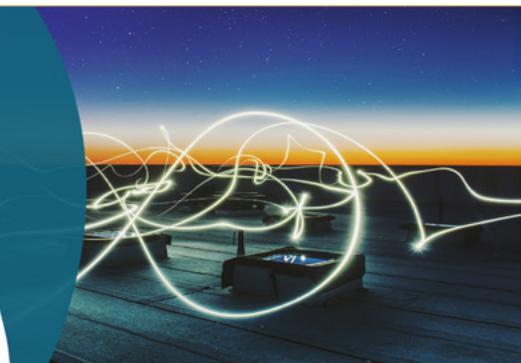


# SUMMER SCHOOL

## MASTERING THE DEVELOPMENT OF A CLIMATE SERVICE FROM START TO END



*Welcome to the online SECLI-FIRM summer school. In this course, you will learn about the importance of climate services for the energy and water sectors, understanding the operational and regulatory context. You will acquire theoretical knowledge and practical tools to design and deliver your own climate service, working in small teams. Hearing from leading experts, you will learn about real-world applications of climate services and best practice approaches.*

### HOW WILL YOU LEARN

The course is delivered online and designed as an interactive learning and exchange, with group work to design your own mini-climate service.

Each four-hour online session will consist of lectures, content presentations, discussions and break out sessions from a variety of speakers, all experts in their fields, including consortium and Advisory Board members from the SECLI-FIRM Project.

### THE COURSE IS DIVIDED INTO THREE INTERLINKED MODULES:

Module 1 – Why we need climate services and how we can exploit them

Module 2 – What is needed for the successful design of climate services

Module 3 – From theory to practice – how to deliver a climate service

Course duration: The course consists of six half day ‘face-to-face’ online sessions on 21, 23, 28, 30 September and 5 and 7 October 2021. Total 24 hours. Timing: 11:30-15:30 UTC.

### SPEAKERS



**ALBERTO TROCCOLI**  
WEMC Managing Director,  
UEA visiting prof



**ROBERTA BOSCOLO**  
Lead of Climate & Energy  
at WMO



**DAVID BRAYSHAW**  
Associate Professor  
University of Reading



**LAURENT DUBUS**  
Lead Scientist for Weather  
and Climate, RTE

### PARTNERS



ANY DOUBTS OR QUESTIONS ABOUT THIS OPPORTUNITY? PLEASE GET IN TOUCH

[info@secli-firm.eu](mailto:info@secli-firm.eu)

## PROGRAMME WEEK 1

### TUESDAY 21<sup>TH</sup> SEPT SESSION 1 SETTING THE SCENE

In this session, you will get acquainted with course participants, understand what climate services are, the process of developing a climate service and their application in the energy and water sectors.

11:30-12:00 UTC	Introductions & round the-table	<b>Alberto Troccoli (UEA/WEMC)</b> <b>Roberta Boscolo (WMO)</b>	Get acquainted with participants, present course outline and objectives
12:00-13:00	Climate services for the energy and water sectors	<b>Alberto Troccoli (UEA/WEMC)</b>	Explain what climate services are. Demonstrate why, and how, these are valuable for the energy and water sectors, explore different geographical conditions, policy frameworks and user needs.
<b>13:00 - 13:30 BREAK</b>			
13:30-14:30	Understanding the climate service value chain: best practice approaches	<b>Roberta Boscolo (WMO)</b> <b>Carlo Buontempo (ECMWF)</b>	Outline the process of delivering a climate service, with best practice examples.
14:30-15:30	Panel: The importance of climate services for energy systems and the water sector + Q&A	<b>Laurent Dubus (RTE/WEMC)</b> <b>Elena Calcagni (ENEL)</b> <b>Leo Kiernan (Thames Water)</b>	Explore the importance of climate information to business users in the energy and water sectors.

### THURSDAY 23<sup>TH</sup> SEPT SESSION 2: HOW TO BUILD A CLIMATE SERVICE

This session delves into different aspects of climate service design, from data and information needed to power a climate service, to collaborative approaches to climate service design. Introduce team projects, groups working on their own climate service.

