




# Our CNG Journey


# Guard Contracting Background

- ▶ Waste Hauling Company
  - ▶ 13 Dumpster trucks
  - ▶ Over 350 dumpsters
  - ▶ 4 tractors
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# Obstacles

- ▶ Vehicle Cost
  - ▶ Proximity of fueling stations
  - ▶ Performance horsepower (CNG only)
  - ▶ Increase vehicle weight
    - New FAST ruling increase GVW limits
  - ▶ Room for tanks on trucks
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# Once Upon A Time...


- ▶ Fuel costs we over \$4 per gallon
  - ▶ Lots of internet searching (2010)
  - ▶ New Trucks are expensive (\$100K–\$300K)
  - ▶ We discovered dual fuel conversion (2012)
  - ▶ National Fuel had a CNG station
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# Duel Fuel Costs

- ▶ Injection Unit – \$2000
- ▶ Tanks – \$8,000
- ▶ 6 trucks
- ▶ 2 tractors



# Results

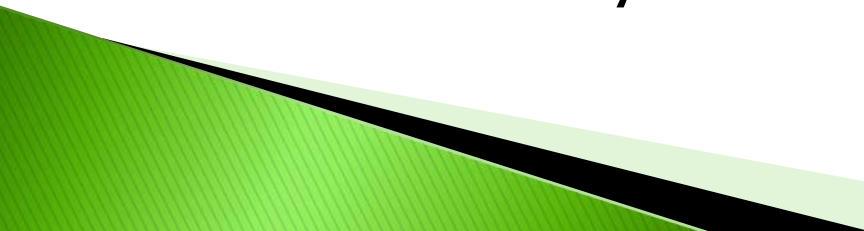
- ▶ Consume less diesel fuel @ \$4 per gal
  - ▶ Total miles per gallon increased over 50%
  - ▶ Increase in power with hook lift system
  - ▶ ROI was less than 1 year
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# Dedicated CNG

- ▶ Found used vehicles with low miles
- ▶ Vehicle modifications for our use
- ▶ 5 trucks



# Results – Improves emissions

- ▶ Reducing carbon dioxide (CO<sub>2</sub>) emissions by 20% to 30%
  - ▶ Reducing carbon monoxide (CO) emissions up to 75%
  - ▶ Reducing nitrogen oxide (NO<sub>x</sub>) emissions by approximately 50%
  - ▶ Reducing up to 95% of particle matter (PM) emissions
  - ▶ Reducing volatile organic compound (VOCs) emissions by 55%
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# Nexus Natural Gas



# Partners

- ▶ Chris Guard      Guard Contracting Corp      13 truck Fleet
  - ▶ Tony Pariso      Pariso Logistics      30 truck fleet
  - ▶ Joe Berti      Speed Logistics      40 truck fleet
  - ▶ Todd Levin      Niagara Metals      8 truck fleet
  - ▶ Swede Oun      O&K Truck Repair
  - ▶ Ken Rawe      Swift River      4 trucks
  - ▶ John Hannon      Triad Recycling & Energy
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