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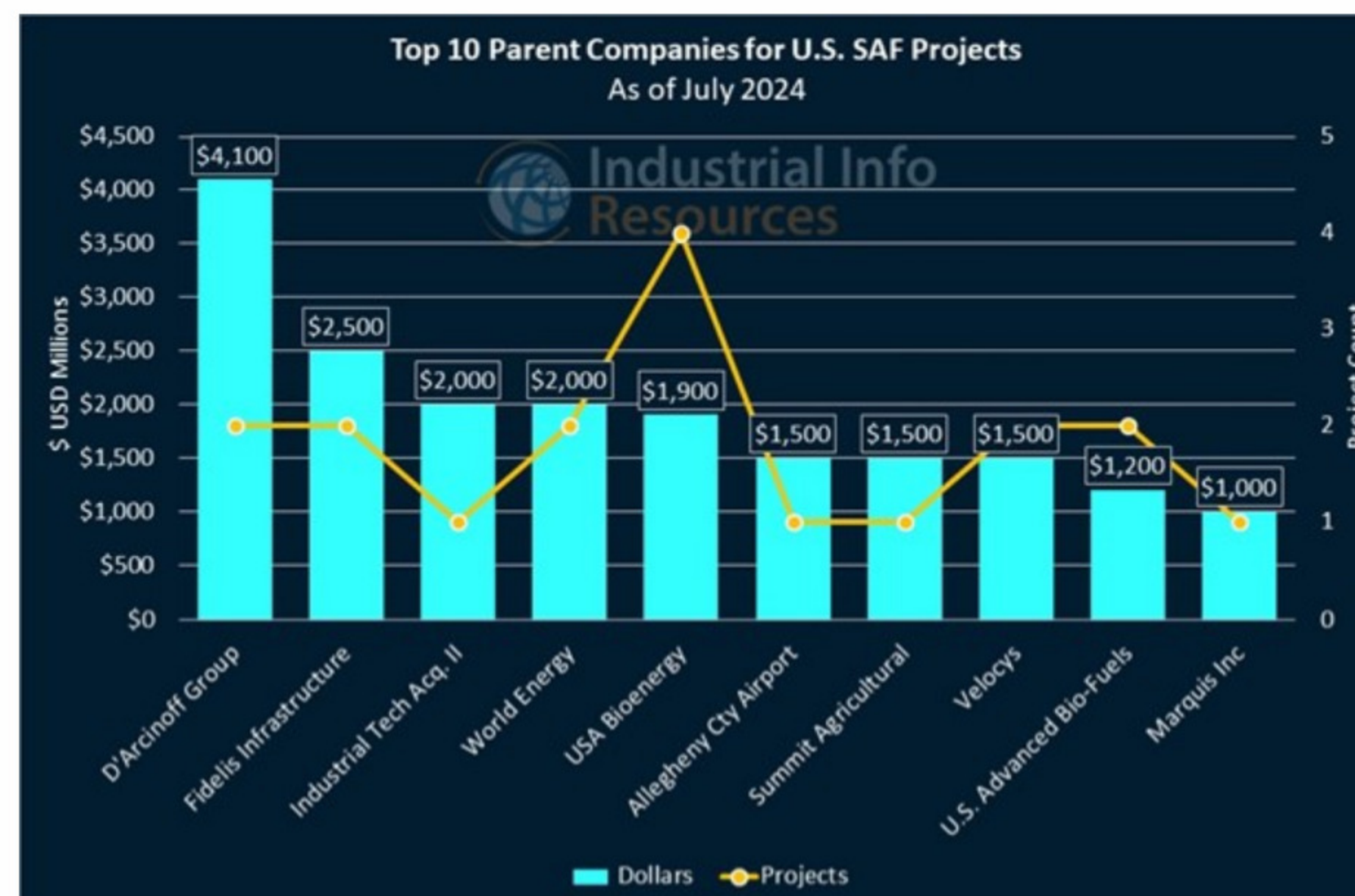
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Published By **Industrial Info Resources**

