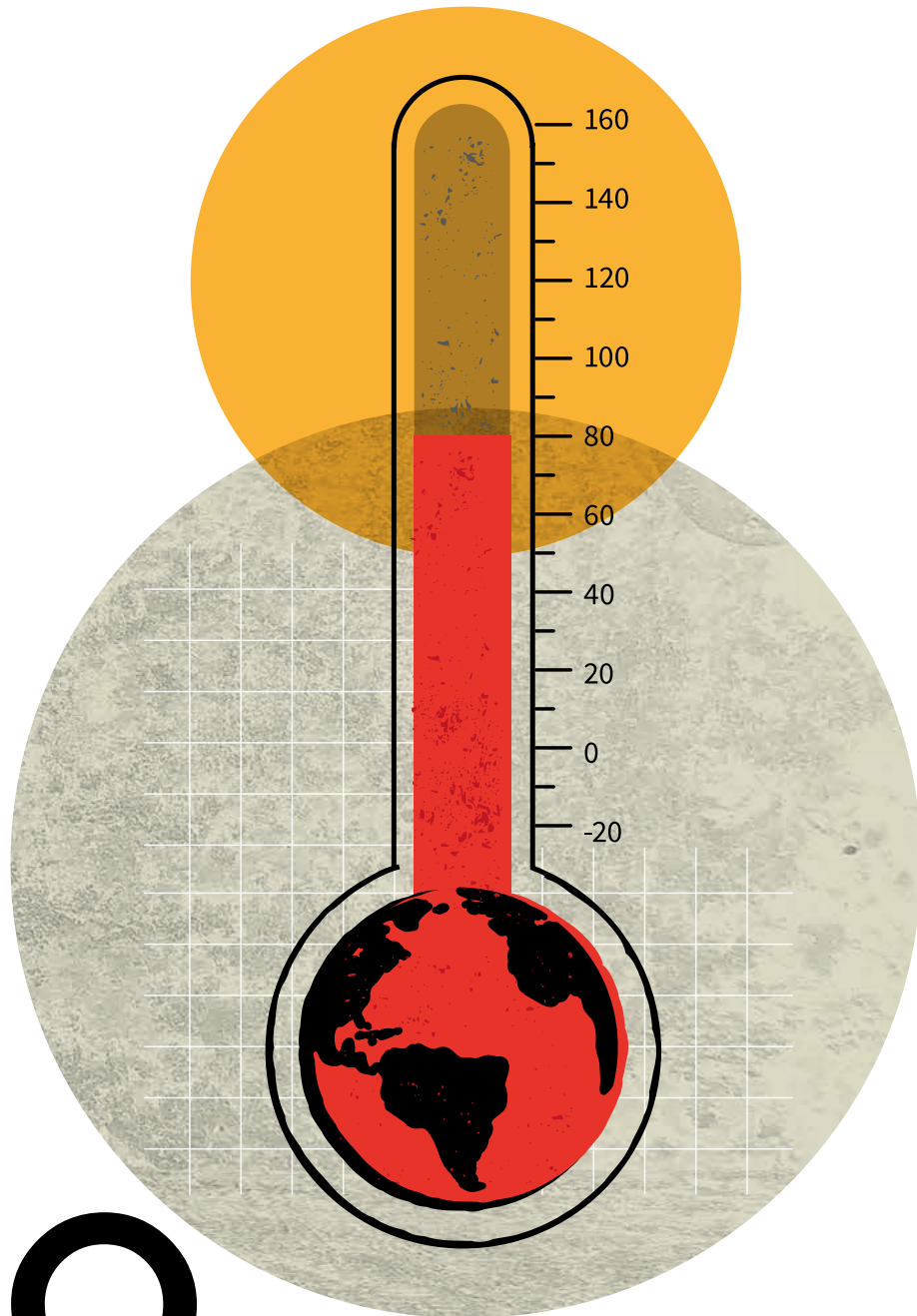


BUSINESS ESSENTIALS

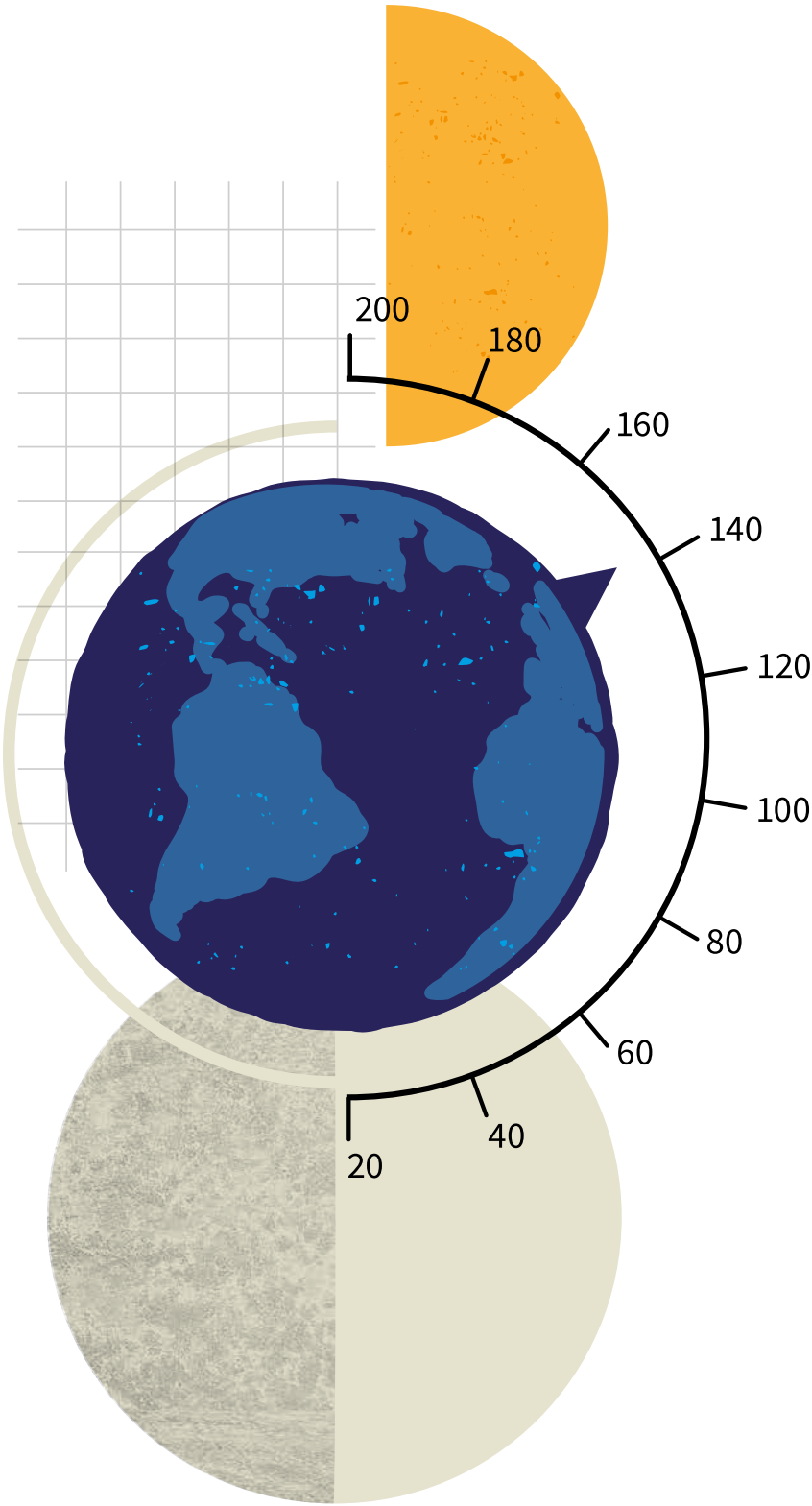
# Climate Change for Decision-Makers: Challenges, Transformations, Strategies



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# Why Cambridge Advance Online?

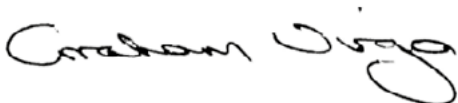
We are delighted to offer this exciting programme of short online courses for professionals, giving you the opportunity to harness the latest research, innovation and thinking that the University of Cambridge has to offer.

Cambridge Advance Online brings together the academic strength of the University, and the publishing and assessment strengths of Cambridge University Press and Cambridge Assessment, allowing you to develop your skills and specialise in emerging areas that address global challenges.

Our certificated courses will reflect the Cambridge experience and values, with low student to tutor ratios and academically rigorous standards. They will allow you to engage directly with academics at Cambridge and are centred on rich interaction between students and subject experts. Each course will offer you the opportunity to join live sessions with academics and interact in collaborative exercises with learners worldwide.

The University of Cambridge is committed to supporting lifelong learning and, through Cambridge Advance Online, has invested in the latest education technology to provide professionals with the very best experience wherever they are in the world and at any stage of their career.

We look forward to welcoming you onto one of our courses and to our global community of learners.