11:30-12:20 UTC	Data and information production for climate services	<b>David Brayshaw (University of Reading)</b>	Overview of the science behind climate services and processes of observations, modelling and seasonal forecasting.
12:30-13:30	Collaborative approaches: Co-design, co-development and co-production of climate services	<b>Clare Goodess (UEA)</b>	Understand the steps of assembling a successful climate service, exploiting collaborative approaches.
<b>13:30 - 14:00 BREAK</b>			
14:00-14:30	Climate services in practice: examples from C3S	<b>Chiara Cagnazzo (C3S)</b>	Demonstrate application of C3S climate service products.
14:30-15:00	Introducing practical: Co-develop your own climate service component	TBC	Introduce the topics of the teamwork that will be undertaken throughout the course.
15:00-15:30	Get to know your team	All participants	

## PROGRAMME WEEK 2

### TUESDAY 28<sup>TH</sup> SEPT SESSION 3: SEASONAL FORECASTING AND DECISION-MAKING PROCESSES

In this session, we will shed light on the development of seasonal forecasts, using multiple model combinations. Participants will then learn more on climate service users' decisions and actions, with some practical experience.

11:30-12:30 UTC	Skill of seasonal forecasting and multi-model combinations	<b>Andrea Alessandri</b>	Understand how seasonal forecasts are derived, using outputs from different models.
12:30-13:30	Users' decisions and actions	(TBC)	Gain practical knowledge into the factors affecting users' decisions and actions and how these can be mapped.
<b>13:30 - 14:00 BREAK</b>			
14:00-15:30	Tutorial and teamwork – Co-develop your own climate service component.		

### THURSDAY 30 SEPT SESSION 4: THE BUSINESS OF CLIMATE SERVICES

This session will be dedicated to understanding how climate services can be monetised through successful business application.

11:30-13:30 UTC	Masterclass: how to set up climate service business?	<b>Ian Harper (InterMET.digital)</b>	Showcase how climate services can be turned into a successful business
<b>13:30 - 14:00 BREAK</b>			
14:00-15:30	Tutorial and teamwork – Co-develop your own climate service component		

## PROGRAMME WEEK 3

### TUESDAY 05<sup>TH</sup> OCT SESSION 5: CLIMATE SERVICE CASE STUDIES AND THEIR EVALUATION

This session begins with an overview of approaches to evaluate climate services, providing a framework that participants' can then apply when hearing about case studies in the water and energy sector.

11:30-12:00 UTC	Evaluation of climate services	Joe Osborne	Propose an evaluation framework, to be applied in following talk.
12:30-14:00	Case studies in the energy and water sector	Case studies from selected partners, including ENEL, Shell, Thames Water, Tennet, National Grid ESO, Alperia.	Showcase best practice case studies in the energy and water sectors, allowing participants to evaluate these against best practice benchmarks introduced above.
<b>14:00 - 14:30 BREAK &amp; NETWORKING</b>			
14:00-15:30	Tutorial and teamwork – Co-develop your own climate service component		

### TUESDAY 07<sup>TH</sup> OCT SESSION 6: CAREER OPPORTUNITIES, CONCLUSIONS AND LOOKING FORWARD

The session begins with a panel on career and business opportunities. Teams will then present their teamwork to a selected panel of specialists, before concluding the course and farewells.

11:30-12:00 UTC	Panel: Business and career opportunities in climate services	Organised by Faten Bahar WNO	Explore, with selected stakeholders, possible career and business opportunities.
13:00-14:30	Elevator pitch of team projects		Pitch team projects to panel of experts.
<b>14:30 - 15:00 BREAK &amp; NETWORKING</b>			
15:00-15:30	Concluding thoughts and farewell		

**THIS PROGRAMME IS INDICATIVE TO ILLUSTRATE COURSE CONTENT BUT IS SUBJECT TO CHANGES. FINAL PROGRAMME WILL BE SHARED WITH PARTICIPANTS NEARER THE TIME.**