U.S. Renewable Jet Fuel Primed for Major Growth This Year

The U.S. market for sustainable aviation fuel (SAF) production is on the cusp of dramatic growth, according to the U.S. Energy Information Administration. Two big-ticket projects could boost overall annual production from roughly 2,000 barrels per day (BBL/d) to as much as 27,000 BBL/d before the end of 2024, and they could double the number of plants in the U.S. that could produce SAF. An alternative to conventional jet fuel, SAF is produced from agricultural and waste feedstocks and is consumed in blends with petroleum jet fuel. Industrial Info is tracking more than \$24 billion worth of projects related to the development of SAF across the U.S., most of which are in their early planning stages.



One of the two big-ticket projects began production earlier this summer: Phillips 66's (NYSE:PSX) (Houston, Texas) **\$600 million Rodeo Renewed project in Rodeo, California**, which converted the 120,000-BBL/d Rodeo Refinery complex into a 50,000-BBL/d renewable fuels plant that produces renewable jet fuel, a key component of SAF, as well as renewable diesel and renewable gasoline, from used cooking oil, fats, greases and soybean oils. Subscribers to Industrial Info's Global Market Intelligence (GMI) Alternative Fuels Project and Plant databases can learn more from a detailed [project report](#) and [plant profile](#).

"People want to lower the carbon intensity of their fuels and to maintain their quality of life," said Jolie Rhinehart, the vice president of the newly renamed Rodeo Renewable Energy Complex, in a press release. "The result is that demand for renewable energy will continue to rise."

The other major SAF project that could begin production (although not likely reach full completion) before the end of the year is from Diamond Green Diesel LLC (DGD), a joint venture between [Valero Energy Corporation](#) (NYSE:VLO) (San Antonio, Texas) and [Darling Ingredients Incorporated](#) (Irving, Texas): the **\$315 million addition of an SAF unit at its renewable diesel complex in Port Arthur, Texas**. Valero says upon full completion, expected in 2025, the complex will be able to upgrade "approximately 50% of its current 470 million-gallon annual production capacity to SAF." Subscribers can learn more from a detailed [project report](#).

Two U.S.-based facilities already produce a combined 2,000 BBL/d of SAF: [World Energy LLC's](#) (Boston, Massachusetts) **biofuels plant in Paramount, California**, and [Calumet Specialty Products Partners LP's](#) (NASDAQ:CLMT) (Indianapolis, Indiana) **refinery in Great Falls, Montana**. Subscribers can read detailed profiles of the [Paramount](#) and [Great Falls](#) plants.

The Paramount facility began work in early 2023 on a **\$1.5 billion SAF expansion**, which is expected to increase its production from 42 million to 340 million gallons per year. The expansion is expected to wrap up in early 2026. It will be supported by a **\$1 billion modernization of the complex** to process only renewable feedstocks, which is expected to wrap up in early 2025. The Paramount facility also is part of California's Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES), a state initiative to accelerate renewable hydrogen projects and related infrastructure.

Subscribers can read detailed project reports on the [SAF expansion](#) and [overall modernization](#) at World Energy's Paramount facility.

World Energy also is considering a proposed **SAF plant in Galena Park, Texas**, on the eastern side of Houston, that would involve revamping and converting a decommissioned biodiesel plant to process animal fats and cooking oil into 250 million gallons per year of SAF. If constructed, the project would bring World Energy closer to its goal to produce 1 billion gallons per year of SAF by 2030. Subscribers can learn more from a detailed [project report](#).

President Joe Biden has set a goal of eliminating all fossil fuels from the aviation sector by 2050. The Build Back Better Act, passed in 2021, committed \$1 billion to biofuels research and infrastructure, which helped to incentivize SAF efforts.

But not everyone in the industry is enthusiastic. Brian Moran, the chief sustainability officer at embattled airplane manufacturer The Boeing Company (NYSE:BA) (Arlington, Virginia), said in April it's "highly unlikely" that SAF will reach cost parity with conventional jet fuel. For more information, see April 26, 2024, article - [Boeing Wary of Cost Future for SAF](#).

