# STOP Idling. START $aving.

## What is Idling?

- When a vehicle is running for non-propulsion purposes, it is idling.
- **Examples**
  - ◊ Trucks idling while in queue
  - ◊ Vehicles waiting to load/unload passengers or goods, including:
    - ⇒ Delivery trucks
    - ⇒ Shuttle buses
    - ⇒ Taxis

## What vehicles Idle?

- **Light Duty**
  - ◊ Passenger vehicles including taxis, police cruisers, and some light trucks
- **Medium Duty**
  - ◊ Utility vehicles, delivery trucks, shuttle buses, and ambulances
- **Heavy Duty**
  - ◊ Long-haul trucks, tour buses, school buses

## When is Idling difficult to avoid?

- **Running emergency lights and other auxiliaries**
  - ◊ Emergency vehicles, utility vehicles
- **Powering HVAC**
  - ◊ All vehicle types, for operator and passenger comfort in extreme weather
- **Performing non-propulsion (PTO) work**
  - ◊ Bucket trucks, sewer-line maintenance trucks, wood chippers

Clean Cities
Sacramento
Clean Cities Coalition

## Why care about Idling?

- **Idling Is Expensive**
  - ◊ Idling a car wastes up to 0.5 gallons of fuel per hour
  - ◊ Idling a medium-duty truck wastes 0.4 to 0.6 gallons of fuel per hour
  - ◊ Idling in the U.S. uses more than 6 billion gallons of fuel at a cost of more than $20 billion EACH YEAR
  - ◊ Engine idling increases vehicle maintenance costs
  - ◊ Engine idling can shorten vehicle life
- ***Scenario: Fleet of 10 medium-duty trucks***
  - ◊ If each truck has ten 10-minute idling episodes per workday, using ~0.5 gal/hr[1], and fuel costs $3.50/gallon, the annual cost of idled fuel for the fleet is ***~$7,550***
- **Idling Pollutes**
  - ◊ Each gallon of fuel burned produces about 20 pounds of carbon dioxide, a greenhouse gas
  - ◊ Nationally, 27% of greenhouse gas emissions come from transportation
  - ◊ Pollution from motor vehicles contributes to the formation of ground-level ozone

## Idling: Quick Facts

- Idling in the U.S. uses more than 6 billion gallons of fuel at a cost of more than $20 billion *each year*
- Idling vehicles consume from 0.2 to 1+ gallons of fuel per hour
- Idling increases vehicle maintenance costs and can shorten engine life
- Each gallon of fuel burned produces about 20 pounds of carbon dioxide, a greenhouse gas

# STOP Idling. START $aving.

## How can you help reduce Idling?

- **Step 1: Be Aware**
  - ◊ Reducing idling saves money and protects the air
  - ◊ Turn off vehicles when not moving
  - ◊ Set policy to reduce unnecessary idling
  - ◊ Identify nonvehicle solutions when possible
  - ◊ Consider alternative power sources to provide necessary services
- **Step 2: Educate Drivers**
  - ◊ Inform your drivers about idling reduction.
  - ◊ Adopt an idling reduction policy
  - ◊ Host an idling reduction workshop for drivers
  - ◊ Post signs to remind drivers NOT to idle
  - ◊ Ask drivers to make a pledge to idling reduction
  - ◊ Offer incentives/rewards for idling reduction efforts
- **Step 3: Consider Technology**
  - ◊ Options to support your idling reduction efforts
  - ◊ Engine idle management systems
  - ◊ Heaters for cab and/or engine block
  - ◊ Auxiliary power systems
  - ◊ Electrified parking spaces

Clean Cities
Sacramento
Clean Cities Coalition

## Clean Cities can help!

- Idling reduction cost savings calculators
- Slide presentation on idling reduction
- Presentation modules on technology solutions
- Fact sheets, signage, and poster templates
- Pledge forms and policy templates
- Funding resources for idling reduction technologies

## Simple Ways to Reduce Fleet Costs

- In 2011, UPS reduced idling time in fleet vehicles, **saving 653,000 gallons of fuel**
- In 2011, Coca-Cola **saved more than 1 million gallons of fuel** over 2010 with automatic engine shut-down capabilities, along with other initiatives
- Staples has increased its **fleet's fuel efficiency by more than 20%** with automatic idle reduction and other strategies

## Contact Sacramento Clean Cities


- **President**, Keith Leech: leechk@saccounty.net, 916-875-5501
- **Vice-President**, Tim Taylor: ttaylor@airquality.org, 916-874-4814


**Visit www.cleancitiessacramento.org for more information on how you can implement idle-reduction initiatives, as well as the fuel and cost-saving benefits of idle reduction!**