

Ethics of Energy Technologies

Training proposal
February 2023



BARCELONA
SCHOOL OF
MANAGEMENT



European
Commission

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The challenge

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The challenge

The EC JRC (Joint Research Centre) is a Directorate General of the European Commission. As the European's science and knowledge service, supports EU policies within dependent evidence throughout the whole policy cycle.

The Joint Research Centre in Ispra (Italy) is the third biggest European Commission site after Brussels and Luxembourg. Established in 1960 as a nuclear research site, today it is considered as one of Europe's leading research campuses with many laboratories and unique research infrastructures.

The JRC HR Directorate wants to offer a specific training for the Researchers at the JRC in Hipra, also opened to other staff from the EC Directorates General and focused on the ethics of energy technologies.

Regarding this purpose, the JRC HR Directorate requests a proposal from the UPF Barcelona School of Management for a training course on this topic, to be delivered by Professor Andrea Saltelli, who is a leading scholar on physical chemistry, environmental sciences, applied statistics, impact assessment and science for policy.

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Description of the training course

Description of the training course

Objective

By the end of the course, participants will understand the normative and political implications of technological trajectories with special attention to energy technologies.



Description of the training course

Contents

1. Different histories of science and technology and different philosophies of science (traces: Ravetz, Conner, Popper, Kuhn, Feyerabend, Lakatos...)
2. Introduction to science and technology studies (traces: Latour, Jasanoff, Shapin and Schaffer...)
3. The Cartesian dream of man master and possessor of nature and its critique (traces: Davis and Hersh, School of Frankfurt...)
4. Ethics in pills; orders of worth (Thévenot); techno-optimism and its opponents;
5. Post normal science (Funtowicz and Ravetz)
6. A brief history of energy; energy and demography; dark horses
7. Energy and ecological economics. The flow-fund model of Georgescu Roegen and the dialectic with mainstream economics (Daly, Stiglitz, Solow)
8. What is circular in the circular economy: narratives and fantasies in the discourse about energy and transitions.
9. An introduction to ethics and sociology of quantification (Desrosiers, Porter, Salais, Mennicken, Espeland...)
10. Quantification and responsible modelling (Saltelli); reductionism and the numbers of neoliberalism (the critique of Rainert, Romer,...).
11. Energy, climate and their numbers (Saltelli)
12. Science, energy and lobbying (From merchants of doubt to guardians of reason (Oreskes, Foucart, Saltelli)

Course structure

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Description of the training course

	Day 1	Day 2	Day 3	Day 4	Day 5
Contents	Introduction to STS	Energy & the Cartesian dream	Flow, fund & circular economy	Energy Ethics	Science, lobbying & numbers
	5 hours	5 hours	5 hours	5 hours	5 hours
Trainer	Prof. Andrea Saltelli	Prof. Andrea Saltelli	Prof. Andrea Saltelli	Profs Daniela Tafani, and Andrea Saltelli	Prof. Andrea Saltelli
					Final Essay

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Description of the training course

Activities

The course includes:

- Theoretical lectures
- Case studies
- Practical exercises
- Group work

A **final essay** will be required to pass the training course.

This essay will have an extension of 4 to 5 pages and must deal with one of the topics covered in the course.

Attendance at 4 out of 5 sessions is required

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Description of the training course

Training features

- Duration: 20 hours, organised in 5 sessions of 4 hours each.
- Delivery: face-to-face in Ispra, at JRC premises (Via Fermi 2749). The course is in presence only
- Target group: 20 to 25 researchers at the JRC and staff from the EC Directorates General
- Language: English
- Dates: September or October 2023
- Schedule: 8:30 p.m.-12:30 p.m.
- Acknowledgment: digital certificate issued by UPF Barcelona School of Management to each participant

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Academic Director and trainers

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Academic Director & Trainer



ANDREA SALTELLI

RESEARCHER AND ACADEMIC COUNSELLOR AT
UPF-BARCELONA SCHOOL OF MANAGEMENT

Andrea Saltelli has worked on physical chemistry, environmental sciences, applied statistics, impact assessment and science for policy. His main disciplinary focus is on sensitivity analysis of model output, a discipline where statistical tools are used to interpret the output from mathematical or computational models, and on sensitivity auditing, an extension of sensitivity analysis to the entire evidence-generating process in a policy context.

