



CRITERIUM SUSTAINABLE  
DEVELOPMENT FUND LLC

WAHKE RESOURCES SERIES 1  
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# NET-ZERO EMISSIONS TECHNOLOGY (ZNET)

- Working Prototype since 2017, Patented in 2021.
- Meets strict government standards and operates at a lower temperature (no known competitors).
- Produces higher-purity and cleaner-burning fuels with lower emissions. High Feedstock conversion value/adaptable to a wide range of feedstocks (i.e., black and yellow waxy crude).
- Modular Reactor unit has a small footprint of 2600 sq/ft. Scalable 10,000-100,000 BOPD by daisy chaining units. 3,400 BOPD modules.
- 10-70 Permits compared to the traditional nearly 400 permits required, which has resulted in no new refineries coming online besides the Taft pilot in the last 30 years.
- Near net-zero greenhouse gas emissions and net-zero carbon dioxide.
- brandXepc



# Net-Zero Emissions Technology (NZET) Benefits

- Scalability with lower capital costs/barrier to entry to achieve continuous revenue
- No toxic emissions, no flaring, and ultra-low carbon intensity.
- Modular footprint that enables faster deployment, minimal land disturbance, and long-term operational resilience (i.e. 20 acres per 10K BOPD facility).
- Use 90% less water than traditional water-intensive refining processes proposed in the past(less than 100 gallons BOE).
- Aligns with SCIC to promote regional planning, increase economic opportunity and public service, and implement sustainable infrastructure projects.
- A pioneering innovation and sustainable energy solutions that align with the unique environmental and economic dynamics of the Uintah Basin.
- The Utah refining market is ripe for disruption by a modern, clean, strategically located ZNET refinery that can process local waxy crude efficiently while meeting growing demand for low-carbon fuels (Feasibility Study supported).



# How does Net-Zero Emissions Technology Work?

- Each Modular Reactor unit can process 8-50+ API degrees crude as input.(i.e black and yellow waxy crude)
- Produces higher-purity, cleaner-burning fuels with lower emissions.
- Proprietary viscosity-reductant additives, which reduce viscosity by up to 50% and increase API gravity by up to 2 points.
- Spray-cracking and vacuum flashing of crude oil separate light-end chains and heavy-end chains inside the reactor.
- Vapor is then condensed into desired fuels.
- Efficient and Cost-Effective Closed-Loop System with an Emphasis on Safety.





# The Bottom Line

- Combining reliable crude supply with ZNET's revolutionary technology.
- Potential site locations include Wellington or areas south of Duchesne, as well as other strategically aligned partnerships that may arise.
- Size the refinery to match real market demand.
- Finance it with federal support.
- Fund affiliated with Criterium Management ([www.criteriummanagement.com](http://www.criteriummanagement.com)).
- The result is a refinery that doesn't just process oil – it transforms Utah's energy landscape while setting new standards for environmental performance.
- **Project Motto: “Right-Sized, Right-Place, Right-Time – Utah's Energy Future Starts Here”**

# Question and Answers



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