

# EarthScale Guidance pack



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### What is EarthScale?

Scaling today's climate innovations is vital in winning the fight against climate change. But, while considerable support exists for climate innovations at the initial startup stage, there is a marked lack of support for the innovations as they scale-up their commercial deployment.

EarthScale offers a new 12-month programme supporting IP-rich climate tech startups and spinouts from across the UK to scale and creating a lasting ecosystem for successful UK scale-ups, targeting innovators with demonstrated exposure to the market, including investment, grants and/or revenue. The first EarthScale cohort will include 20 ventures.

Built around a network of university-led regional hubs for climate innovation, galvanising local innovators, corporations, investors, public sector actors and agencies, EarthScale's founding members include:

- Imperial College London (lead partner)
- Cranfield University
- University of Derby
- University of Exeter
- University of Leeds
- University of Nottingham

EarthScale is a 3-year project co-funded by the Research England fund, part of UK Research and Innovation.

# What to expect from the programme?

Upon onboarding to the programme, a venture diagnostic will be completed to better understand each venture's needs to scale and assess what support is required. EarthScale will offer a holistic approach as part of its programme to bridge the funding gap.

- Technical and Manufacturing Support: access to expertise and facilities across the UK, including from participating universities, introduction to manufacturers
- **Enterprise Development**: scaling advice, including introduction to investors and potential commercial partners through regional networks and events
- Talent and Peer Engagement: developing a company culture, attracting the right talent and learning from peers with a focus on executive roles
- Navigating Policy and Regulation: engaging with policy makers, policy roundtables, support with certifications

The programme will involve bespoke support such as access to technical expertise and facilities, advice from non-executive directors (NEDs) and experienced operators, as well as workshops, roundtables, events. Delivery will be online, in-person or hybrid depending on the type of activity. This is to ensure active participation to the programme from companies across the UK while also enabling connections between cohort members.

On average, we expect that each venture will have to commit the equivalent of 2 days per month for workshops, events (those may be divided in shorter sessions across multiple days depending on the format) and a 30-minute check-in call per month. Time commitment on bespoke support might vary depending on the venture's needs.

The above is not an exhaustive list. As EarthScale's network of regional hubs grow and more ventures join its programme, we will be able to tailor and extend our programme offer.

By the end of the 12-month programme, each venture should have advanced in their technology, manufacturing and commercial readiness levels and be ready to raise Series A investments.

# **Eligibility Criteria**

Eligibility for businesses to participate in the cohort:

#### The business

- Registered and operating in the UK
- Classified as in the LCEGS (Low Carbon and Environmental Goods and Services) sector i.e. developing a product or service that significantly reduces or removes greenhouse gas emissions, or operates in a sector that plays a vital role in climate change mitigation or adaptation.
- **Seed investment** or equivalent raised (at least £500,000)
- Demonstrated market and commercial readiness (level 6), including a commercial model showing economic viability (includes data from test sales), and first commercial sales and implemented sales process (evidence of initial traction)<sup>1</sup>

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<sup>&</sup>lt;sup>1</sup> More information on readiness levels available in the Annex at the end of this document.

#### The solution

- Deep tech hardware or hybrid solution
- Solution being at **Technology Readiness** Levels 5 or 6 i.e. Technology validated or demonstrated in relevant environment<sup>1</sup>
- Manufacturing readiness Ready to consider manufacturing in relevant environment
- Company is founded on STEM (science, technology, engineering and maths)
  research
- Funded by UK research councils are preferred

We recognise the positive value of diversity in innovation and in society - we strive to uphold equality and aim to challenge discrimination. We recognise that we have an under-representation of women, black and other minority ethnic groups, and disabled persons, neurodivergent persons, and the LGBTQI+ community in our startup portfolios, and encourage more applications from people who identify as part of these groups.

We therefore welcome and encourage questions and applications from people of all backgrounds. You can come from any university (or none at all) and have any kind of educational or professional background.

EarthScale values equity, diversity, and inclusion to improve representation across all its activities.

