



DARLING TRANSPORTATION ENERGY SOLUTIONS

Natural Gas Vehicle Energy Solutions

Implementing a strategic plan to reduce operating costs and relieve our dependence on foreign energy sources while reducing harmful emissions!



DARLING TRANSPORTATION ENERGY SOLUTIONS

Why Natural Gas? It's the 3 E's

ENERGY INDEPENDENCE, ECONOMICS & THE ENVIRONMENT!

- ❑ Natural Gas is domestic and renewable relieving our dependence on foreign crude oil
- ❑ Natural Gas is cost effective, generally about \$1.50 per gallon cheaper than gasoline or diesel fuel
- ❑ Natural Gas is Safe!!! Natural gas is lighter than air so it dissipates and has a narrow ignition range
- ❑ Natural gas is efficient, fuel mileage should increase at least 20%
- ❑ Natural Gas is among the best solutions for clean air and clean water



DARLING TRANSPORTATION ENERGY SOLUTIONS

Dispelling the primary Myths

- Natural Gas infrastructure does not have to be prohibitively expensive.
- Natural Gas can be available anywhere!
- Natural gas vehicles are less efficient and hard to maintain.
- Natural gas infrastructure is unreliable.



DARLING TRANSPORTATION ENERGY SOLUTIONS

Various Station Models

- Small scale stations for small fleets.
- Medium scale stations for medium fleets.
- Large scale stations for larger fleets.
- All stations are expandable.
- All stations have redundancy and emergency preparedness.



DARLING
TRANSPORTATION
ENERGY
SOLUTIONS

Typical 'Low Volume' Compressor Station

Storage

Dispenser

Compressor





DARLING TRANSPORTATION ENERGY SOLUTIONS





DARLING
TRANSPORTATION
ENERGY
SOLUTIONS

LCNG for Combination or High Volume





DARLING
TRANSPORTATION
ENERGY
SOLUTIONS

Why LNG ?

- ✓ LNG allows liquefaction from pipeline or other stranded sources for transport to locations without pipeline access.
- ✓ LNG can substitute or supplement compressors reducing downtime.
- ✓ LNG is mandatory for all 15 liter and larger engines for over the road and off road use.



DARLING TRANSPORTATION ENERGY SOLUTIONS

Time Fill can reduce labor costs





DARLING TRANSPORTATION ENERGY SOLUTIONS

Process?

❑ **Fleet Evaluation –**

We examine your fleet needs, age of fleet, miles driven & fuel consumed...

❑ **Vehicles –**

- We help you identify priority vehicles for conversion or replacement with natural gas.

❑ **Infrastructure –**

- We look for opportunities to build fuel infrastructure to support your normal operations.

❑ **Support -**

- We provide education and training to employees and public officials.



DARLING
TRANSPORTATION
ENERGY
SOLUTIONS

THANK YOU!!!

Joe Darling

Darling Transportation Energy Solutions
Niskayuna, N.Y.

darlingtrans@gmail.com

Phone 518-461-2641