



# ANNUAL REPORT 2024

Highlights from our diverse scope of work  
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*Argos/Summit Materials  
Houston, Texas, USA*





*Left: The DomeSilo in Colombia required a high level of agility for the Dome Technology team.*

*Above: The Texas dome stores 50,000 metric tons and boasts speedy fill rates.*

## 2 DOMES, 2 LOCATIONS, 1 CUSTOMER

*Dome Technology completed two projects for Argos Cement/Summit Materials in 2024, a move designed to maximize the company's cement production and distribution*

*Editor's note: Argos was acquired by Summit Materials after contracting with Dome Technology for these projects.*

### **Houston, Texas, USA**

After considering all options, Argos leadership determined a DomeSilo was the best option for its Houston, Texas, site.

"The dome gives Argos a great amount of storage in a relatively small footprint and an economical storage price per ton relative to typical silos," said Argos project manager Steve Andersen, who oversees terminal operations.

Argos contracted with Dome Technology partly because the team could oversee so many aspects of the project. The DomeSilo stores up to 50,000 metric tons of cement and is 125 feet (38.1m) in diameter and 137.5 feet (41.9m) tall.

The Houston site brings in cement via ship, and because the dome stands so close to the river, mechanical screws run from the Bruks Siwertell ship unloader to the side of the dome and up to the apex. This model provides speedy loading—up to 1,200 tons per hour.

Argos also operates a 2,000-metric-ton truck-loading silo on site, and daily sales often exceed that capacity. Being able to rapidly fill the DomeSilo allows the company to increase sales, Andersen said, noting the dome's capacity results in more attractive freight rates by allowing for larger cargo volumes, which reduces freight costs.

Andersen said Argos looks forward to faster filling, more environmentally friendly storage, and manpower savings

from the elimination of front-end loaders.

### **Cartagena, Colombia**

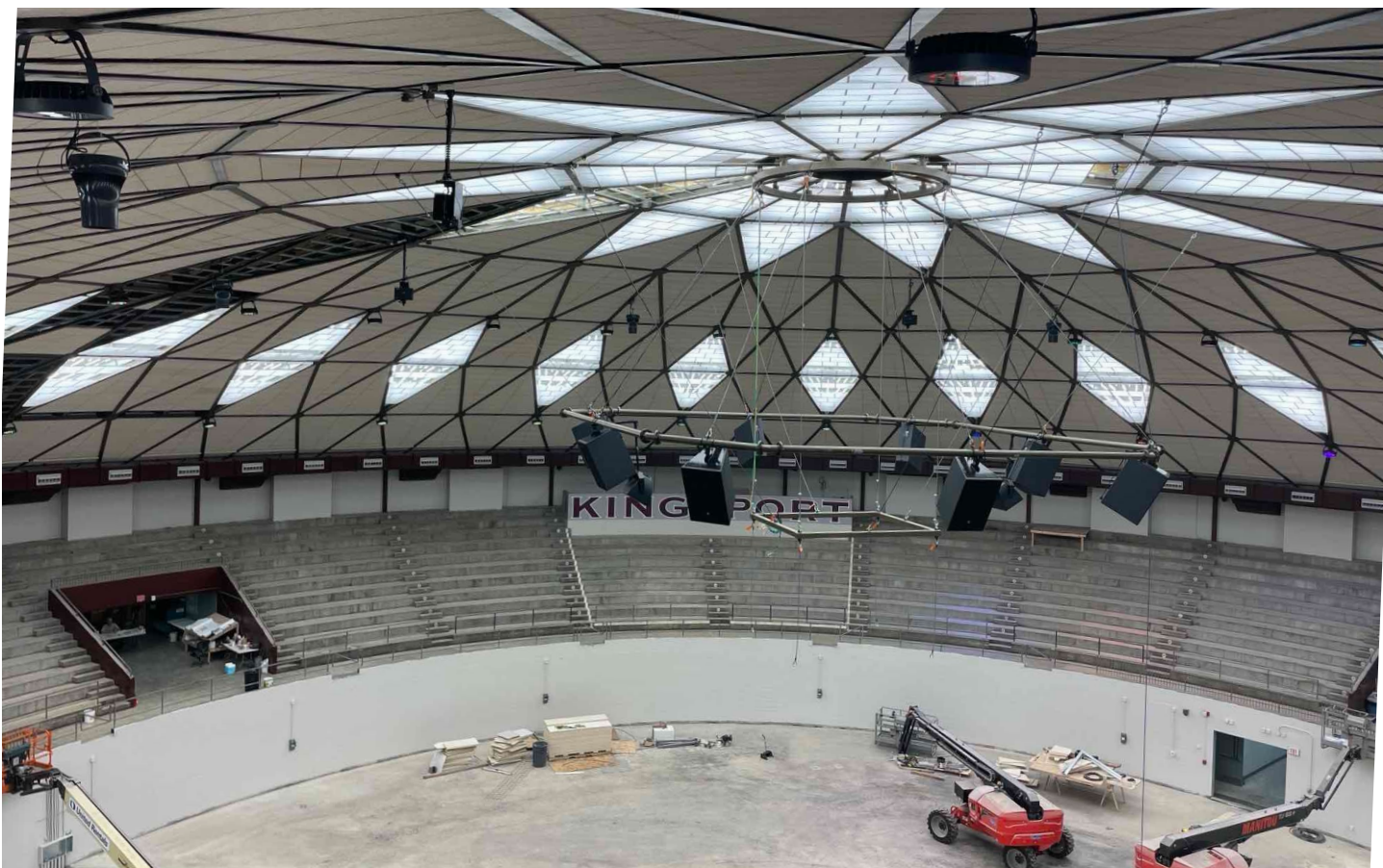
The DomeSilo in Cartagena, Colombia, is 110 feet (33.5m) tall with a diameter of 93 feet (28.3m) and capacity of 20,000 metric tons. The project required is a testament to Dome Technology's nimbleness, even when working abroad.

