

**User name:** China ENFI Engineering Co., Ltd.

**Project name:** Digital construction project of comprehensive garbage treatment facilities in Xiong'an New Area

**Location:** Beijing, China

**Background:**

- The Garbage Comprehensive Treatment Facility Project of China's Xiong'an aims to make the area a "waste-free city."
- The 220,000-square-meter facility processes 3,060 tons of garbage, kitchen waste, solid sewage, and medical waste per day.
- China ENFI Engineering Corporation was contracted for project design and construction.

**Challenges:**

- Design had to incorporate advanced technologies to treat six different kinds of waste.
- Plant would be hidden from view, built underground into a mountain and topped with a park.
- Needed complex support columns, ventilation, tight space for equipment, shortened schedule.

**Solution:**

- ProjectWise was needed to improve project management and unify the work of more than 60 people across 13 design specialties.
- 3D models were created using Bentley Open applications.
- Simulating the construction process with SYNCHRO helped teams understand the complex installation process and keep the project on schedule.

**Outcomes:**

- Bentley technologies helped collaborate and bring together engineering, enterprise, and operational data to improve infrastructure delivery and performance across the lifecycle.
- Improved efficiency by 130%, greatly reduced errors, and saved CNY 13.7 million.

**Quote:** "Bentley technology was used to realize the innovative application of 'deindustrialization and seamless design' with a variety of industrial facilities hidden underground and country parks on the ground."— *Zheng Peng, Director of BIM Digital Engineering Office of Energy, Environment and Urban Construction Division, China ENFI Engineering*

**Image caption/courtesy 1:** Bentley Open applications helped designers model the complex underground facility. *Image courtesy of China ENFI Engineering.*

**Image caption/courtesy 2:** ProjectWise unified the work of more than 60 people with 13 design specialties and improved project management. *Image courtesy of China ENFI Engineering.*

**Image caption/courtesy 3:** Simulating the construction process with SYNCHRO helped teams understand the complex installation process and keep the project on schedule. *Image courtesy of China ENFI Engineering.*

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