

Construction Continues

September 5, 2019

New Arrivals

The following skids were either built on site or received at the Port of Oakland and delivered to the EBI site in Fresno for final assembly:

- **BD-10 pre-process Skids**
- **GPU Flash Evaporators**
- **Pump Skids, Walkways and Ladders**



The polishing process we received acts in two folds: (1) absorbing remaining free glycerin and soaps

(2) removing residual impurities that would carry over to the distillation process.



NEWSLETTER from the President and COO

Jeremy Eslinger

The Eslinger Bio-refinery construction project has been accelerating, and I wanted to give you an update. Here's a quick overview of our progress in the past 6 months and what's in store for the remainder of the year.



A Biodiesel Decanter and Reboiler was installed adjacent to the 80-foot tall biodiesel distillation column that will refine-out any remaining micro-particulates.

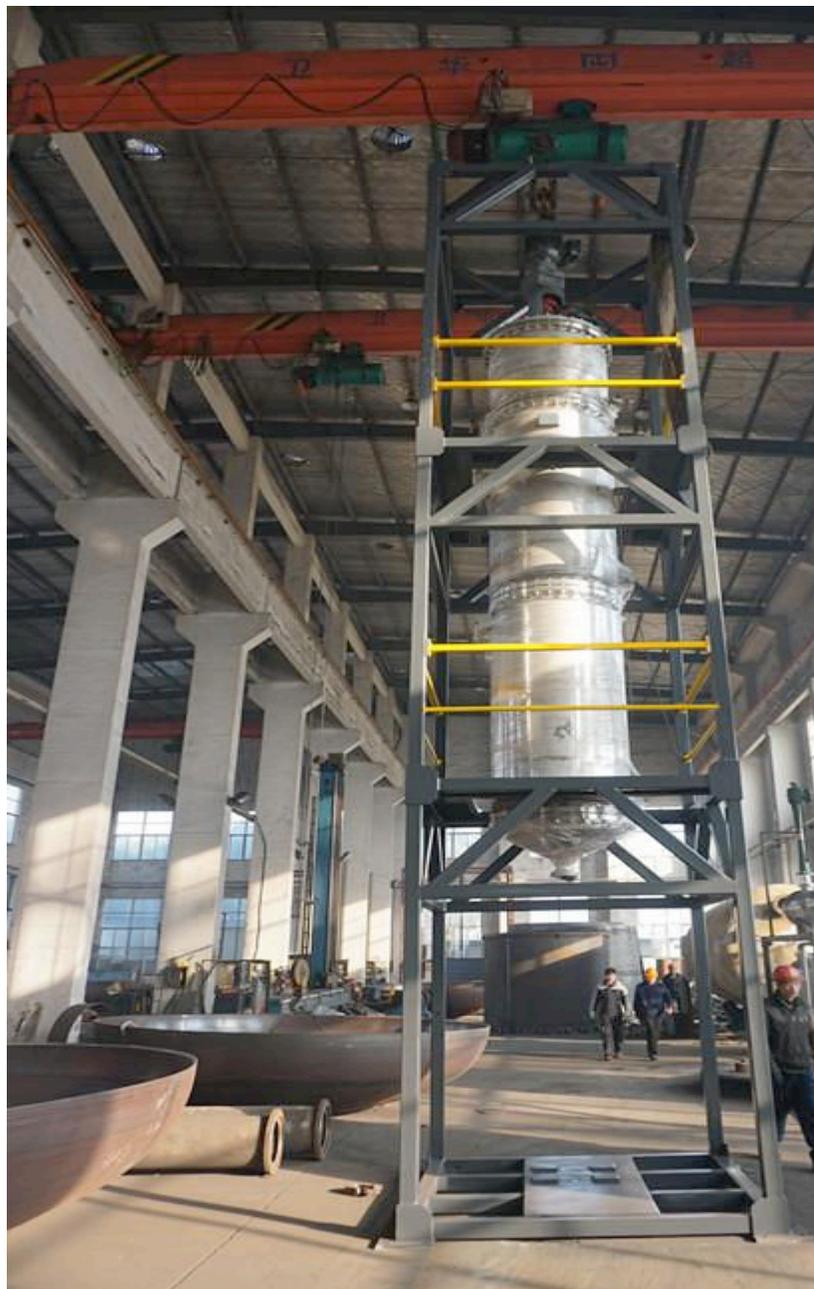
Our Biodiesel B100 (D) is a clean burning, distilled diesel fuel, produced from biomass such as animal fats and used cooking oil (UCO). In the planning stages, we selected a time-tested refining process that is unique to the industry. Our feedstock will be delivered to us by our co-developer, Ameriguard. It can be comprised of waste frying oils from the food service industry, expired cooking oils and byproducts from livestock processing such as tallow, lard and yellow grease. Phase 1 of our 10 MMGY plant is now 85% complete with final assembly and testing to be completed in approximately 6 months.

More Equipment Expected this Month

Wipe Film Evaporator (WFE)



Acid Esterification of high FFA feedstock is one of the pre-processes that uses solid base BD-19 resin in a guard bed followed by multiple BD-20 resin beds. Resin beds can be recycled and reused.



The system above is operated under high vacuum and elevated temperature. When installed here in Fresno, our WFE will heat and vaporize the finished biodiesel product which will then be immediately condensed and distilled in the final process.



At this point our Process Logic Control system (PLC) is in place and our Lab and Control Room are ready to staff up for the training, plant calibration and commissioning phases. We have now received all of our Biodiesel processing equipment and we're expecting blending equipment and the five remaining glycerin purification skids in the near future.

Contact Us

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Quotable Quotes:

These comments are from Steve Howell, Chair of the ASTM Biodiesel Task Force and Faith Birol PHD, Executive Director of the IEA.

“Biodiesel blends increase lubricity and cetane of diesel fuel—two necessary properties that diesel fuel lacks. Biodiesel blends provide performance characteristics such as fuel economy, horsepower, and torque similar to petroleum diesel while improving other characteristics, extending the life of diesel engines.”

STEVE HOWELL
CHAIR OF THE ASTM
BIODIESEL TASK FORCE

“Modern bioenergy is the overlooked giant of the renewable energy field. Its share in the world's total renewables consumption is about 50 percent today, in other words as much as hydro, wind, solar and all other renewables combined.”⁸

FATIH BIROL, Ph.D.
EXECUTIVE DIRECTOR,
INTERNATIONAL ENERGY AGENCY