



# Using Biodiesel to Meet Corporate Sustainability Goals

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# Sustainability

Doing things  
efficiently to  
preserve  
resources and  
minimize  
environmental  
impacts.





# Carbon Management

A **carbon footprint** is a measure of the impact human activities have on the environment in terms of the amount of greenhouse gases produced, measured in units of carbon dioxide.

# [ Motivations ]

- Consumer Confidence and Goodwill
- Cost Savings and Revenue Enhancement
- Regulatory Compliance
- It's the Right Thing to Do





# Areas of Focus

- Facility Energy Usage

- Lighting
- Heating and Cooling

- Water Usage

- Waste Reduction and Recycling

- Fleet Management



# [ Where To Start ]

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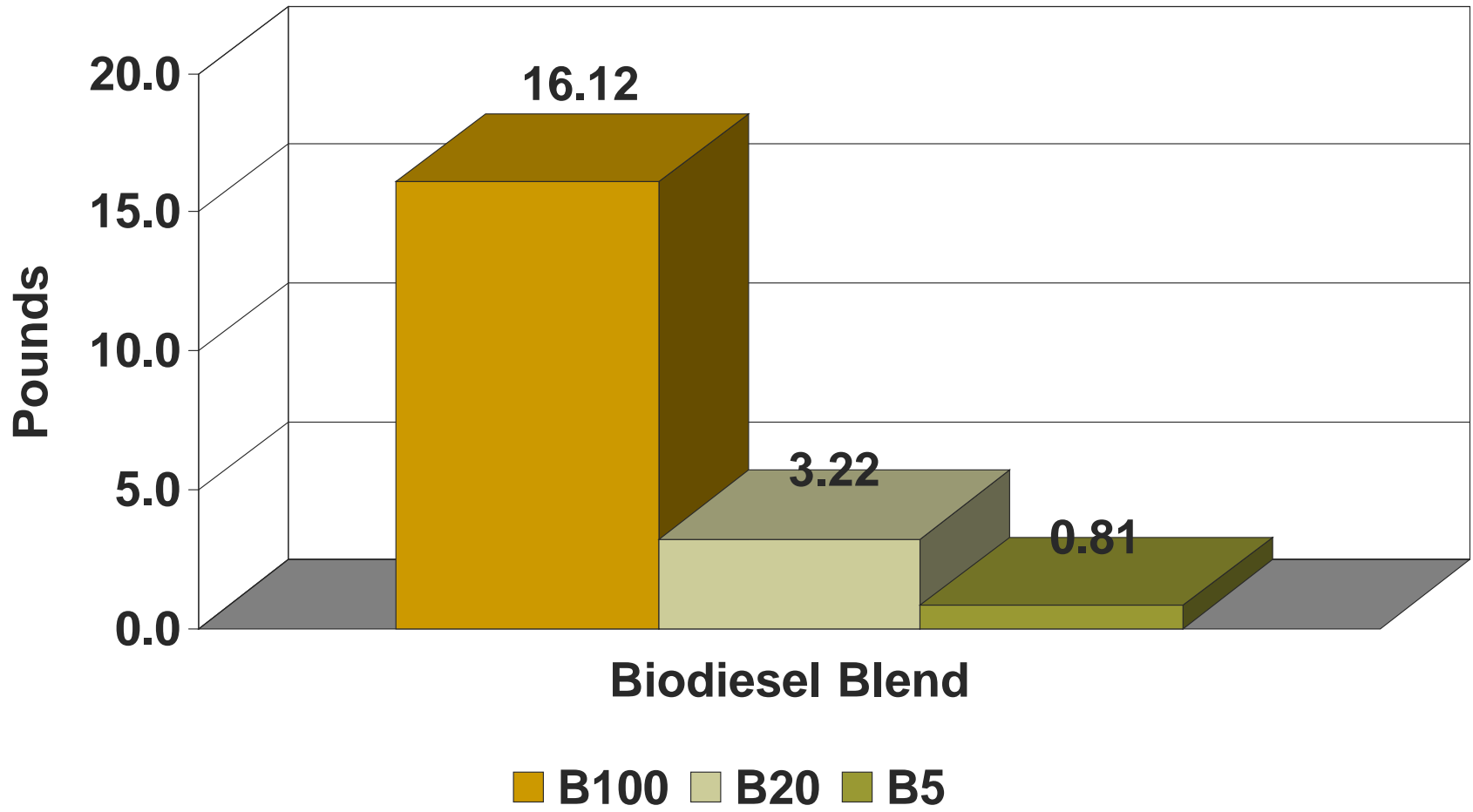
- Establish Baseline Carbon Footprint
  - Waste Reduction Model (WARM)
  - Recycled Content Tool (ReCon)
  - Greenhouse Gas Equivalencies Calculator
- Set Reduction Goals
- Find Carbon Reduction Opportunities
- Measure Your Progress

