



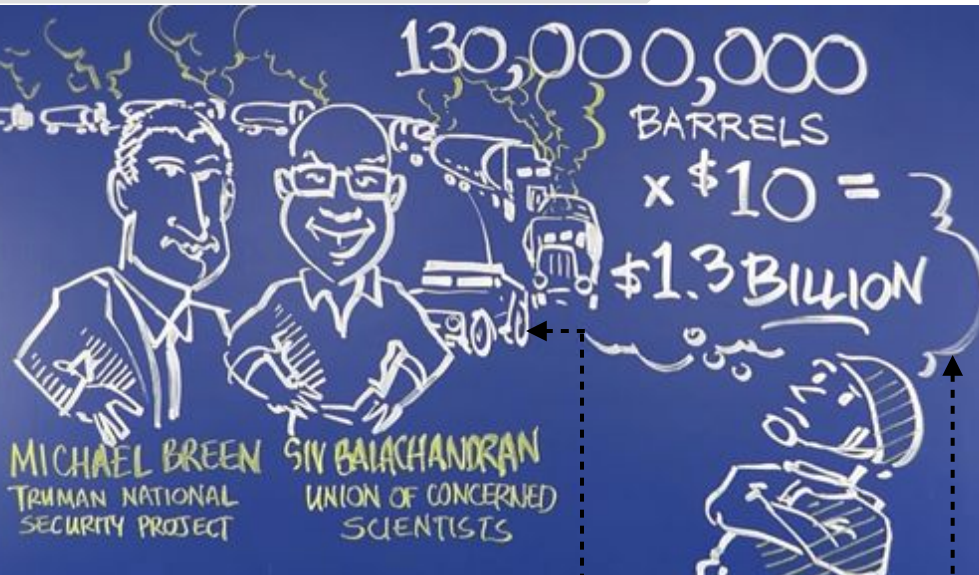
HALF THE OIL

BUILDING A MORE SECURE AMERICA

Union of
**Concerned
Scientists**

MORE FUEL, LESS FIGHT

Our military's oil use increases risk on the battlefield and exposes the military to international price spikes.



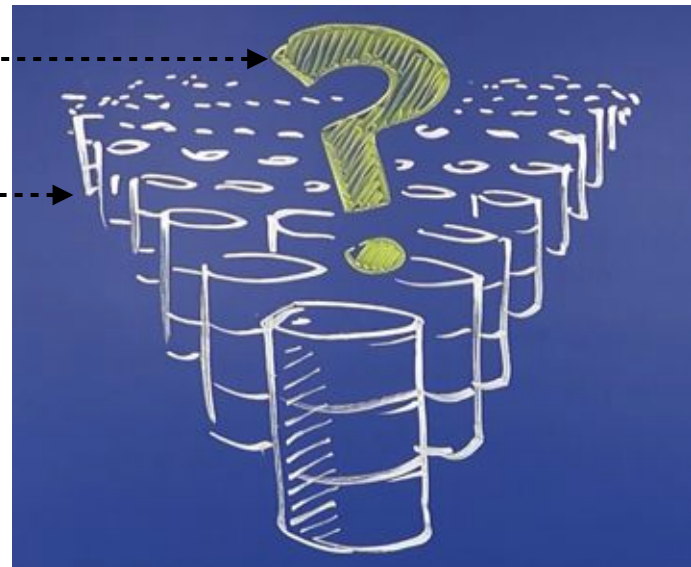
RISKY: One in 24 convoys of oil tankers ended in an American casualty in Afghanistan from 2003 - 2007.¹

EXPENSIVE: Every \$10 increase in the price of a barrel of oil means a \$1.3 billion budget shortfall, money that could have been better spent protecting and training our troops.²

VOLATILE: Price of oil is determined by global supply and demand. Global supply disruptions, like instability or conflict in the Middle East or Eastern Europe, can impact prices here at home, even if we don't get oil from the countries in turmoil.

DESTRUCTIVE: So called "new oil and gas" resources aren't really new at all – recent access to these reserves is only possible because rising global demand has created a new normal of high prices that makes dirtier and destructive extraction profitable for the oil industry.

WE CAN'T DRILL OUR WAY OUT



THE REAL SOLUTION: REDUCING OIL USE

MILITARY LEADS THE CHANGE

- ★ Our military is already adopting new, innovative technologies to reduce its oil use and create a stronger, more effective fighting force.
- ★ The Navy's first hybrid-electric propulsion assault ship, the USS Makin, saved approximately one million gallons of fuel on her maiden voyage and is expected to save more than \$250 million.³
- ★ The Army's hybrid-electric Ultra Light Vehicle (ULV) has the same payload, performance, and protection as a traditional HUMVEE, but with 90 percent better fuel efficiency and the capability to run silently.⁴



STATE AND FEDERAL ACTION

- ★ Political leaders across the country are following the military's lead and taking action on efficiency and innovation to cut our oil use.
- ★ New fuel economy standards for new cars and light duty trucks finalized in 2012 will double current mileage to 54.5 mpg by 2025, cutting oil use by nearly 1.5 million barrels per day by 2030.
- ★ Rising deployment of plug-in electric vehicles over the past three years has eliminated the burning of 45 million gallons of gasoline each year, and saved drivers over \$100 million per year in avoided fuel cost.



Continued investment in cleaner fuels and more efficient vehicles can cut the nation's projected oil use in half by 2035.

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For more information on the Union of Concerned Scientists visit: www.ucsusa.org | www.halftheoil.org

SOURCES: 1. Army Environmental Policy Institute report, "Sustain the Mission Project: Casualty Factors for Fuel and Water Resupply Convoys." | 2. Defense Energy Support Center, "Fact Book Fiscal Year 2012." | 3. Chief of Naval Operations Energy and Environmental Readiness Division, "U.S. Navy Fact Sheet." | 4. United States Army, "ULV - Tank Automotive Research, Development and Engineering Center."