

Online PhD course 2023: Advanced Energy Systems Analysis on the EnergyPLAN model

Aalborg University, Denmark, hosts this EnergyPLAN PhD course, which for the first time is conducted as a fully online course. The course gives an introduction to advanced energy system analysis using the EnergyPLAN model. The course takes place on 23 October - 28 November 2023. Registration is possible until 31 October 2023.

Contents

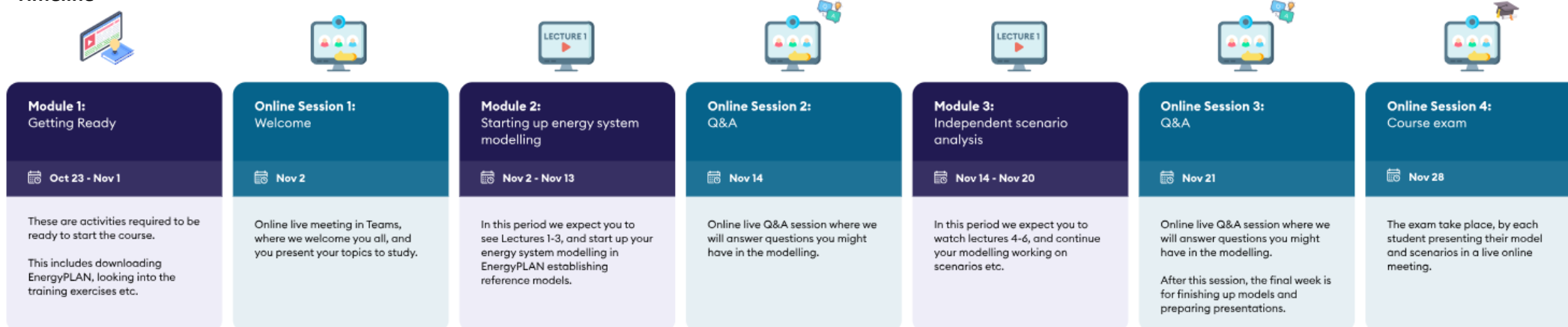
The course starts with an introduction to EnergyPLAN (installation, using, constructing new data sets) and proceeds to focus on the use of the model in

- sustainable cities and communities
- technical analyses of large-scale integration of wind
- analyses of exchange with external electricity markets
- combinations of different renewable energy technologies
- designing flexible energy systems using flexible technologies such as heat pumps, hydrogen storage, pumped storage etc.
- district heating systems versus individual houses and zero energy buildings
- designing energy systems based on multiple criteria

Information

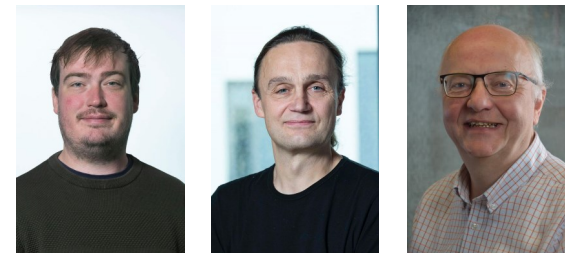
- Organiser: Professor Henrik Lund, lund@plan.aau.dk
 Lecturers: Jakob Zinck Thellufsen, Poul Østergaard and Henrik Lund
 Place: Online
 Fees: PhD fellows enrolled at a university outside Denmark: 120 EUR
 Professionals (consultancy, industry, etc.): 1200 EUR
 Registration: Via this [link](#) until 31 October 2023. Registration is binding.
 Payment: Payment upon registration. Credit card payment is required
 Website: www.energyplan.eu/training/workshops/

Timeline



Study plan

Item	Dates	Description
Module 1: Getting ready	23 Oct - 1 Nov 2023	These are activities required to be ready to start the course. This includes downloading EnergyPLAN, looking into the training exercises etc.
Online session: Welcome	2 Nov 2023	Online live meeting in Teams, where we welcome you all, and you present your topics to study.
Module 2: Starting up energy system modelling	2 - 13 Nov 2023	In this period we expect you to see Lectures 1-3, and start up your energy system modelling in EnergyPLAN establishing reference models.
Online session: Q&A 1	14 Nov 2023	Online live Q&A session where we will answer questions you might have in the modelling.
Module 3: Independent scenario analysis	14 - 20 Nov 2023	Watch lectures 4-6, and continue your modelling working on scenarios etc.
Online session: Q&A 2	21 Nov 2023	Online live Q&A session where we will answer questions you might have in the modelling. After this session, the final week is for finishing up models and preparing presentations.
Course Exam	28 Nov 2023	The exam takes place by each student presenting their model and scenarios in a live online meeting.



See Sustainable Energy Planning Research Projects [here](#).

Lecturers: Poul Alberg Østergaard, Jakob Zinck Thellufsen and Henrik Lund