The first challenge manifested itself early on. Dome Technology's team discovered differences between the site's soil and the soil report, requiring a pivot in the foundation plan—and fast. The engineering team collaborated with local engineers to develop a strategy utilizing an innovative drilling technique that would complement the location.

"This solution was developed between Colombian and U.S. engineers working together in record time and saving potential extraordinary delays in the project," project manager Luis Guerrero said.

The second challenge came when a key project player declared bankruptcy. To keep things rolling, Dome Technology assumed responsibility for handling supplies, shipments delays, certification, commissioning, electrical and mechanical installation.

Today the Colombia dome is awaiting commissioning. Once complete, it will become an essential part of Argos Colombia's shipment strategy to Central America and the U.S.



*Dome Technology fabricated all the components for the roof retrofit. The project was finished well ahead of schedule.*

## NEW LIFE FOR A WELL-LOVED DOME

*Dome Technology plays key role in rehabilitating school district's iconic sports facility*

**K**ingsport City Schools had a large, impressive sports facility on its Dobyns-Bennett High School campus, but the gymnasium's wooden dome roof was failing, and the district was eager to find a solution that didn't require a wrecking ball.

Dome Technology was hired to rehabilitate the key element of the facility: the 50-plus-year-old Buck Van Huss wood-domed roof. According to vice president of construction Bryan Butikofer, other contractors claimed it couldn't be salvaged, but the Dome Technology team was determined to make it happen. The two greatest achievements on this project were both engineering feats: "coming up with the solution that no one else could" and "detailing the steel to perfectly match the existing geometry," he said.

Dome Technology fabricated all components for the roof retrofit, including steel plates, beams, and pipe connections. The new steel beams were joined to the underside of the existing wood beams for stability and strength while preserving the ceiling's unique star motif. Support for a new four-sided, centrally hung scoreboard also factored into the engineering plan. The team applied polyurethane foam and a two-part epoxy product to the roof exterior.

The project was finished ahead of schedule, and the new domed roof promises an unlimited lifespan for the 5,500-seat facility.

Dobyns-Bennett High School principal Dr. Brian Tate said school and district leadership prioritized doing the project right while considering budget and timeline.

