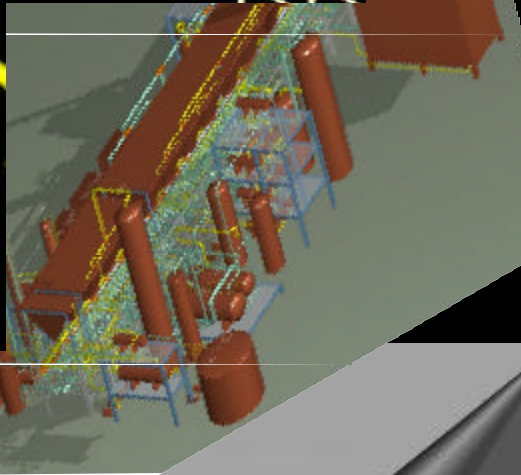
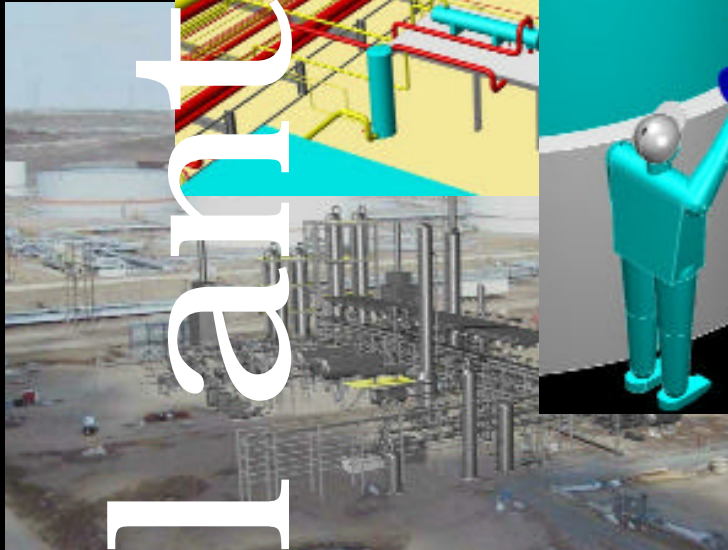
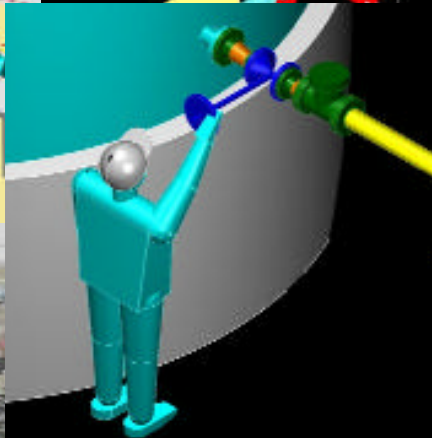
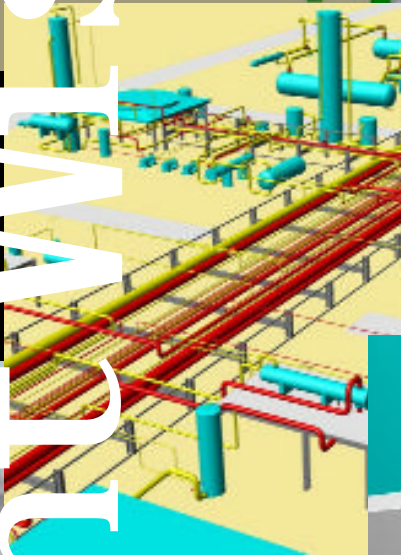
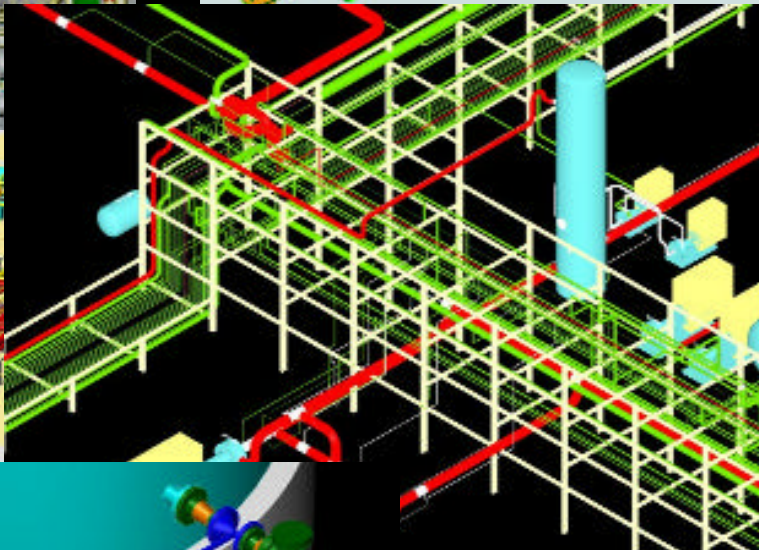
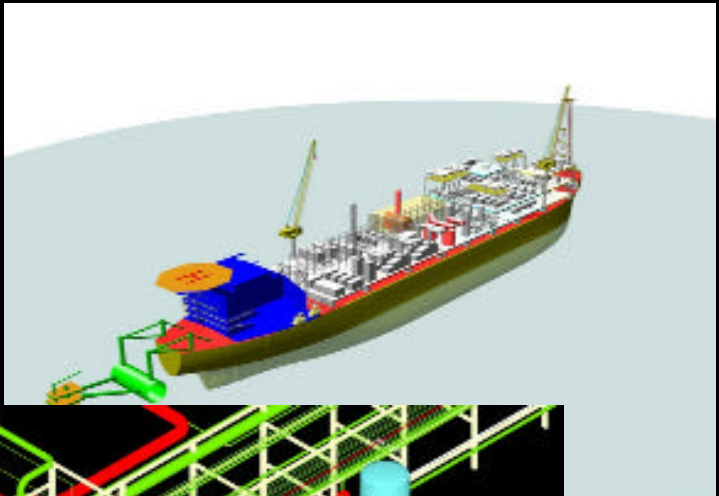
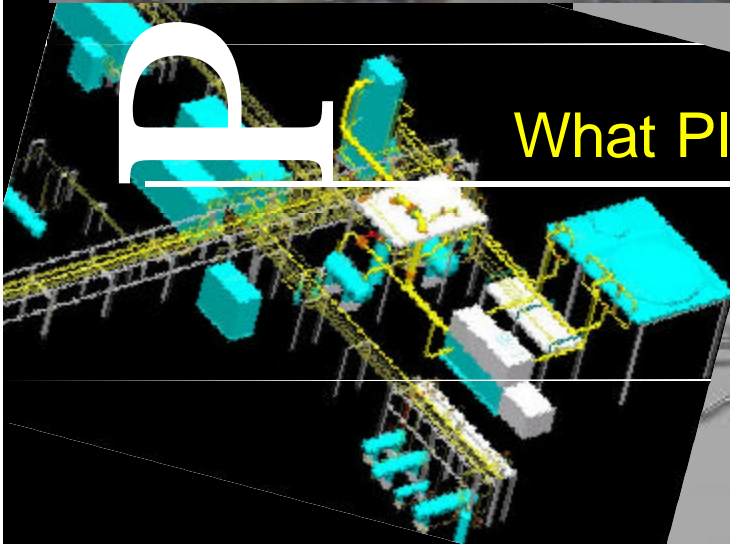


