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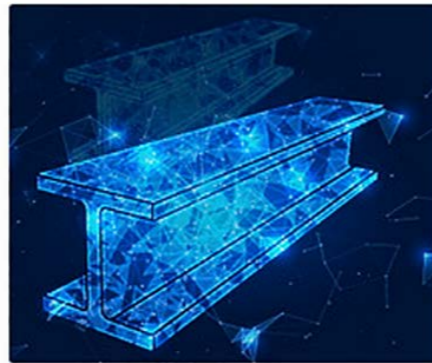


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## Steel Producers Take Different Paths to Reach ESG Goals

When some people think of a steel mill, they may envision a facility that belches out smoke and CO2, thus contributing to global warming.

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## Join Industrial Info for a Webinar on the Pharma-Biotech Spending Outlook

Industrial Info is pleased to be presenting a complimentary webinar on the spending outlook for the global Pharmaceutical-Biotech Industry. The presentation will be held Wednesday, November 15, at 10 a.m. CST (11 a.m. E [...])

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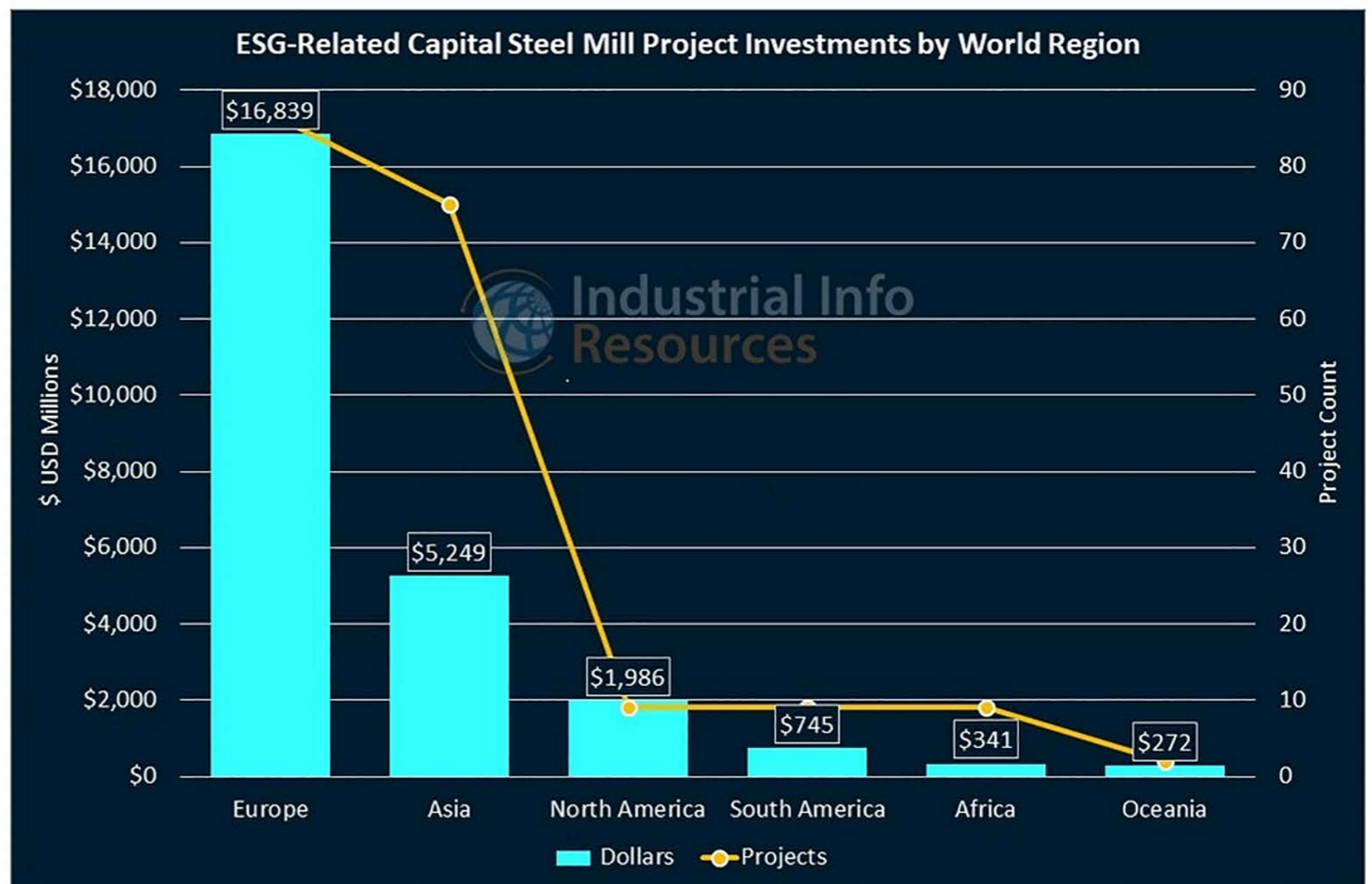
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## Steel Producers Take Different Paths to Reach ESG Goals

