

Business Impact of Swagelok Custom Solutions on Green Alternative Systems



Green Alternative Systems (GAS)



#1
Bus/CNG
dealer in USA

1000+
Vehicle conversions
in 2015

Certified
ISO, CARB, EPA &
ASE (Automotive
Service Excellence)

Partner
Ford QVM
(Qualified Vehicle
Modifier)

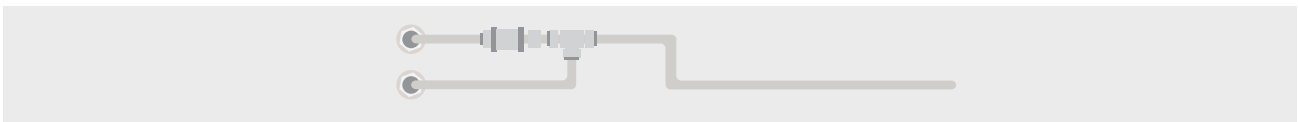
CNG / GAS Advantage

\$1.08
the avg. CNG price per gallon in USA.

15 - 50%
more cost effective than gasoline

>50%
savings over current prices in USA
with G.A.S modifications

Swagelok + GAS = Savings + More Savings



6 year
CS collaboration
(50-75% of their annual production)



5 chassis
configurations



3 prototype
designs



300+ hours
engineer assistance + design support



3 assemblies
fueling / de-fueling boxes,
CNG fuel lines,
pressure relief devices (PRD)



6000+
CNC tube bends



750 units
converted in 2015



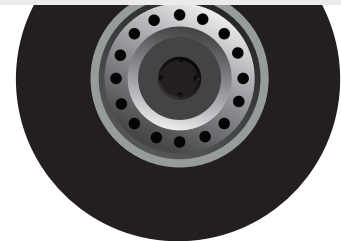
75% reduction
in production time
16 man hours to 4 man hours



\$224,000
reduction in labor cost



\$62/hour savings
because of pre-assembly &
fabrication



\$1.3M
reduction in production
costs over 5 years