# **Application and Selection Process**

Ventures wishing to join EarthScale can do so by completing the application form available here https://forms.office.com/e/eNVkf8eQtf.

#### The selection process will be the following:

Applications will be reviewed by a selection committee composed of people with expertise in climate innovation including research, manufacturing and investment.

Shortlisted applicants will be invited to an interview (online or in-person) to further discuss the venture's needs and motivation to join EarthScale.

The selection committee will decide on the final selection for the cohort (~20 ventures).

# **Key dates**

Application round opens	26th June 2025	
Q&A sessions	Throughout July and August 2025.	
	Dates available on our website at the	
	beginning of July.	
Deadline for application forms to Cohort 1	7 <sup>th</sup> September 2025 at 23.59pm (UK	
	time)	
Shortlisted applicants notified	19 <sup>th</sup> September 2025	
Interviews for shortlisted applicants	Between 22 <sup>nd</sup> September and 30 <sup>th</sup>	
	September 2025	
Application outcome	3 <sup>rd</sup> October 2025	
Anticipated programme start and	13 <sup>th</sup> October 2025	
onboarding		
Overall Programme Completion	October 2026	
This timeline is preliminary and subject to change.		

### **FAQ**

### Can I save or edit my response?

You can only edit your response after submission by signing in to a Microsoft account (If you do not have an account, there is an option to create one once you have clicked the save my response to edit button). There is also the option to print the form by clicking on the 3 dots at the right-hand corner of your screen, but you will not be able to edit it. Please see Figure 1 for visual to show this.

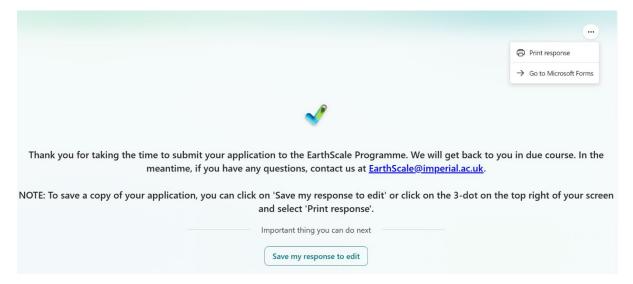


Figure 1 Alt Text: A confirmation screen for application to the EarthScale Programme. The screen includes a checkmark icon and text thanking the user for their submission, stating that they will be contacted in due course. It provides an email address (EarthScale@imperial.ac.uk) for questions. Instructions are given to save a copy of the application by clicking 'Save my response to edit' or using the 3-dot menu at the top right to select 'Print response'.

### What do you mean by 'deep tech'?

We define deep tech broadly: science-based solutions grounded in significant research or engineering innovation. Software is eligible if it is linked to manufacturing a product, but not software-only solutions.

### What kind of solutions are eligible?

EarthScale is supporting deep tech solutions addressing climate change. Due to the nature of the programme, which has a focus on manufacturing, we are prioritising on hardware and hybrid solutions over software-only solutions.

### What stage does my venture have to be at to take part?

Your solution should be:

- At Technology Readiness Level (TRL) 5 or 6.
- At a stage where **seed investment** or equivalent funding has been secured.
- At a stage where you can demonstrate market traction, including key assumptions of commercial model tested on market and, customers in extended testing, first test sales or small number of active users

We recommend you check the Eligibility Criteria section to ensure your business profile fits the EarthScale programme.

# More information on readiness levels available in the Annex at the end of this document.

#### Do you take a stake in my technology?

Neither the programme nor its affiliated partners are seeking an equity stake.

#### Do I need to be connected to a university?

No. While some startups may be based on university research, it is not required. Many UK innovations emerge from a variety of research organisations and independent founders which we welcome applications from.

#### What kind of support do I get from EarthScale? Is there a cash award involved?

EarthScale is offering in-kind support as outlined in the 'What to expect from the programme?' section. EarthScale does not provide any grant or cash award.