Subscribers to Industrial Info's GMI Project and Plant databases 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 projects related to the development of SAF across the U.S.



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U.S. Pipe & Tube Mill Projects Going Strong

Pipe and tube mills are designed for the production of metal pipes and tubes, which are essential components in various industries including construction, manufacturing and infrastructure development. While a slowing in the U.S. pipeline sector has caused activity in this area to lag a bit, projects at these mills are still going strong, accounting for more than \$2.5 billion worth of active projects. As might be expected, the highest number of pipe and tube projects is in Oil Country, with Texas taking the lion's share of projects, although Michigan shows overall higher estimated spending thanks to a project that has seen years of delay.

Texas is set for three grassroot stainless steel pipe mills as well as a significant expansion at an existing mill. Construction on the largest of these grassroot mills is expected to begin in the coming months in Splendora, about 35 miles northwest of Houston. [Husteel Company Limited](#) (Changsha, China) is planning a manufacturing plant to produce tube and pipe with a diameter of 60 to 114 millimeters and wall thickness of up to 10 millimeters for the oil and gas industry. The mill is expected to begin production by the end of next year. Subscribers to Industrial Info's Global Market Intelligence (GMI) Metals & Minerals Project Database can learn more by viewing the [project report](#).

In Baytown, Texas, [Jindal SAW USA LLC](#) (Baytown) is expanding its 300,000-ton-per-year pipe and tube mill by constructing a 200,000-square-foot facility to produce electric resistance welded (ERW) steel pipe. ERW pipe is made from steel coil with the weld seam running parallel to the pipe. It has a fast-manufacturing process and is ideal for large productions of smaller-diameter pipe. Jindal's project kicked off earlier this year and is expected to be completed in the first quarter of 2025. Subscribers can learn more by viewing the [project report](#).

After Texas, Alabama has the most active pipe and tube mill projects. Capital projects include a plant expansion and a separate equipment addition project, not to mention several planned maintenance projects. The expansion is taking place at [Hanna Steel Corporation's](#) (Hoover, Alabama) steel tubing mill in Northport. Construction is underway on a 9,000-square-foot building addition that will house a new slitting line, which processes large coils of steel into narrower strips or coils of specific widths, a process that is crucial in the initial stages of manufacturing pipes. Subscribers can [click here](#) to learn more.

In Enid, Oklahoma, [Bri-Steel Corporation](#) (Edmonton, Alberta) since last year has been renovating a facility formerly owned by drilling equipment manufacturer [GEFCO](#) (Conroe, Texas) to establish its second North American seamless pipe mill. The project is expected to begin winding down in the coming months and upon completion, the mill will produce seamless pipe from 12 to 36 inches in diameter with walls up to 3 inches thick. It will make carbon steel and alloy steel pipes. Subscribers can [click here](#) to learn more.

Another brownfield project is set for Mansfield, Louisiana, where [Global Seamless Tubes and Pipes Private Limited](#) (West Bengal, India) will renovate a 160,000-square-foot site that was closed by mining equipment maker Hensley Industries Incorporated (Dallas, Texas) in 2015. The project is expected to begin this fall, taking about a year to complete, when the plant will begin ramping up to full production of 20,000 tons per year of seamless pipe. Subscribers can learn more by viewing the [project report](#).

While there are several other projects at pipe and tube mills in the U.S., one large project in Michigan is worth mentioning as its estimated total investment value approaches \$1 billion, although it has seen years of slippage in its originally proposed kickoff date and has been deemed by Industrial Info as having a low probability (0-69%) of being constructed as planned. Toward the end of this year, [Nobilis Pipe Company](#) (Novi, Michigan), a startup hopes to begin constructing a 1 million-square-foot seamless pipe mill in Michigan capable of producing 160,000 tons of pipe per year. The mill is being established with green credentials as it is planned to be powered by 100% renewable energy and will reduce and recycle waste. Nobilis is aiming for a 2026 start date, although site selection should be completed and work commenced by the end of this year for that to become a reality. Subscribers can [click here](#) to learn more about the project.