When some people think of a steel mill, they may envision a facility that belches out smoke and CO<sub>2</sub>, thus contributing to global warming. Truth be told, there are a lot of those still out there in the world. In the U.S., however, the big U.S. steelmakers have pledged to achieve net-zero carbon emissions by 2050, and at least one of them says it is working to reach that goal much earlier.

Industrial Info is tracking nine environmental, social and governance (ESG)-related steel mill capital projects in the U.S. and Canada, worth nearly \$2 billion. Subscribers to Industrial Info's Global Market Intelligence (GMI) Metals & Minerals Project Database can [click here](#) for a detailed list of project reports.

On a global basis, the European steel industry dwarfs all others when it comes to ESG activity (see chart below). More governments in Europe have implemented carbon-reduction mandates for their steel producers, while any ESG-related endeavors by steelmakers in the U.S. are done on a voluntary basis, often at the urgings of their stockholders.



Cleveland-Cliffs Incorporated (NYSE:CLF) (Cleveland, Ohio) is one of the U.S. steelmakers that has pledged to achieve net zero status by 2050. Chief Executive Officer Lourenco Goncalves has hinted his company may reach net zero emissions ahead of that deadline.

Estimates vary greatly regarding the amount of greenhouse gases produced by the steel industry. According to a 2020 report by McKinsey & Company, every ton of steel produced in 2018 emitted on average 1.85 tons of carbon dioxide (CO<sub>2</sub>), equating to about 8% of global CO<sub>2</sub> emissions.

Goncalves maintains Cleveland-Cliffs' operations already emit less CO<sub>2</sub> on average than the industry as a whole as a result of its direct reduced iron (DRI) method of steelmaking, at the company's most recent quarterly earnings conference call, he spoke about the future use of hydrogen in the company's steel mills as a means to further reduce carbon emissions. He spoke of the future use of hydrogen to replace coke in the production of steel at the company's Indiana Harbor complex blast furnace 20 miles northeast of Chicago. The hydrogen serves as a reductant and source of heat in the steelmaking process, releasing steam, whereas using coke releases CO<sub>2</sub>. Subscribers to Industrial Info's Global Market Intelligence Metals & Minerals Plant Database can [click here](#) to learn more about the Indiana operations.

Cleveland-Cliffs would pipe in the hydrogen from the proposed Midwest Hydrogen Hub, which was recently awarded a federal grant of as much as \$1 billion to proceed with development. For related information on the hydrogen hubs, see October 19, 2023, article - [Seven Hydrogen Hubs Selected to Receive \\$7 Billion in DOE Funding](#).

"Cliff's commitment to buy a large portion of the output from the Midwest Hub helped get this location selected by the Department of Energy," Goncalves said during the conference call. "Our decision to use hydrogen as our decarbonization path set us apart from the crowd, and that will be accomplished in a much more cost-effective and quality-driven manner."