#### What facilities and experts can I access?

Participants will have access to a broad network of academic and industry contacts, as well as specialised facilities and resources. Access to specific experts or facilities may depend on availability and funding, but we will work closely with each startup to identify and connect you with the most relevant support where possible.

### How can I find out more about the regional hubs involved in EarthScale?

EarthScale's support programme is powered by a UK-wide network of universities led by Imperial College London. Besides Imperial, EarthScale's founding members are Cranfield University, University of Derby, University of Exeter, University of Leeds and University of Nottingham.

Our unique model includes a network of regional university-led hubs, designed to connect local businesses, innovators, investors, and public sector partners. Each hub is embedded in a thriving local ecosystem, offering tailored support and deep sector expertise. Find out more about Partner hubs here.

# Can we participate in other support programmes while participating in EarthScale?

Participation in this programme does not preclude you from participation in wider support programmes. However, the programme requires commitment from all its participants. It may be time consuming to be involved in too many programmes. We will discuss this with participants though generally we are open to startups also being able to receive support through other avenues.

# If I'm not yet eligible or my application is unsuccessful, will I be able to apply at a later stage?

Yes, EarthScale is initially funded until March 2028 and we are planning to recruit another cohort in 2026.

#### Is the support from EarthScale categorised as Subsidy control?

Yes, it is. EarthScale is co-funded by the Research England fund, part of UKRI. The support provided under the programme counts as subsidy under the Minimal Financial Assistance (MFA) category.

You can find further information on subsidy control on page 17-18 of this guidance.

#### Do you sponsor visas?

Unfortunately, we are not able to sponsor visas at this time.

### When can I expect a reply regarding my application?

Applicants will be notified of their status at different stages. Outcomes of the preselection for interview are expected on 17<sup>th</sup> September, and final selection outcomes are expected on 3<sup>rd</sup> October.

For the full timeline, check the Key Dates section of this guidance.

#### How can I request reasonable adjustments?

We're committed to accessibility. If you require reasonable adjustments for the application process, please email us at <a href="mailto:EarthScale@imperial.ac.uk">EarthScale@imperial.ac.uk</a>.

#### I have more questions. Who can I contact?

Reach out to us at <a href="mailto:EarthScale@imperial.ac.uk">EarthScale@imperial.ac.uk</a>. We're here to help!

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# **Guidance on Application Form Questions**

<u>In this section you will find additional information</u> to guide you through specific questions.

Please note we strongly advise that you draft your application in advance on a separate document and paste your responses into the form.

We are using Microsoft Forms and you will need to complete the form in a single pass. You will only be able to save and edit a copy of your responses once the form has been submitted by login onto Microsoft you can also print a copy. Further information is available in the FAQ.

If you require reasonable adjustments for the application process, please contact: <u>EarthScale@imperial.ac.uk</u>.

### **Word Count**

Please make sure you address the questions fully. However, please note, the word count is only a guide, you do not have to write to the maximum word count if it is not necessary.

### **Eligibility Section**

### Q2. Is the company a subsidiary of a company operating outside of the UK?

If the company is owned by a non-SME or SME outside of the UK, you will not be eligible for the programme. Your headquarters of operations and registration should be in the UK.

### **Business Information**

We understand that sharing this information can feel sensitive, and we want to reassure you that the details you provide will remain strictly confidential and only be shared with the application review panel. These questions help us gain a clearer picture of your startup's current stage and financial journey, enabling us to tailor our support effectively. They are intended to better understand how we can support your growth and success.

# Q19. How much public funding have you received in GBP (£) in the past 3 years (2022-2025)?

### **UK Subsidy Control Guidance**

As of 2023, under the <u>Subsidy Control Act</u> the UK has its own subsidy control rules, replacing the old EU State Aid regulations. You can find more detailed guidance <u>here.</u> You will need to assess whether you have met the criteria for subsidy control independently.

**Funding Limits**: Your business can receive up to £315,000 in subsidies over a three-year period. This includes any aid received under previous EU rules and the UK-EU Trade and Cooperation Agreement. If you receive support from this programme provided by Imperial College London, funded by Research Development England (RED) it counts towards this £315,000 limit.

