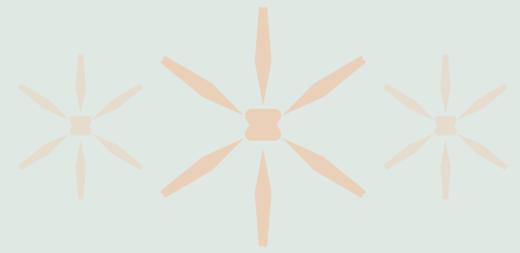


Sustainable Smart Energy and Mobility Transition:

The German and Egyptian Perspective



BaSEF Online Summer School

30.08 - 03.09.2021



The summer school aims at bringing together distinguished scholars and young researchers in the field of energy and environmental economics to discuss research advances and relevant policy issues.

The program has an emphasis on intercultural scientific interaction, and the exchange of thoughts. In particular, it addresses the interface between methodical knowledge transfer and applied research to equip the participants with the essential skill-set for contributing to successful energy and mobility transitions towards sustainability. We cover a wide range of topics in order to draw a holistic picture of current global challenges in the energy and mobility sector. By doing so, we aim at inspiring new research ideas and giving young researchers the opportunity to develop a global network.

Prerequisite for participation

- Applicants must be seeking a Ph.D. degree or in an advanced stage of his/her Master studies. For Ph.D. holders and advanced Bachelor students, limited number of places are offered.
- Participants are expected to participate in all activities throughout the week.
- Applicants must have conducted independent research.
- Students from Cairo, Cologne and around the globe in the fields of computer science, energy economics, information systems, industrial organization and public economics with strong interest in energy and environmental issues are encouraged to apply.

Scope of the Summer School

The summer school backs on a healthy blend of teaching domain as well as methodical knowledge regarding energy system modeling and the energy transition. In this respect, the focus is set on the differences and similarities of the German and Egyptian energy landscape.

In the course of the summer school, we shed light on the challenges associated with the decarbonization of the economy of both countries as representatives of two different world regions.

- 1** We start with an overview about the status quo as well as challenges in both countries
- 2** We then directly dive into econometrics and data analytics as two research disciplines related to data science, since data is a key resource in the future energy world
- 3** Theoretical and practical units deepening both domain and methodical knowledge will alternate to ensure a maximum learning outcome
- 4** Based on this, we take a closer look at optimization and simulation approaches to energy system modelling. In this context, we will introduce you to Power TAC, an electricity retail market simulation platform, and affiliated research
- 5** Besides this, we provide you with several sectoral deep dives concerning electric mobility and hydrogen
- 6** Although the summer school is held online, we also plan an affiliated program encouraging interdisciplinary as well as intercultural exchange and research team formation

Required documents

Should be written in English and to be uploaded as PDF on the online portal

- Curriculum Vitae - CV
- Proof of enrollment from your university
- Letter of motivation (max. one page) on which the interest in participating in the Summer School, relation between your research interest and the scope of the Summer School, expected benefits as well as your contribution to the topic should be highlighted and justified.
- A project proposal (extended abstract) related to your research project (max. 2 pages).
- Letter of recommendation from a professor at your university. For Ph.D. students ideally from the supervisor of your thesis.

Registration and Financial Support

- There is no registration fee, however, the space is limited to 30 participants coming from Cairo, Cologne and partner institutes around the world.
- A limited number (3 to 5) of scholarships for innovative and promising research proposals for a duration of three months are available. Further information coming up soon.

● **Application deadline: 15th May 2021**

Results to be announced: 15th June 2021

For more information check <https://basef-network.com>

Scientific and Organizing Committee

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Director of the Institute of Energy Economics at the University of Cologne (EWI)

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