

Clean, Synthetic Diesel From Alaska Designed To Meet America's Environmental Needs Energy Security and New Lower Sulfur Standards For Diesel Established By The EPA

The Alaska Natural Resources To Liquids LLC and others propose to meet the EPA's new sulfur standards for diesel fuel while addressing America's need for a cleaner environment, its need for energy security, plus provide American's with a domestically produced fuel of the future. By developing Alaska's natural gas, coal and bio-mass with proven Fischer-Tropsch (F-T) technology to produce an ultra-clean, non-toxic, zero sulfur, zero aromatic synthetic diesel, the U.S. can achieve all of these goals.



GTL/BTL/CTL "Synthetic" Diesel Benefits

- Non-Toxic and Biodegradable - so says EPA.
- Improve U.S. public health by reducing pollution.
- Market in the US today unlimited.
- Reduce dependence on foreign oil.
- Synthetic diesel price competitive with California CARB diesel.
- F-T process proven with over 50 billion gallons produced to date.



Environmentally Friendly Products from the Fischer-Tropsch (F-T) process

- Primary product is a clean, synthetic diesel for buses, trucks, other motor vehicles and electric generation.
- Reduces sulfur levels to below 1 PPM from the current onroad 15 PPM in standard diesel so you can utilize catalytic converters.
- Reduces aromatics to less than 0.05% from 30% in standard diesel.
- Reduces NO_x, hydrocarbons, and particulates significantly.
- Synthetic diesel does not require any motor vehicle engine modifications for use.

CTL/BTL/GTL PLANTS ARE ENVIRONMENTALLY FRIENDLY

The EPA States That:

- Mobile source emissions account for almost 50% of all NO_x emissions;
- Mobile sources are projected to account for nearly 70% of direct PM₁₀ emissions;
- Advanced sulfur - sensitive technologies have the potential to reduce diesel engine NO_x emissions by up to 75% and PM₁₀ emissions by 90% or more.



South Africa's Mossgas GTL Plant holds a full International Environmental ISO 14001 Accreditation



Dramatic Pollution Solution

According to California State officials, 70% of California's pollution comes from 2% of its vehicles like heavy-duty trucks.

Advantages of synthetic diesel from the F-T process:

- Up to 90% reduction in NO_x, hydrocarbons, particulates and carbon monoxide in engines running F-T synthetic diesel;
- GTL/BTL/CTL diesel extends the life of a diesel engine between major overhauls;
- Reduces lifetime motor oil consumption by 50%;
- Burns cleaner than natural gas in engines according to recent European studies;
- Alleviates public health issues related to diesel exhaust (especially PM₁₀) such as asthma, chronic bronchitis, pneumonia, heart disease and cancer.

ALASKA PRODUCED SYNTHETIC ZERO SULFUR DIESEL, A PERFECT "ALTERNATIVE" FUEL WILL IMPROVE U.S. MOTOR FUELS, DRAMATICALLY REDUCE MOTOR VEHICLE EMISSIONS AND REDUCE U.S. DEPENDENCE ON FOREIGN CRUDE.

NOT ONLY CAN ALASKA MEET THE NEW EPA DIESEL STANDARDS, WITH NATURAL GAS, COAL AND BIO-MASS BASED SYNTHETIC FUELS, IT CAN FAR EXCEED THEM.

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Well proven - CTL/BTL/GTL plants use the Fischer-Tropsch process to produce 300,000 barrels per day of synthetic products World Wide
Over 500,000 bbl/d of new GTL plants under design and construction !
160,000 bbl/d of new CTL plants under design in China!