Energy PLAN

Advanced energy system analysis computer model

EnergyPLAN Newsletter no. 20
November 2020

Dear colleague and EnergyPLAN user,

You receive this e-mail because you have once registered as a user of the EnergyPLAN computer model. We issue newsletters once or twice a year. If you do not wish to receive future newsletters, please send an e-mail to energyplanmodel@gmail.com.

EnergyPLAN 15.1 release note

EnergyPLAN 15.1 has been released including the following improvements to the model:

- A new feature has been added to express an external request for the system to produce a certain amount of import/export. In this way, the EnergyPLAN model can quantify the system's ability to provide balancing for an external system. The purpose is to make it possible for one country/system to assist in the balancing of another country/system, e.g. to use the flexibility of Norwegian hydropower to balance a Swedish, Danish or European system.
- The use of "Electricity storage" has been expanded to also include PP2.
- The option to specify electricity storage market operation strategies has been expanded in terms of adding a potential profit margin and choosing the number of hours for the prognosis. These new options have turned out to be relevant for very large electricity storage facilities.
- The rockbed storage now uses percentage of loss per hour instead of share of loss per hour to facilitate very small loss rates.

- The scenario and distribution files included when downloading the tool have been updated to reflect the latest research. The previous files are still available by downloading one of the previous versions.

Please note that the default running of EnergyPLAN now requires the distribution file zero.txt. This is included in the download, but depending on your preference, you might need to copy the zero.txt distribution file into your other EnergyPLAN folders.

Download EnergyPLAN 15.1

Do you want to know more about how to apply EnergyPLAN to your work?

On 19-21 April 2021 and 3-5 May 2021, Aalborg University hosts its annual EnergyPLAN PhD course. The course has been conducted every year since 2005 with great success. It gives an introduction to advanced energy system analysis using the EnergyPLAN computer tool and model.
The course is a combination of lectures and computer workshops of a total of 5 days (40 hours) and assignments of a total of 6-7 days (52 hours) and has a workload of 3 ECTS. Due to the current situation related to the Covid-19 pandemic, the PhD course may be conducted as a combination of physical lectures and online attendance.

The deadline for registration is **10 April 2021**. Registration will open in **January 2021**.

Read more about the PhD course

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Do you use EnergyPLAN in teaching?

We know that EnergyPLAN is used by teachers around the world - and we would like our website to show examples of use from the EnergyPLAN community.
If you teach or host a workshop applying EnergyPLAN, please share your experience

with us by sending us a brief description at energyplanmodel@gmail.com.

See examples of teaching

Referencing EnergyPLAN

We are now keeping an updated version of the EnergyPLAN documentation on Zenodo. This also enables more consisting referencing. We encourage our users to cite EnergyPLAN by using the following reference (which includes a DOI): Lund, Henrik & Thellufsen, Jakob Zinck (2020, September 7): EnergyPLAN - Advanced Energy Systems Analysis Computer Model (Version 15.1). Zenodo. http://doi.org/10.5281/zenodo.4017214.

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The EnergyPLAN development team

AALBORG UNIVERSITY
DENMARK