Other steelmakers are pursuing different paths to achieve their ESG goals. Thinking outside the box, Nucor Corporation (NYSE:NUE) (Charlotte, North Carolina) and Helion Energy Incorporated (Everett, Washington) are studying sites to build a 500-megawatt (MW) fusion power plant to provide electricity to a Nucor steel facility. The project would prevent the release of 500,000 metric tons of CO<sub>2</sub> annually. Construction of the fusion reactor would begin in 2029, with completion in late 2030. Subscribers to Industrial Info's GMI Project Database can [click here](#) for the project report.

In Canada, ArcelorMittal (NYSE:MT) (Luxemburg) plans to kick off construction in 2024 on a 2.5 million-metric-ton-per-year DRI plant at its Hamilton Steel Works in Ontario. The project, planned for completion in late 2026, is part of the company's transition of the site to DRI-electric arc furnace steelmaking, "which carries a considerably lower carbon footprint and removes coal from the ironmaking process," the company said in a 2022 press release. The DRI furnace initially will run on natural gas but will be constructed "hydrogen ready" so it can be transitioned to use green hydrogen "when a sufficient, cost-effective supply of green hydrogen becomes available," the company said. Green hydrogen is produced without fossil fuels. [Click here](#) for more information.

Subscribers to Industrial Info's GMI Database can [click here](#) for all project reports mentioned in this article and [click here](#) for the related plant profiles.





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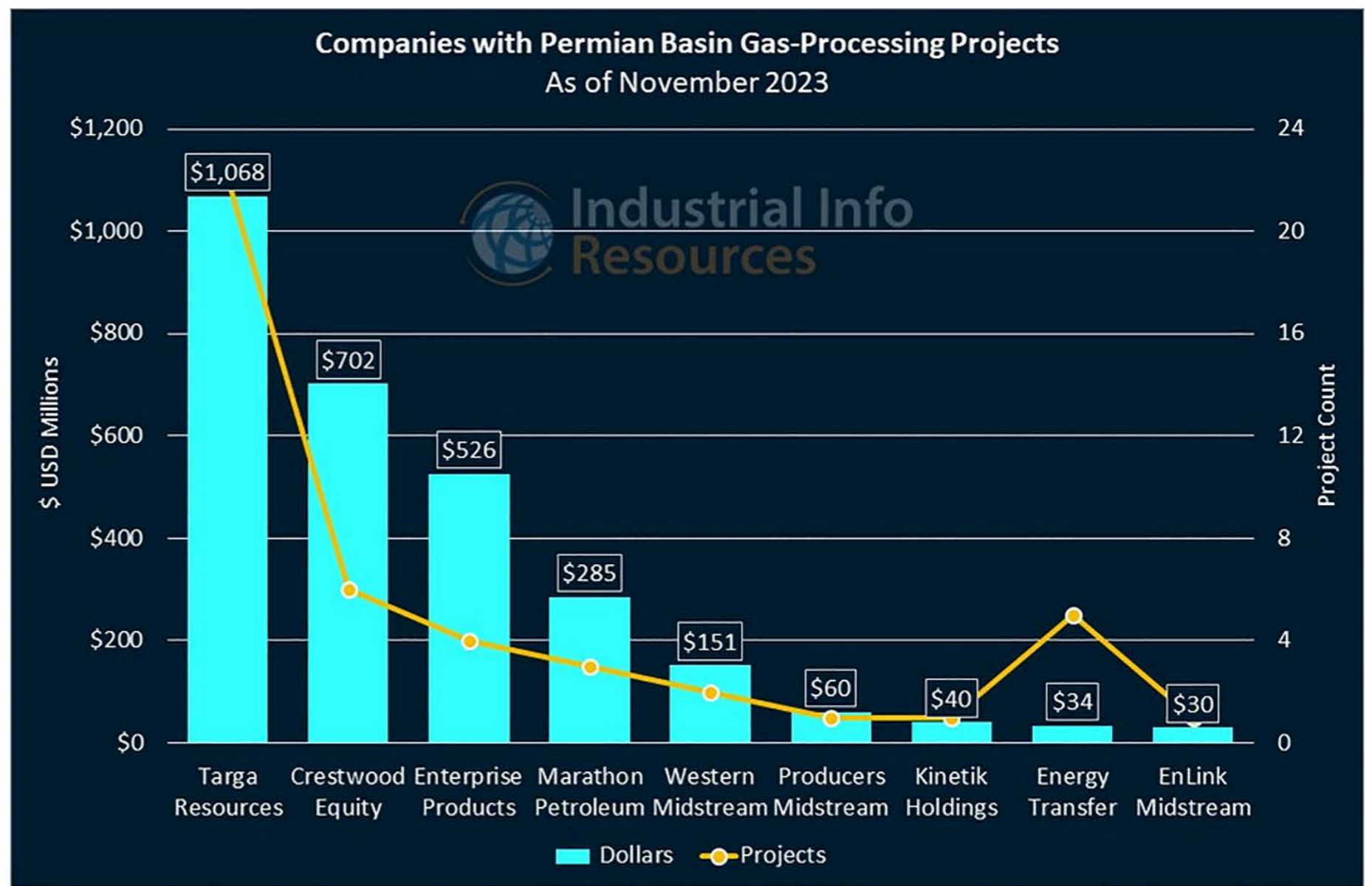
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## Permian Primed to Lead U.S. Gas Production, Processing Boom

