

PROJECT SPOTLIGHT



Chemours Discovery Hub

Energy Transfer Solutions, LLC worked with IMC Construction to design an HVAC Solution for the new Chemours Company building on the previously announced \$150 million research site on the University of Delaware's Science, Technology and Advanced Research (STAR) Campus in Newark. The site is known as the Chemours Discovery Hub. In partnership with the University of Delaware, The Chemours Discovery Hub will conduct research focused on new process, product, and application development. This 312,000-square-foot Discovery Hub consolidated laboratories and offices for approximately 330 scientists, engineers and researchers, and connected the industry leader with one of the foremost bio-engineering schools in the country. Built for collaboration and innovation, the four-story Hub includes more than 100 labs, 50 specialty rooms, cafes, conference rooms, and 20 "huddle" rooms for small group meetings. The project brought together Chemours scientists who were spread out among several sites throughout the state.

Given the size and complexity of the building systems and the constraints posed by a tight construction labor force in the area, contractor IMC Construction Inc. worked early with Chemours and the architect, L2 Partridge, to pursue a modular and preassembly strategy that aimed to save time, preserve budget and meet its labor needs.



EQUIPMENT

One (1) SYSTECON Modular Central Utility Plant (CUP) comprised of:

- (4) 1000-ton Chillers
- (4) 1000-ton Cooling Towers
- Chilled, Condenser, Process & Free-Cooling Pumps & Heat Exchangers
- (2) Process Steam Boilers
- EVAPCO Pulse-Pure Non-Chemical Water Treatment System
- LAKOS Side Steam Separator for Condenser Water System
- Full Integrated Controls System

Five (5) AIR ENTERPRISES Custom Dual-Tunnel Energy Recovery Air Handlers, each including:

- 130,000 CFM, 100% Outside Air feeding all lab spaces in the building
- Integral Boiler Plant built by SYSTECON
 - (3) Hot Water Boilers & Pumps
 - (6) Steam Generators for integral humidifiers
- (8) MK PLASTICS High Plume Laboratory Exhaust Fans
- (14) FRANKLIN CONTROL SYSTEMS Variable Frequency Drives serving the supply and exhaust fans
- (36) KONVEKTA Energy Recovery Coils in supply and exhaust air tunnels

Three (3) KONVEKTA Energy Recovery Systems serving the five (5) AIR ENTERPRISES Air Handlers

- Energy Recovery Coils were shipped to AIR ENTERPRISES for factory installation in the Air Handlers
- Hydronic Pump Modules were shipped to SYSTECON and integrated into modular enclosures

ETS Balancing Division provided balancing services for both air and water systems throughout the building

ETS Service Division provided startup service and labor warranty



From the budget phase through completion, Energy Transfer Solutions worked with Chemours, IMC Construction, and several of our key manufacturers, namely Systecon, Air Enterprises, and Konvekta, to coordinate and deliver a modular solution for the Central Utility Plant and the five large Air Handlers.

“This is much more than a brick-and-mortar story; it’s about the discoveries to come that just might change or at least shape the future,” said Chemours CEO Mark Vergnano. “The Chemours Discovery Hub will serve as a gathering place—a center for activity where vision, ambition, intelligence, and creative energy will flourish—not just for years, but for decades to come.”

The company, which was spun off from DuPont in 2015 currently does research at about a dozen sites in the area. UD and Chemours are already working together on research, Chemours officials noted.

“This project goes far beyond a new building for Chemours,” said UD President Dennis Assanis. “As partners in innovation and economic development, Chemours and UD will build dynamic connections across business, education, research, learning, and discovery. We are breaking ground on a new era of opportunity at the STAR Campus for the University of Delaware, our state and our shared future.”

Delaware Governor John Carney added: “Chemours’ investment in this state-of-the-art facility also will continue a long tradition of important scientific discovery in Delaware, and keep good, high-paying jobs right here in our state.”

The Chemours Company is a global leader in titanium technologies, fluoroproducts and chemical solutions, providing its customers with solutions in a wide range of industries. Chemours ingredients are found in plastics and coatings, refrigeration and air conditioning, mining and general industrial manufacturing.

Chemours has approximately 7,000 employees and 26 manufacturing sites serving approximately 4,000 customers in North America, Latin America, Asia-Pacific and Europe.

Chemours is headquartered in Wilmington and has about 1,000 employees in Delaware.

LOCATION
Newark, DE

GENERAL CONTRACTOR
IMC Construction

SQUARE FOOTAGE
312,000

FEATURED PRODUCTS
Systecon
Air Enterprises
Konvekta
MK Plastics

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