CASE STUDY

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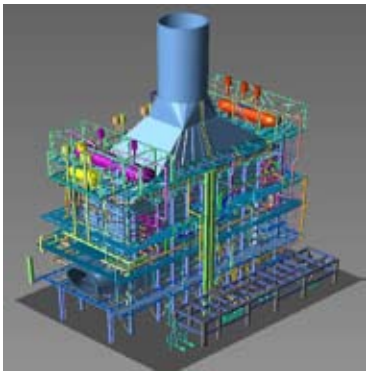

"CADWorx Plant Design Suite brought huge rewards and no risks compared to other applications."

"Our designers could apply their Auto-CAD knowledge to build accurate and detailed drawings using CADWorx Plant Design Suite."

Gu Quanbin, WHBC Project Engineer

PRODUCT INDEX

CADWorx® Plant Professional
CAESAR II

INDUSTRIES SERVED

• Power generation

FEATURED RESELLER

AECSOFT, China
http://www.aecsoft.com.cn/

CADWorx and CAESAR II help transform Wuxi Huaguang Boiler Company to a top tier industrial supplier in China

Wuxi Huaguang Boiler Company Ltd. (WHBC), a manufacturer of stand and industrial boilers, boiler machinery and pressure containers, was chosen by the Putian Liquidized Natural Gas (PLNG) Power Plant in the Fujian Province to complete its Heat Recovery Steam Generator (HRSG) boiler project.

Established in 1958 as Wuxu Boiler Works in Wuxi City in Southern China, an area known today as "Little Shanghai", WHBC has grown from an unknown middle-sized company to a nationally recognized company in the manufacturing industry, enjoying an excellent provincial and national reputation in the market. In addition to boilers and related products, WHBC also engineers and designs process systems.

Putian LNG Power Plant project fueling economic growth

The PLNG Power Plant, intended to be a major provider of clean electricity to support the economic development of Fujian province, is fueled by re-gasified LNG from Indonesia, imported through the Fujian LNG Receiving Terminal. The HRSG boiler project would be an integral part of the PLNG plant's ability to provide the region with this needed energy.

Improved quality and accuracy by moving from 2D to 3D plant design

WHBC had used 2D designs for most of its projects for over 50 years. After a companywide decision to move to 3D plant design and having seriously considered all available products on the market, WHBC chose CADWorx Plant Design Suite with pipe stress analysis via CAESAR II for the design of the HRSG boiler project at the PLNG plant.

When the company started using CADWorx for 3D plant design, it could see that the design quality and visualization had improved significantly. "We were able to build accurate designs and assemble and model all equipment details including support equipment, steelworks, accessory device, and piping," said Gu Quanbin, project engineer at WHBC.

Automatic isometric drawings saved time and money in fabrication

By using CADWorx in developing a 3D model, WHBC was able to use ISOGEN to automatically produce isometric drawings and bills of materials for fabrication. This significantly reduced fabrication and erection times as well as material costs, taking WHBC just three days to train its people, two days to prepare data and specification files and a short two months to complete the entire project.

Bidirectional links improve accuracy by more than 50%

Bidirectional links between CADWorx Plant and CAESAR II for pipe stress analysis allowed for better collaboration. Stress analysis engineers could output CADWorx Plant pipe models to CAESAR II, perform necessary modifications, and import these modifications back into the CADWorx Plant model. The data consistency was maintained through the whole process. "We enhanced stress analysis efficiency and accuracy by more than 50%," explained Quanbin. "And, if we compare our investment in the CADWorx Plant Design Suite with other industrial software, we found that the cost was only 20% of other applications, so our investment in CADWorx Plant gave us substantial rewards and no risk whatsoever," he concluded.

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