

2022 GCCA Cold Chain Innovation Showcase & Buyers Guide



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Association of
Refrigerated
Warehouses



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The Natural Leader for LIFE



Why NH₃ & CO₂?

EVAPCO is focused on the innovation and manufacturing of industrial refrigeration equipment and systems designed for use with the leading two natural refrigerants in the world – NH₃ and CO₂. Synthetic refrigerants dominated the commercial market for decades, but the passing of the American Innovation and Manufacturing Act (AIM Act) in early 2021 has solidified the phasedown of production and consumption of HFCs. Many states, and now the federal government (specifically the EPA), started this initiative, and are now executing it, because of the harmful effects HFCs have on the environment.

Today, and long into the future, natural refrigerants are the most climate-friendly solutions available in the industry. Ammonia (R-717) is the most environmentally friendly refrigerant available because it has a 0 rating for Ozone Depletion Potential (ODP) and Global Warming Potential (GWP). These environmental benefits, combined with the refrigerant's unmatched thermodynamic

properties and energy efficiency have made it the most widely used low temperature refrigerant in the world.

Carbon Dioxide (R-744) is gaining more traction in the refrigeration industry as an alternative to synthetic refrigerants. With an ODP of 0 and a GWP of 1, CO₂ is a very eco-friendly refrigerant. Also, some end users may choose CO₂ over NH₃ because of the lower toxicity.



With the phasedown of HFCs in full swing, we expect NH₃ and CO₂ to become the go to refrigerant solutions for the foreseeable future, and **EVAPCO offers you both technologies!**

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Evapcold® LCR products include several state-of-the-art innovations in heat transfer technology, energy efficiency and microprocessor control for reliable low charge operation. EVAPCO has invested heavily, and continues to do so, in developing new models and configurations under the Evapcold® brand and the product model nomenclature "LCR" (Low Charge Refrigeration). This includes LCR-P Penthouse units, LCR-C Chillers and the new LCR-S Split system units.



LCR-P Penthouse Package

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Purity Transcritical Package



Purity Transcritical Package

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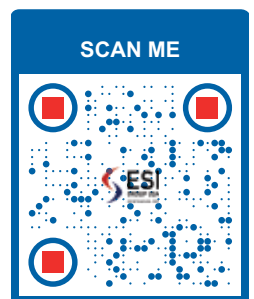


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GCCA Cold Chain Innovation Showcase & Buyers Guide is published once a year by the **Global Cold Chain Alliance (GCCA)**, an organization that unites partners to be innovative leaders in the temperature-controlled products industry. The GCCA Core Partners are:

The **International Association of Refrigerated Warehouses (IARW)**, which promotes excellence in the global temperature-controlled warehouse and logistics industry.

The **World Food Logistics Organization (WFLO)**, which delivers education and research to the industry and empowers economic development by strengthening the global cold chain.

The **International Refrigerated Transportation Association (IRTA)**, which cultivates, fosters and develops commercial and trade relations between all those engaged in the transportation and logistics of temperature-controlled commodities.

The **Controlled Environment Building Association (CEBA)** represents the design and construction industry specializing in temperature-controlled facilities that prioritize product safety best practices. We are the source for best practices of building and maintaining the thermal envelope.

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About the Cover: Top left and lower right: Photos courtesy of Primus Builders, Inc.

WELCOME

A MESSAGE FROM MATTHEW OTT

THE SUPPLIER MEMBERS OF THE GLOBAL COLD CHAIN ALLIANCE ARE THE BACKBONE OF OUR INDUSTRY. THEY REPRESENT THE MOST EXPERIENCED DESIGNERS, BUILDERS, MANUFACTURERS AND SUPPLIERS OF PRODUCTS AND SERVICES ALL POSITIONED TO PROVIDE THE VERY BEST SOLUTIONS FOR CONSTRUCTION, OPERATION AND MODERNIZATION OF ANY FACILITY.

They incubate innovation and drive the industry forward to provide the best quality, most sustainable facilities to keep our food safe.

Finding the right strategic partner to meet your business needs can be daunting. Each year, some of GCCA's leading supplier members participate in the Cold Chain Innovation Showcase & Buyers Guide. They highlight their latest technologies, products and services demonstrating how they benefit controlled-environment companies. Design, architecture and construction services, doors and building materials, cold chain technology providers and low charge ammonia systems are all featured in this Showcase.

Supplier members are eager to educate clients and peers and share best practices to advance the entire cold chain industry. They provide industry thought leadership through articles like, "Building for Automation" on page 8, which discusses what the design/build community needs to know about warehouse automation trends.

They are also committed to elevating the perception of the industry by communicating the need for specialization in designing, building and operating temperature-controlled facilities and reinforcing how, as supplier members, they provide that. A key program to support this commitment is the CEBA Built by the Best Award competition, which each year recognizes excellence in the design and construction of cold storage facilities. Don't miss the case study on page 14 featuring the project that won the 2021 CEBA Built by the Best Award. And on page 21 you will find a list of the companies competing for the 2022 CEBA Built by the Best Award.

I encourage you to turn to page 22 of the Showcase where you will find a complete guide to all the trusted vendors that are part of the GCCA Community and where you can find your next temperature-controlled facility expert. I also want to direct you to view the expanded listing in the Online GCCA Global Cold Chain Directory. And on page 20 of the Showcase, you will find all the current exhibitors at the 42nd CEBA Conference & Expo in November on Amelia Island, Florida. On page 34, is a list of the companies displaying their innovations and services at the 131st IARW-WFLO Convention in October in San Diego, California.

Hope to see you at both events or somewhere else in the world! To view our 2023 Global Education and Networking Calendar visit the website at www.gcca.org/events. 🌐



MATTHEW R. OTT,
M.S., FASAE, CAE, CMP
PRESIDENT AND CEO,
GLOBAL COLD CHAIN
ALLIANCE (GCCA)



ARE YOU USING AN ENERGY EXCELLENCE CERTIFIED WAREHOUSE AS YOUR COLD CHAIN PARTNER?