# [ How Does Biodiesel Fit? ]

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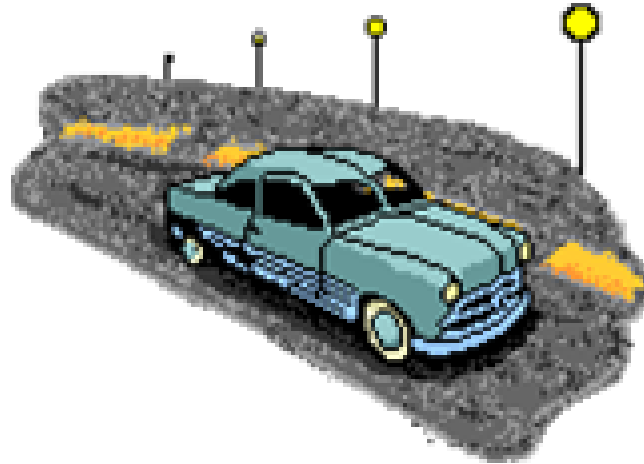
- Greenhouse Gas Emissions Reduction
  - 78% GHG benefit
    - 1998 USDOE/USDA Study
- Energy Balance Benefits
  - For every unit of fossil energy used to produce biodiesel 3.5 units of energy are gained
    - 2007 University of Idaho update of the USDA/DOE Study

# [ GHG Reductions per Gallon ]

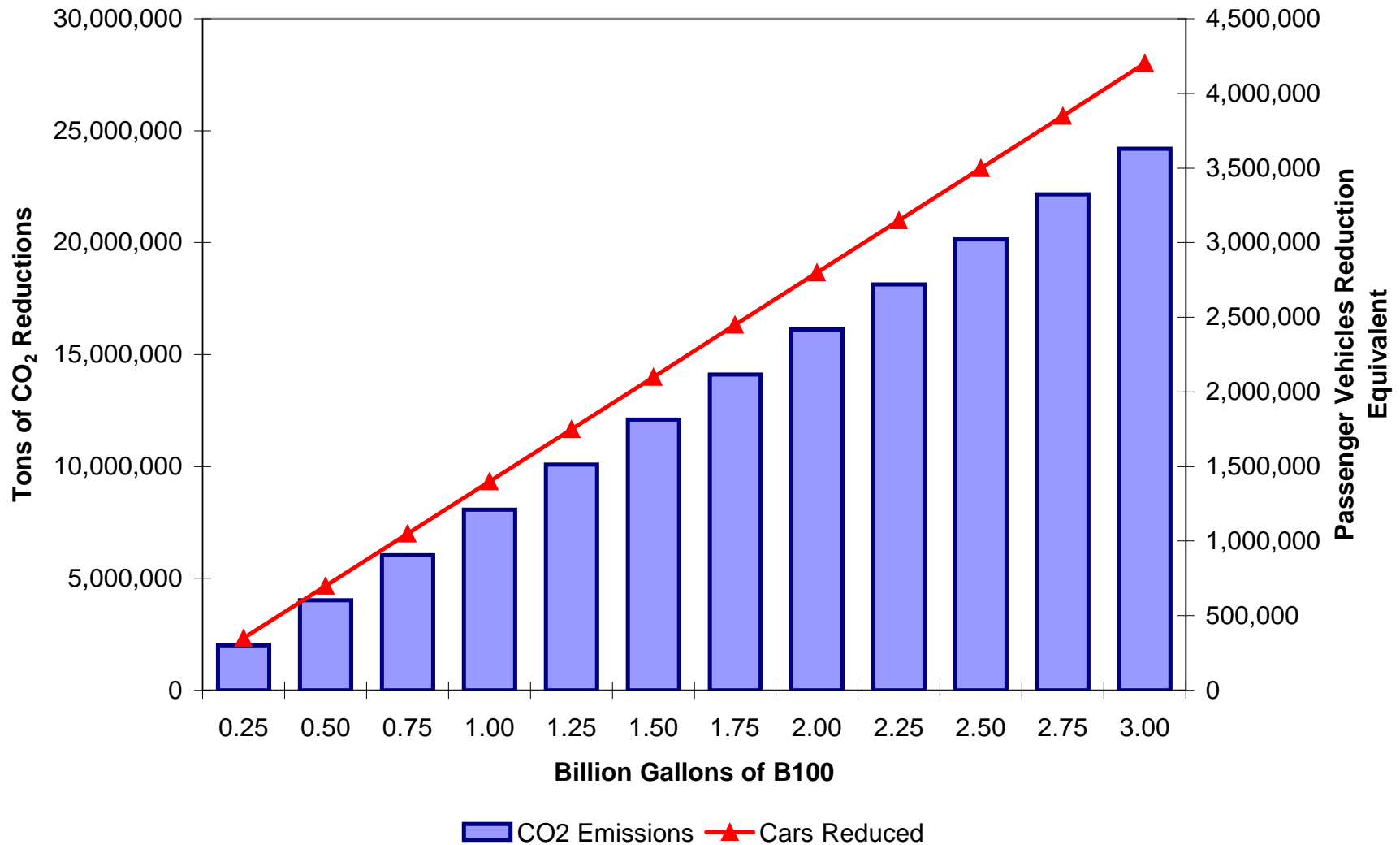


# [ GHG Reduction Equivalent ]

- A fleet who burns 1,000 gallons of B100 per year generates CO<sub>2</sub> emissions reductions equivalent to removing 1.4 passenger vehicles from our roadways.



# Lifecycle CO<sub>2</sub> Emissions Reductions with B100



# [ Additional Benefits ]

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- Reduction in Regulated Emissions
  - PM, CO, HC
- Toxicity of Exhaust is Less
- Fuel Lubricity is Enhanced
- Domestically Produced
- No New Fueling Infrastructure Needed
- Works in Existing Equipment

A decorative graphic consisting of a thin yellow circle on the left side. A thick black bracket is positioned on the left, and a thick yellow bracket is on the right, both framing a horizontal bar. The bar has a gradient from light green on the left to white on the right.

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