National Center for Sustainable Transportation

Project Information Form

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| Project Title | Designing and Analyzing Policies for Renewable Fuels |
| University | University of California at Davis |
| PI | C.-Y. Cynthia Lin Lawell |
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| Funding Source(s) and Amounts Provided (by each agency and organization) | USDOT - $64,621.31 |
| Total Project Cost | $103,573.65 |
| Agency ID or Contract Number | DTRT13-G-UTC29<br>Project # UCD-DOT-210 |
| Start and End Dates | 10/1/2015-9/30/2017 |
| Brief Description of Research Project | Federal and state policies to reduce greenhouse gas emissions in the transportation sector utilize several alternative policies to traditional pollution taxes and cap and trade programs. The programs aim to increase the utilization of clean, renewable fuel sources in the production of finished motor gasoline. Many of the policies currently in place and being proposed at the state and national level involve some variant of a mandate with the option for flexibility by allowing firms to generate and purchase credits for over- and under- consumption of clean inputs. The two most prominent policies in place in the United States are the Renewable Fuel Standard (RFS) at the national level and California's Low Carbon Fuels Standard (LCFS). Both policies are currently undergoing large changes, and major amendments to the programs are expected in the coming year. In addition to the RFS, the development of the fuel ethanol industry in the U.S. has also historically been accompanied by government subsidies. Our proposed research seeks to provide a timely and policy relevant examination of the economics of these polices, the effects and effectiveness of various amendments to the programs, and the historical cost of these policies to the fuel industry. |
| Describe Implementation of Research Outcomes (or why not implemented) (Attach any photos) | |
| Impacts/ Benefits of Implementation (actual, | |

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| not anticipated) | |
| Web Links<br>• Reports<br>• Project website | https://ncst.ucdavis.edu/project/designing-and-analyzing-policies-for-renewable-fuels/ |