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NAVIGATING INDUSTRY TRENDS

Primus has a front row seat to the trends affecting the cold storage industry. Here's what we've seen – and how we can help you navigate the changing market.

✓ SPEED-TO-MARKET

The demand for cold storage space has not slowed post-pandemic. Speed-to-market is still an urgent need. Most design-builders have optimized the construction process, so where can our customers gain schedule savings? Primus' front-end services take advantage of savings earlier in the process. Our planning, site selection and other consulting services provide the resources you need to get in the ground faster.

✓ LABOR SHORTAGE

The number one challenge facing the cold storage industry is the labor shortage. The solution? Automation. Using your data, our in-house team of automation experts will develop a plan that reduces manpower dependence while still achieving your business goals. Product is moved efficiently and safely through your facility which allows for a more flexible, coordinated and trackable product flow.

✓ OMNICHANNEL RETAIL

Immediate access to goods, 24-hour responsiveness and the ability to purchase in "eaches" (individual amounts) define the consumer experience. The resulting packaging and order fulfillment challenges have pushed cold storage providers to re-think their approach to food storage and logistics. Primus' automation team understands this and will work with you to determine an intralogistics plan that responds to changing consumer needs.

Primus is ready to help you stay ahead of these industry trends so you can remain competitive in 2022 and beyond. Contact us today for more information. info@primusbuilders.com.





BUILDING FOR AUTOMATION

As warehouse automation heats up, experts weigh in on what design-build firms need to know.

Scarcity of land and labor, as well as rising energy costs, have historically driven warehouse automation in the cold chain. Today, automation is also being propelled by a powerful, new engine — the consumer.



Left: High-density pallet shuttle ASRS facility that uses fixed-position vertical lifts and aisle carriers and row carriers on each level for high volume/high velocity facility with high throughput capabilities. (Photo courtesy of Primus Builders, Inc.)

Above: A gantry layer picker solution (for building mixed-SKU pallets) and an ASRS for unit-load storage. (Photo courtesy of Twinlode.)

E-commerce represents about 20% of global retail sales today, a number most experts expect to top 30% by the end of this decade. Its rise, coupled with ongoing retail sector transformation, is changing consumer expectations. E-commerce is also pressing centralized warehouses to accommodate smaller orders, at the case and sometimes even at the piece level.

“People want everything now. The speed to market has to be now,” observes Randy Jennings, Vice President of Primus Solutions Group, the automation design division of Primus Builders. Third-party logistics public refrigerated warehouse operations are the part of the supply chain that has to “be able to flex and ebb and flow,” he says.

Today, a retail distributor may break down a pallet load of product and send it to 20 or more stores, Jennings explains, or they may receive several pallets and send product to more than 100 stores. But for slower moving products, they may receive only a couple of layers and send product to a handful of stores.

Richard Kooistra, President, Automated Solutions with Twinlode Automation, also notes that e-commerce has caused material flow patterns to change as order sizes have declined. “That whole paradigm is changing now,” he observes, adding that the trend toward decreased order sizes adds complexity to warehouse operations. “If I can go

full pallet in and full pallet out, that’s fairly straightforward. If I go full pallet in and then have to go case out, there’s a lot of different steps and procedures that I need to be able to go through in order to do that.”

Technology Brings Solutions and Complexity

Technology and automation options like automated storage retrieval systems (ASRS) and stacker cranes are making it possible to solve several important challenges. They use scarce space more efficiently with a vertical building configuration. These arrangements require a much smaller piece of land and have the added advantage of a smaller roofline, which minimizes heat loss.

These highly technical operations also have dramatically different personnel requirements. They need fewer laborers and more tech-savvy workers. Attracting these workers in the first place, however, may require cold storage operators to educate candidates about the opportunity, suggests Kooistra. “It’s not a sexy industry, where people coming out of university are saying, ‘Oh, I want to work in the cold chain, I want to work in supply chain,’” he says.

In addition to that, operational and personnel considerations may be working at cross-purposes. For example, many cold chain operations are driven away from city centers

According to the Material Handling Institute of America, automated storage retrieval systems (ASRS) are “a combination of equipment and controls that handle, store and retrieve materials as needed with precision, accuracy and speed under a defined degree of automation.” They are available in several configurations, some with the capability to store loads of 1,000 pounds or more and reach 100 feet or more high. Others are designed for lighter weights or to carry totes, trays or small parts and pieces, while others rotate vertically or facilitate inventory retrieval in an ultra-high density use case.

Stacker cranes can accommodate freezers rising as high as 145 feet. These systems operate with extreme precision using sensors to retrieve pallets or layers. A stacker crane may travel down an aisle 350 feet deep, then up to the proper level to retrieve a pallet. They operate in total darkness, behind the freezer wall, in areas where there are no humans and no forklifts.



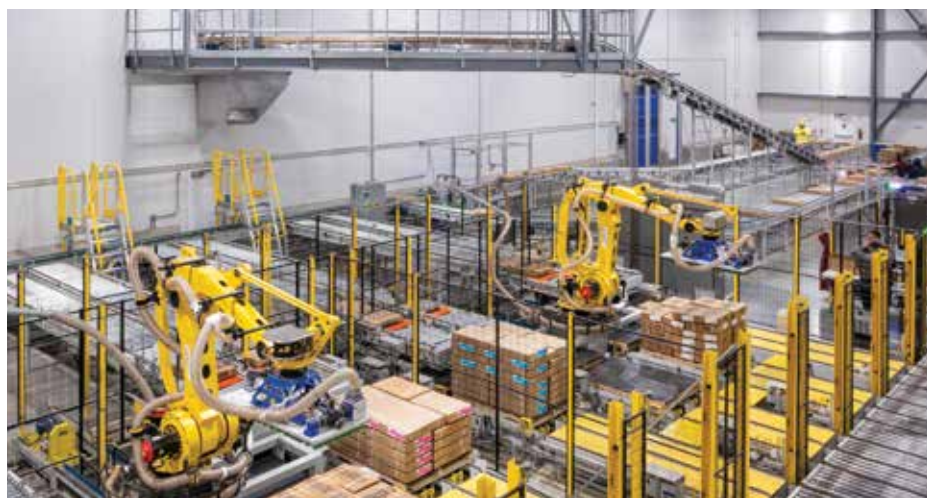
— and away from areas where young people prefer to live — by the price and availability of even small parcels of land. And in addition by building codes that put taller small-footprint facilities at a disadvantage.