You must declare all the aid your business has received in the last three years to ensure you don't exceed the £315,000 limit.

**Types of Aid**: Aid can come in many forms, such as grants, loans, tax benefits, training, consultancy, and more. If you're unsure whether something counts as aid, check with the organisation that provided it.

#### Examples of Aid:

- Grants from public bodies
- Loans at favourable rates
- Tax benefits
- Free or discounted consultancy and training
- Environmental project funding
- Infrastructure benefits

For more detail, please refer to the list of examples in the Annex.

# Q21. Please input an open access link to a spreadsheet document of your capitalisation table.

#### You can find the template here.

A Capitalisation Table is a table providing an analysis of a company's percentages of ownership, equity dilution, and value of equity in each round of investment by founders, investors, and other owners. Please list all founders (active and non-active), investors and any other relevant person in your venture according to the specifications below:

- (1) Level of commitment: time commitment to the start-up in percentage. E.g. 100% = 1 FTE i.e. 40h/week, 50% = 0.5 FTE i.e. 20h/ week, etc.
- (2) Active founders should have a large majority share with a reasonably equal distribution. Please use this Excel template here and save the file as "Business Name\_Cap Table\_EarthScale25."

### The Problem

# Q23. What specific climate problems does your innovation address? (Max 300 words).

Be precise about the climate/environmental issue your solution targets. Avoid general statements about climate change. Instead, focus on measurable problems like carbon emissions, energy inefficiency, water scarcity, waste management, or biodiversity loss. Quantify the scale of the specific climate problem and how much your solution will

tackle. (i.e. carbon savings, reduction by x in specific harmful gases or materials, removal of x tonnes of specific material or dirty technology from cycle, reduction by x of energy consumption etc.)? Please include a comparison of how your product or service improves on the impact of the standard industry solution where relevant (i.e. x % reduction in carbon emissions as compared to a standard y).

# Q24. Does your solution mitigate climate change and/or support adaptation to its effects?

#### Options:

- Adaptation
- Mitigation
- Both

<u>Climate adaptation</u> refers to the ability of a system to adjust to climate change (including climate variability and extremes) to moderate potential damage, to take advantage of opportunities, or to cope with the consequences. The IPCC defines adaptation as the "adjustment in natural or human systems to a new or changing environment. Adaptation to climate change refers to adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities. Various types of adaptation can be distinguished, including anticipatory and reactive adaptation, private and public adaptation, and autonomous and planned adaptation."

<u>Climate mitigation</u> is any action taken to permanently eliminate or reduce the longterm risk and hazards of climate change to human life, property etc. The International Panel on Climate Change (IPCC) defines mitigation as: "An anthropogenic intervention to reduce the sources or enhance the sinks of greenhouse gases."

### The Solution

#### Q25. What is your value proposition? (Max 20 words)

Clearly articulate the value your solution provides to customers in one sentence. Include benefits, cost savings, or unique features that address customer needs.

#### Q26. What is novel about your solution (Max 300 words)?

Explain what sets your innovation apart from existing technologies or solutions. Highlight the unique features, advantages, or breakthroughs that distinguish your approach. Provide specific comparisons to industry standards, emphasising how your technology is more efficient, cost-effective, sustainable, or groundbreaking.

#### Q28. Please provide a justification of your current TRL level (Max 300 words).

Describe the current stage of your technology development. Provide evidence of testing, validation, certifications and any prototypes through open access links. Mention any relevant research or experiments that support your TRL level.

# Q29. What stage is your climate tech solution at in terms of manufacturing readiness? (Max 300 words)

We want to understand how prepared your business is to manufacture your climate tech solution at scale. Please describe your current manufacturing stage. For example, whether you're at the prototype stage, have conducted pilot manufacturing, have manufacturing partners identified, or are already in limited or full-scale production. Include any relevant supply chain arrangements, manufacturing challenges you've encountered or anticipate, and your plans or needs to move toward production readiness. This helps us assess how best to support your path to market.

