

Taking A Virtual Power Walk

FAB Bertelmann Technologie, based in Dresden, Germany, is developing an intelligent toolkit which uses virtual reality to help design and configure power generation and powertrain projects.

Using the features of the new software, called DyConcept – Toolkit, enables a database-based, time and cost-saving, effective, and automatized engineering workflow, the company said.

A key feature of the toolkit is the integrated virtual reality aspect for an intelligent 3D module configuration and model evaluation which rounds off the technological concept of the software, and takes engineering to a new level of intelligent planning and installation possibilities, according to the company.

FAB Bertelmann said that wearing virtual reality glasses is an evolution of the 3D CAD systems, and will be a major future trend for the next five to ten years in engineering. It said that engineers will be able to “walk through” power plants, and gas turbines to explore all angles of their design concept before installation work starts. It also creates an additional value for sales and helps for branding products.

The DyConcept – Toolkit can also aid with a variety of tests and analysis including those covering vibration, calculation of lubrication, and coolant systems. In addition, DyConcept features an automated creation of technical documentation, providing extendable interfaces of other calculation and simulation software.

The modular software structure toolkit enables the users to create custom workflows for a wide range of engineering, development, as well as sales applications of their products.