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| **Houston Hydrogen Transportation Pilot** |
| Sponsor | Department of Energy |
| Investigators | Raghava Kommalapati (PVAMU PI) with Ehlig-Economides (UH lead) |
| Project Dates | TBD |
| Amount Awarded | $795,000 (PV Budget $100,000)  |
| Project Description: |
| The overall objective for this project is to lay the groundwork essential to implementing a hydrogen refueling pilot demonstration for the Greater Houston area (GHA). To be cost-effective, we plan to demonstrate the potential for repurposing existing infrastructure to provide profitable zero-emission transportation fueled by low carbon intensity hydrogen (LCIH) and its positive workforce development and community impacts for the GHA We propose two project phases, each for one project year. The objective of the first project phase is to develop a geographic information system (GIS) application to facilitate optimization of LCIH fuel supply and demand options, apply it to data gathered for a GHA hydrogen (H2) transportation pilot demonstration, and evaluate specific environmental and community risks the LCIH refueling pilot could pose. The second project phase objectives are to establish a workforce training network offering skills that support H2 fuel supply and use and to develop stakeholder support for a demonstration in the GHA. |