

ETSAP Workshop Series on Human behaviour and Energy trade

The ETSAP Workshop series on Modelling of Human behaviour and Energy trade is supported by ETSAP and consists of three workshops arranged by different ETSAP members. The idea behind the workshops is to facilitate knowledge-exchange between ETSAP members and to jointly improve our knowledge on, and modelling of, human behaviour and energy trade in energy system models. The workshops aim to get an overview of the approaches that is used in the ETSAP community, to identify the knowledge needs and gaps, and to discuss and exchange ideas related to best practices of modelling. The main findings from each of these two workshops will be summarized and documented through a report that will be uploaded on the ETSAP webpage as well as being presented at the ETSAP WS in summer 2023.

A participation in person is highly recommended, but if feasible, it will be possible with a virtual attendance. For ETSAP contracting partners, direct costs (travel costs and accommodation) can be covered up to a given limit. All expenses covered by the projects needs to be documented on request. Please e-mail Pernille.Seljom@ife.no if you are interested in participating in the Workshop series and if you wish to get some of your direct costs covered.

Workshop series on Energy trade

The use of cross-border electricity trade and other energy commodities trade becomes more important to ensure a cost-efficient and reliable low-carbon transition of the energy system for many countries. For regional and national TIMES models it is however not straight forward to model the dynamics of the electricity and other energy markets that are outside the spatial scope of the model. Different ETSAP members use various approaches to represent cross-border trade of e.g., electricity, biofuels, and hydrogen in national TIMES models. This Workshop series will include a mapping current modelling practices and challenges within ETSAP and discussions on best modelling practices. The Workshop Series will be in collaboration with the IEA Bioenergy Task on Flexible Bioenergy and System Integration.

Workshop series on Human behaviour

Individuals do not necessarily make decisions that are techno-economically optimal from an energy system perspective. Consequently, if energy behaviour is not considered in energy system models, the solutions can underestimate the developing needs of the energy system. For example, the implementation of energy efficiency measures, the adaption of new technologies, the demand for energy services, and the availability of end-use flexibility are typically limited by energy behaviour. On the other hand, changing values and norms may also motivate individuals and societies for more rapid transition to sustainable energy systems. There are several approaches to embed energy behaviour in TIMES models. This project will map the approaches that are used by the ETSAP community to consider energy behaviour, and to identify the knowledge needs and gaps, and to discuss and exchange ideas related to the best practices.

Meeting 1 - Current modelling practices

Date: 15th and 16th of September 2022; 15th on Human behaviour & 16th on Energy trade

Location: Institute for Energy Technology (IFE), Kjeller, Norway

Contact person: Pernille.Seljom@ife.no

Direct cost that can be covered per ETSAP members are EURO 1100, where maximum numbers of members receiving is set to 9. With a lower participation rate, the direct costs coverage limit will increase.

Meeting 2 - Identifying main challenges

Date: 29 and 30th of November 2022 (before ETSAP WS 1.-2. Dec.)

Location: Columbia University, New York City

Contact persons: Pernille.Seljom@ife.no and james.glynn@columbia.edu

Meeting 3 - Improving Methodology

Date: 21st and 22nd of March 2023

Location: LTU, Luleå, Sweden

Contact persons: Pernille.Seljom@ife.no and anna.krook-riekkola@ltu.se