

Applicant Name: The University of Tennessee at Knoxville (UT) Institute for a Secure and Sustainable Environment (ISSE)

Project Principal Investigator: Jonathan G. Overly

Project Title: I-75 Green Corridor Project

Project Objectives: The overall objective of the project is to increase the availability of E85 ethanol and B20 biodiesel to the public and fleets along and within 3 miles of the I-75 interstate corridor so that a driver of a flex-fuel vehicle (FFV) or diesel vehicle can traverse the entire corridor and find their alternative fuel every 200 miles or less. This includes traveling from I-75's northern terminus in Sault Ste. Marie, Michigan to its southern terminus in Hialeah, Florida, a suburb of Miami. The individual objectives are:

- ▶ Add at least 10 more public E85 pumps, and 15 more public B20 pumps at stations along I-75;
- ▶ Displace almost 1.78 million gallons of petroleum per year;
- ▶ Have 6,800 FFVs and 4,300 diesels refueling on biofuels at these stations monthly;
- ▶ Increase awareness about these stations with local fleets and corridor travelers, and increase awareness for the need to use more of these biofuels in our communities along I-75; and
- ▶ Develop a Website that will detail information for not just the biofuels E85 and B20 but all of the alternative fuels that are publicly available and within 3 miles of the corridor (including biodiesel, electricity through truck stop electrification, ethanol, natural gas and propane).

Project Description: Grant funds will be used to reimburse station owners for installing new refueling equipment and/or upgrading current equipment to sell E85 and/or B20. The major participants/partners, or "Corridor Leaders," will help the station owners in a number of ways include with technical assistance and in marketing the stations to fleets and the motoring public. The UT ISSE and project management partner the East Tennessee Clean Fuels Coalition will administer the grant on behalf of the partners. Through this partnership, the Corridor Leaders have already identified 9 stations that have agreed to sell B20, E85 or both along I-75, and are requesting funding to locate another 13 stations during the next year. That will be an addition of 22 biofuel stations (25 biofuel pumps) added along this corridor created through the project, if funded. This is significant along a major U.S. corridor that only has (as of 3/16/09) 24 E85 and 6 B20 stations that are within that 3-mile range of I-75. The above noted objectives will be achieved through on-going communication and coordination between the Clean Cities coalitions in each state, the other Corridor Leaders and other major state agencies, state petroleum marketer associations, state agricultural agencies/associations and fuel providers among others. \$730,000 in grant funds will go to pay for E85 and B20 infrastructure while station owners will contribute \$852,000 in cost share (54%).

Project Impacts (benefits, outcomes): This project will have a significant impact on petroleum use in our states and along I-75 (total length is 1,786 miles). We estimate:

- ▶ 123,000 gallons of E85 used per month; 218,000 gallons of B20 used per month
- ▶ Have 6,800 FFVs and 4,300 diesels refueling on biofuels at these stations monthly
- ▶ Assuming a 20-year lifespan for the pumps and the targeted sales as an annual average, displace over 35 million gallons of petroleum over such a period

Major Participants, "Corridor Leaders," listed north to south: Michigan's Clean Energy Coalition, Clean Fuels Ohio, Kentucky Clean Fuels Coalition, The University of Tennessee at Knoxville and the East Tennessee Clean Fuels Coalition, Middle Georgia Clean Cities, Atlanta's Center for Transportation and the Environment (working as a partner to Clean Cities-Atlanta), Space Coast Clean Cities Coalition, Florida Gold Coast Clean Cities Coalition