### **Impact**

# Q34. If applicable, please state how you have measured the metrics of impact listed, i.e. GHG, energy and/or water. (Max 300 words).

Describe the methods and assumptions used to estimate the outcomes of your impact metrics. Include any supporting evidence, such as lifecycle assessments, pilot data, or independent reports, and provide open-access links where available to help validate your claim.

# Q35. Please describe any additional impact outside of the water, energy and GHG from your solution and state (Max 300 words)

Consider broader sustainability benefits, including biodiversity protection, waste reduction, circular economy contributions, and social or economic advantages. Clearly state how these impacts are measured or validated, using qualitative and quantitative indicators, case studies, comparative assessments, or industry certifications where relevant.

### **Commercial Strategy**

### Q37. Explain your business model. (Max 300 words)

Describe how your business creates, delivers, and captures value. Focus on your revenue streams—how you charge customers, who pays, and what they pay for. Mention your pricing strategy, customer segments, and any recurring or scalable income models. Also include key commercial/technology partners who are a part of the business model.

# Q38. Who are your competitors and/or who might become competitors?(Max 300 words)

Identify current and potential competitors. Being honest here is a positive; it shows that you have a robust understanding of your sector and how you might need to differentiate yourself.

# Q39. What/who is your target market and what markets do you operate in? (Max 300 words)

Clearly define who your target market is and the markets in which you operate. This should include a detailed explanation of customer demographics, industry segments,

geographical reach, and market type (e.g., B2B, B2C, public sector, niche, or mass market).

Provide supporting evidence demonstrating how your solution aligns with the needs and characteristics of your market. Consider including:

- Industry & Sector: Identify the specific industries your solution serves and why they benefit from it.
- Geographical Scope: Outline the regions or countries where you operate or plan to expand. Please specify cities within the UK. This will allow us to connect you with partners within those regions.
- Market Type: Define whether your target audience consists of businesses, consumers, government entities, or specific organisations.
- Customer Profile & Behaviour: Describe customer needs, pain points, purchasing habits, and decision-making factors.
- Market Validation Evidence: Include research, surveys, pilot studies, customer feedback, competitor analysis, or market trends to support your claims.

Your response should articulate why your solution fits within the chosen market, demonstrating demand and potential growth opportunities.

# Q40. Can you describe your current market penetration and share your outlook and timeline for commercial development and achieving profitability? (Max 300 words)

Provide a comprehensive overview of your current market penetration, highlighting key metrics that demonstrate traction, adoption, or sales performance. Include customer base growth, revenue figures, geographical expansion, partnerships, or competitive positioning to showcase market presence.

Additionally, outline your commercial development plans, detailing steps for scaling operations, securing funding, expanding into new markets, and enhancing product offerings. Describe your timeline for achieving profitability, specifying targets, expected revenue growth, key milestones, and any barriers to success. Your response should show strategic foresight and provide a realistic roadmap for long-term commercial success.

### Q41. What are the key milestones you have achieved so far? (Max 300 words)

Outline the major achievements that demonstrate your company's progress and credibility in a bullet point format. Highlight significant product development milestones, such as prototypes, regulatory approvals, or market-ready versions. If applicable, mention strategic partnerships or collaborations that have strengthened your business position. Detail any funding or investment secured, including grants or venture capital that have contributed to growth. Additionally, provide evidence of market entry, customer acquisition, and geographical expansion, showcasing how your solution is gaining traction. This response should emphasise the most impactful moments that validate your business journey, ensuring that stakeholders understand the progress made and future potential.

### Q43. What is your IP strategy? (Max 300 words)

Explain your approach to protecting and managing your intellectual property, detailing any registered or pending patents, trademarks, or proprietary technology. Discuss how trade secrets or innovative methods are safeguarded internally, ensuring long-term competitiveness. If applicable, describe any licensing or commercialisation strategies that allow your intellectual property to generate revenue or expand market reach. Additionally, outline any future plans for securing additional IP, including potential filings or strategic partnerships aimed at strengthening protection. This section should clearly communicate how your innovation is secured, demonstrating foresight and commitment to maintaining a competitive advantage.

