

# Idling Reduction Opportunities



## Strategic Planning Meeting

Washington, DC

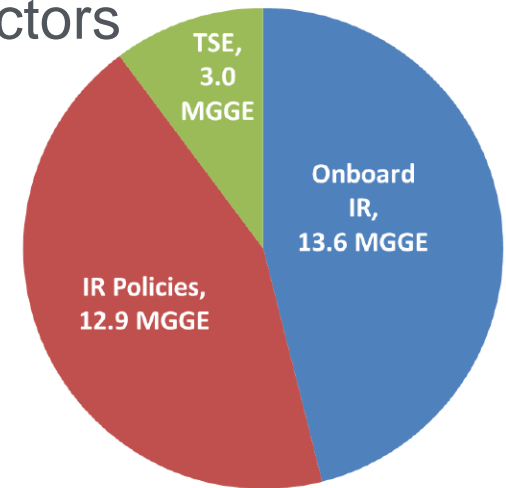
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Linda Gaines and  
Patricia Weikersheimer  
Argonne National Laboratory

# Idling road vehicles burn 6 billion gallons of fuel annually, getting 0 MPG!



- All vehicles—from cars to locomotives to cruise ships—idle
- Regulations limit idling in many states, counties, and municipalities
- Some idling is not necessary: Just turn it off!
- Some idling provides needed services: Perform the functions more efficiently using technology
- Idling reduction is a win-win proposition
- Outreach and education are needed for all sectors



Clean Cities IR Petroleum Reductions (2013)

## Clean Cities' IdleBox provides:

- Idling reduction cost savings calculator
- Presentation on idling reduction (IR) for fleets
- Presentation on IR for everyday drivers
- Presentation module on technology solutions
- Fact sheets, signage, and poster templates
- Pledge forms and policy templates
- Press release templates
- IdleBase, a database of idling regulations
- *National Idling Reduction Network News*
- Stickers



<http://www1.eere.energy.gov/cleancities/toolbox/idlebox.html>

# Good-fit niches provide examples



- Multiple options are available
- Optimal solutions depend on services needed, idling duration, routes, location, and regulations
- Technologies are evolving
- Clean Cities' tools can help inform potential users
  - IdleBox
  - AFDC site
  - Argonne web page

Vehicle Type	Suggested Approach or Technology	Petroleum Saving Potential (M GGE/y)
Personal vehicles	Turn the engine off	3000
School buses	Fuel-fired heater	150
Bucket truck	Workplace hybrid	76
Police car	Battery APU	574
Ambulance	Electrified parking space	152
Long-haul truck (North)	Diesel APU	495
Long-haul truck (South)	Electrified parking space	900

# Ambulances idle for long periods

- Need power for HVAC, medical equipment, and refrigeration of drugs
- Almost always exempt from idling regulations
- Wastes fuel and pollutes air intake to emergency rooms
- Alternatives available
  - Electrified parking spaces
  - Auxiliary power units

## ❖ Barrier: Initial cost

## ❖ South Shore Clean Cities manages BPCADER funding of 16 MediDocks at hospitals

## ❖ Opportunity: food trucks



MediDock window unit



- Provide information to new sectors
  - Workshops, webinars, and conference presentations
  - Technology showcases
  - Networking opportunities
- Obtain real-world performance and requirement information from stakeholders
- Provide data to labs for analysis
  - Case studies
  - Identify and resolve real-world deployment issues
  - Feedback loop results in improved outreach tools
- Help develop loan programs
  - Loans can be paid back with fuel savings and the \$ reused



# Thanks for listening!



- Linda Gaines [lgaines@anl.gov](mailto:lgaines@anl.gov)
- Patricia Weikersheimer  
[pweikersheimer@anl.gov](mailto:pweikersheimer@anl.gov)

**STOP Idling.  
START Saving.**

- IDLING IS EXPENSIVE >>>**  
up to a gallon of fuel per hour in most vehicles
- IDLING POLLUTES >>>**  
a gallon of fuel creates about 20 lbs. of greenhouse gases
- IDLING THREATENS HEALTH >>>**  
breathing vehicle emissions increases risk of respiratory illness

Idling uses more fuel than restarting your engine

- Idling wastes **6 BILLION GALLONS OF FUEL** each year in the U.S.

The Clean Cities logo is located in the bottom right corner of the poster, featuring the same stylized sun/gear icon and the text "Clean Cities" above "U.S. Department of Energy".