

## Partner offer (competences/expertise)

Our team of engineers has been producing applications for the AEC (Architectural, Engineering, Construction) industry for the past 27 years. The applications combine CAD functionality with calculations and reporting. Over the years we have gained a vast experience in programming architecture, 2D/3D vector and raster graphics, design of friendly user interfaces. We have lately been supporting BIM (Building Information Modeling) standards. Our internal infrastructure includes reporting, multilingualism, error reporting, licensing, deployment, CRM, CMS, e-shop.

- Our product suite includes software applications for Energy Performance Assessment of buildings, HVAC, MEP, Construction management and much more. The energy performance application provides tools to easily model any building's envelope in 3D, calculate its energy performance and suggest costed energy-saving scenarios. In it we have implemented the ISO13790 standard and we have test-cased it extensively. Our software is being used by hundreds of engineers in Greece, UAE, FYROM and Bulgaria to design and optimize building energy consumption.
- Our engineers have taken part in the consultations for the adjustment of the ISO13790 standard to Greek standards (ELOT ISO EN 13790).
- Since 2007 we have been using and/or analyzing many software tools (such as EPA-NR) and test-casing our application's results against them.
- We have embedded the energy analysis calculation engine made by the Greek Chamber of Engineering and the National Observatory into our software. We have obtained a certification (Nr. 1879/23.11.2010) for this by the Greek Ministry of Environment and Energy. Furthermore, we have been making comments and suggestions for improvements on the engine for the past 5 years.
- The past 10 years we have been actively involved in meetings, congresses and fairs regarding energy performance and energy saving in Europe and MENA.
- Large libraries of ecological and eco-friendly materials have been compiled and are shipped within our application. A lot of those materials are used in Near Zero Energy buildings.
- Our module for construction types provides 3D visualization of any construction type made by any number of materials, calculates U-values and presents all the energy and thermal specific properties (such as specific heat, conductance, solar absorption etc.) of the materials.
- Our module to calculate the power output and performance of solar collectors can be used for any geographic coordinates even if solar radiation data are missing. It enables calculations for collectors of various manufacturers using their technical characteristics according to standard EN 12975. Thus, the user can easily identify the collector that best meets the thermal load demands in a certain region.

## Topics

EE-10-2016:

Supporting accelerated and cost-effective deep renovation of buildings

EE-13-2016:

Cost reduction of new Nearly Zero-Energy buildings

SCC-1 - 2016/2017:

Smart Cities and Communities lighthouse projects

## **Contact**

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