Natural gas production in the "Lower 48" U.S. states is expected to grow 5% in 2023 and 2% in 2024, adding 5 billion and 1.8 billion cubic feet per day, respectively, according to the U.S. Energy Information Administration's (EIA) *Short-Term Energy Outlook*. Most of the forecast growth comes from the Permian region, which currently accounts for about 5% of all marketed natural gas production in the Lower 48. The boom in production has gas-processing companies in the area scrambling to expand capacity. Industrial Info is tracking nearly \$3 billion worth of active and planned gas-processing projects across the Permian Basin, about 80% of which is attributed to just three companies: Targa Resources Corporation (NYSE:TRGP) (Houston, Texas), Crestwood Equity Partners LP (NYSE:CEQP) (Houston) and Enterprise Products Partners LP (NYSE:EPD) (Houston).

The EIA expects natural gas production in the Permian alone will increase by 11% in 2023 and 6% in 2024, adding 2.2 billion and 1.4 billion cubic feet per day, respectively. The EIA notes most gas production in the Permian occurs in crude oil reservoirs: "As a result, producers in the Permian region typically respond to changes in the crude oil price when planning their exploration and production activities," it noted in a recent posting, which is why higher crude oil prices likely will help to spur more natural gas production.



Targa, which accounts for more than \$1 billion of the total investment, is more than doubling the processing capacity at its **Wildcat Natural Gas Processing Plant in Wink, Texas**, which is in the heart of the Permian Basin and near the southeastern corner of New Mexico. Company executives have acknowledged Targa is "playing catch up" in the Permian's Delaware Basin, where heavy natural gas production has largely exceeded all predictions. The **\$200 million Train II addition** would bring Wildcat's total capacity to 500 million standard cubic feet per day.

On the other side of the state line, but within the Delaware Basin, Targa is preparing to begin construction in 2024 on a **\$150 million Train II addition at its Roadrunner Natural Gas Processing Plant in Loving, New Mexico**, which could double Roadrunner's capacity to more than 450 million standard cubic feet per day. The company is considering another expansion upon its completion: the **\$200 million Train III**, which could triple capacity to as much as 690 million standard cubic feet per day. Subscribers to Industrial Info's Global Market Intelligence (GMI) Oil & Gas Project Database can read detailed project reports on [Wildcat II](#), [Roadrunner II](#) and [Roadrunner III](#).

