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| UTC Project Information | |
| Project Title | Locational Marginal Emission Evaluation for Electric Vehicle Charging Facility Planning |
| University | The University of Texas at El Paso |
| Principal Investigator | PI: Yuanrui Sang  Co-PI: Ivonne Santiago |
| PI Contact Information | Yuanrui Sang: ysang@utep.edu  Ivonne Santiago: isantiago@utep.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTEEH):  CARTEEH: $75,000  Other Sources: $37,500 |
| Total Project Cost | $112,500 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | February 1, 2021 – July 31, 2022 |
| Brief Description of Research Project | The overarching goal of this project is to develop a framework for hazardous gas LME evaluation and EV environmental impact mitigation. The framework will include an accurate LME evaluation model for hazardous gases, such as SO2 and NOx, and an optimization model to identify EV charging facility locations that will minimize hazardous gas emissions. This framework will provide guidance for infrastructure planners so that they can keep public health in mind and choose low-emission locations for EV charging facilities. The project includes two objectives:   1. Develop an accurate hazardous gas LME evaluation model for power systems. 2. Develop a model to analyze and mitigate the impact of EV charging on hazardous gas emissions from power systems. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here |  |
| Impacts/Benefits of Implementation (actual, not anticipated) |  |
| Web Links   * Reports * Project website |  |