The San Joaquin Valley Air Pollution Control District has partnered with Frito-Lay, a division of PepsiCo, to implement the “Frito-Lay Zero and Near-Zero Emission Project” in Modesto, California; a bold and transformative effort that will yield a world-renowned showcase for economically and environmentally sustainable manufacturing, warehousing, and distribution.

This project aims to completely replace the use of all diesel-powered freight equipment within one of Frito-Lay's largest food production, warehouse and regional distribution facilities. This will be accomplished via the use of zero-emission (ZE) technology everywhere feasible, and near-zero emissions (NZE) technology and renewable fuels everywhere else.

**Dates:** 2019 - 2021

**Grantee:**

**Partners:** Frito-Lay, American Natural Gas, CALSTART, Project Clean Air, Café Coop, Tesla, BYD, Peterbilt, Meritor, Volvo, Gladstein, Neandross & Associates

**Grant Amount:**

- CARB Contribution: $15,382,243
- Matching Funds: $15,382,244
- Project Total: $30,764,487

**Vehicles/Equipment Funded**

**Vehicles:**
- Fifteen (15) Tesla heavy-duty battery electric tractors
- Six (6) Peterbilt 220e battery electric trucks
- Three (3) BYD battery electric yard trucks
- Twelve (12) BYD Lithium-ion battery electric forklifts
- Thirty Eight (38) Volvo VNL tractors with ISX12N low NOx engine

**Equipment:**
- Compressed natural gas fueling station providing renewable fuel
- 1 MW photovoltaic array with energy storage
- Truck charging systems and energy storage for battery electric vehicles

**Lessons Learned**

- Start project planning as early as possible, with thoughtful consideration given to every project element
- Assemble a project team with a diverse set of perspectives and expertise to ensure success
- Communicate with project partners early and often to keep the project focused and on schedule

**Status Updates**

- Project kickoff is anticipated for April 2019
- Initial work will focus on infrastructure to support vehicle deployments
- Project completion anticipated for early 2021