"We wanted to keep the tradition and heritage of the facility as it is an icon of our community. The advantage to the renovation process chosen was that we were not concerned with weather as the existing dome stayed intact, and this allowed us to get back into the area quicker and still use (portions) of the area not being renovated," he said. "Everyone involved did a great job."

**The two greatest feats were coming up with a solution no one else could and detailing the steel to perfectly match the ceiling's existing geometry.**



Oman Sugar selected a dome for its state-of-the-art maturation and storage facility in Sohar, Oman.



# DOMESILOS FAR AND WIDE

*Dome Technology's team completes sophisticated sugar project in Oman*

Oman Sugar Refinery Company wanted to build a large facility in Sohar, Oman, for importing raw sugar and refining it at the site. To make that possible, a substantial storage structure for refined sugar was necessary. But Oman Sugar wasn't simply looking for a structure to contain product—they wanted sophistication too.

"The idea of the dome was to have a state-of-the-art maturation and storage facility, which could keep the product in bulk and packed as and when needed," said Dr. M. Reza Laulloo, Oman Sugar Refinery technical manager. Also essential was flexibility in planning according to market demand, he said, with the ability to pack bags of any size or even a 22-ton truck on the spot.

Other storage models were considered, but because the customer's main concern was maintaining the sugar's quality, they chose a dome, said Dome Technology sales manager Victor Ruiz. The project progressed slowly with Oman Sugar and Dome Technology preparing the ideal plan over several years.

"For them, ensuring that the refined sugar—their final product—is stored securely and that its properties remain unchanged is crucial," Ruiz said. "This is key for the sugar

industry, as the refined sugar dome is like the vault of a bank—it's where the entire value of the process is stored."

Dome Technology constructed a DomeSilo 124 feet (37.8m) in diameter and 151 feet (46m) tall with a maximum storage capacity of 30,000 metric tons.

The process at the Oman dome works like this: After sugar is refined, it passes through a drier to remove moisture. Then the sugar is conveyed to a distributor that loads it into the dome. Reclaim is clean and simple with gravity doing the work; multiple hoppers feed sugar onto conveyor belts in the cellar below. Sugar is then conveyed onto a single main conveyor that transports it to the packaging area, where it can be shipped in bags or containers or on flatbed trucks.

The new facility cut down on required infrastructure, allowing Oman Sugar to "plan our packaging according to demand, and we don't need to have a huge bagged-storage facility," Laulloo said. Another major benefit was acquiring greater storage capacity on a smaller footprint—a critical feature at a high-occupancy port where land comes at a premium.

The new Oman dome also promises greater product safety; long-term storage presents no contamination risk and no modifications to sugar's properties.

**The new facility allowed Oman Sugar to plan its packaging according to demand without needing an additional bagged-storage facility.**





*Members of the company's executive and production teams during the trip to Cambodia. The annual conference is an important part of developing a culture of excellence at Dome Technology.*

# COMPANY HOLDS LEADERSHIP CONFERENCE IN CAMBODIA

The Dome Technology team headed to Cambodia in early 2025 for the annual leadership conference.

The conference was held in the southeast Asian tropics, and just like previous years, the executive, production, and sales teams received a healthy dose of leadership training complemented with a plenty of adventure.

"The annual leadership conference is one of our ways to elevate team leaders from all around the world," CEO Bradley Bateman said.

In addition to training, the team also enjoyed excursions in the jungle and exploring tropical towns.

The mission statement of the leadership conference is to:

- 1) Elevate company leaders and key employees beyond

their current capabilities.

- 2) Build team unity, increase transparent and honest communication, and strengthen trust.

- 3) Build relationships through exclusive unique experiences.

- 4) Attract and retain key people.

Previous conferences have been held in Iquitos, Peru; Reykjavik, Iceland; and the Okavango Delta in Botswana. The programming is an important part of developing a culture of excellence at Dome Technology. "Like previous conferences, this unique experience coupled with leadership meetings provides an exclusive environment to build the team," Bateman said.