Nonetheless, “these jobs are less physical and more desirable,” notes Operations and Automation Advisor Bob Whitmore of DLN Integrated Systems, a solutions provider with experience across a variety of distribution systems, particularly in the food and beverage industry. “We need to be prepared for a future state in which very few people may be willing to work various shifts in sub-zero temperatures while doing heavy manual labor.”

Twinlode is currently partnering with a design-build firm on a project that bridges the divide between manual and automated processes. Though the project aims to automate only a portion of an existing facility, it will require a substantial investment by the large cold storage provider client. The cold storage firm is looking to automate its manual process for the transfer of product from a blast freezer to a regular freezer. The project focuses on process elements that are consuming excess time and labor resources.

“There’s just that little piece, but we have to redesign a part of the building envelope to implement the solution,” observes Kooistra.

ASRS high-bay rack-supported 132-foot-tall building with ASRS stacker cranes servicing three-deep load positions and pick faces. The white wall separates the two different temperature zones in the building. (Photo courtesy of Primus Builders, Inc.)



Conveyor output from production facility for in-process case handling after blast freeze operations, transported to palletize six-axis robot cells in advance of transportation into ASRS. (Photo courtesy of Primus Builders, Inc.)

Steps to Shovels in the Ground

When a warehouse owner is ready to make a decision about automation, Jennings says they are often ready to see shovels in the ground immediately. The automation provider typically is not ready for another six months with all the details needed to break ground.

For example, architects, engineers and design-build contractors need to know:

- Locations for all the point loadings of steel legs in the ASRS rack system for proper floor loading design
- How much weight the concrete floor will bear at specific points and where every point makes contact on the concrete floor



Automated order-filling area in the shipping area of ASRS facility. Shown is the robotics order filling operations for automatic case picking and order filling, stretch wrapping and shipping. (Photo courtesy of Primus Builders, Inc.)

- Characteristics of the fire protection system, where the water source is and how the piping is run inside the ASRS rack system
- Exactly how many dock doors are needed and where they should be located for efficient operation
- How deep, tall, long and wide the final structure will be, key to support a zoning variance

“We need to know those exacting positions and points to make the most efficient facility that we can for our customers and their long-term operations,” Jennings says. “If you don’t know that information, you start to guess, or you assume. And we all know that’s never a formula for success.”

Whitmore echoes these thoughts, adding that automation choices also may affect building specifications such as rack (including rack-supported structure), floor

flatness, column spacing, electrical service and the RF system.

He also cautions that installation of automation within a weather-tight building may move the project up an entire construction season. “Automation equipment should be delivered to a nearly finished site that is clean, dry and secure,” Whitmore says.

Designing an Automated Warehouse System

“The main objective is to avoid shoe-horning an automated design into a building design,” says Whitmore. “Design automation first and design a structure around the system. I strongly suggest introducing a good pre-construction team early during system design to increase the success of the site selection and construction process and reduce rework.”

Jennings agrees. “As you approach this, one of the things that’s most critical is to get

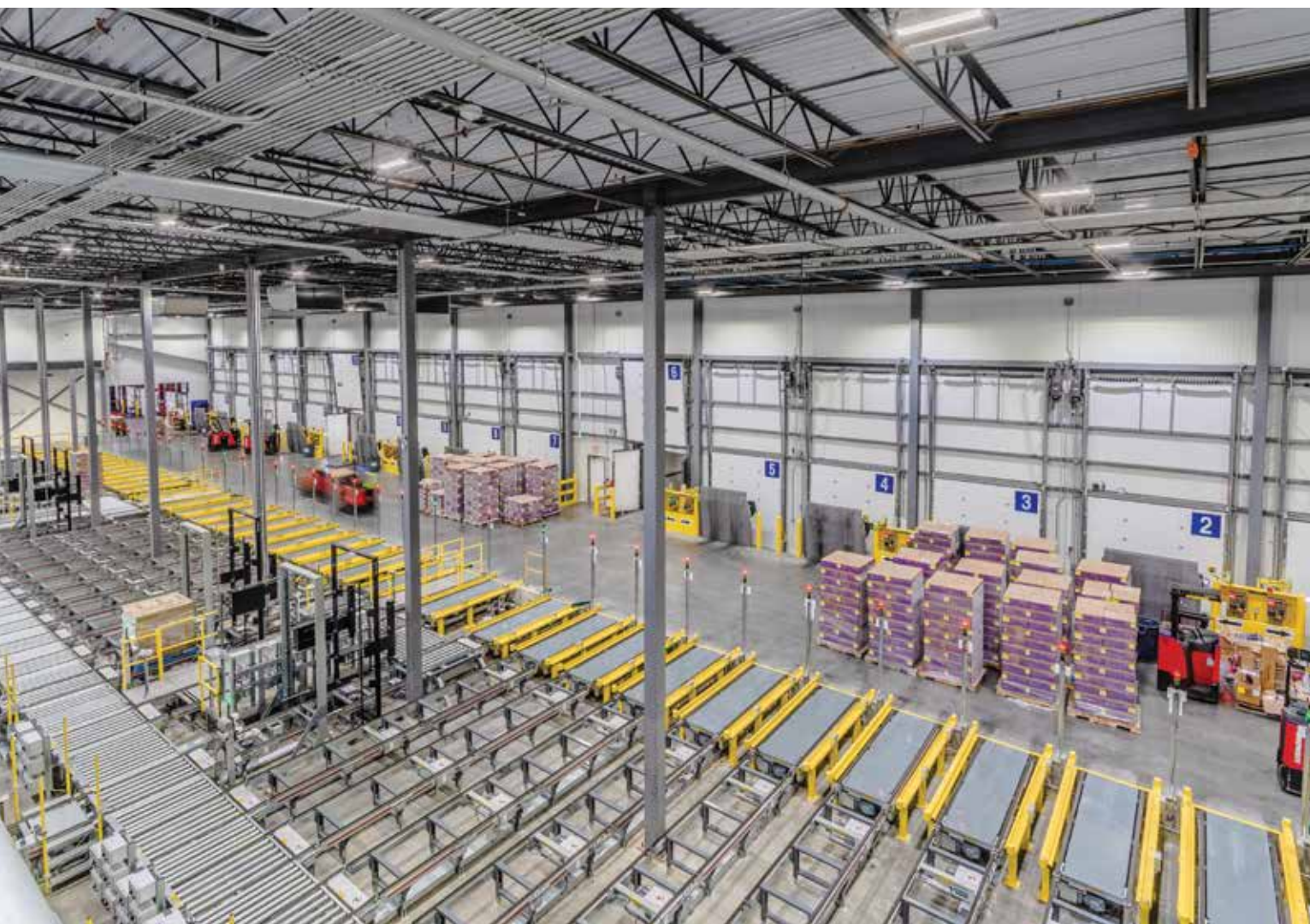
the people involved early on in the decision-making process of what you’re doing in the overall function and flow of the facility.”

