

## **Final Technical Report**

**Project Title:** Storage Tanks and Dispensers for E-85 and Biodiesel

**Award Number:** DE-EE0000808

**Recipient:** Forest Preserve District of DuPage County

**Project Location(s):** 29W220 Mack Road, West Chicago, IL

**Project Period:** 09/01/2010 – 11/30/2013

**Date of Report:** 02/10/2014

**Written by:** Michael Webster, CAFM

**Program Manager:** Stephanie L. Sung

**Principal Investigators:** Justin Frederick

**Subcontractors:** Integrity Environmental Services, Inc.  
Engineering Resource Associates, Inc.  
Crowne Industries, Ltd.

**Cost-Sharing Partners:** US Department of Energy  
Forest Preserve District of DuPage County

**DOE Project Team**

**DOE-HQ contact:** NA

**DOE Field Project Officer:** Stephanie Sung, (720) 356-1792, [stephanie.sung@go.doe.gov](mailto:stephanie.sung@go.doe.gov)

**DOE Contract Specialist:** Stephen Hockett, (720) 356-1308, [stephen.hockett@go.doe.gov](mailto:stephen.hockett@go.doe.gov)

**DOE Project Engineer:** NA

---

*Acknowledgment:* This material is based upon work supported by the Department of Energy under Award Number DE-EE0000808

*Disclaimer:* This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

## Executive Summary:

The Forest Preserve District of DuPage County, Illinois Board of Commissioners approved a Policy initiative stating that, “The District achieve a 100% utilization of alternative fuels by replacing the existing 161 vehicles with applicable technology within the next ten year cycle of replacement and seek funding of all related alternative fuel infrastructure costs including fueling stations, engineering, contract management, and educational training.” This policy statement for the District defined the commitment toward alternative fuels.

In September of 2009, the District received grant funding from the US Department of Energy’s Office of Energy Efficiency and Renewable Energy to design and construct alternative fuel storage tanks and dispensers for E-85 and Bio-Diesel. The grant funding was used for this purpose and in August of 2013 the alternative fuel site at the District’s Blackwell Forest Preserve Maintenance Complex was completed. With the completion of this site, the Forest Preserve District of DuPage County has Illinois’ only two fuel sites with four different alternative fuels – E85, B20, CNG, and LPG.

The USDOE grant was a 50% cost-share grant in which the District shared in all costs associated with the project. The project was completed as originally planned with no variations. The grant funding provided the necessary subcontractors for the project to include an environmental engineering consultant, structural engineering consultant, and construction contractor. The alternative fuel sites of the Forest Preserve District of DuPage County are shared with other local governmental agencies through written intergovernmental agreements. This allows other agencies to expand their own alternative fuel programs without the upfront cost of the associated infrastructure.

The completion of the Forest Preserve District of DuPage County’s alternative fuel site funded by the USDOE grant helped to improve the District’s alternative fuel infrastructure by making E85 and Bio-Diesel fuel available to the western half of the County. This station will promote our alternative fuel program and provide strong intergovernmental cooperation. In addition, the site reduces the District’s dependency on foreign oil, while promoting the use of clean burning, domestically produced, renewable alternative fuels.