

# *Government Activities to Reduce Idling*

**SAE Commercial Vehicle Engineering  
Congress  
Rosemont, IL  
November 2, 2005**

***Linda Gaines***



*Argonne National Laboratory is managed  
by The University of Chicago  
for the U.S. Department of Energy*



U.S. Department of Energy  
**Energy Efficiency  
and Renewable Energy**

Bringing you a prosperous future where energy  
is clean, abundant, reliable, and affordable



## *New legislation authorizes significant funding*

- **Major laws passed but money is not yet appropriated**
  - **Energy Policy Act of 2005**
  - **Safe, Accountable, Flexible, Efficient Transportation Equity Act of 2005 – A Legacy for Users (SAFETEA-LU)**
- **New bill introduced October 6, 2005 by Rep. Kay Granger**
  - **Idling Reductions Tax Credit Act of 2005 would provide up to \$3,500 in tax credits for truck idling reduction devices**
  - **Same bill stalled last year in the Ways and Means Committee**

## *Energy Policy Act funds deployment by EPA*

- **\$94.5 million to EPA over 3 years to deploy idling-reduction technologies and other fuel-savers**
- **\$45 million to EPA to reduce locomotive idling**
- **50% cost-sharing required**
- **EPA to establish low-cost loans and 2 grant programs**
- **400 lb weight waiver for IR equipment**
- **No money for R&D**

## *Smartway seeks to eliminate unnecessary idling*

- **EPA's SmartWay Transport Partnership announced \$5 million in grants in October 2005**
  - **Texas A&M Research Foundation – Truck Engine Idle Reduction Technology Demonstration Program**
  - **Ohio Department of Development - Ohio and Midwest TSE Corridors Demonstration, Evaluation, and Development Project**
  - **Lane Regional Air Pollution Authority (Oregon) - Everybody Wins - Phase II**
  - **American Transportation Research Institute - Demonstration of Integrated Mobile Idle Reduction Solutions**
  - **North Carolina State University - Truck Original Equipment Manufacturer APU Prep Kit Design and Installation**
- **Smartway granted \$1 million in 2004 for 9 TSE locations**

## *DOE applies its R&D mission to idling reduction*

- “Don’t Idle Your Profits Away” published 1986
- APU research funded in late 1980s
- More Electric Truck development supported
- Detailed analysis published in 2000
- Demonstration projects ongoing under Advanced Vehicle Testing Activity
- Clean Cities funds idling reduction
- 21st Century Truck Partnership supports idling reduction
- Stakeholders identified significant R&D needs



## *DOT programs are the big dogs*

- **Safe, Accountable, Flexible, Efficient Transportation Equity Act of 2005 – A Legacy for Users**
  - **Congestion Mitigation and Air Quality (CMAQ) Improvement Program**
    - *\$8.6 billion for transportation projects to maintain air quality*
    - *Apportioned to states based on population in EPA non-attainment areas*
    - *Minimum 0.5% to all states*
  - **State Infrastructure Banks (SIB)**
  - **Transportation Infrastructure Finance and Innovation Act (TIFIA)**
    - *Requires private sector participation for projects >\$50 million*

## *State programs support idling reduction*

- **California**
  - **Carl Moyer Program**
- **Pennsylvania**
  - **Small Business Advantage Program**
- **Oregon**
  - **Lane Regional Air Pollution Authority**
  - **Pollution Control Facilities Tax Credit Program**
- **Texas**
  - **Texas Emissions Reduction Plan**
- **National Association of State Energy Officials**
  - **State Technologies Advancement Collaborative Program**
- **Climate Trust**

## *LRAPA Program jump-starts APU installation*

- Unusual local program funds on-board technology
- Identified barriers
  - Few dealers or repair shops
  - High initial cost
- Formulated a solution
  - Purchased 100 APUs wholesale in Phase I
    - *Phase II funds 250 more*
  - Are selling to truckers at discount
  - Provide attractive financing and tax benefits
  - Educating mechanics to install and service with EPA funding
- Contact: Sharon K. Banks ([sharon@lrapa.org](mailto:sharon@lrapa.org) )



