

ALTERNATIVE FUELS REACTOR

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INNOVATION

A production process for converting animal fat and recycled cooking oil to biodiesel at costs competitive with traditional diesel fuel, resulting in the potential wide-scale commercial production of a viable alternative fuel.

ACCOMPLISHMENTS

- Multi-feedstock conversion process for fats, oils, and greases to biodiesel.
- Production of biodiesel at costs comparable to hydrocarbon diesel.
- Development of a production and recovery process which eliminates waste water discharge, ensures complete solvent recovery, and reduces catalyst consumption.
- Product quality meeting the requirements of the American Society for Testing and Materials for biodiesel (ASTM D 6751) and Technical Grade for the glycerin co-product, irrespective of the feedstock source.

COMMERCIALIZATION

- Formed a joint venture with a leading company in the Quick Serve Restaurant (QSR) Industry to provide services to the emerging biodiesel industry.
- Established strategic alliance with a major process equipment fabrication and assembly contractor for the construction of commercial scale biodiesel production facilities.
- Successfully completed the first commercialscale sale of a biodiesel plant to be located in the US upper Midwest with projected annual production of 10-million gallons per year.



PILOT PLANT FOR BIODIESEL PRODUCTION

IMPACTS

- ► Lowest production costs in the industry.
- ► Competitively price capital investments.
- Consistent production of high quality biodiesel and a glycerin by-product.
- Elimination of water wash step.

SBIR COMPETITIVELY AWARDS SMALL BUSINESS GRANTS FOR INNOVATIVE RESEARCH THAT HAS THE POTENTIAL OF SOLVING IMPORTANT AGRICULTURE AND RURAL DEVELOPMENT PROBLEMS.

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