



News Release
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Leading EPCs and Owners Credit Bentley's *OpenPlant* Advancements

OpenPlant Support Engineering Advancement Accelerates Design, Analysis, and Placement of Plant Hangers and Supports

LONDON – The *Year in Infrastructure 2015* Conference – 3 November 2015 – Bentley Systems, Incorporated, a leading global provider of comprehensive software solutions for *advancing infrastructure*, today reported that [*OpenPlant*](#) continues to set the pace for engineering, procurement, and construction (EPC) contractors and owner-operators around the world who are embracing multi-discipline 3D plant design to deliver projects faster and to enable lifecycle information mobility. Among the projects crediting *OpenPlant* are 22 nominees for the 2015 *Be Inspired* Awards program, spanning nine countries and eight innovation categories. Examples of projects that have benefited from *OpenPlant*'s advancements, along with a brief description of advantages gained, immediately follow the product advancement update below.

Product Advancement Update: Accelerating Design, Analysis, and Placement of Plant Piping Supports and More

The most recent addition to *OpenPlant* applications is [*OpenPlant Support Engineering*](#), now available through General Access. The new offering enables EPCs and owner-operators to accelerate the design, analysis, and placement of plant supports and support assemblies for plant piping, electrical, and HVAC components. *OpenPlant Support Engineering* increases productivity and design accuracy while decreasing overall project

time through its intra-operability with other *OpenPlant* applications, access to multiple vendors' catalogs of support components, and the automated generation of construction drawings and bills of material.

Bentley Systems Vice President Ken Adamson said, "*OpenPlant Support Engineering* fully integrates with [*OpenPlant Modeler*](#), [*OpenPlant ModelServer*](#), and [*OpenPlant Isometrics Manager*](#), along with [*ProjectWise*](#). As a result, users work directly within their *OpenPlant* environment and can easily integrate support and support assemblies into their overall plant designs. This substantially reduces time spent coordinating across design disciplines while decreasing errors."

Damian Fonte, senior piping engineer, Hatch, said, "We anticipate *OpenPlant Support Engineering* will allow us to save time with quick and easy access to accurate support models. What impressed me most about the software is that the manufacturers' certified catalogs are one click away."

With *OpenPlant Support Engineering*, users can:

- quickly and accurately design, model, and place supports and support assemblies;
- cost-effectively engineer *all* supports in a reasonable time frame;
- leverage a common data environment, with analysis tools such as Bentley's [*AutoPIPE*](#) and [*STAAD.Pro*](#), to help ensure the structural integrity and safe operation of plants of all types;
- access an extensive selection of content from multiple vendor catalogs;
- automatically generate accurate construction drawings and bills of material; and
- increase productivity through enhanced collaboration and data reuse.

Examples of Projects Crediting *OpenPlant*

Compliance and Risk Mitigation

MWH Global's engineers, consultants, and construction professionals are specialists in water and natural resources who use innovative ideas and technology to help solve complex infrastructure and environmental challenges. During the **Tyseley Resource Recovery Centre power generation project in Birmingham, U.K.**, MWH used [*OpenPlant PID*](#) to produce P&IDs with embedded KKS to comply with power industry standards and to export [*i-models*](#) to synchronize with mechanical piping models. MWH Global used *OpenPlant Modeler* to design mechanical piping and equipment and attach nongraphical information to all 3D design models. The use of intelligent 3D models helped identify hazardous areas in plants and mitigate risks. Ashish Katake, lead CAD designer, MWH Global, said, "Bentley *OpenPlant* applications suite truly helped in our project design delivery and enabled us to stand tall in the crowd."

Reducing Project Delivery Time

Enipro Sp. z o.o. is a multi-discipline engineering and construction company based in Gliwice, Poland, with a long history of scientific and technical achievements in the energy and environmental sectors and chemical industries. During an installation involving the **Catalytic Denitrification and Dedusting Gas from Boilers at PKN ORLEN SA's CHP Plant in Plock, Mazowieckie, Poland**, the Enipro team employed *OpenPlant Modeler* to virtually model the piping installation to EU standards. Enipro project manager Wojciech Szczuka said, "The Enipro engineering team used *OpenPlant* on the Bentley platform to create 3D models that were shared by all disciplines. Having a 3D model shortened design time, reduced project delivery time, and minimized the occurrence of clashes during construction. Our use of *OpenPlant Modeler* reduced project cost by up to 20 percent." Additionally, Enipro's use of *OpenPlant Isometrics Manager* for isometric production reduced the delivery time for the project's documentation by 20 percent.