Jennings offers a step-by-step framework for automated warehouse system design.

Step one, advises Jennings, should always be to collect and analyze data. He advises looking at up to a year of historical order data to see seasonality and peaks and valleys in the operation. The item master is also a typical part of data analysis.

From there, Jennings says a functional flow of what the facility is supposed to do can be created.

“You create what’s called a material flow diagram so that you can provide the information to all the different engineering staffs for how you need to configure the facility, and then you start to look at the different designs and options,” advises Jennings. At this point, throughput calculations that leverage inter-



Receiving and shipping dock area of ASRS facility with capacity for high-volume/high-velocity operations with multiple lanes for receiving inbound loads and outbound shipping lanes. (Photo courtesy of Primus Builders, Inc.)

nationally recognized standards are helpful to eliminate options that simply do not meet the need.

Once decisions have been made about designs and options, the systems architecture can be determined. Integration with the enterprise resource planning (ERP) system becomes a consideration at this point. The ERP also must interface to a warehouse management system (WMS). The WMS interfaces to a warehouse control system (WCS) at the programmable logic controller (PLC) level to ensure that every motor in every sensor can be controlled.

“When you put that together, different solutions bring a different value and have a different cost,” says Jennings. “Also, you may

put together a solution that may take you 24 to 30 months to implement as opposed to one that you can get done in 18 months that will get you a better return sooner.”

A Role for All in Automation

Although there is strong consensus for a better and faster return on automation investments by larger cold storage firms, Whitmore makes the case that all firms have work to do.

“There is a lot of truth to the fact that higher-volume distribution centers can generate a larger return, sooner than their smaller counterparts ... This may paint a picture that the future of automation of small or medium-size facilities is bleak, but I believe that there are other opportunities for smaller facilities,” Whitmore argues.

A good place for smaller firms to start, says Whitmore, is with a smaller automation solution that integrates with traditional methods. “A hybrid operation can lessen the service disruption risk of a very large and complex system, while forcing the development and discipline within the operation as well as development of an effective WMS or WCS system.”

“A gamble that I think organizations are making when they pass on automation in the near term, is the risk that WMS/WCS system development and warehouse best practices are not being developed because of the decision,” cautions Whitmore. “The technical roadmaps should continue to be developed to be prepared for the time when automation may be a requirement for survival.”



ASRS stacker crane inside an 85-foot-tall free-standing building. ASRS stacker crane stores pallets for later use and delivers pallets to pick faces for case picking order filling. (Photo courtesy of Primus Builders, Inc.)

Whitmore says, if you're ever going to automate, you need to be thinking about it today.

"Whether or not you have an approved project, warehouse technical roadmaps should be inclusive of the visibility and control that automation will require in the future," Whitmore notes. "Best practices around routing, workload creation, workload, and production status, etc. need to be in place when the time comes. New buildings should be constructed with future automation in mind."

"Every organization needs to invest in readiness for automation regardless of the near-term capital plan," concludes Whitmore. ☞

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FISHER CONSTRUCTION GROUP RECIPIENT OF THE 2021 CEBA BUILT BY THE BEST AWARD



*Shared campus provides best-in-cold solutions
for customer Dole Fruit.*

Fisher Construction Group, Inc. received the 2021 Built by the Best Award for constructing the year's most innovative and complex temperature-controlled facility.

The company's recent design-build of the United States Cold Storage's newest, fully automated and state-of-the-art cold storage and processing facility in McDonough-Medline, near Atlanta, Georgia, United States, was the project that earned this recognition.

"This was certainly an exciting project," says Scott Guimond, Senior Project Manager for Fisher. "We were very proud and honored to be United States Cold Storage's selected and trusted partner for this important project. I believe we were ultimately selected because

of our ability to provide transparency on financials and our expertise to deliver turnkey, design-build solutions for both temperature-controlled storage and processing spaces."

Fisher added that the company's extensive experience in the design and construction of high-rise, fully automated cold storage facilities helped, also.

The McDonough Medline campus was selected as the strategic location for United States Cold Storage to provide additional best-in-cold solutions for its customer – Dole Fruit.

The shared campus approach promotes and leverages synergies between processors and storage teams, says Fisher.

"Ultimately, the return on investment was maximized on the project by strategically positioning the facility adjacent to an existing conventional frozen space, thereby leveraging existing refrigeration, fire protection, storm and other vital infrastructures while utilizing the remaining expansion space to its full potential," says Michael Adkins, Engineering Manager, United States Cold Storage. "It was our most significant expansion ever and included a processing center designed and built for Dole Fruit."

