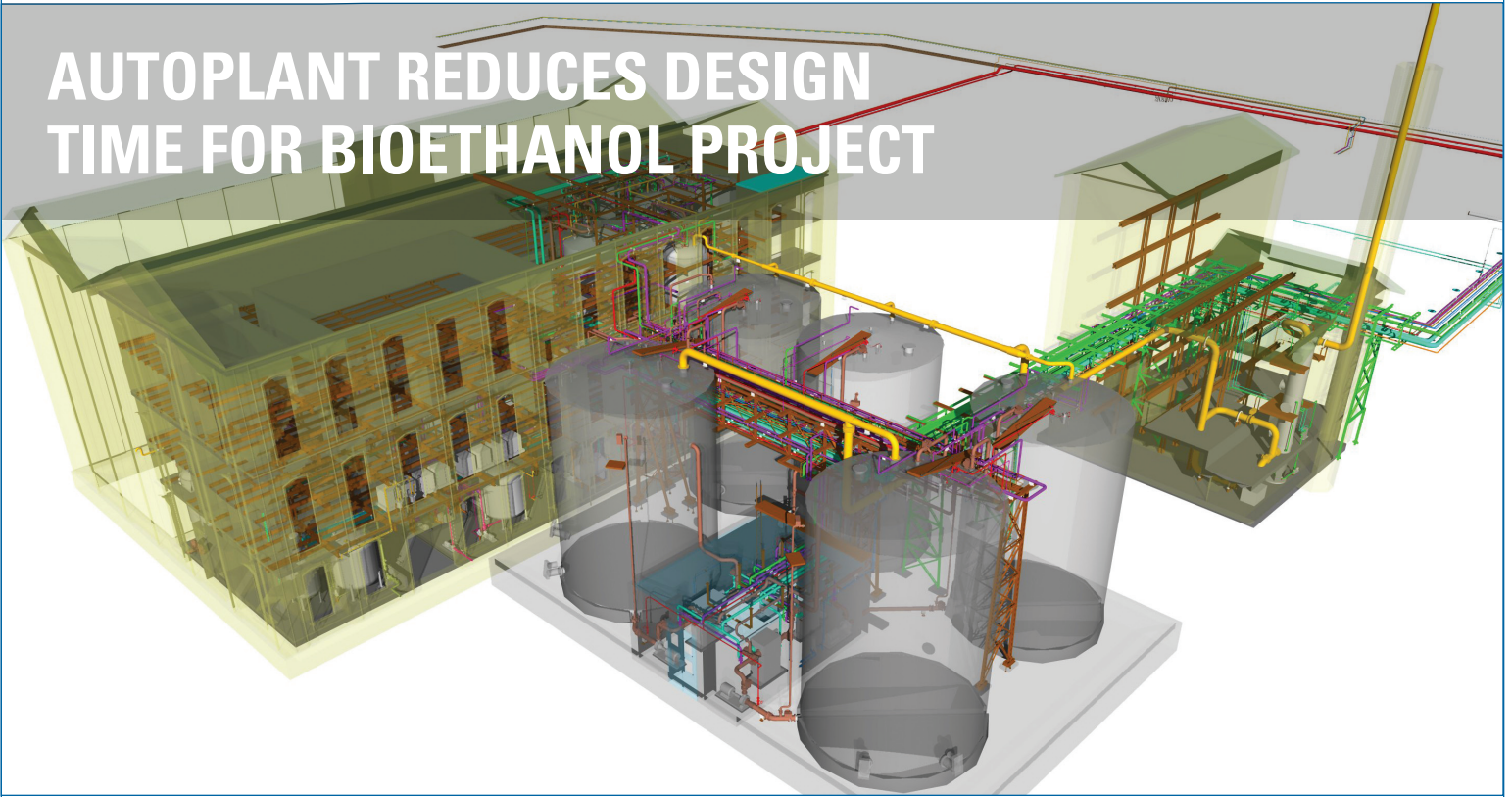


AUTOPLANT REDUCES DESIGN TIME FOR BIOETHANOL PROJECT



Chemoprag, s.r.o. was asked to design a bioethanol production facility in Sugarmill Vrdy.

The goal of this project was bioethanol production from renewable grain resources, with pure products, environment-friendly by products, high efficiency, and low investment cost. The bioethanol production facility in the Czech Republic was constrained by the equipment within an existing sugar mill. The mash and rectification column was located in free space adjoining a structure in which the rest of the process equipment was located. The very limited space demonstrated the advantages of 3D design.

The plant was split into several process units and civil objects. The mechanical part of five process units was handled in 3D with AutoPLANT®. The very limited space for the distillation equipment showed the advantage of 3D project processing. The distillation equipment comprises two parts: The mash and rectification column with reboilers and adsorbers are located in free space adjacent to a three-story steel structure where the rest of process equipment is located.

The company used Explorer to check for clashes and resulting from incorrect estimates of insulation thickness.

Overall, 3D design saved about two month's work of six designers.

PROJECT SUMMARY

Organization

Chemoprag, s.r.o.

Location

Czech Republic

Project objective

- The goal of this project was bioethanol production from renewable grain resources, with pure products, environment-friendly by products, high efficiency and low cost.

Fast Facts

- With AutoPLANT® 3D the team overcame all challenges and reduced the overall design time of six designers by 2 months.

Bentley products

- AutoPLANT® Equipment
- AutoPLANT® Piping
- AutoPLANT® Structural