

# UK Research Partnership Investment Fund

## Round seven: FY 2023-25

### Annex B: Building works, equipment purchases and environmental sustainability

#### Section 1: Information on building works and equipment purchases

Please complete this annex and include in your bid submission.

Use minimum 11pt font size. Text box widths should not be adjusted.

<b>Lead Higher Education Provider (HEP)</b>	
<b>Project title</b>	

1. Confirm that an options appraisal has been undertaken for the project. This should compare the costs and benefits of the project with doing nothing and show that the project produces a net present value (NPV) which is more favourable than the doing nothing option. You may be asked to provide the detailed appraisal at any time during the application and assessment process.

	Undertaken [Yes/No]	Positive NPV [Yes/No]	More favourable than doing nothing [Yes/No]
<b>Options appraisal</b>			

## Coherence with institutional strategies

2. Set out below relevant extracts from institutional strategies which demonstrate that the proposed capital and research activity is consistent with institutional planning and links with existing infrastructure and estates strategies.

Provide document references where possible. If the proposed capital and research activity has not previously been referred to in institutional planning documents but has been developed as a new initiative, please indicate how it will fit with and support the strategic direction of the higher education provider.

## Projects involving building work

3. Provide the name(s) and location(s) of building(s) where appropriate.

(maximum 50 words)

4. Provide a description of the works.

(maximum 300 words)

<b>Estimated start date</b>	
<b>Estimated completion date</b>	
<b>Current Royal Institute of British Architects (RIBA) plan of work stage</b>	

<b>Name of Estates contact</b>	
<b>Position</b>	
<b>Phone</b>	
<b>Email</b>	

## Building works

5. To assess the value for money delivered by the project, provide an analysis of the estimated component costs. A simplified version of the Royal Institute of Chartered Surveyors Building Cost Information Services standard analysis is provided below to support consistent judgements. These will take into account cost per square metre (m<sup>2</sup>).

Element	New build cost (£)	Refurbishment cost (£)
Substructure		
Frame and upper floors		
Roof		
Stairs		
Windows and external walls and doors		
Internal walls, partitions and doors		
Finishes		
Fittings		
Sanitary appliances		
Mechanical services		
Electrical installations		
Lifts		
Site works and drainage		
External services		
External works		
Enabling works		
Total (excluding contingencies)		
Contingencies		
Total building cost		
Other specialist works (please state, adding additional rows as required)		
VAT		
Professional fees (incl. VAT)		
Fitting out (incl. VAT)		
Any allowance for increased costs between the bid and the awarding of the contract		
<b>Total project cost</b>		
Gross floor area (m <sup>2</sup> )		
Net floor area (m <sup>2</sup> )		
Number of storeys		
Geographical location of the project		
<b>At prices current on</b>	<b>_____ (state date)</b>	

6. List and quantify any special factors that will affect construction costs or the timetable for delivery, such as site conditions, restricted access, town planning constraints and special requirements.

(maximum 150 words)

### Projects involving equipment purchases

7. Complete the tables below for proposals that involve equipment purchases. If equipment is a material part of the bid, briefly describe the key elements or components and indicate any special procurement considerations. Add additional rows as required.

<b>Total equipment cost</b>	£
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<b>Major item of equipment</b>	<b>Description</b>	<b>Cost (£)</b>	<b>Special procurement considerations for this item</b>

<b>Name of equipment contact</b>	
<b>Position</b>	
<b>Phone</b>	
<b>Email</b>	

### Procurement

8. Describe the procurement processes used to secure best value over the life of the proposed capital activity. This should include competitive tendering and whole-life costing. You are required to comply with all relevant national and international procurement rules.

(maximum 200 words)

## Section 2a: Environmental sustainability and carbon impacts

Complete the following section to demonstrate that due consideration has been made to reducing the potential environmental impacts of the proposed capital and research activity.

In its 2020 Environmental Sustainability Strategy<sup>1</sup>, UKRI set out a number of objectives to address its own environmental impacts as an organisation, including to reduce and mitigate all carbon emissions from its owned operations to achieve 'net zero' by 2040, and to use its financial power to drive positive environmental change in the research and innovation sectors, while continuing to meet societal needs. Research England is committed to supporting the development and implementation of these aims.

As part of the UKRPIF assessment process, **the funding panel will consider the extent to which applicants have accounted for and, where possible, mitigated the potential environmental impact of any new capital and research activity.**

9. Indicate how the approach to the proposed capital and research activity aligns with and accounts for institutional and national strategies concerning environmental sustainability and carbon reductions.

(maximum 500 words)

10. Indicate which environmental sustainability framework(s) and certification the proposed capital activity will be developed to (e.g. BREEAM, PAS 2080 etc). Where relevant, indicate the intended level.

(maximum 100 words)

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<sup>1</sup> <https://www.ukri.org/wp-content/uploads/2020/10/UKRI-050920-SustainabilityStrategy.pdf>

## Section 2b: Environmental sustainability checklist

This framework identifies a number of key considerations contributing to environmental sustainability that could be relevant to the types of HE infrastructure supported by UKRPIF. Please indicate how these considerations have/will be factored into the proposed capital activity.

Please note that this should be treated as a guide and therefore the list is neither exhaustive nor prescriptive.