The newly constructed facility on United States Cold Storage's McDonough campus maximizes the site's footprint of 110 feet with 14,944,285 cubic feet of storage. The



The 254,928-square-foot design-build expansion to the McDonough facility includes an ASRS cold storage and repacking facility for Dole Foods. (Photo courtesy of Fisher Construction Group.)

facility is designed to operate at temperatures ranging from -20 degrees F to 55 degrees F, as well as 32 degrees F to 55 degrees F in the processing space.

Key Challenges

The project began in late 2019, with completion scheduled for January 2021. The first challenge came when the COVID-19 pandemic hit early on.

“We had started construction and had been into it for a couple of months, when the whole construction industry was impacted,” says Juan Arellano, Fisher’s Project Manager for United States Cold Storage Atlanta. “Since the project was essential to the country’s food supply chain, we moved forward. We brought the team together and developed solutions to respond to this unprecedented situation. Though it was a challenge, and some people were unable to come to work, we kept the project moving by creating a safe workplace. There was no day that COVID stopped us from working. That’s something that we were all very proud of—we kept moving forward.”

Another challenge that needed to be expertly managed was that the expansion was on an active and operating site. It was imperative to be noninvasive and covert in the building process, yet effective. Specific logistical challenges included limited laydown areas, shared operational and construction entrances as well as management of a robust set of safety policies specifically intended to provide a safe interface between construction and United States Cold Storage operations.

Additionally, this project had a cost control variable that added to the project complexity. Specifically, this build required 100% financial accuracy and transparency. The United States Cold Storage engineering team in conjunction with Fisher had to identify and clearly communicate to all project participants the cost segregation required to correctly tabulate trending costs specific to the tenant processing (Dole) space from the cold storage and site (United States Cold Storage) spaces. This data was made accessible in real time and aided in critical project decisions.

Savvy Innovation

The McDonough-Medline facility has nearly 253,000 square feet of usable space built beside United States Cold Storage’s 236,000-square-foot temperature-controlled warehouse built five years earlier. The new addition accommodates 47,000 new pallet positions.

The construction technique used for the high-bay expansion is leading edge with the structure envelope supported by the storage racks to maximize product density and save costs by replacing structural steel for structural racks.

The hybrid direct expansion-refrigeration system by Innovative Refrigeration was well thought out and creative in numerous ways, according to Arellano. It employs mini-penthouses that provide a safe and serviceable installation on a more than 100-foot high-rise, rack-supported building. And the system offers strategic equipment locations as the facility’s cold dock has multiple conveyor systems across two levels with transfer fans strategically located to avoid dead air spaces. These fans are controlled and easily adjusted

by the facility to maintain the required operating conditions on the cold dock. The fans also utilize re-heat humidity controls for dehumidification on the dock during the hot and humid Georgia summers.

Additionally, the expansion is specifically designed to keep the overall ammonia charge below the 10,000-pound threshold.

“Despite ammonia’s dominance in the industry throughout the last century, many are looking to other options to minimize the hazard for facility staff while keeping regulatory bodies at bay,” Arellano says. “It is unheard of for refrigeration systems of this size primarily using ammonia to have charges below 10,000 pounds. However, the United States Cold Storage Medline facility has accomplished this.”

Regarding safety, the United States Cold Storage engineering team is credited with developing benefits for its customer by requiring a glycol heat exchanger to utilize only glycol refrigerant to their tenant space eliminating the risk to their customer of having ammonia equipment in their space.

The facility also utilizes the most advanced conveyor systems available, alongside nine 100-foot-tall cranes in the automated warehouse. The conveyor system allows United States Cold Storage operators to efficiently handle the product throughout the facility with minimal forklift interface.

Sustainability Efforts

United States Cold Storage’s mission is to provide the very best long-term solution for its customer by providing added value through managing their customer’s refrigeration system and being on-site to provide support along the way.

“The concept of the assignment to vertically integrate processor and cold storage operator on a single campus lays a foundation of sustainability at the core of the project,” Guimond says. “This scenario replaces interfacing truck trips between remote facilities with a simple and effective pallet transfer through a demising wall.”

By nature, ASRS facilities offer greater product density over less footprint. This drastically reduces the need for lighting and energy/heat infiltration. These factors, coupled with reduced opening sizes for product interface locations, have a measurable impact on the overall building’s overall energy consumption.



From truck to freezer, automated conveyors carry product throughout the conveyor tracks. (Photo courtesy of Fisher Construction Group.)



The conveyers are operated from a crow nest that can regulate product flow between the loading dock and freezers. (Photo courtesy of Fisher Construction Group.)

“Throughout the design process, Fisher and United States Cold Storage looked to leverage all existing infrastructures, where applicable, for both cost savings and sustainability advantages,” Guimond says. “The team sought to match new refrigeration equipment with existing to provide significant cost savings by keeping United States Cold Storage’s maintenance and training programs as simple as possible despite the large expansion.”

The team also achieved long-term energy savings as refrigeration penthouses and the new evaporative condenser are controlled by

VFDs (variable frequency drives) to maintain precise temperatures while increasing energy efficiency. Additionally, the project utilized all the standard energy savings measures implemented in most controlled environment facilities built today by using elements such as LED lights, high-speed doors and dock seals.

