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Waste Vegetable Oil as an Alternative Fuel for Diesel Vehicles.

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Abstract : Alternative fuels have become a hot topic in the news as the cost of oil remains volatile. Questions of whether acquiring alternative fuels are worth the cost, logistics, and political implications are being asked. A possible solution may be currently thrown away by

Wright Patterson Air Force Base's (WPAFB) dining establishments in the form of waste vegetable oil (WVO). This study investigated the benefits and costs of pursuing the installation of a WVO to Straight Vegetable Oil fuel processing center and using the fuel to power some of the base's diesel vehicles. A pilot program was fielded utilizing the Wright Patterson Club for WVO and the Recycling Center for processing and use. From the pilot program, data was extrapolated to determine the total cost and payback period to operate the system. The benefits of reducing spills and emissions were also realized.

Descriptors : *OIL WASTES , *VEGETABLE OILS , *FUELS , COSTS , AIR FORCE FACILITIES , PILOT STUDIES , WASTES , ENERGY CONSERVATION , FUEL OIL , THESESES , RECYCLED MATERIALS , DIESEL ENGINES , VEHICLES

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