Mobile Source Pollution Reduction Success Stories

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Ambulance Anti–Idling Kiosks

In 2013, Frisbie Memorial Hospital, Rochester, NH, was awarded $19,000 in DERA funds to install two "MediDock" ambulance anti-idling kiosks. Ambulances often idle for extended periods in order to keep electronic medical devices charged and to keep patients and pharmaceutics at proper temperature. Ironically, ambulances often idle directly outside emergency rooms where their emissions can affect patients. In the first year after being installed, the kiosks were used for a total of 3,516 hours. These two kiosks were installed as demonstrators for other hospitals and shortly after their installation, Lakes Region General Hospital applied for similar DERA funding and installed two kiosks outside their emergency room.

Lifetime Emission Reductions (pounds)

Pollutant	NO_X	PM	CO_2	Total Reduction
Emission Reduction	28.7	17.8	45.3	69.4

Vermont

Idle Reduction Technology for Emergency Response Vehicles

DEC used DERA funds to develop and implement a project for the installation of 4 shore power-type electrification "kiosks" at two Vermont hospitals to power onboard equipment and provide cabin climate control for emergency-response vehicles and help reduce exposure of sensitive populations to harmful diesel exhaust. As a first deployment of this idle reduction technology, the project serves as a demonstration for other hospitals in improving local air quality, reducing potential exhaust infiltration of hospital buildings, reducing greenhouse gas emissions, and increasing the energy efficiency of emergency services. Through the deployment of this technology at two hospital campuses, an estimated 83,950 gallon reduction in diesel fuel consumption will also be achieved.

Total cost: $123,000

Lifetime Emission Reductions (tons)

Pollutant	NO_X	PM	HC	CO	CO_2	Total reduction
Emission Reduction	25.3	0.7	0	0	931.8	957.9