PlantWise



What PlantWise Users say



PlantWise has provided its users with significant value. It lets users, in record time:

- Create and visualize a fully piped virtual plant in 3-D
- Generate a +-3% piping estimate
- Iterate through unlimited numbers of layout alternatives almost instantaneously
- Significantly reduce plant material costs
- Get approval from customer
- Reduce detailed piping design time

This is what some PlantWise users say:

On accelerated model creation:

Thilo J. Werners, Technical Engineering project manager for Bayer, AG. of Leverkusen, Germany reported in Chemical Online:

"The primary advantage of using PlantWise is the ease with which we can create and review new plant concepts in 3D. The software allows managers to review and discuss design ideas and to implement alternative solutions on the fly."

"In one project 4 people working 5 weeks generated 18 models and sub-models covering 1667 pipelines and 136,000 feet of pipe." reports another customer.

On estimating

Graham Hoult of AMEC, UK:

"Within two weeks a full pipe material estimate for these 150 lines had been produced, approximately 10 times faster than by old methods."

Another customer:

"The piping estimate for the complex interconnecting pipeway system with literally over a mile of pipeways came in within 3%,"

And on another project:

"PlantWise produced an estimate within 1% of the detailed design quantities."

Thilo Werners of Bayer, AG. :

"We generate detail models and working drawings in PDS only after evaluating and costing designs in PlantWise."

On alternatives, cost reduction and customer satisfaction:

Black & Veatch in Kansas City:

"The ability to move equipment easily in the model and determine material savings fast is very cost effective."

Graham Hoult of AMEC, UK reports:

"The client for the study project recently viewed the model and reported back with great enthusiasm advising that further work will be required on the project for which PlantWise will be fully utilized".

"It was recognized that the plant had not been arranged in the most economic way and using PlantWise the layout philosophy was completely reworked. This exercise took approximately one week to achieve and provided a new layout and piping estimate, a job that would have normally taken weeks to complete."

"On the piping level this reduced the amount of material required and the subsequent cost by approximately 50%."

Fluor, Inc. reported in a Chemical Engineering:

"When they compared MTOs from both models, they found that the OptimEyes [PlantWise] design saved more than \$1 million in total installed cost for piping."

Another customer:

"The plant was modeled with all pipes 3/4" and above into a fairly complex structure. The estimate showed that the proposed solution was over budget. The client asked us to house the plant in a smaller structure. The new model came under budget, but the client worried about access problems on the much constricted layout. However, looking at the automatically routed model with 3D visualization software, the clients fears were allayed, and the project proceeded."

Thilo Werners from Bayer, AG:

"Bayer saved about 4-10% of project costs [\$36 million methyl chloride project] and about 2-4 month in construction by using PlantBuilder /AutoRouter [PlantWise] to quickly make changes to the equipment, structural steel and overall plant layout before the project proceeded."

"For the methyl chloride plant, we considered numerous variations including piping and cable tray routing, operations concepts, erection and dismantling access for every piece of equipment, piping studies, instrumentation and control loops, penetrations and passages. PlantWise enabled the team to quickly develop and implement alternative solutions. This eliminates a significant number of changes and rework."

On reducing piping design time:

Youichi Nishi, head of Toyo Engineering Company's integrated plant design group reports in Chemical Engineering:

"Toyo's Feed toolkit [based on PlantWise] reduces the total design time by 10-20%"

Another customer:

"The PDS piping work went much faster when they were working side by side with the PlantWise model. The piping project man hours were reduced with an estimated 20%."

Design Power, Inc.
10020 N. De Anza Boulevard
Cupertino, CA 95014
Tel# (408) 366 6600
Fax# (408) 366 6607
e-mail: plantwise@dp.com
www.dp.com