Subscribers to Industrial Info's GMI Metals & Minerals 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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New York Governor Gretchen Hochul (D) said in July that Ørsted A/S (Fredericia, Denmark) began construction on the Sunrise Windfarm about 30 miles off the coast of Montauk Point, Long Island, as New York aims for renewables to account for 70% of the state's electricity mix by 2030. In addition to the Sunrise project, Industrial Info is tracking more than \$1 billion worth of renewable-generation projects under construction in New York.

The Sunrise Windfarm will feature a peak capacity of 924 megawatts (MW), enough to power about 600,000 New York homes. Orsted has said the facility should begin generating power in 2026. Last month, the U.S. Department of the Interior's Bureau of Ocean Energy Management (BOEM) gave federal clearance for construction to begin. Subscribers to Industrial Info's Global Market Intelligence (GMI) Power Project Database can [click here](#) to read the detailed project report. For more information, see June 26, 2024, article - [U.S. Feds Greenlight Sunrise Offshore Windfarm](#).

The windfarm will aid President Joe Biden's goal of establishing 30 gigawatts (GW) of offshore wind energy by 2030 and another 15 GW in floating offshore capacity by 2035. New York state alone expects to see 9 GW of offshore wind energy by 2035. For information on the development of U.S. offshore wind power, see July 5, 2024, article - [Avangrid Cleared for Another U.S. Offshore Wind Farm](#); June 27, 2024, article - [Vineyard Wind Now Largest Offshore Facility in U.S.](#); and May 28, 2024, article - [Review Puts U.S. Closer to Offshore Wind Goals](#).

"We're growing New York's green economy, building clean energy, and expanding economic opportunities for all New Yorkers," Hochul said in a press release. U.S. Senator Kirsten Gillibrand (D-NY) added: "The start of construction on the Sunrise Wind project marks a pivotal moment in New York's journey to advance clean energy across the state ... I commend Governor Hochul for her dedication to advancing clean energy projects and I will continue to fight to secure federal resources to target air pollution and combat climate change."

Among the other renewable-generation projects underway in New York is [Hecate Energy's](#) (Chicago, Illinois) **\$600 million Cider solar farm in Genesee County**, which is designed to utilize photovoltaic (PV) panels to provide 500 MW of solar-generation capacity--capable of supplying 920,000 megawatt-hours of electricity to power more than 125,000 average New York households, according to the project website. [Stantec Incorporated \(NYSE:STN\)](#) (Edmonton, Alberta) is providing project management and engineering services for the project, which is expected to wrap up around the end of the year. Subscribers can [click here](#) to read the project report.

Meanwhile, [EDF Renewable Energy North America's](#) (San Diego, California) **Morris Ridge solar farm near Mount Morris**, about 60 miles east of Buffalo, also is expected to wrap up in the fourth quarter. Morris Ridge is designed to utilize about 370,000 panels from [Canadian Solar \(NASDAQ:CSIQ\)](#) to provide up to 177 MW of solar power. According to the project website, the power would flow to the New York power grid via a nearby point of interconnection that taps into an existing transmission line and the company is exploring energy storage for the roughly 1,000-acre site. [Click here](#) to read more information on the project.

In terms of other sources of renewable energy, the [New York Power Authority](#) is performing improvements to the **Robert Moses Niagara Hydroelectric Power Station** to extend the plant's operating life. The plant utilizes 13 generators at an installed capacity of roughly 2.5 GW. Among the efforts is **\$134 million in upgrades**, expected to wrap up by the end of 2029, that include providing added protection against cyberattacks and replacing mechanical components at the end of their operating life. [Burns & McDonnell Incorporated](#) (Kansas City, Missouri) is providing engineering, procurement and construction (EPC) services for the project. Subscribers can [click here](#) to read more information.

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In the webinar, our industry experts will discuss their outlook for the sector. The webinar will include commentary on trends, capital expenditures and an analysis of key geographical markets. Topics to be covered include:

- An outlook on capital spending
- Market drivers and constraints
- Spending outlook by market region
- Renewable energy projects
- Animal protein alternatives
- Sector trends

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