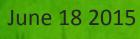


MediDock Anti-idling Kiosks

Telematics for monitoring & altering idling behavior

# Recent Idle Reduction Projects Implemented in NW IN

Deb Backhus South Shore Clean Cities & Legacy Environmental Services







#### **AIR QUALITY IMPROVEMENTS AT EMERGENCY ROOM ENTRY BAYS**

**THE PROBLEM** – diesel emissions from ambulances idling during patient drop off

Reducing
Emissions from
Ambulances at
Hospitals

**POTENTIAL SOLUTION** – MediDdock anti-idling technology for ambulances



MediDock Idle Reduction Kiosks will reduce exposure of infirmed patients (a sensitive population) and hospital personnel to diesel fumes during Emergency Room drop off and pick up

#### **Ambulance Idling & Critical Functions**

If the ambient temperatures are greater than 86 degrees, or below freezing the ambulances typically idle while completing paperwork, or during their stay at the hospital. This usually results in about 45 minutes or more of idling while parked at the hospital.

Idling is used to maintain the temperature inside the ambulance between 40 and 85 degrees. This is to keep drugs from becoming unusable due to temperature extremes.

Idling keeps medical equipment such as suction machines, EKG monitors, ventilators, IV warmers and refrigerator charged or plugged in.

Idling provide electrical power to keep the engines batteries at maximum capability for immediate starting.

#### **MediDock Functions to Enable Idle Reduction**



Kiosks provide a power source for emergency vehicles battery operated systems to maintain critical functions with their engines turned off

Duct connection keeps the vehicle warm in winter and cool in summer to maintain a stable interior environment

External kiosk power source maintains continual operation of all necessary equipment



#### FRANCISCAN ALLIANCE - HAMMOND, DYER AND CROWN POINT

#### SEVEN MEDIDOCK KIOSKS INSTALLED



Will aid in reducing idling during 21,000 ambulance drop off per year across

> 1700 gallons/yr fuel savings anticipated

Diesel Emission Reductions





#### **METHODIST HOSPITALS – NORTHLAKE (GARY) & SOUTHLAKE (MERRILLVILLE)**

#### FOUR MEDIDOCK KIOSKS INSTALLED



Will aid in reducing idling during ~ 19,000 ambulance drop off per year across

> 1600 gallons/yr fuel savings anticipated

Diesel Emission Reductions



### COMMUNITY HEALTHCARE SYSTEM – ST. MARY MEDICAL CENTER, HOBART, IN, COMMUNITY MUNSTER & ST. CATHERINE

## TWO MEDIDOCK KIOSKS INSTALLED 2 – 3 IN PROCESS



Will aid in reducing idling during > 21,000 ambulance drop off per year across

> 1900 gallons/yr fuel savings anticipated

Diesel Emission Reductions





#### **BP-CADER/ DIESELWISE HOSPITAL PROJECTS DISTINCTION**

BEYOND THE PUBLIC HEALTH AND EMISSION REDUCTION BENEFITS

Making a difference at Lake County Hospitals

ONCE THESE FOUR PROJECTS ARE IMPLEMENTED

LAKE COUNTY WILL HOLD THE DISTINCTION OF HAVING MORE MEDIDOCKS THAN ANY OTHER COUNTY IN THE USA!!!





#### **RESULT** –

NO tailpipe emissions during post patient drop off as the engine can be shut off

Improved air quality for patients/sensitive populations and staff

Noise reduction

Fuel savings

#### **LAKE COUNTY SCHOOLS**

**THE PROBLEM** – diesel emissions from school buses in the vicinity of school children

Reducing Emissions from School Buses THE SOLUTIONS —

Fuel reduction and resulting emission and cost reductions via monitoring idling and optimizing routes using telematics



Emission reduction during colder months using bus heaters instead of extensive idling to warm up buses

**Telematics & Bus Heaters,** to reduce diesel emission exposure to school children (sensitive populations)

#### **IDLE REDUCTION OPTIONS: TELEMATICS**

#### Telematics inform manager about detailed trip history

Inform and modify behavior through Telematics

Idling is not reduced, but this tool targets instances where idling occurs

#### **GPS**

 Enables route planning to minimize wasted time



#### **Engine Control Module**

Can transmit information about trip history that identifies idling behavior

## **EXAMPLE PROJECTS AND BENEFITS - TELEMATICS**Idle and Fuel Reduction Technologies

#### Sacramento, CA

Telematics: tracking to reduce idling and fuel consumption

400 vehicles outfitted with electronic fleet management products to

- optimizes vehicle routes
- monitors vehicle performance,
- identify opportunities for improvements in driver behavior
- ☐ streamline the pre- and post-trip inspection process

Savings based on a sample of 184 vehicles indicates savings in excess of \$60,000 a month in fuel costs alone

Telematics system paid for itself in just two months!







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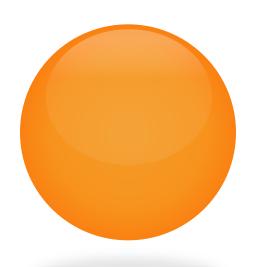
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