

## Press release

### Green hydrogen plants designed with Smap3D Plant Design solution



Nittendorf, 09.06.2021

**iGas energy, a German plant engineering company in the energy sector, uses Smap3D Plant Design for the design and planning of its efficient installations. The all-around software solution integrates process engineering, 3D planning, and mechanical design.**

Since 2016, iGas energy GmbH has been developing and producing innovative plants that focus on a resource-saving circular economy, hydrogen from renewable energies and hydrogen-based energy storage. The *Green Electrolyzer* system, for example, uses PEM electrolysis of water to convert surplus renewable energy into storable hydrogen, which is considered one of the key factors to a successful implementation of sustainable energy.

Smapp3D Plant Design, implemented by the software provider of the same name, is used in the design and planning of these plants. “Thankfully, we have found a solution partner that has a proven track record of practical experience in plant design. This meant that challenges could already be discussed at a high level during the consultation phase and constructive ideas could be brought forward so that we could find the right solution for our requirements,” stated Dipl.-Ing. Karl-Heinz Lentz, founder and managing director of iGas energy.

The 2D/3D plant and piping design software solution is based on over 30 years of experience in the areas of construction, process engineering, and pipeline production and can be fully integrated into leading CAD systems. The latter was a crucial point because the plant manufacturer places particularly high value on its designers being able to work in a single environment: That avoids media discontinuity and reduces error rates. In addition, accurate, detailed piping design is possible, ensuring that the green hydrogen plant is easy to operate and maintain.

“Our focus lay particularly on the introduction and implementation of the solution so that iGas energy could work quickly and productively, which not only benefits the business but ultimately also the environment” stated Maxim Lich, CEO of Smap3D Plant Design GmbH. The software provider supported iGas energy with trainings for the designers and individual software services: Among other things, the supplied standard parts library and the already large selection of predefined industrial pipe classes for the 3D planning of the environmental plants have been expanded to include further required standard parts and corresponding pipe classes.

More information about the iGas energy case study can be found at [www.smap3d.com/en/references/customer-references/igas-energy](http://www.smap3d.com/en/references/customer-references/igas-energy).

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### **About Smap3D Plant Design**

Smap3D Plant Design is developer of the eponymous software solution for 2D/3D plant and pipeline planning, 100% integrated in the CAD solutions Solid Edge and SOLIDWORKS, in use worldwide. In addition, the company offers further solutions, e.g. for steel construction and bending simulation. Smap3D Plant Design is headquartered in Germany and has offices in the USA, Hong Kong and China. It is characterized by many years of expertise in plant design and holistic user support. The team assists customers and partners in consulting, implementation, training and support. The software's integrated design process – from P&ID to Piping to Isometric – convinces companies from different branches such as plant and mechanical engineering, process industry (e.g. pharmaceutical, food or beverage industry) or environmental and water technology.

### **Website**

[www.smap3d.com](http://www.smap3d.com)

### **Social Networks**

[facebook.com/Smap3DPlantDesign](https://facebook.com/Smap3DPlantDesign)

[twitter.com/CAD\\_PlantDesign](https://twitter.com/CAD_PlantDesign)

[youtube.com/c/Smap3DPlantDesign1](https://youtube.com/c/Smap3DPlantDesign1)

[linkedin.com/showcase/smap3d-plant-design/](https://linkedin.com/showcase/smap3d-plant-design/)

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