### Motivation for joining the programme

# Q44. What is your or your team's motivation for joining the EarthScale programme? (Max 300 words)

Provide a compelling explanation of why you are interested in participating in the EarthScale programme and how it aligns with your mission, goals, and business strategy. If relevant, describe any past engagement with similar programmes and the benefits you have gained. Ensure your response clearly demonstrates your commitment to scaling impactful solutions while contributing to EarthScale's mission.

# Q45. Describe any scaling challenges you have and the next steps in addressing these challenges. Please include challenges you face in advancing the TRL of your solution (Max 300 words).

Highlight the specific challenges your company is addressing and how the programme can support your growth, whether through mentorship, funding, networking, or technical expertise. When describing scaling challenges, focus on both technical and operational aspects, highlighting difficulties in advancing the Technology Readiness Level (TRL) and of your solutions. Key technical hurdles include integration complexity, performance optimisation, and resource management. Operational obstacles encompass production capacity, supply chain management, and regulatory compliance.

### Team and Expertise

# Q47. Describe your team's expertise (including advisors) in this domain and why you work well together (Max 300 words).

Provide a clear overview of your team's expertise and how their skills align with your company's mission. Highlight key qualifications, industry experience, and specialist knowledge that make your team well-equipped to execute your business strategy. If applicable, include details about advisors, mentors, or external experts who contribute valuable insights to your team.

Additionally, describe how your team works effectively together, emphasising collaboration, leadership, and problem-solving approaches. If relevant, discuss team dynamics, communication styles, or shared values that enhance productivity. This

response does not impact application results but helps with diagnostic to assess how we can help with culture and senior team recruitment.

# Q48. What systems do you have for team management, and how do you promote diversity and inclusion? (Max 300 words)

Outline the systems, processes, and tools your company uses to manage your team and maintain cohesiveness. Explain how you structure workflows, encourage collaboration, and ensure efficient communication. Highlight any leadership frameworks, project management software, or performance tracking methods that contribute to a well-functioning team.

Additionally, describe your company's diversity and inclusion strategies. How do you create an inclusive workplace where all employees feel valued, respected, and empowered? Discuss initiatives and show how these contribute to a positive and equitable work environment.

# Q49. What critical skill gaps exist within your team, and how are you addressing these to ensure successful delivery? (Max 300 words)

Identify any critical skill gaps within your team that could impact your business success. These could relate to technical expertise, leadership, financial management, product development, commercialization, or other strategic areas.

Explain how you are addressing these gaps—whether through hiring plans, training programs, external advisory support, partnerships, or professional development initiatives. Show how these efforts ensure successful delivery of your solution. Like the team expertise question, this response will not affect application results but helps assess how the programme can provide the necessary support if selected.

### **Optional**

# Q51. Where relevant, share pitch deck summarising your business plan and roadmap.

Pitch decks should be max 6 pages, PDF format only and videos to be 1 minute maximum. This might include an overview of your plans/ progress/ milestones, evidence of your technology, further financial information, visuals of your product, details of test installations/beta testing. Please bear in mind we will not read any documents that are longer than 6 pages. Provide a link to a PDF slide deck summarising your business plan and roadmap. If you would like to provide a pitch deck in an alternative format such as a video (max 1 minute), please provide a public link where we can access this.

## **Further Information**

### **EarthScale**

A collaborative initiative between UK universities which currently includes.

### Imperial College London

Imperial is the lead partner of the EarthScale project co-funded by Research England. It is powered by:

### Undaunted

<u>Undaunted</u> is a partnership between Imperial's Grantham Institute for Climate Change and the Environment and the Royal Institution. We're fostering a thriving innovation ecosystem that aims to make London and the UK a great place to start and scale intelligent, sustainable solutions to the climate challenge at pace. It aims to make London and the UK a great place to start and scale innovative climate solutions.

