

# Automatic Dumpster Locks Cut Tons of GHG by Eliminating Truck Idling Time

## Old Locking Method

(Per Dumpster Per Year)

|                          |          |
|--------------------------|----------|
| Needless Truck Idle Time | 5.2 hrs. |
|--------------------------|----------|



- Driver leaves truck idling to get out two times, once to unlock and again to relock the dumpster.
- Up to 6\*\* minutes of needless idling each time—5.2 hours per dumpster per year!

### Overall Impact

- Thousands of manually padlocked dumpsters are in every city—meaning tons of GHG can be eliminated in every city every year
- The Serio-us Lock further reduces GHG emissions by lightening loads and reducing the number of trips to the dump

|                         |            |
|-------------------------|------------|
| GHG per 1,000 Dumpsters | 49.48 Tons |
| Needless GHG per City   | 383 Tons   |

## New Serio-us Lock Method

(Per Dumpster Per Year)

|                          |        |
|--------------------------|--------|
| Needless Truck Idle Time | 0 hrs. |
|--------------------------|--------|



- The Serio-us Automatic lock opens automatically so the driver does not have to leave the truck
- Completely Eliminates Needless Idling

Opens Automatically



Just Pull up...

...Dump...

...and go!

|                         |        |
|-------------------------|--------|
| GHG per 1,000 Dumpsters | 0 Tons |
| Needless GHG per City   | 0 Tons |

For more information, call Jay Leshefsky

1-800-245-6251



**Total GHG that can be eliminated in every major U.S. city every year!**

## GHG Elimination from Switching to the Serio-us Lock from a Manual Padlock

| Pollutant Type                   | Lbs reduction <i>per 1,000 dumpsters per year</i> | Tons reduction <i>per 1,000 dumpsters per year</i> | Tons reduction <i>per city per year (avg. 7,500 padlocked dumpsters)*</i> |
|----------------------------------|---|--|---|
| Carbon Dioxide (CO2)             | 98,960  | 49.4800000000                                      | 371   |
| Nitrogen Oxides (NOx)            | 1626.431718                                       | 0.81321585900                                      | 6.099118943   |
| Carbon Monoxide (CO)             | 1080.088106                                       | 0.54004405300                                      | 4.050330398   |
| Particulate Matter (PM)          | 38.71365639                                       | 0.01935682820                                      | 0.145176211   |
| Hydrocarbons (HC)                | 389.4273128                                       | 0.19471365640                                      | 1.460352423   |
| Volatile Organic Compounds (VOC) | 143.7444934                                       | 0.07187224670                                      | 0.53904185  |
| <b>Total GHG Reduction</b>       | <b>102,238</b>                                    | <b>51.11920264330</b>                              | <b>383</b>  |

Sources: Emission Facts (EPA 4/98); Draft Analysis of Heavy-Duty Diesel Vehicle Idle Emission Rates (EPA 11/03); Guidance for Quantifying and Using Long Duration Truck Idling Emission Reductions in State Implementation Plans and Transportation Conformity (EPA 1/04); Draft User's Guide to Part5: A Program for Calculating Particle Emissions from Motor Vehicles (EPA); James A. Calcagno, III, Evaluation of Heavy-Duty Diesel Vehicle Emissions During Cold-Start and Steady-State Idling Conditions and Reduction of Emissions from a Truck-Stop Electrification Program (Dissertation, December 2005)

\* Based on Serio-us Lock experience in each major city (100,00+ population) there are 10 haulers with 500 to 1,000 padlocked dumpsters providing a range of 5,000 to 10,000 dumpsters and an average of 7,500.

\*\* Based on informal polling by Serio-us Lock over 18 years.