

MAVERICK SYNFUELS

Technology Backgrounder

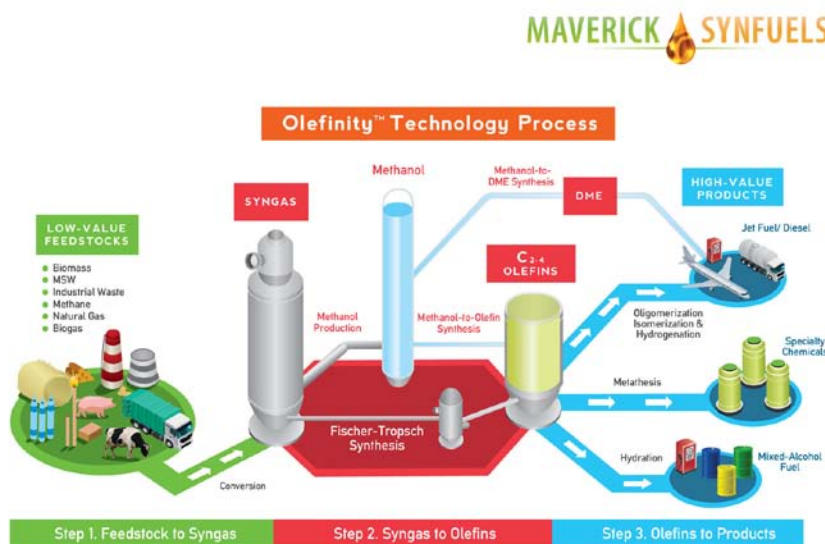
Maverick Synfuels develops and commercializes advanced thermo-chemical technology that converts low-value and renewable feedstocks into high-value fuels and chemicals. Our processes are feedstock flexible and can convert methane (natural gas, landfill gas, anaerobic digester gas), as well as biomass, municipal solid waste (MSW) and industrial waste, into transportable intermediates. These intermediates serve as building blocks for multiple products that readily integrate into the existing market infrastructure, such as jet fuel, diesel and propylene.

Methanol-to-Olefins (MTO) Process

Maverick's processes are feedstock flexible, and our products are formed from a common olefin intermediate. Some feedstocks can be easily converted directly into olefins, whereas other feedstocks are more efficiently converted to methanol, which is then converted to olefins. The methanol-to-olefins ("MTO") process is well-understood, and uses catalysts which are commercially-available. This process is more cost-effective when performed at a relatively large scale, so it is more cost-effective to produce methanol where the feedstock is located, and ship the methanol to a central hub for conversion to olefins. Once the methanol is converted to olefins, the olefins can be converted to final products.

Olefinty™ Process

Our Olefinty™ process involves three well-understood thermochemical and chemical processes that have not been previously combined into a single process. Each of the major steps is commercially available and currently used to produce other commodities.



Licensing Opportunities

Maverick is pursuing a hybrid business model that consists of licensing the technology to strategic partners along with eventual building and operating production facilities with various partners. Maverick will produce and sell end commodity products into the specialty chemicals and transportation markets and/or derive revenue from selling equipment, know-how, services, and/or entire refineries.