"Our Wildcat II and Roadrunner II plants remain on track to begin operations in the first and second quarters of 2024, respectively, and both plants are expected to start up highly utilized given the robust activity across our entire Delaware footprint," said Matt Maloy, the chief executive officer of Targa, in a recent earnings-related conference call. "We are currently offloading an average of around 70 million cubic feet per day of gas in the Permian and are in the process of adding significant compression horsepower during the balance of the year, and are continuing to see strong producer activity across our acreage."

Targa also is at work on the **Daytona NGL Pipeline**, an addition to the Grand Prix natural gas liquids (NGL) pipeline, in which Targa acquired full ownership earlier this year. Daytona is designed to transport up to 550,000 barrels per day (BBL/d) of NGL from the Permian Basin to the Grand Prix pipeline in northern Texas, which then carries it to the company's fractionation and storage complex in Mont Belvieu. Targa is proposing a new **pump station in Midland, Texas**, which would support the Daytona expansion. Subscribers can learn more from a detailed [project report](#), and from Industrial Info's January 4, 2023, article - [Targa Resources Buys Full Stake in Grand Prix NGL Pipeline](#).

Crestwood, which purchased Sendero Midstream Partners LP from [Energy Capital Partners](#) (Summit, New Jersey), is considering the proposed **trains III and IV at the Carlsbad Gas-Processing Complex in Loving**. Together, the new trains could raise Carlsbad's processing capacity from 350 million to as much as 770 million standard cubic feet per day. Subscribers can read detailed reports on [Train III](#) and [Train IV](#).

Not to be outdone, Enterprise is preparing to triple capacity at its **gas-processing complex near Mentone, Texas**, to 900 million standard cubic feet per day of natural gas and 90,000 BBL/d of NGL, through the additions of the **\$150 million Train II** and **\$150 million Train III**. Construction on Train II began in third-quarter 2022 and is set to wrap up in the coming weeks; construction on Train III began over the summer and is expected to be completed by the end of first-quarter 2024. Subscribers can read detailed reports on [Train II](#) and [Train III](#).

Subscribers to Industrial Info's GMI Project Database can [click here](#) for a full list of detailed reports for projects mentioned in this article, and [click here](#) for a full list of related plant profiles.

Subscribers can [click here](#) for a full list of reports for active and planned gas-processing projects across the Permian Basin.





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## U.S. Textile Sector Brings \$1.4 Billion in Active Projects

Starting in the mid-20th century, the U.S. textile sector began to face significant challenges. Factors such as rising labor costs, overseas competition and changes in consumer preferences led to a decline in domestic textile production. Many textile mills and factories closed or moved operations overseas in search of cheaper labor and lower production costs.

In recent years, there has been a resurgence of interest in domestic and sustainable textile production. A pivot toward technical textiles has helped revive the industry in the U.S. somewhat. These textiles are designed for specific performance characteristics and are used in various industries, including automotive, aerospace, medical and defense. Technical textiles represent a growing and innovative segment of the industry, contributing to economic growth and diversification.

In addition, many U.S. consumers are increasingly concerned about the environmental and ethical aspects of the products they buy, and this has led to demand for more transparent and sustainable supply chains. Some companies are responding by bringing back or expanding domestic production and focusing on eco-friendly textiles.

Industrial Info is tracking nearly \$1.4 billion worth of active textiles projects in the U.S. While the U.S. textile industry continues to evolve, some aspects of it remain the same, and most of the spending is concentrated in the traditional home of textiles, the U.S. Mid-Atlantic region, particularly the Carolinas.

