpdesk opening times

Additional information

Background

'Energy demand reduction' was identified as one of the top three priorities for the **UKRI Energy Programme**, with Energy Demand appearing as a commitment in both of the recently published delivery plans for **EPSRC** and **ESRC**.

There will be a huge need to reduce energy demand as we increase our dependency on electrification. It is essential that the UK is the leader in understanding the changes in energy demand needed for the transition to a secure and affordable net zero society, as set out in the government's **net zero strategy**.

The Climate Change Committee has stated in its report **net zero: the UK's contribution to stopping global warming** that a net zero greenhouse gas target for 2050 is achievable with known technologies, interacting with behavioural changes.

However, this is only possible if well-designed policies to further reduce emissions are introduced across the economy, as current policies are insufficient even for the existing targets. Research into equitable energy demand is therefore paramount to ensure that these targets are met through quick actions and an evidence base supporting any policy changes.

In 2018, EPSRC and ESRC funded the **Centre for Research into Energy Demand (CREDS)** to address a broad range of issues to transform the energy demand sector. These cross-cutting issues include:

- buildings and energy
- transport and mobility
- materials and products
- digital society
- decarbonisation of heat and fuel
- transport poverty
- decarbonisation of the steel industry.

CREDS are currently a team of over 140 people based in 26 UK organisations.

This funding opportunity will deliver a Centre that will drive world-class research to transform the energy demand landscape and help deliver the changes needed for a net zero society. As set out in the Climate Change Committee report **behaviour change, public engagement and net zero**, this research will inevitably have to look at combining behavioural changes with technological advances.

This call delivers to UKRIs 2022 – 2027 Strategy Transforming tomorrow together, to support World Class Ideas and advances the frontiers of human knowledge and innovation by enabling the UK to seize opportunities from emerging research trends, multidisciplinary approaches and new concepts and markets.

This call responds to EPSRC's Engineering Net Zero, and ESRC's Net Zero, environment, biodiversity and climate change strategic priorities.

The EPSRC and ESRC strategic delivery plans for 2022-2025, set out their commitment to energy demand reduction:

EPSRC will deliver solutions to reduce our energy demand and increase efficiency across all greenhouse gas emitting, resource consuming and polluting systems and sectors, taking a whole systems approach working across UKRI.

ESRC will invest in ambitious new interdisciplinary programmes on climate change mitigation and adaptation, including a new programme on energy demand reduction with EPSRC, as well as the economics of climate change.

Responsible innovation and trusted research

Responsible innovation creates spaces and processes to explore innovation and its consequences in an open, inclusive and timely way, going beyond consideration of ethics, public engagement, risk and regulation. Innovation is a collective responsibility, where funders, researchers, interested and affected parties, including the public, all have an important role to play.

UKRI is fully committed to developing and promoting responsible innovation. Research has the ability to not only produce understanding, knowledge and value, but also unintended consequences, questions, ethical dilemmas and, at times, unexpected social transformations. We recognise that we have a duty of care to promote approaches to responsible innovation that will initiate ongoing reflection about the potential ethical and societal implications of the research that we sponsor and to encourage our research community to do likewise.

In addition to UKRI principles on **trusted research and innovation**, we expect applicants to follow **guidance and best practice in working to reduce vulnerabilities to UK national infrastructure**.

Grant Additional Conditions

Grants are awarded under the standard **UKRI grant terms and conditions**. There will also be grant conditions that cover the following aspects:

- The mid term review of the Centre
- Monitoring and reporting requirements
- Fixed start date
- Equality Diversity and Inclusion
- Consortia collaboration agreement
- Independent strategic advisory board
- Flexible funding

Links to supplementary information

- [Resubmissions](#)
- [Repeatedly unsuccessful applications](#)
- [Equipment](#)
- [Use of animals](#)
- [Responsible research and innovation](#)
- [Ethical considerations](#)
- [Equality, Diversity, and Inclusion](#)
- [Reviewer selection](#)
- [Conflicts of interest](#)

San Francisco Declaration on Research Assessment (DORA)

Je-S attachments Check List

Attachment Type	Maximum Page length	Mandatory/Optional	Extra Guidance
Case for Support	Eight pages plus technical annex Technical annex is page limited to 4 times the number of research challenges / Themes up to a maximum of 20 pages.	Mandatory	Comprising up to two A4 sides for a track record, up to six pages to describe the proposed research and its context Technical annex must include details of the interdisciplinary approach
Additional Document	Two pages	Mandatory	EDI Plan
Workplan	Four pages	Mandatory	To include a one page risk register
Additional document	Two pages	Mandatory	Management Plan
Additional document	Two pages	Mandatory	Communication and Engagement Plan
Additional document	Two pages	Mandatory	Data management Plan
Justification for Resources	Two pages	Mandatory	
Host organisation statement	Maximum two pages per institution	Mandatory	One document combining host statements from all institutions with named Investigators
CVs	Two pages each	Mandatory	For named and visiting researchers, and researcher co-investigators only.
Project Partner Letters of Support	No page limits	Mandatory	Must be included from all named project partners. Must be on headed paper, be signed and dated within six months of the proposal submission date.
Proposal Cover Letter	No page limit	Optional	The cover letter can be used to highlight any important

			information to EPSRC. This attachment type is not seen by reviewers / panel members.
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Please ensure you adhere to the above attachment requirements when submitting your proposal. Any missing, over length or unnecessary attachments may result in your proposal being rejected.