### Imperial Enterprise Lab

Imperial Enterprise Lab is a dedicated support service for students, staff and alumni who want to develop their entrepreneurial mindset, skills, and networks. Through a range of programmes and services including the Green Tech Legal Collaborative, Experts-in-Residence and Imperial Ventures Mentoring, Imperial Enterprise Lab is powering Imperial's entrepreneurial ecosystem.

### **Cranfield University**

Cranfield is a specialist postgraduate university with globally renowned expertise in science, technology, engineering and management. We deliver applied research that has real-world impact - 88% of our research is world-leading or internationally excellent (REF2021).

Our innovative education is enhanced by large-scale facilities and global industry partnerships. Cranfield is one of the few universities in the world to have its own airport - our global research airport is a unique environment for research. We are a six-time winner of the prestigious Queen's Anniversary Prize, the highest national honour for educational institutions.

Cranfield formed in 1946 as the College of Aeronautics, the first postgraduate college of its kind. The School of Management was founded in 1967.

www.cranfield.ac.uk

## **University of Derby**

Accelerating small-business growth, breaking down barriers and creating unrivalled opportunities for entrepreneurs to innovate and thrive. At the University of Derby, we are closing the gap between research and impact to make a real difference. We are right at the heart of the issues and challenges that matter - to our city, our region, to

businesses and industry, partnering with sector-leading businesses to drive innovation and create a collaborative environment where research has real impact.

The Institute for Innovation and Sustainable Engineering focuses on sustainable engineering solutions across various business sectors. We aim to stimulate innovation in design, manufacturing, product lifecycle management and the application of new and smart materials, supporting skills development and industrial growth in the region. We are a place where you can access knowledge, funding, expertise and technology to help you research, develop products and processes, and drive innovation in your business - always with sustainability in mind.

### www.derby.ac.uk

### **University of Exeter**

Working with the University of Exeter gives you unparalleled access to the world's top climate experts, helping you navigate complex sustainability challenges. We are home to 1500 climate and sustainability experts across 34 specialist environmental institutes and centres of excellence, including many of the world's most influential climate scientists.

With a track record in supporting climate-related businesses, we will support and empower your organisation to accelerate and thrive in the green economy.

### www.exeter.ac.uk

## **University of Leeds**

The Priestley Centre for Climate Futures is a world-leading climate centre based at the University of Leeds. From local to global, we ensure that climate action is informed by the latest research, collaborating with organisations and individuals to transform our expertise into real-world impact. We bring together a community of experts from across disciplines including engineering, environment, finance, health, economics, cultural studies, law, and atmospheric sciences. We connect these climate experts to businesses, policymakers, communities, and other researchers, working collaboratively in integrated networks to transform how we address climate change. Our experts have leading roles in the Intergovernmental Panel on Climate Change, the UK Climate Change Committee, and provide independent, robust and timely evidence to support decision makers.

The Centre actively promotes climate innovations and climate-related entrepreneurship in partnership with Nexus, The University of Leeds' innovation hub, and brings together the ecosystem to accelerate regional climate tech.

#### www.leeds.ac.uk/

### **University of Nottingham**

The University of Nottingham, is a leading UK university with a global presence, including campuses in Malaysia and China. Known for its research-led teaching and international outlook, the University is a member of the Russell Group and is ranked

among the top 20 in the UK. The University of Nottingham is a major international centre for energy research, with a reputation for excellence across a broad range of research and technology-based activities.

The University of Nottingham Energy Institute unites energy research across a range of disciplines, drawing on multidisciplinary expertise across our Faculties of Engineering, Science and Social Science. An impressive portfolio of research, development and demonstration has been built up over 25 years, attracting significant funding from government and industry to deliver high profile impact. Energy activities are focused on the key societal challenges of 'Transport and Mobility', 'Energy Generation and Management' and 'Communities and the Built Environment'.

www.nottingham.ac.uk

### **Annex**

### **UK Subsidy Control Guidance**

Following Brexit, the UK has established its own subsidy control regime, replacing the European Commission's State Aid regulations. Under the new UK rules, businesses can receive up to £315,000 of Minimal Financial Assistance (MFA) over a rolling three-year period, as stipulated by the Subsidy Control Act 2022.