Partnership Key to Success

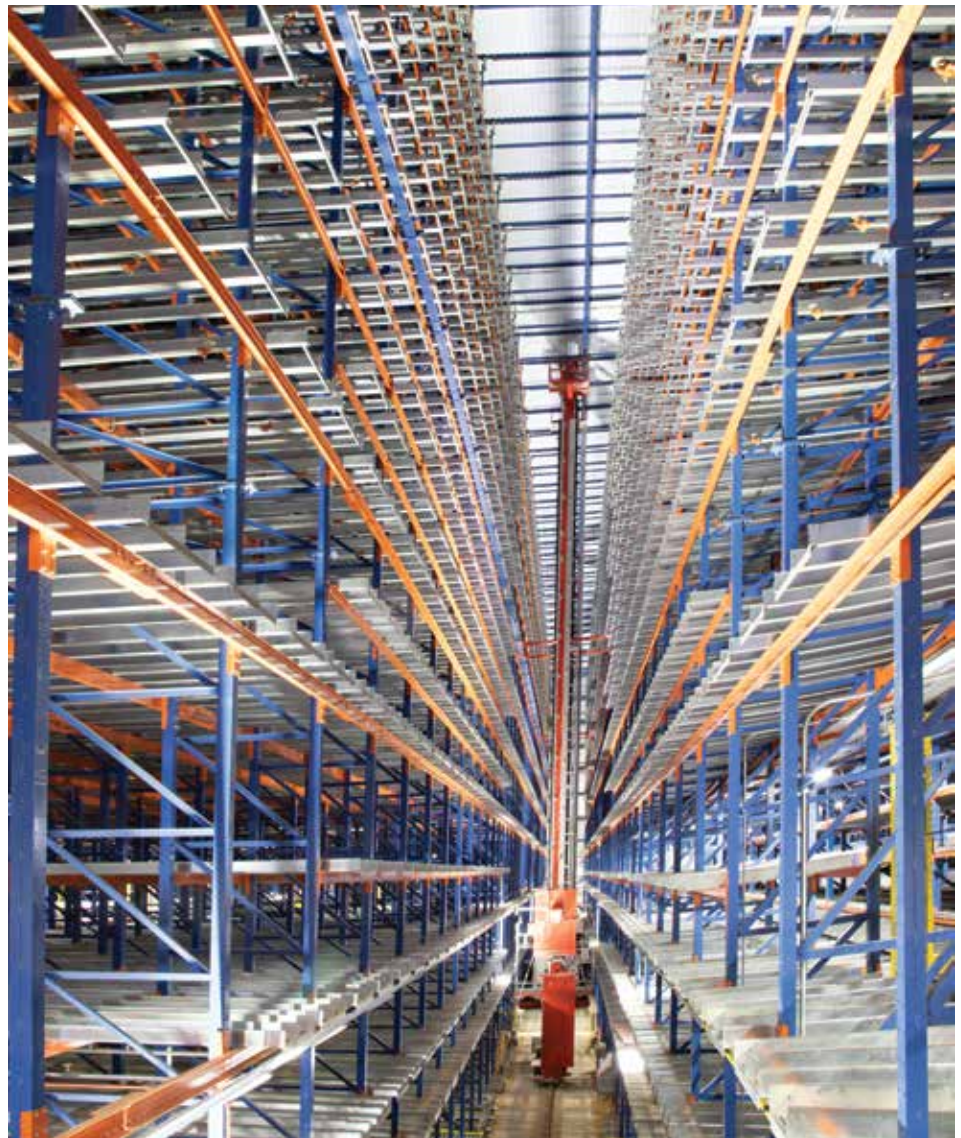
The United States Cold Storage Medline expansion project faced various challenges that were mitigated via teamwork between all stakeholders. Throughout the design and

construction of the project, communication and continual alignment of goals were of the utmost importance to ensure project success.

An excellent example of the team's management was spotlighted during the weekly schedule meetings, where the project's trades from the Northeast, Southeast, Northwest and Southwest came together to develop and update the pull plan schedules. The management team worked to bring all stakeholders together using open and honest communication, repeatedly emphasizing the larger common vision from management to field.

The Fisher team also stressed the importance of leveraging the expertise of United States Cold Storage's engineering team as being a key to the overall success of the project. Additional collaboration with the onsite United States Cold Storage operations managers provided valuable direction and leadership throughout the entire project.

"The collaboration between all parties was central to our approach," Arellano says. "Fisher worked hand in hand with United States Cold Storage to make team decisions. We ensured everyone was on the same page as we focused on making the very best decisions collectively, which ultimately brought a lot of value to the project. We were able to meet the schedule and budget." 🌀



Top: Viewed from the mezzanine as products are conveyed from the freezers to Dole's process area. (Photo courtesy of Fisher Construction Group.)

Bottom: The 100-foot cranes efficiently handle product handoff from conveyor tracks with little to no forklift interface. (Photo courtesy of Fisher Construction Group.)

2021 Built by the Best Award-Winning Supplier Profiles

These are the companies integral to the success of the winning project.

Ahern Fire Protection, a division of J. F. Ahern Co.

Ahern Fire Protection (AFP) offers a full range of fire protection system installation, inspection, and repair services. Whether you are building a new structure or need a sprinkler system retrofit or upgrade, the experts at AFP will handle your project quickly, efficiently, and with the utmost professionalism. Our friendly, knowledgeable technicians are on call 24 hours, seven days a week. Ahern Fire Protection has extensive experience in the cold storage industry and is a Quell® licensed fire protection contractor. We are also licensed to work in 48 states. Ahern Fire Protection is backed by a company with over 130 years of contracting experience, offices in six states (WI, MN, IA, MO, NE, and IL), and over 1,500 employees. Our depth of resources enables us to handle every job through design to construction and beyond - from installing the first sprinkler head to ongoing inspections and maintenance. We are truly a one-stop shop” for all of your fire protection needs!” www.jfahern.com.

All Weather Insulated Panels

With over 90 years of combined industry experience, All Weather Insulated Panels is an innovator in the design, construction and advancement of insulated metal panels to meet the growing challenges facing the building industry. www.awipanel.com.

ASI Doors – Enviro

Manufactures a complete line of insulated steel reinforced fiberglass, galvanized and stainless steel door systems. Manual or power operated doors for all uses. Applications include: horizontal (bi-parting and single slide), swinging, vertical rise and high speed roll-up doors, along with the fully insulated, two-way impactable hard panel sliding horizontal door. The air door products allow you to travel in and out of freezers without the constant opening and closing of a door. Its unique system keeps the warm side warm and the cold side cold with no fog, ice or condensation. Nationwide sales and service available. www.asidoors.com.

AutoMak Assembly Inc.

