



“For designers previously involved in using other applications of 3D design software, only a few hours of training were enough to achieve a competent user level with CADWorx.”

Miroslav Knezevic, Piping Team leader at Capital Engineering

PRODUCT INDEX

CADWorx® Plant Professional
CADWorx® Equipment
CAESAR II®

INDUSTRIES SERVED

- Petrochemical

FEATURED RESELLER

CodeCAD
Canada

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Capital Engineering standardizes on CADWorx, cutting resource requirements by half

Establishing a solid market presence

Based in Edmonton, Alberta, Canada, Capital Engineering (Capital) is a multi-discipline consulting engineering firm that offers flexible, responsive and diversified solutions for the oil sands, petrochemical, utilities and oil & gas industries. Since its opening, Capital has successfully completed many industrial projects, providing engineering, procurement, and construction management services.

Sulfur recovery unit project requires engineering expertise

Capital Engineering was awarded a sulfur recovery unit (SRU) project for an oil sands producer near Fort McMurray, Alberta. The scope of work included detailed engineering, field engineering and commissioning, construction inspection and Engineer of Record responsibilities.

Old package compromises output

Initially, Capital Engineering tried using an alternative intelligent 3D plant design system for the project. They realized that their current software was not able to deliver what was required. One of the key deliverables was the ability to produce isometrics automatically, which did not work as expected. Also, the representation of the 3D objects was limited to basic AutoCAD functions, which did not allow Capital to meet the client's rigorous drafting standards.

“We used the original software for some time on this project and had to deal daily with a number of software issues,” said Miroslav Knezevic, piping team leader. “The failure of our old solution to deliver results forced us to use basic AutoCAD to produce isometrics, it was only with a great effort from our drafting team we were able to meet our tight schedule.”

CADWorx helps put project back on track

With the project already designed in 3D using the original software package, Capital then had to rely upon manually drawn piping isometrics, putting the schedule at risk. To salvage the work they had completed and to attempt to make the project schedule, Capital Engineering decided to switch to COADE CADWorx Plant Professional. They chose CADWorx based on its proven reliability, flexibility and simplicity.

CADWorx continues to deliver

After producing the isometrics that the client required, Capital then focused on producing close to 110 general arrangement drawings from the 3D model, which was easy to do because of the intuitive tools built right into CADWorx. By using CADWorx, Capital Engineering delivered all general arrangement drawings on schedule, using less than half of the allotted time, and they produced them to a very high standard for the client.

Capital standardizes on CADWorx

“The success with this project was convincing enough for the management of Capital to make a decision to use CADWorx Plant Professional as the firm's main design platform,” added Knezevic. “The management team approved training for all the members of the piping design team.”