He has worked at the European Commission, leading between 2005 and 2015 a unit of econometrics and applied statistics. From November 2016 till June 2020 adjunct professor at the Centre for the Study of the Sciences and the Humanities (SVT) - University of Bergen (UIB), and between December 2017 and September 2021 visiting researcher at Open Evidence Research, Open University of Catalonia. He is presently visiting researcher at UIB-SVT, associate researcher at Institute for Cognitive Sciences and Technologies of the Italian National Research Council (CNR) and academic counsellor at UPF Barcelona School of Management.

His most recent papers have tackled sensitivity analysis and auditing, science's reproducibility crisis, impact assessment, ethics of quantification, regulatory capture, rankings of higher education, and the post-truth discussion.

Andrea gives courses in sensitivity analysis, sensitivity auditing, science integrity, and ethics of quantification.

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Trainer

DANIELA TAFANI

FIXED-TERM RESEARCHER OF POLITICAL
PHILOSOPHY AT THE UNIVERSITY OF PISA

Daniela Tafani is a fixed-term researcher of Political Philosophy at the University of Pisa. She is vice-president of the Italian kantian society (Società Italiana di Studi Kantiani).

Her current research interests include Kantian moral philosophy and the ethics and politics of artificial intelligence.

Among her publications, *Virtù e felicità in Kant* (Leo S. Olschki 2006), *Distinguere uno Stato da una banda di ladri. Etica e diritto nel XX secolo* (Il Mulino 2011) and *Beiträge zur Rechtsphilosophie des deutschen Idealismus* (Lit Verlag 2014).

Her latest paper is *What's wrong with "AI ethics" narratives*, in "Bollettino telematico di filosofia politica" (2022)

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Operational issues

Operational Issues

THE ENROLMENT PROCESS

UPF-BSM will provide an admission form to participants, accessible through a link, so that they proceed their course enrolment.

This form includes the following data: name and surname, national identification or passport number, gender, phone, e-mail, country, city, current company and position.

Once the participants have filled the form, they will receive an email with the information to join our Secretary website, where they must accept the general terms & conditions of the course and upload the identity documentation (a digital copy of their national identify card or passport).



Operational Issues

FORMALISATION OF THE CONTRACT

The UPF-BSM would sign the contract with EC JRC which will set the terms and conditions for the delivery of the training service, according to the agreed proposal.

Therefore, UPF-BSM would issue the invoice and it would be the direct recipient of the price.

This contract should be electronically signed by both parts before the beginning of the course.

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Budget

Budget

The quotation for 1 edition of the Ethics of Energy Technologies course, for a group of 25 people is 12.000 Euros

This price includes:

- The Academic direction of the training course, including the design of the contents and the coordination of the different trainers.
- Trainer's fees
- Operational organisation of the course by UPF-BSM
- The issuance of the certificates by the UPF Barcelona School of Management.

This price doesn't include any other cost not mentioned above

The quotation for the travel expenses of trainers is 3.500 Euros.
This amount has to be added to the cost of the training course in case JRC doesn't organise it by itself.

The price for the travel expenses includes:

- Operational organisation of the course by UPF-BSM
- Trips to Ispra and accommodation costs and meals for the 2 trainers

This price doesn't include any other cost.

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About UPF-BSM

The Management School of the Pompeu Fabra University

- We generate **Knowledge** and **Economic and Social** impact.
- Our company culture is based on **values** as ethic and Excellence.
- We apply an **active, personalized and interdisciplinary** learning model.
- We are strongly connected with the professional world: more of 500 companies collaborate with us to train their employees.
- More than **25.000 attendants all over the world**.
- More than **20 years of experience in bespoke courses and more than 15 in online and blended training**.
- We train more than **11.000 professionals in the last academic period**.



1st Spanish University

Times Higher Education, 2021

15th Best world university among the youngers of 50 years of existence.

Times Higher Education under 50, 2021



WHY CHOSSING UPF BARCELONA SCHOOL OF MANAGEMENT?

Incompany Training

Because of our extended experience in designing, developing and teaching tailor-made programs and training experiences, to improve skills and knowledges in all sort of companies.

To this, we add an international and national well-know and well-regarded cloister of Phd's and Professors, including professionals and managers of the most important companies in Spain, and the technical and professional Knowledge of a highest experienced operational team, who takes care of the training project until the end of the program.

We also were well-recognised by our clients and attendants, with high valued standards of quality in our training programs.



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Accreditations



Recognition



Contact

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