CASE STUDY

COADE®
Plant Focused. Industry Driven.™

"We achieved faster designs and faster isometric generation with very few mistakes. With CADWorx Plant we were able to develop plant designs in three months"

Kemal Kurtovic, Senior Piping Engineer at Petrolinvest

PRODUCT INDEX

CADWorx® Plant Professional
CADWorx® Steel Professional
CADWorx® Equipment Professional
CAESAR II®
PV Elite™

INDUSTRIES SERVED

• Petrochemical

FEATURED RESELLER

KLG,
India

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CADWorx and CAESAR II allow Petrolinvest to develop plant designs in three months

Petrolinvest d.d. (Petrolinvest), the engineering company based in the city of Sarajevo, has successfully completed a recent project using CADWorx and CAESAR II. "CADWorx and CAESAR II helped us produce accurate isometric drawings and bills of material that perfectly matched the original plant model eliminating many possible mistakes and slow design times," says Mr. Kemal Kurtovic, Senior Piping Engineer at Petrolinvest.

Petrolinvest – capitalizing on its extensive experience
Petrolinvest, a joint venture, created in 1969 between Energoinvest Sarajevo and Technip Paris, is an engineering company with lengthy experience in the design and construction of complex industrial process plants in the Balkans, Mediterranean and Middle East. Petrolinvest is located in the city of Sarajevo in Bosnia and Herzegovina, part of the former Socialist Federal Republic of Yugoslavia.

Novi Sad Oil Refinery Project
One of Petrolinvest's recent clients was the Novi Sad Oil Refinery located in the city of Novi Sad, Serbia. The Novi Sad Oil Refinery experienced enormous destruction during the 1999 NATO bombing of Novi Sad and, in the years since, has seen extensive reconstruction.

The US $25M Novi Sad project awarded to Petrolinvest involved the design of a light gasoline isomerisation plant being added to the Novi Refinery. The finished plant would enable production of high-octane components that are necessary for the production of unleaded gasoline, therefore reducing benzene and aromatics emissions to the environment.

Choosing CADWorx to ensure faster ISO generation
Petrolinvest used plain AutoCAD for their previous projects which involved maintaining a large library of 2D standard piping components and typical arrangements. "We had to develop isometrics first and only then could we produce complete bills of material. It took a lot of time to finish and we could never be sure whether the project was accurate," says Mr. Kurtovic, Senior Piping Engineer at Petrolinvest. "We looked at several different 3D plant design solutions and selected CADWorx Plant Professional because it was easy to use and it was less expensive than other alternatives."

Improving project time and accuracy with CADWorx and CAESAR II
Once Petrolinvest started using CADWorx and CAESAR II, they saw a considerable improvement in design times, accuracy, and overall project quality.

With CADWorx Plant Professional, Petrolinvest finished their designs within a three-month period. The company prepared a complete composite model that was made up of thirteen separate 3D models. Then, using CADWorx Equipment, Petrolinvest prepared AutoCAD equipment drawings that were included in each XREF model. CAESAR II allowed Petrolinvest to perform accurate flexibility analysis of the project's process lines. The use of comprehensive and automatic error checker n CAESAR II, allowed for the review of all inputs and the identification of those areas that needed immediate attention.

"We are very happy to be the first users of COADE's valuable products in this part of Europe. Because of the successful results of this project and proven product quality, we plan to acquire a complete set of tools offered by COADE," says Mr. Kurtovic.

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