The support from the Research Development England (RED), provided by Imperial College London, falls under the MFA category of the Subsidy Control Rule. This support may affect your SEIS capacity. Teams are required to submit a declaration confirming that the support from the Research Development England (RED) will not result in exceeding £315,000 in Subsidy Control Support over a three-year rolling period. Note that this includes any aid given under the EU state aid de minimis regulations and subsidies given as small amounts of financial assistance under the UK—EU Trade and Cooperation Agreement after 31 December 2020 but before this section of the Act came into force.

To confirm your eligibility for this assistance, you must declare the full amount of aid received over the last three fiscal years, including any aid applied for or due to receive.

The following list provides examples of common forms of aid you may have received in the past three years. Any assistance from a public body could potentially be considered aid. If you have any doubts, please contact the body from which the assistance was received.

- Grants from public bodies
- Loans from public bodies at favourable rates
- Loan guarantees from public bodies
- Differential tax benefits
- Grants from investment trusts (including charities) that may have received funds from a public body
- Grants from part publicly funded venture capital funds

- Publicly administered funds, even if originally not public, such as the National Lottery
- Waiving or deferral of fees or interest normally due to a public body, such as rent deferral or waiver of interest on late payment of taxes
- Monopoly licences or guarantees of market share
- Advertising via public channels such as tourist boards or state-owned television
- Consultancy advice provided free or at a reduced rate
- Training provided free or at a reduced rate
- Aid for investment in environmental projects
- Provision of free or reduced rate feasibility studies for research and development or other assistance with R&D
- Purchase of public land or property at below market rates
- Benefiting from infrastructure provision where your organisation was preidentified as a beneficiary

These types of aid may have been provided under De Minimis or another subsidy regulation. If you are unsure whether aid received was De Minimis or about its value, check with the organisation that provided it. If they are unable to confirm or there is uncertainty, assume it was De Minimis aid unless its value exceeded £315,000, in which case it cannot have been De Minimis. Any subsidy awarded to you under this project must be declared if you apply for or have applied for any other De Minimis or Innovation Aid.

## **Technology Readiness Levels**

Levels	Technology readiness descriptor
1	Basic principles observed and reported
2	Technology concept formulated
3	Analytical and experimental critical function or characteristic proof-of- concept
4	Technology validated in a lab
5	Technology validated in a relevant environment (industrially relevant environment in the case of key enabling technologies)
6	Technology demonstrated in a relevant environment (industrially relevant environment in the case of key enabling technologies)
7	Technology prototype demonstration in an operational environment
8	Actual technology complete and qualified through test and demonstration
9	Actual technology proven in an operational environment (competitive manufacturing in the case of key enabling technologies.

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Guidance from UKRI can be found here.

### **Market Readiness Levels**

Levels	Market readiness descriptor
1	Hypothesis of possible market needs
2	Identified specific market needs
3	Market/Industry research & first direct market feedback
4	Confirmed problem/needs from primary research & understanding of the
	value chain
5	Established interest and relations with customers
6	Benefits confirmed by first customer testing
7	Customers in extended testing, first test sales or small number of active
	users
8	First commercial sales and implemented sales process - evidence of initial
	traction
9	Widespread sales and scaling - significant customer traction

### **Commercial Readiness Levels**

Levels	Commercial readiness descriptor
1	Unclear hypothesis of possible business idea, market potential, and
	competition
2	First hypothesis of possible business concept and identified overall market
	potential and competition
3	Description of sustainable business model and target market(s) (including
	competition)
4	Economically viable business model Initial assessment of environmental and
	social sustainability
5	Key assumptions of commercial model tested on market
6	Commercial model shows economic viability (includes data from test sales)
7	Viability of commercial model validated by initial commercial sales
8	Sales and metrics confirm a viable commercial model with reliable margin
	estimates
9	Commercial model proven to meet expectations on profit, scalability and
	impact over time

# **IMPERIAL**













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