



Raven SR partners with Zanker to transform waste into renewable fuel

Zanker will provide the site and feedstock for Raven SR's first 25 dry-ton commercial renewable hydrogen production facility.

Posted by Theresa Cottom | November 18, 2019

Raven SR has announced an agreement and letter of intent with Zanker Recycling of San Jose, California, to provide the site and feedstock for Raven SR's first 25 dry-ton commercial renewable hydrogen production facility based on its multi-patented steam/carbon dioxide (CO₂) system.

Based in Pinedale, Wyoming, Raven SR is a renewable fuels company that implements carbon-negative fuel technology to transform biomass, municipal solid waste, biosolids, industrial waste, sewage waste, medical waste and natural gas into renewable energy products. It is in the final stages of manufacturing its first production facility.

Zanker Recycling is a solid waste and recycling company that began operations in 1985 by developing a landfill into a full-service resource management, composting and recycling facility. Today, it also includes construction and demolition (C&D) debris and processes more than 2,600 tons of mixed debris per day, diverting more than 80 percent of waste it receives from landfilling.

Raven SR says its conversion technology at Zanker will produce 5,000 kilograms of renewable hydrogen per day for the growing hydrogen economy in the San Jose region.

"We are thrilled to partner with Zanker Recycling to make our first renewable fuel facility a reality and divert even more waste from their landfills, turning it into clean, non-combustion fuel sources," says Raven SR CEO Matt Murdock. "This letter of intent is an important first step in bringing green, renewable hydrogen to the northern California market to help meet the California Energy Commission's goal that transportation hydrogen be at least 33 percent renewable and have a carbon intensity of 30 or less. Our fuels meet and exceed that requirement, and the California EPA [Environmental Protection Agency] has previously ruled our technology as a non-incineration process."

Raven SR's non-combustion, multi-patented steam/CO₂ reforming process, developed by Intellergy and Dr. Terry Galloway, converts mixed feedstock (i.e. biogenic and non-biogenic) into renewable fuel products such as hydrogen, diesel, methane and Fischer-Tropsch fuels. The non-combustion process

has minimal air emissions and significantly reduces greenhouse gases from start to finish. The skid-mounted technology is designed to flexibly switch between input and outputs and is easily scalable, Raven SR says.

Raven SR is contracting with Fluor Corporation on the final design engineering for its production facilities and is working to secure the financing for the San Jose and additional facilities across the U.S. and Caribbean.

“Raven SR can eliminate the garbage piling up in our cities and turn it into low or zero-emission fuels through a method that ensures air quality, and Zanker’s collaboration on this hydrogen fuel project is an ideal means to achieve these goals,” Murdock says.