**Professor Graham Virgo**  
Senior Pro-Vice-Chancellor (Education)

# Welcome to Climate Change for Decision-Makers: Challenges, Transformations, Strategies

## 04

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Climate change is the defining challenge of our time, and it is driving a profound societal transformation that affects every government, industry and human activity. This transformation must include redirecting investment, promoting innovation, redefining entire industries, changing the geopolitical chessboard and governing a range of complex and unprecedented issues, all at once.

For example, which sectors are most exposed to climate-related risks? What are the implications for jobs, wealth, finance, politics and social stability in different countries? Who are the winners and losers if an oil and gas spike gives way to a sudden price collapse? Which industries, sectors and countries have an edge in the ongoing transformation of entire economies? What forms of technology innovation are brewing which could disrupt the current state of play? How do we keep track of these and other trends? And, above all, how to govern this profound transformation? It is virtually impossible for policy- and decision-makers of the public and the private sector to navigate this ongoing process without a broad and integrative view.

This course is intended to equip decision-makers with a 360-degree view of climate change and its societal implications. The course provides research-informed and practice-infused training in three main aspects of climate change and its societal implications: metrics, technology and governance. The metrics component is broadly understood to cover the concepts, measures, data sources and scales through which climate change is 'diagnosed' as a problem. The technology component focuses on different innovation pathways to address climate change, from both hard technologies (such as those within the energy and transportation sectors) and soft technologies (like innovation strategies or 'green' industrial policies, for example). The governance component captures the broader collective action problem and its political, economic and legal dimensions.

### **Professor Jorge Viñuales**

Harold Samuel Professor of Law and Environmental Policy at the University of Cambridge and the Director of the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG)

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# Course summary

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## Timetable:

September | January | April | June

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## Subject area:

Business Essentials

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## Format and length:

6 weeks | 6-8 hours per week\*

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## Price:

£1,950

Climate change is the defining challenge of our time and it is driving a profound societal transformation that affects every government, industry and all human activity. This transformation raises a host of complex questions and uncertainties around jobs, finance, technological innovation, politics and social stability.

This research-informed and practice-infused course focuses on three main aspects of climate change and its societal implications: metrics, technology and governance. Explore the interconnections between the issues raised by climate change and understand how it affects your organisation; gaining the expertise to develop your own position or strategy to solve these issues within your context.

This course will provide decision-makers with the ability to develop a 360-degree view of climate change and the implications for society. You will gain the confidence to find new innovative pathways to address climate change, and understand its broader collective political and legal implications.

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\*Times are estimated and may be influenced by individual learner circumstances.

# What you will learn on the course?

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## Is this course right for you?

This course will be useful to any professional looking to develop innovation in the workplace, including:

- Senior professionals, who have deep knowledge of some specific aspects but need to 'zoom out' and capture the overall picture.
- Mid-career professionals who need this broader understanding for career progression (to management or strategic positions) or career re-orientation.
- A wide range of government officials active in specific segments of the policy cycle.
- Politicians and their staff, who may need a solid and self-contained understanding of the issue for a variety of policy and political purposes.
- Consultants in the management consulting and environmental/IT consulting industries.
- Professionals in the financial services industry interested in gaining an understanding of the implications of climate change for finance.
- Staff from intergovernmental and non-governmental organisations in need of an up-to-date, scientifically informed overview of the subject.



## Key learning objectives

By the end of the course, you will be able to:

- Navigate a vast flow of information and identify only the main and most reliable sources, avoiding the main forms of disinformation.
- Connect abstract and highly technical scientific knowledge from a range of disciplines to everyday manifestations of climate change.
- Use acquired knowledge and understanding of interconnections in new contexts.
- Articulate complex concepts from a range of disciplines to a wider audience.
- Analyse relevant issues, placing them in their proper scale and assessing their interconnections with other issues at different scales.
- Exercise judgement with respect to different claims about climate change scenarios, decarbonisation pathways, emerging issues and their implications.
- Develop a position or strategy for your organisation informed by the knowledge and skills acquired through the course.

# The learning journey

## Orientation

Familiarise yourself with the CAO learning environment, meet fellow participants, identify important milestones in the course and understand the course outcomes and assessments.

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## Join our Alumni network

Upon successful completion of the course, you will be invited to join a dedicated LinkedIn alumni group. This will allow you to connect with peers to share ideas and experiences and stay informed of new developments.