Working in partnership with manufacturers and contractors, AutoMak is dedicated to delivering handling and installation solutions for metal insulated panels. We offer proven vacuum lifting equipment to delivery installation efficiency with practical health and safety benefits. We provide full contract rental and sales service covering the whole of the United States and Canada with complete technical support as well as after sales support, servicing, testing and certification. Operating from a modern distribution center and with a large dedicated rental fleet we are able to respond to customer requests and orders quickly. Our network of technical advisors provides full on the job product training and support services. www.cladboyusa.com.

Evapco Inc.

International manufacturers of low charge ammonia packages, evaporative condensers, evaporators, cooling towers, closed circuit coolers, heat exchangers, recirculation and transfer systems. Plants located in Taneytown, MD; Greenup, IL; Bryan, TX; Madera, CA; Lake View, IA; Milano and Sondrio, Italy; Johannesburg, South Africa; Kingsgrove NSW, Australia; Shanghai and Beijing, China; Tongeren, Belgium; and Flex coil a/s Aabybro, Denmark. www.evapco.com.

Fastener Systems Inc.

Specializing in fasteners for all types of cold storage, food processing and refrigerated warehouses. Stocking stainless, self-drilling, self-tapping, ZACS® and explosion release fasteners. FABLOKS®, long length teks and roofing screws in stock. Tools, accessories, INSTA-FOAM®, tapes, caulks and butyl. The originators of POLARFAST®, the concealed panel screw. Fast overnight delivery. www.fastenersystems.com.

Frazier Industrial Company

Frazier is producer of structural steel storage rack systems in North America with 10 manufacturing facilities strategically located to reduce lead times and minimize freight costs. Refrigerated warehouse professionals rely on Frazier storage systems for their durability and custom application engineering. This design provides you with our exclusive two-year warranty against fork-lift abuse. From standard pallet rack to complex pick towers and AS/RS installations, Frazier's expert team of engineers will help each customer design the best, most cost-effective material handling solution. We provide the management resources needed to ensure the project runs smoothly and remains on time throughout the entire design-build-integrate process. Frazier's structural steel pallet rack systems include: selective pallet rack, drive-in/drive-thru, push-back, carton flow & pallet flow, pick towers, rack supported buildings and AS/RS systems. www.frazier.com.

The Fricks Company

Industrial concrete floor contractor providing workmanship and customer satisfaction. The Fricks Company is in premium food facility, manufacturing and distribution facility floor construction. www.fricksc.com.

Innovative Refrigeration Systems Inc.

Design builder of refrigerated systems and spaces. Turnkey refrigeration engineering, piping, insulation systems, power systems design, power wiring, controls systems and control wiring, envelope design and installation. Background in large refrigerated package ammonia refrigeration for outdoor installation and stand-alone control packages independent of compressor manufacture. www.R717.net.

Jamison Door Company

Manufacturers of insulated doors for all cold storage applications: swinging, horizontal sliding, overhead, vertical sliding; manual and power; cooler, freezer, blast freezer; finishes include galvanized, aluminum, stainless, painted steel, fiberglass reinforced molded plastic and sheet plastic. Products also include high performance insulated Mark IV Versaflex Door and Mark IV InVision clear-paneled door, HCR Air Doors and BMP high speed rollup doors. Write for specific door suggestions for warehouses.

www.jamisondoor.com.

Kalman Flooring Company

Kalman Floor Company has produced industrial concrete floors since 1916. Working side by side with owners, architects, design-builders and contractors, Kalman Floor Company provides self-polishing, abrasion resistant floors for cold storage, dry storage, distribution warehouses, manufacturing plants, waste transfer stations and many other kinds of facilities.

www.kalmanfloor.com.

LTI Contracting

Since its start in 1958, LTI Contracting has been recognized as a subcontractor that specializes in the installation of low temperature insulated metal panels, underfloor insulation, vapor barriers, cold storage doors and complete roof package. We have compiled over the years a full-time knowledgeable and efficient project management, technical and field supervision staff to help aid in any problem and/or detailing on our projects.

www.lticontracting.com.

RHH Foam Systems Inc.

Manufacturers of VERSI-FOAM portable two-component, low-pressure spray polyurethane foam systems. Units available in a variety of foam densities and sizes; both disposable and refillable containers. Also VERSI-TITE single component foam sealant and VERSI-BLOCK Fire Block and sealant in aerosol cans. All units compatible with low temperature environments and for a wide variety of insulating, sealing, caulking, and patching applications.

www.rhhfoamsystems.com.

Rite-Hite

Rite-Hite® is in the manufacture, sale, and service of loading dock equipment, industrial doors, safety barriers, HVLS fans and more innovative products. We offer several products designed specifically for the cold storage industry, including high-speed doors, insulated curtain walls and loading dock equipment. Rite-Hite works closely with each customer to meet their needs. Our Global Distribution Network means there is a local representative nearby to provide solutions, service, and expertise at the loading dock, and inside the facility.

www.ritehite.com.

Rytec High Performance Doors

Rytec is a manufacturer of high-performance doors for industrial, commercial, pharmaceutical and cold-storage environments. Whether rolling, folding, sliding or swinging doors, high-performance doors are our only business. Rytec corporate offices and manufacturing operations are headquartered in Jackson, Wisconsin, a suburb of Milwaukee. Customer technical support is provided through regional offices and a network of local dealers and installers throughout North America.

www.rytecdors.com.

SubZero Constructors, Inc.

SubZero specializes in providing refrigeration/thermal design and construction services on a nationwide basis for the low-temp and food processing industry.

www.szero.com.

Twintec USA

Twintec USA designs and builds steel fiber reinforced and engineered industrial jointfree floors. Our jointfree FREEPLAN engineered floors do not have saw cut joints, effectively minimizing if not completely suppressing maintenance and repair costs, while increasing the productivity in your cold storage. A specialized sub-contractor, Twintec USA offers design build services to a variety of clients in North America within the cold storage, distribution and heavy manufacturing industries. The parent company, the Twintec Group, has designed and installed 500 million square feet of engineered industrial slabs to date. Twintec USA will design and install your FREEPLAN slabs on grade, on piles (suspended slabs) and on insulation (such as for cold storage slabs). Twintec USA also offers turn-key design build services regarding structural FREEPLAN mat slabs, such as for fully automated, rack supported distribution facilities. Twintec USA is dedicated to the highest level of quality and durability in their industry and offers a unique five year guarantee on all their FREEPLAN engineered slabs.

www.twintecusa.com.

