

# GOAL

**Reduce Idling by 30%  
& 10% Reduction  
in Fuel Consumption**

**SITTING AROUND?**



**SHUT 'ER DOWN**

*IT ALL ADDS UP!*

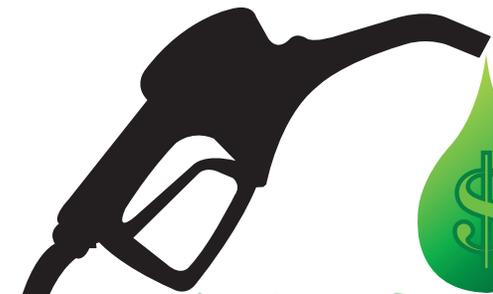
## **ALASKA DOT&PF Vehicle Fleet**

- Total # of vehicles = **2,937**
- Total # of trucks = **356**
- Total # of graders = **293**
- Total # of loaders = **247**
- Total gallons diesel per year = **2.7 million** at **more than \$10 million/year**
- Total # of light duty vehicles (SUV, car, pickup truck) = **890 light, 233 medium**
- Total gallons gas = **more than 300,000** gallons unleaded/year at a cost of **over \$1.3M**
- It's estimated that the department's 8-Cubic Yard trucks idle an average of **70,000 hours** per year. At \$4/gal, that equals **\$280,000** for one class of vehicle idling each year. A **30% idle reduction** equals more than **\$80,000 in fuel savings**.
- Heavy equipment preventative maintenance service schedules are based on hours – not miles. Excessive idle contributes to additional maintenance costs which can be significant for heavy equipment. A typical heavy equipment PM service costs **\$3,000**. Reducing idle time by **30%** will reduce the number of PMs on fleet vehicles and can save well over a **million dollars** a year.



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# IDLE FACTS

- Idling can use up to a gallon of fuel per hour.
- Unnecessary idling contributes to environmental problems such as poor air quality.
- Idling time of 3-5 minutes is all that is required to properly cool an engine after being under heavy load.
- Idling causes greater engine wear and tear over time, which results in higher maintenance costs.
- According to the American Trucking Association, such wear can increase maintenance costs by almost \$2,000 per year and shorten the life of the engine.

- Idling in Tier 3 or 4 diesel engines reduces the proper function of the emission control system and can cause filters to become plugged resulting in an expensive repair. Idling for more than 10 seconds uses more fuel than restarting your engine.
- Idling causes spark plugs to become dirtier more quickly. This can cause an increase in fuel consumption by 5%.
- Excessive idling lets water condense in the vehicle's exhaust system, which can lead to corrosion.

# MYTHBUSTERS

**Myth:** The engine should be warmed up before driving.

**Reality:** The best way to warm up your vehicle is to drive it gently. Even in cold weather, you need no more than 30 seconds (or just long enough to defog the windshield) of idling before driving your vehicle.

**Myth:** Idling is good for your engine.

**Reality:** An idling engine will leave soot deposits that can build up and cause oil contamination. This can damage engine components, including cylinders, spark plugs and exhaust systems. This is also true for diesel engines.

**Myth:** Shutting off and restarting your vehicle is hard on the engine and uses more gas than if you leave it running.

**Reality:** Frequent restarting has little impact on engine components like the battery and the starter motor. Component wear caused by very frequent restarting of the engine is estimated to add only \$10 per year to the cost of driving.

**Myth:** Remote control engine starters are great for warming your engine in winter.

**Reality:** Remote starters waste fuel. Plugging in an electric engine block heater on a timer so your car is ready when you come out saves fuel and doesn't wear your engine. If you must use a remote starter then turn it on only after your coat and boots are on and you have stepped outside.

**Myth:** Drive throughs are efficient ways to get your banking done and grab a coffee.

**Reality:** Any time your engine is idling, money and fuel are being wasted. Frequent restarting has little impact on engine components like the battery and the starter motor. Component wear caused by very frequent restarting of the engine is estimated to add a minuscule \$10 per year to the cost of driving.

