



# 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 and bus).

### Potential Impact

- Potential for DoD to reduce industry petroleum consumption by approximately 596,000 gallons per year if implemented DoD-wide.
  - DoD 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 climates / 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    | • FBI TEVOC   |
| • Moody AFB   | • DHS Federal Law Enforcement Training Center (FLETC) |
| • Tyndall AFB |   |
| • JBLE        |   |

### For additional information please contact:

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- Department of Defense (DoD) Sustainable Products Center (SPC): <https://www.denix.osd.mil/spc/index.html>



Shaw AFB