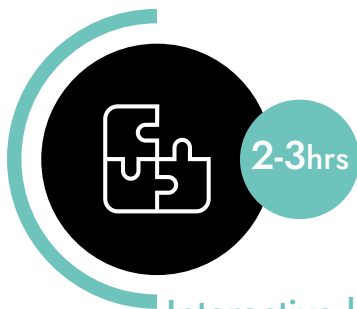




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# Learning breakdown

Our online courses combine several different elements to create a balanced blend of learning. Participants will be able to learn at their own pace during the week, viewing content, engaging in discussions and completing any assignments. On average, our courses take six to eight hours per week.



**Interactive learning**  
(for example videos, animations, quizzes)



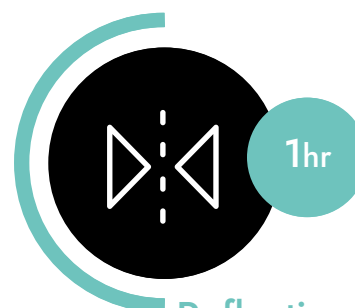
**Discussion**



**Self-guided research**  
(for example reading, looking for information online and other tasks)



**Live session**



**Reflection**

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# Course modules

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## Module 1

### Climate change diagnosis

Understand the state of climate science.

Use reliable information sources, avoiding the main forms of disinformation.

Articulate common metrics from a range of disciplines to a wider audience.

## Module 2

### Concepts and context

Understand abstract and technical scientific knowledge from a range of disciplines.

Connect abstract and technical scientific concepts to everyday manifestations of climate change.

Articulate complex concepts from a range of disciplines to a wider audience.

## Module 3

### Systems transition

Understand why climate change requires systems transition and the technology pathways.

Use acquired knowledge and understanding of interconnections in these new contexts.

Evaluate different claims relating to the possibility and desirability of systems transition.

## Module 4

### Energy transition

Examine the climate, energy and innovation policy landscape.

Analyse examples of energy system transitions and their intergenerational trade-offs.

## Module 5

### Governance of climate change

Understand the global, regional and domestic climate law and policy landscapes.

Analyse implications of climate policy for different organisations, governance and business models.

Evaluate different claims relating to these implications.

## Module 6

### Emerging issues

Articulate emerging climate change issues, specifically those related to raw materials and finance.

Reflect on emerging practices and standards in environmental, social and governance (ESG).

Evaluate your chosen position or strategy for your organisation informed by the knowledge and skills acquired through the course.

# Meet your course leader

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**Professor Jorge Viñuales**

Harold Samuel Professor of Law and Environmental Policy at the University of Cambridge and the Director of the Cambridge Centre for Environment, Energy and Natural Resource Governance (C-EENRG)

Professor Jorge Viñuales holds the Harold Samuel Chair of Law and Environmental Policy at the University of Cambridge, where he founded the Cambridge Centre for Environment, Energy and Natural Resources Governance (C-EENRG).

Jorge has published widely, both legal studies such as *The International Law of Energy* (Cambridge University Press, 2022), *The Oxford Handbook of Comparative Environmental Law* (Oxford University Press, 2019) and *International Environmental Law* (Cambridge University Press, 2018), and interdisciplinary studies on complexity economics, integrated modelling and sustainability policy, which have appeared in journals such as *Nature Climate Change*, *Nature Energy* and *Global Environmental Change*.

He has wide experience advising governments, international organisations, investors and companies on strategic, policy and governance matters arising from the sustainability transition. He has used the expertise underpinning this course in contexts as diverse as advising Turkey on the implementation of the Paris Agreement, a multinational software company on carbon border adjustment measures, an AI-specialised hedge fund on ESG and sustainable finance, the Office of the High Commissioner for Human Rights on COVID-19 and climate finance, NGO Oil Change International on the legal obligations of export credit agencies when considering investment in fossil fuels abroad, serving as arbitrator or counsel in investment disputes for hundreds of millions of pounds, or chairing a UN Committee on Water and Health overseeing the policies of 27 states.



## Technical requirements

- Sufficient internet speed and stability for video streaming (2 Mbps up/down).
- No specialist software or equipment needed.
- Please see our recommendations on web browsers:  
<https://bit.ly/2S4Qhh4>



## Course certification

You'll be assessed using a range of modalities that emphasise real-world application of course material. On completion of your Cambridge Advance Online course, you will be eligible for a Certificate of Achievement and digital badge.

To get your Certificate you must achieve a minimum grade of 70% on course activities and your final tutor-marked project.







If you have any questions or would like more information about our online courses, please contact our Enrolment Advisors at [advanceonlinesales@cambridge.org](mailto:advanceonlinesales@cambridge.org)

