|  |  |
| --- | --- |
| UTC Project Information | |
| Project Title | Assessing Roles of Inductive Opportunity Charging in Battery Electric Truck Operations based on Real-World Truck Activity Data |
| University | University of California at Riverside |
| Principal Investigator | Dr. Kanok Boriboonsomsin |
| PI Contact Information | kanok@cert.ucr.edu |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTEEH):  CARTEEH: $160,000  Other Sources: $0 |
| Total Project Cost | $160,000 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | April 1, 2021 to July 31, 2022 |
| Brief Description of Research Project | The goal of this project is to assess the roles of inductive charging in improving the operation of battery electric trucks (BETs), with a focus on those in drayage application at the Ports of Los Angeles and Long Beach. The assessment will be based on real-world activity data of heavy-duty trucks from multiple fleets that perform drayage operation at the ports. Specifically, the project team will analyze the potential for wireless opportunity charging while BETs are queuing at terminal gates at the Ports of Los Angeles and Long Beach, and evaluate how much the energy gains from such wireless charging can help increase the number of trips and tours that can be performed if the current diesel trucks are turned over to BETs. |
| Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here | N/A |
| Impacts/Benefits of Implementation (actual, not anticipated) | N/A |
| Web Links   * Reports * Project website | N/A |