In fact, one of the largest textile projects presently under construction is in South Carolina. [Shaw Industries Group Incorporated](#) (Dalton, Georgia) is expanding one of its carpet yarn plants in Aiken, South Carolina, by constructing a 530,800-square-foot building addition with supporting systems to enable the company to help meet current and future demand for its high-performance carpet products. General contractor [Schaerer Contracting Company Incorporated](#) (Chattanooga, Tennessee) kicked off construction earlier this year and is expected to wrap up the project by the end of 2024. Subscribers to the Industrial Manufacturing Project Database can [click here](#) to learn more.

Indicative of the move into technical textiles, [Tex Tech Industries Incorporated](#) (Kernersville, North Carolina) is growing its manufacturing footprint with plans to build a grassroots high-performance textiles manufacturing plant in Winston-Salem, North Carolina. Tex Tech's project includes constructing a 170,000-square-foot building with production equipment and supporting systems to manufacture the company's range of specialty textiles and textile coatings that are used primarily in the aerospace, automotive and medical industries. Construction is expected to kick off early next year, with the plant expected to start operations by the end of 2024. Subscribers can [click here](#) for more details.

Outside of the Mid-Atlantic market region, but firmly in the southeastern U.S., Tennessee also is seeing some prominent project activity. Also aimed toward industrial uses, [Kordsa Global](#) (Izmet, Turkey) is expanding its industrial nylon manufacturing plant by installing new machinery to allow the company to convert its products into tire cord fabric on the site. Tire cord is reinforcement used to maintain the shape of an automobile tire. Construction is in the beginning stages, and the project is expected to be completed in the first half of next year. Subscribers can [click here](#) to learn more.

In a nod toward ethical consumerism, [Natural Fiber Welding](#) (Peoria, Illinois) is renovating its plant in Peoria with new production equipment to expand production of Mirum, a plant-based leather alternative that also is plastic-free, avoiding petroleum products. The project began in 2021 and is approaching completion.

Another alternative leather plant was recently completed in Union, South Carolina. [MycoWorks Incorporated](#) recently completed construction on a grassroots plant that will use its Fine Mycelium technology to manufacture Reishi, a leather alternative used in the fashion, footwear, automotive and decor sectors.

Subscribers can learn more by viewing the project reports on the [Illinois](#) and [South Carolina](#) alternative leather projects.

Fashion also dictates what occurs in the textiles industry, and the manufacture of apparel also features in Industrial Info's coverage of the textiles sector. In Bryan, Texas, for example, [C.C. Creations Limited](#) (College Station, Texas) is approaching completion on a 210,000-square-foot facility that will both consolidate existing operations and expand production capacity to meet growing demand for the company's range of embroidered and screen-printed clothing, signs and banners. The project has been underway since late last year. Subscribers can [click here](#) to view the project report.

The U.S. textile industry is shifting in new directions, making it a dynamic industry that has seen a resurgence over the past few years, particularly in the southeastern U.S. With ethical buying and consumers' environmental consciousness gaining ground, the industry seems set to expand for years to come.

Subscribers to Industrial Info's GMI Industrial Manufacturing Project Database can [click here](#) to view reports for all of the projects discussed in this article and [click here](#) for the related plant profiles.



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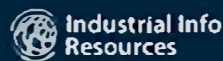
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## Join Industrial Info for a Webinar on the Pharma-Biotech Spending Outlook

Industrial Info is pleased to be presenting a complimentary webinar on the spending outlook for the global Pharmaceutical-Biotech Industry. The presentation will be held Wednesday, November 15, at 10 a.m. CST (11 a.m. EST) and will be repeated for audiences in Europe and the Asia-Pacific region.

Over the past two years, the Pharma-Biotech Industry has seen increased demand for diagnostics, treatments and vaccines thanks to COVID-19 and its variants. As we continue to move into a post-pandemic world, manufacturers and investors are looking for ways to address and combat pandemics before they get out of control.

Among the topics to be discussed by our industry experts are:

- How will the industry respond to supply chain shortages going forward?
- Key market drivers
- Capital spending by project type

We hope that you are able to join us for this timely and informative webinar! [Click here](#) to learn more and to RSVP.

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