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| UTC Project Information | |
| Project Title | Port Houston Electrification Feasibility and Benefit Analysis Using TEMPO |
| University | Texas A&M Transportation Institute |
| Principal Investigator | Ann Xu |
| PI Contact Information | [Texas](mailto:y-xu@tti.tamu.edu) A&M Transportation Institute  1111 RELLIS Parkway  Bryan, Texas 77807  Email: y-xu@tti.tamu.edu  Phone: |
| Funding Source(s) and Amounts Provided (by each agency or organization) | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTEEH): $105,000 |
| Total Project Cost | $105,000 |
| Agency ID or Contract Number | 69A3551747128 |
| Start and End Dates | 9/1/2020 – 08/31/2022 |
| Brief Description of Research Project | Fleet electrification plays an important role in achieving regional climate and air quality goals. As the largest port on the Gulf Coast, Port Houston (POH) provides the great potential of fleet electrification due to its high truck volume and equipment movements each day. The goal of this study is to assess the feasibility of truck fleet and equipment electrification at POH. The electrification feasibility includes two aspects (1) the technological and operational barriers of electrification; (2) the fleet-wide benefits of electrification. Furthermore, this study will improve modeling capabilities related to port operations and emissions. Finally, this study will also collect cargo handling equipment data from POH to expand the feasibility analysis to include more fleets. |
| 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 |  |