Optioneering for Higher ROI

GEA Equipamentos E Soluções S/A, based in Campinas, Brazil, manufactures a range of process technology equipment and components largely for the food processing industry. In constructing a **Milk Pasteurization System in Paraná, Brazil**, GEA's use of *OpenPlant* to model the plant's piping enabled it to check for interferences and possible design errors while avoiding future costs of manufacturing errors. Willian Leite Avelino, piping designer for GEA, said, "The *OpenPlant* software enabled the modeling of the components, extraction of the isometric projections, and the preparation of plant options in a faster manner, reducing the delivery time of the design and, thus, time for construction." By reducing the delivery time of the project by 10 percent, time of construction by 20 percent, and the number of labor hours for plant completion, *OpenPlant* increased the return on investment.

Multi-discipline Collaboration in Parallel

DI Soyuzhimpromproekt FSBEI HPE KSTU, a provider of design services for a wide range of facilities including hazardous materials plants, petroleum and gas stations, HVAC systems for industrial buildings, and more, recently worked on the **Special Industrial Production of Methylchlorosilane project in Kazan, Republic of Tatarstan, Russia**. It involved the conversion of an existing synthetic rubber plant into the new production facility. With the help of *OpenPlant*, [*ProjectWise*](#), and other Bentley software, the engineering team developed a federated information model to facilitate design and accelerate information exchange. The software further provided a unified database of materials and equipment, automated the generation of specifications and estimates, and improved the quality of design decisions as well as the efficiency of project manufacturing administration. Together, these advancements cut design time by 25 percent, time to produce project documentation by 50 percent, and the project travel budget by 30 percent. Sergei Krashakov, head of design team, DI Soyuzhimpromproekt, said, "The Bentley software allows the organization of parallel teamwork on a project by practically any number of specialists in various fields."

About *OpenPlant*

OpenPlant provides advancements for the multi-discipline engineering of process plants. It is widely adopted by leading plant EPCs and owner-operators as the most practical and the most scalable solution to comprehensively support project delivery. Through its use of iRING/ISO 15926 as an intrinsic data model, *OpenPlant* enables users to coordinate and share information across multiple disciplines and the infrastructure lifecycle.

For additional information:

- [*OpenPlant*](#)
- [*OpenPlant Support Engineering*](#)
- [*The Be Inspired Awards Program*](#)
- [*The Year in Infrastructure 2015 Conference*](#)

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About Bentley Systems

Bentley Systems is a global leader in providing architects, engineers, geospatial professionals, constructors, and owner-operators with comprehensive software solutions for advancing the design, construction, and operations of infrastructure. Bentley users leverage information mobility across disciplines and throughout the infrastructure lifecycle to deliver better-performing projects and assets. Bentley solutions encompass *MicroStation* applications for *information modeling*, *ProjectWise* collaboration services to deliver *integrated projects*, and *AssetWise* operations services to achieve *intelligent infrastructure* – complemented by worldwide professional services and comprehensive managed services.

Founded in 1984, Bentley has more than 3,000 colleagues in over 50 countries, more than \$600 million in annual revenues, and since 2008 has invested more than \$1 billion in research, development, and acquisitions.

Additional information about Bentley is available at www.bentley.com and in [Bentley's annual report](#). For Bentley news as it happens, subscribe to an [RSS feed](#) of Bentley press releases and news alerts. Visit [The Year in Infrastructure 2015 Conference](#) website for highlights of Bentley's premier thought-leadership event, being held November 3-5, 2015, in London, U.K. To view a searchable collection of innovative infrastructure projects from the annual *Be Inspired Awards*, access Bentley's [Infrastructure Yearbooks](#). To access a professional networking site that enables members of the infrastructure community to connect, communicate, and learn from each other, visit [Bentley Communities](#).

To download the *Bentley Infrastructure 500 Top Owners* ranking, a unique global compendium of the top public- and private-sector owners of infrastructure based on the value of their cumulative infrastructure investments, visit [BI 500](#).

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Images:

MWH Global reduced design time, identified hazardous areas in a plant, and mitigated risks with intelligent 3D models designed with OpenPlant.

http://ftp2.bentley.com/dist/collateral/docs/corporate/press_kits/YII_2015/Press_Releases/OpenPlant_PR_MWH_Global.png

Soyuzhimpromproekt used Bentley software, including OpenPlant to cut plant design time by 25 percent.

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