

# Idle Reduction

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## Idle Reduction

- Powers vehicle's electrical system while engine is shut off
- Currently, police vehicles are left idling while working major calls to power the emergency lights, in-car camera, computers, etc.
- Electronics must be rebooted when the power fails and a parasitic draw occurs when vehicles are not being used.

# Benefits of Idle Reduction

- Reduction in patrol fleet emissions
- Reduction in patrol fleet fuel cost
- Reduction in patrol vehicle battery replacement cost
- Improvements in patrol vehicles power management



# Idle Reduction Equipment Usage Data

Police Fleet Manager Magazine – Sept./Oct. 2010 Issue

- 1 gallon of gasoline is burned for every hour of idling
- Idling causes wear and tear on engine – increasing maintenance costs

## 2007 Dallas PD Test

- Idle reduction equipped vehicle relied on system for 4.85 hours of power per day
- Saved 3.5 gallons of gasoline per day - \$2500 in fuel savings cost per idle reduction equipped vehicle per year
- Eliminated 97 pounds of carbon dioxide per day per equipped vehicle - annual reduction of 30,000 pounds of carbon dioxide per vehicle per year





**Idle Reduction Unit Installed in Dallas PD  
Dodge Charger**



**Idle Reduction Unit Installed in Plano PD Tahoe**



**Side View of Unit Installed in Plano PD Tahoe**

# Background

- Collin County is a “non-attainment area” for meeting federal ozone standards
- Non-attainment areas are eligible for Local Initiative Project (LIP) funds administered by the Texas Commission on Environmental Quality (TCEQ)
- Collin County LIP funds can be used for law enforcement idle reduction technology
- Agenda Item for Idle Reduction Tonight



# Texas Commission on Environmental Quality Requirements

- Dollar for dollar match required – can be in-kind services (officer salaries and cost to install the equipment)
- Data collection capability in 25% of the vehicles – reports on carbon dioxide and nitrogen oxide reductions and associated fuel savings related to the technology



# Idle Reduction Plan

- Use Local Initiative Project funds to assist in purchase of 123 idle reduction units and 29 data collection units
- Cover match with in-kind services, the cost of installation and partial cash match on data collection units



# Funding Breakdown

	LIP Funds	In-Kind Service Match	Hard Cash Match	Totals
Idle Reduction Units	\$454,485			\$454,485
Installation Cost			\$60,885	\$60,885
Data Collection Units	\$23,055		\$15,375	\$38,430
Salaries		\$330,000		\$330,000
Benefits		\$99,000		\$99,000
Totals	\$477,540	\$429,000	\$76,260	\$982,800



# Idle Reduction Implementation

- Update policies to include when vehicle should be shut off and train officers on new equipment and policies
- Work with City Shop to monitor vehicle mileage and maintenance costs
- Monitor emissions through data collections systems