United States Cold Storage Inc.

Region V.P. - Mid-Atlantic, Jesse Hooks; General Manager, Leslie Burkholder; Chief Engineer, James Prussia; Superintendent-Veto Mendoza. 18,345 racked pallet positions; Temperatures ranging from -05°F to 40°F; 44 dock doors.

www.5uscold.com. ☎



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Project: Brownfield automated freezer
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Vapor Armour
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Wood's Powr-Grip Co. Inc.

List current as of September 23, 2022.

COLD CHAIN BUYERS GUIDE

GCCA COLD CHAIN INNOVATION SHOWCASE & BUYERS GUIDE

The 2022 GCCA Cold Chain Innovation Showcase & Buyers Guide includes companies that are members of the Controlled Environment Building Association (CEBA), associate members of the International Association of Refrigerated Warehouses (IARW), and members of the International Refrigerated Transportation Association (IRTA), Core Partners of the Global Cold Chain Alliance (GCCA).

The directory is your source for warehousing, logistics, transportation, construction and other cold chain services.

For a listing of warehousing, logistics and transportation providers, please refer to the [2022 Refrigerated Warehousing & Logistics Showcase and Member Directory](#). To access listings that contain full company details for all GCCA Members, please visit the online GCCA Directory & Buyers Guide at gccca.org/directory/all.

Advertisers in this buyers guide are highlighted and in bold type. To be featured in this buyers guide and the online GCCA Directory, contact James Rogers at jrogers@gcca.org.

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Mundelein, IL United States
www.albanydoors.us

Berner Air Curtains
New Castle, PA United States
www.berner.com

Clark Door Limited
Carlisle, United Kingdom
www.clarkdoor.com

Everidge
Plymouth, MN United States
www.everidge.com

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North Palm Beach, FL United States
www.griffininsulation.com

Hormann High Performance Doors
Burgettstown, PA United States
www.hormann-flexon.com

Jamison Door Company
Hagerstown, MD United States
www.jamisondoor.com

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www.kpsglobal.com

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www.ctiengineering.com

Cenytec SAC
Lima 14, Peru
www.cenytec.com

Lisa Line Life Science Technologies Pvt., Ltd.
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www.lisalinasia.com

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www.logix-controls.com

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Beijing, China
www.itedri.com.cn

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Atlanta, GA United States
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Irvine, CA United States
www.waremalcomb.com

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www.danbeeinvestigations.com

Gamma Graphics Services (GGS)
Colorado Springs, CO United States
www.inspectpipe.com

Graycor Construction Company
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www.graycor.com

Jan X-ray Services, Inc.
Sugar Land, TX United States
www.janxndt.com

Latus
Ascot Vale, Victoria Australia
www.latus.com.au

Mole Master Corporation
Marietta, OH United States
www.molemaster.com

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Lima 14, Peru
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Green Cubes Technology Corp

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www.greencubestech.com

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New York, NY United States
www.gridmarket.com

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www.refrigiwear.com

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www.cesweb.com

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www.cornerstonebuilders.ca

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www.ct-technologies.dk

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www.engchina.com

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www.emco.ie

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www.ficoninc.com

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www.fftcompany.com

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www.gartner-refrig.com

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www.hbclcoldstoresltd.co.uk

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www.heritagehe.com

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Industrial Refrigeration Service Inc.

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www.industrialrefrigserv.com

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www.cmcdesign-build.com

Cold Clad Ltd.
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www.coldclad.com

Cold Storage Buildings Midwest, Inc.
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Cold Storage Construction Services Inc.
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Never before has our industry faced such uncertainty and vulnerability from America's policy makers, both in the White House and in both chambers of Congress. **The current Administration and Congress present new challenges and opportunities that we will need to face as an industry, together.**

The Biden Administration and Democratic controlled Congress could implement burdensome regulations and increase oversight over our industry in a number of ways. This includes:



OSHA COVID-19 STANDARDS

- Enacting a national emergency temporary standard for industry
- Sets the stage for permanent regulation on infectious disease control in the workplace



CLIMATE CHANGE

- Pursuing aggressive policies to address climate change, through both executive action and legislation
- Rejoining the Paris Climate Agreement, eliminating greenhouse gas emissions, and implementing the Green New Deal



TAXES

- Rolling back the Trump tax cuts
- Increasing the corporate tax rate from 21% to 28%, phasing out deductions for pass-through entities
- Raising the top marginal income-tax rate from 37% to 39.6%
- Less money in the pockets of businesses means less jobs available for hardworking employees



LABOR

- Strengthening worker organizing, collective bargaining and unions through executive action and legislation such as the PRO Act
- Labor initiatives, like 'micro-unit' organizations and joint employer policies could quickly be reinstated



ADDITIONAL REGULATIONS

- Revisiting EPA's Risk Management Program (RMP) regulation and making additional requirements
- Changes to Process Safety Management

A Democrat controlled White House and Congress will only mean more rules, regulations and burdensome policies.

THERE IS SOMETHING YOU CAN DO.

To learn more about how you can contribute contact Lowell Randel (lrandel@gcca.org) or visit advocacy.gcca.org.
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www.vacomtech.com

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Roofing and Roofing Products

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Green Span Profiles
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www.heritagehe.com

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Solar/Alternative Energy Solutions

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São José dos Campos, SP Brazil
www.elgin.com.br

EP HVAC & R (Pty) Ltd t/a Energy Partners Refrigeration
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www.energypartners.co.za

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Testo Do Brazil
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Thermal Envelope Services

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Metecno S.A. De C.V.
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Puga Thermal Services
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Republic Refrigeration, Inc.
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