### Energy and Greenhouse Gases

#### 1. Energy usage

Building design	Notes
<ul style="list-style-type: none"> <li>• Repurposing/reusing existing buildings (where possible) has been considered as an option.</li> <li>• If a new building is not required, improvements to the efficiency of the existing building (e.g. insulation) have been considered.</li> </ul>	(maximum 50 words)
Heating and cooling systems	Notes
<ul style="list-style-type: none"> <li>• Efficient options have been/will be sought.</li> <li>• Consideration has been given to heat recycling.</li> <li>• Consideration has been given to siting the infrastructure to utilize natural heating or cooling.</li> </ul>	(maximum 50 words)
Equipment design and manufacture	Notes
<ul style="list-style-type: none"> <li>• Efficient options have been/will be sought. This includes taking into account the whole life costings of equipment.</li> </ul>	(maximum 50 words)
Equipment operations	Notes
<ul style="list-style-type: none"> <li>• Efficient options have been/will be sought.</li> <li>• Consideration has been made of whole life costing of equipment when comparing options.</li> </ul>	(maximum 50 words)

## 2. Energy source

Renewable sources	Notes
<ul style="list-style-type: none"><li>• Opportunities for on-site generation (i.e. solar, wind, heat pumps) have been explored.</li><li>• Opportunity for off-site generation (i.e. solar, wind, hydro) have been explored.</li><li>• Energy bought in for developing and operating the infrastructure will be on a 100% REGO-backed green tariff.</li></ul>	(maximum 50 words)

## 3. Embodied energy (supply chain)

Procurement - production	Notes
<ul style="list-style-type: none"><li>• Environmental credentials and impact of the supply chain are included in procurement selection processes and form part of the procurement decision process.</li></ul>	(maximum 50 words)
Procurement - transportation	Notes
<ul style="list-style-type: none"><li>• In selection of suppliers, questions are raised on the emissions involved in sourcing and delivery.</li></ul>	(maximum 50 words)

## Resources

Waste management	Notes
<ul style="list-style-type: none"><li>• Principles of the waste hierarchy in waste management planning have been applied to minimise the creation of waste and optimise re-use and recycling to avoid landfill.</li></ul>	(maximum 50 words)
Water management	Notes
<ul style="list-style-type: none"><li>• Consideration has been made of efficient water management.</li></ul>	(maximum 50 words)

<p><b>Reduce harmful materials</b></p> <ul style="list-style-type: none"> <li>• Consideration has been made of the use and impact of any harmful materials. Alternatives opted for (where possible) or action taken to mitigate harm wherever possible. Considerations to include: <ul style="list-style-type: none"> <li>• Extraction/formation (e.g. raw/rare earth materials)</li> <li>• Production</li> <li>• Degradation with use</li> </ul> </li> </ul>	<p><b>Notes</b></p> <p>(maximum 50 words)</p>
<p><b>Use sustainable materials</b></p> <ul style="list-style-type: none"> <li>• Materials are captured, reused and recycled where possible.</li> <li>• Use of single-use consumables in construction and operation of infrastructure and equipment minimised.</li> </ul>	<p><b>Notes</b></p> <p>(maximum 50 words)</p>
<p><b>Repurposing an existing infrastructure (where possible) versus building new</b></p> <ul style="list-style-type: none"> <li>• Repurposing an existing infrastructure, if it is viable, has been considered as an option. This may not always be possible, or the best option, but should be considered in options analysis/Preliminary Activities.</li> </ul>	<p><b>Notes</b></p> <p>(maximum 50 words)</p>

**Wider environment**

<p><b>Physical location (noting that other factors besides environmental sustainability will play a significant role in determining location)</b></p>	<p><b>Notes</b></p>
<ul style="list-style-type: none"> <li>• Opportunities to harness renewable energy sources onsite (e.g. wind, solar, heat pumps) have been explored.</li> <li>• Ability to utilise natural heating or cooling has been explored.</li> <li>• Proposed activity minimises biodiversity and habitat loss.</li> <li>• Consideration has been given to impact of location on requirements for travel and travel options (e.g. public transport availability), for staff and users/participants.</li> <li>• Consideration has been given to availability of local resources, e.g. building materials.</li> </ul>	<p>(maximum 50 words)</p>



<b>Pollution risk in construction and operation</b>	<b>Notes</b>
<ul style="list-style-type: none"> <li>• Consideration has been given to the raw materials used in the infrastructure to ensure minimal environmental damage where options for raw materials exist.</li> </ul>	(maximum 50 words)
<b>Ecology and biodiversity</b>	<b>Notes</b>
<ul style="list-style-type: none"> <li>• Disturbance to wildlife and/or habitat loss is minimised.</li> <li>• Ecology and biodiversity is enhanced, e.g. habitat creation (e.g. green walls/roofs).</li> </ul>	(maximum 50 words)
<b>Flexible and durable design to adapt to and meet future needs</b>	<b>Notes</b>
<ul style="list-style-type: none"> <li>• Consideration has been made of durability and flexibility of infrastructure in light of future needs for a changing climate.</li> </ul>	(maximum 50 words)
<b>Decommissioning</b>	<b>Notes</b>
<ul style="list-style-type: none"> <li>• Circular disposal – consideration has been given to end of life at the design stage (including considerations for decommissioning).</li> </ul>	(maximum 50 words)
<b>Sustainable travel/use policy</b>	<b>Notes</b>
<ul style="list-style-type: none"> <li>• Consideration has been given to ways of supporting sustainable travel and use of the infrastructure, including: <ul style="list-style-type: none"> <li>• Remote use and virtual technologies</li> <li>• Public transportation links</li> <li>• EV charging</li> <li>• Cycle provision (access, safe bike storage and facilities for cyclists)</li> </ul> </li> </ul>	(maximum 50 words)