



Scope of Work

- FEED Study
- Value Engineering
- Geotechnical Analysis
- Material-Handling Systems Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Procurement & Subcontract Management
- Dome Construction
- Tunnels Construction
- Material-Handling Systems Installation
- Explosion Relief Installation
- Additional Steel & Concrete Construction
- None
- Some
- All

The dome's capacity provides a way for achieving desired throughput from a single storage structure.

The circular stacker reclaim-er allows ADM to inventory stored product by age.

Dome Technology competed for the project against a company providing aluminum and steel domes and was chosen in part based on cost savings.

Overview

Better product protection was the main reason ADM chose a dome for its coal cogeneration plant in Clinton, Iowa.

According to ADM Clinton Cogeneration plant manager Kevin Duffy, ADM has always stored coal inside some sort of structure to manage dust, but selecting a dome from Dome Technology was an improved means of maintaining coal quality. The dome's seamless construction protects coal since "you don't get rain, (and) you don't pick up the other moisture from weather events," Duffy said.

The dome's capacity is also advantageous in supplying a way to achieve desired throughput from a single storage structure rather than requiring multiple silos, Duffy added.

Managing dust inside and out was another selling point. ADM liked the dome option because it didn't have any beams for dust to collect on, Roberts said. Not only does this ensure safer operations within the dome, but it allows ADM to be a better neighbor to nearby communities. Domes effectively contain dust and help businesses meet local regulations while fostering good relationships with the community, said Dome Technology Vice President of Marketing Jason Miller.

The dome was fixed with a circular stacker reclaiming providing even filling and the ability to inventory stored product by age.

The project's success led to Dome Technology securing another ADM project in Columbus, Nebraska, for a dome of similar size storing the same type of coal.

"For nearly four decades we've relied on a collaborative approach with companies—they're in the driver seat, and we help navigate. In every project Dome Technology incorporates innovative technology to maximize storage capacity and system performance with an economical solution," Bradley Bateman, CEO, Dome Technology.



Read more about this project at link.dometechnology.com/14342

Storage & Reclaim

- 1 Dome: 90.8m (298ft) Wide x 50m (164ft) Tall
- 54,600 Metric Tons, Coal
- MVT Stacker Reclaimer

