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**Poster Title:** How the Development of Electric Public Fleets Has Catalyzed Robust Transportation

**Abstract:** The Santa Clara Valley Transportation Authority (VTA) plans to meet state environmental objectives by shifting its 500+ bus fleet to ZEVs. Electrification is a major part of that strategy and includes the advancement of energy and fueling strategies, operations, and other business factors. The VTA Advanced Transit Bus VGI Project is a \$3 million project that is developing and demonstrating advanced charging controls, reducing costs, and establishing electric bus revenue generating energy services. Additionally, the project will establish VTA's long-term infrastructure strategy for comprehensive bus electrification. The technical scope of the project includes deploying 10-35 electric buses, installing Chargepoint unidirectional fast-charging infrastructure, and managing energy usage. The energy management platform integrates key metrics with demand response, time-of-use pricing, peak load reduction and demand charge mitigation. At the end of the project a detailed analysis and project review will be shared publicly with other transit authorities as a proving ground for fleet electrification. This presentation will provide a case study for the mass adoption of fleet electrification. Some of the topics will include: the development of this project as a real-world business case, the creation of a roadmap for complete agency electrification, and how this project has served as a platform for the commercialization of these innovative technologies. Additionally, the presentation will include the current status of the fleet and how further deployment is being scaled throughout the transit agency.