**LRAPA**  
Lane Regional Air Pollution Authority

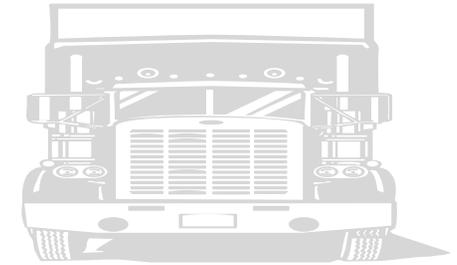
## *This topic has become a lightning rod*



*Ditching Dirty Diesel*  
Anti-Idling Day of Action

**SAVE THE DATE!**

October 18, 2005



**Idling is dangerous, expensive and against the law**  
**Join us and spread the word!**

### ***Don't Sit Idle! What YOU can do:***

- **Pass out flyers to educate drivers and community residents!**
- **Take part in our press conference, or hold your own!**
- **Join us for a ride on a clean power 'Freedom Bus' to further spread the word!**



## *Other modes are included, too*

- Ships can plug in at ports in CA, WA, AK
  - “Cold ironing” reduces diesel use and emissions
  - Requires on-shore investment and vessel retrofit
- School and other bus idling restrictions abound
- California signed MOU with 2 railroads

Four copper cables supply power from substation



# NATIONAL IDLING REDUCTION PLANNING CONFERENCE

*Developing comprehensive, nationwide  
solutions for heavy-vehicle idling reduction*

**MAY 17-19, 2004**  
**ALBANY, NEW YORK**



- 214 people attended from
  - Government agencies at all levels
  - Industry: users, truck stop operators, manufacturers
- All relevant topic areas were covered
  - Technology and research
  - Legislation and regulation
  - Energy, environmental impacts, and economics
- Coordinated action was achieved
  - Multi-agency sponsorship (DOE, EPA, DOT, DOD, NYSERDA)
  - Stakeholders are writing a national idling reduction plan covering education, financing, regulations, and technology
    - *Will be discussed in Technology Theater this afternoon*

## *Fuel prices provide a big incentive*



Plainfield Road and Route 83, Willowbrook, IL October 20, 2005

## *You can get more information*

- National Idling Reduction Network News (monthly):
- [http://www.eere.energy.gov/vehiclesandfuels/resources/fcvt\\_national\\_idling.shtml](http://www.eere.energy.gov/vehiclesandfuels/resources/fcvt_national_idling.shtml)
- DOE/ANL publications:  
[www.transportation.anl.gov/idling.html](http://www.transportation.anl.gov/idling.html)
- CARB activities: [www.arb.ca.gov/msprog/truck-idling/truck-idling.htm](http://www.arb.ca.gov/msprog/truck-idling/truck-idling.htm)
- Lee Slezak, DOE Advanced Vehicle Testing Activity
  - (202) 586-2335 or [lee.slezak@ee.doe.gov](mailto:lee.slezak@ee.doe.gov)
- Shelley Launey, DOE Clean Cities
  - (202) 586-1573 or [shelley.launey@ee.doe.gov](mailto:shelley.launey@ee.doe.gov)
- Diane Turchetta, Federal Highway Administration, Congestion Mitigation and Air Quality Improvement
  - (202) 493-0158 or [diane.turchetta@fhwa.dot.gov](mailto:diane.turchetta@fhwa.dot.gov)
- Paul Bubbosh, EPA SmartWay Transport Partnership
  - (202) 343-9322 or [bubbosh.paul@epa.gov](mailto:bubbosh.paul@epa.gov)

## *Thank you!*

- Lee Slezak- DOE Advanced Vehicle Testing Activity
  - Sid Diamond – DOE FreedomCAR and Vehicle Technologies
  - Frank Stodolsky and Terry Levinson– ANL
- 
- Contact: Linda Gaines
    - (630) 252-4919
    - [lgaines@anl.gov](mailto:lgaines@anl.gov)

