



Sustainable Technology Evaluation and Demonstration (STED) Program

Biobased Tire Demonstration



Technology Description

Goodyear tire technology uses domestic soybean oil to replace petroleum oil in tire tread compound; commercially available in seven tire lines (4 passenger, lt. truck, refuse, bus, and EV).

Potential Impact

- Potential for DoW to reduce industry petroleum consumption by approximately 596,000 gallons per year if implemented DoW-wide.
 - DoW operates 71K non-tactical passenger vehicles with an average tire life of two years.
 - Approximately seven gallons of petroleum oil are used to manufacture one passenger tire and the biobased tread technology replaces 60% of this petroleum oil.

Benefits

- Increases performance in various weather / operating conditions.
- Remains flexible across a broad temperature range, improving wet and snow traction.
- Increases wet and dry handling and braking.
- Reduces treadwear.
- Reduces petroleum use.

Demonstration Sites

- Shaw AFB
- Moody AFB
- Tyndall AFB
- JBLE
- FBI TEVOC
- DHS Federal Law Enforcement Training Center (FLETC)



Shaw AFB

For additional information please contact:

- [DoW STED Program email](#)