



# E85 Flex Fuel for Fleets: *The Process & Savings*





900 Broken Sound Parkway, Suite 175  
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Phone 561-392-3667  
[www.protecfuel.com](http://www.protecfuel.com)

# Who is Protec Fuel?

Protec Fuel is a turnkey alternative fuel provider specializing in complete gasoline fleet fueling programs. We handle all aspects of the fuel program including:

- Supply and logistics of E10, E15 & E85 Gasoline along with ULSD
- Pricing: full year or spot price
- Fueling equipment
- References to other government fleet RFP's
- Petroleum displacement and emission reduction



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# E85 Fuel for Fleets

- E85 has grown significantly since its debut in 1995
- There are 4,400 stations offering E85 today. 200+ new stations 2016
- More than 50 million flex-fuel vehicles (FFVs) can use it and the number grows each day
- 40% of all vehicles produced by the Detroit big 3 are FFVs, more companies coming to the table

# E85 Environmental Benefits

- Ethanol has characteristics that make it highly attractive as the source of octane in a high-octane fuel
- Significantly increases RON (95-102)
- High heat of vaporization/charge cooling effects
- Lower CO<sub>2</sub> emissions at part-load
- Reduces toxins emissions (benzene & 1,3-butadiene)
- Reduces PM, reduces RVP (vs. E10)

See:

- *Stein et al/SAE Int. J. Engines/Volume 6, Issue 1 (May 2013);*
- *J.E. Anderson et al. "High Octane Number Ethanol-Gasoline Blends: Quantifying the Potential Benefits in the United States," Fuel 97:585-594, 2012*

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# Our Customer Profile

Protec provides energy risk management, fuel supply, and distribution to customers with energy price exposure.

Logistics and Price Risk Management

Convenient Store Chains  
Grocery Store Chains  
U.S. Military  
Municipalities

E85 Station  
Conversion  
And Supply

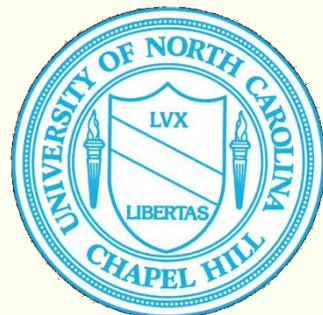
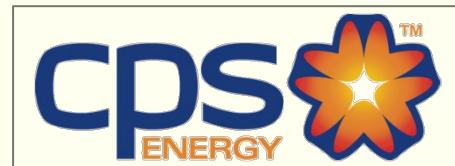
Manufacturing Companies  
Transportation Fleets

Diesel,  
Gasoline,  
and DEF



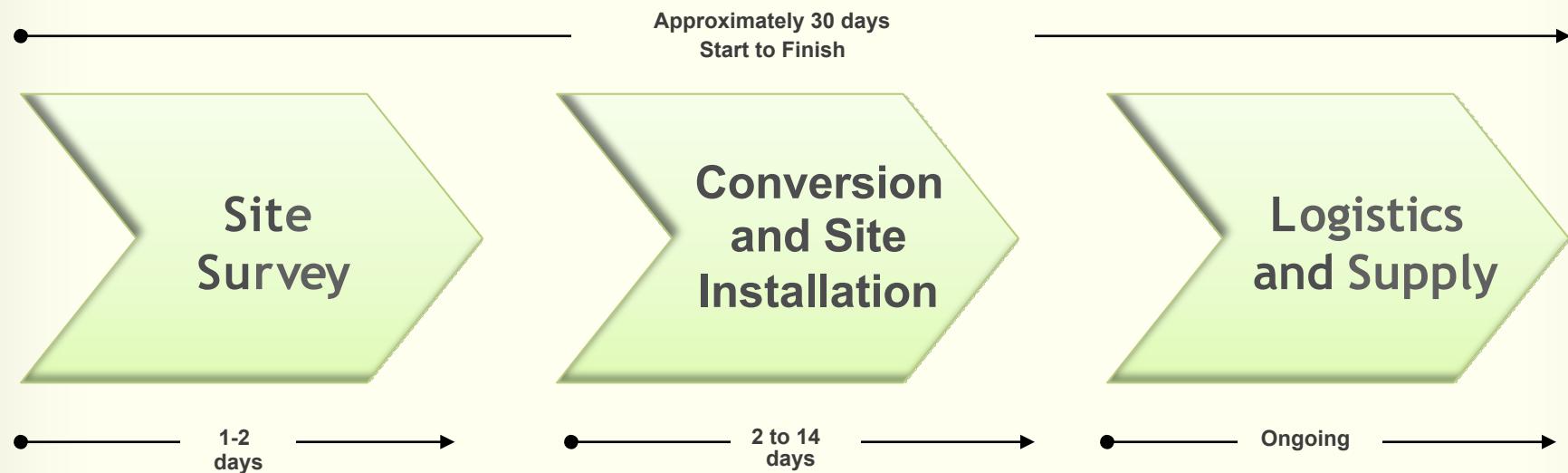
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# E85 Customers



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# Protec's Turnkey Program Makes E85 Fleet Fueling Simple



*Protec provides turn-key solutions for E85 Fleets*



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# Fleet Equipment Options

**Retrofit existing  
dispensers and  
Storage tank to E85  
capability**

**Existing site with new  
equipment**

**New site with new  
equipment**

**No cost to the fleet  
operator (with min.  
Contract volume)**



# Fleet Equipment Options



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# Fleet Equipment Options



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# Summary of Benefits

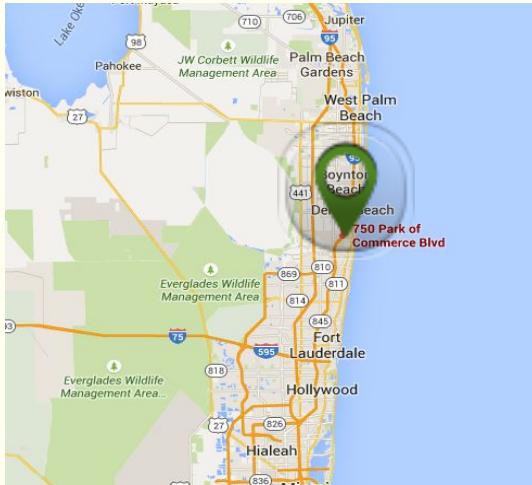
- ✓ Public / Private Venture
- ✓ Reduction of GHG Tailpipe Emissions
- ✓ Increased Performance (104 Octane)
- ✓ Cost Savings of \$.25 to \$.50 Cents/Gallon

Below Regular Gasoline



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