

Newsletter no. 10 - June 2014

Dear colleague and user of the EnergyPLAN software,

You are receiving this e-mail because you have once downloaded the EnergyPLAN computer model. We issue newsletters similar to this e-mail once or twice a year. If you do not wish to receive these newsletters, please reply with a NO to this e-mail and we will delete your e-mail address from the list.

In this newsletter, we announce three key updates for the EnergyPLAN tool:



New Book

A second edition of the book "Renewable Energy Systems" is now available, see www.energyplan.eu/book2/.

The book sets forth a straightforward, comprehensive methodology for comparing different energy systems' abilities to integrate fluctuating and intermittent renewable energy sources. It describes the theory and application of the EnergyPLAN tool, providing the results of more than fifteen comprehensive energy system analysis studies, examining the large-scale integration of renewable energy into the present system, and presenting concrete design examples derived from a dozen renewable energy systems around the globe. Renewable Energy Systems, Second Edition also undertakes the socio-political realities governing the implementation of renewable energy systems by introducing a theoretical framework approach aimed at understanding how major technological changes, such as renewable energy, can be implemented at both the national and international levels. Purchase the book here. Save 30% off the list price now by using discount PRT314 at check-out.

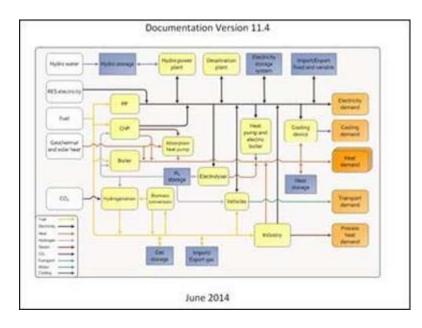
New Journal

We are proud to announce the launch of a new journal in Sustainable Energy Planning and Management. The journal is interdisciplinary and welcomes papers within three focus areas - Energy Systems Analysis, Energy Economics, and Public Regulation. The first two issues have already been published covering subjects such as heat atlases in Denmark, incentives for energy renovation, scenarios for Ireland, desalination in Jordan – as well as an entire special issue on Portugal and Brazil.

A special characteristic of the journal is that it is sponsor-financed with open access for both readers and authors. This set-up has been designed to provide information for free to any reader without the risk of compromising the editorial process due to financial dependency on payments from authors. The journal does not, however, compromise on layout and graphical appearance which is outsourced to a professional typesetting company – financed through support from the sponsors, Danfoss, PlanEnergi, DESMI, and Aalborg University.



You are very welcome to submit papers as well as of course to read the already published work. Please, visit the journal at http://journals.aau.dk/index.php/sepm



New version of EnergyPLAN

Version 11.4 of the EnergyPLAN model has just been released with new features relating to Carbon Capture, Nuclear, and Electric Boilers. You can download the new version of the model from www.energyplan.eu/energyplandownload/. The most significant changes to the model relate to the methodology used to estimate the costs of individual heating solutions.

Old Method: In previous versions of EnergyPLAN, the cost of individual boilers was related to the peak heat demand. Based on the annual heat demand and the corresponding hourly distribution, the peak heat demand was obtained for each type of individual boiler (MW_{th}). The price of individual boilers was then inputted in relation to capacity, i.e., M€/MW_{th}. However, this method underestimated the costs, since it did not represent the amount of surplus capacity installed for individual boilers.

New Method: In the new method, the cost of individual boilers is based on the number of boilers. There is now a new input for the average heat demand per building (kWh/year). Using the total annual heat demand per boiler type, EnergyPLAN estimates the number of different boilers by fuel (in 1000 units). The cost of individual boilers is then inputted as M€/1000 units of boilers.

Please, note that due to this change the cost calculation of previous input-data models will NOT come to the same/right result in the new EnergyPLAN, unless you correct these numbers in the Cost/Investment input tab sheet.

As always, we welcome new suggestions and invite you to share your experience with EnergyPLAN. Please, contact us at www.energyplan.eu/contact/

On behalf of the EnergyPLAN development team,

Henrik Lund, David Connolly, Poul Østergaard, Jakob Zinck Thellufsen, and Brian Vad Mathiesen

