

**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-40 Transcontinental 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 the I-40 interstate corridor from Barstow, California at its western terminus to Wilmington, North Carolina at its eastern terminus. Grant funds will be used to reimburse station owners for installing new refueling equipment and/or upgrading current equipment to sell E85 and 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 public. The UT ISSE and project management partner the East Tennessee Clean Fuels Coalition will administer the grant on behalf of the partners. The specific objective of the project is to make E85 and B20 publicly available and close to I-40 (within 3 miles) to add to the ability of flex-fuel and diesel vehicle drivers to find their biofuel roughly every 300 miles along I-40. We will do the following through this project:

- ▶ Add at least 11 more public E85 pumps, and 9 more public B20 pumps at stations along I-40
- ▶ Displace over 1.3 million gallons of petroleum per year
- ▶ Increase the number of vehicles using biofuels
- ▶ Increase awareness about these stations with local fleets and corridor travelers
- ▶ Increase awareness for the need to use more of these biofuels in our communities along I-40

**Project Description:** Through this partnership, the Corridor Leaders have already identified 4 stations that have agreed to sell B20, E85 or B20 and E85 along I-40, and are requesting funding for another 15 stations during the next year. That will be an addition of 19 biofuel stations (20 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) 10 E85 and 15 B20 stations that are within that 3-mile range of the interstate. 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, our numerous other project partners, other major state agencies, state petroleum marketer associations, state agricultural agencies/associations and fuel providers. \$683,750 in grant funds will go to pay for E85 and B20 infrastructure while station owners will contribute \$735,529 in cost share (52%).

**Project Impacts (benefits, outcomes):** This project will have a significant impact on petroleum use in our states and along I-40 (total length is 2,559 miles). We estimate:

- ▶ 117,000 gallons of E85 used per month; 67,000 gallons of B20 used per month
- ▶ Have 4,350 FFVs and 1,700 diesels refueling on biofuels at these stations monthly
- ▶ At least 1.35 million gallons of petroleum displaced each year, on average

**Major Participants, “Corridor Leaders,” listed west to east:** Southern California Association of Governments Clean Cities Coalition, Valley of the Sun Clean Cities Coalition, Land of Enchantment Clean Cities Coalition, Texas State Energy Conservation Office, Central Oklahoma Clean Cities, Central Arkansas Clean Cities, Clean Cities of Middle Tennessee, The University of Tennessee at Knoxville and the East Tennessee Clean Fuels Coalition, North Carolina Solar Center at NC State University, Triangle Clean Cities Coalition