## SCALE MICROGRID SOLUTIONS CASE STUDY



## **VTA Fleet Microgrid**

VTA will transition their fleet to 100% battery electric by 2030. In order to meet the aggressive deployment deadline in the most economical and efficient manner, several innovative technologies have been designed to resolve some of the common hurdles of transit electrification.

Scale has designed a first of its kind clean energy microgrid to support the transition of the fleet to 100% battery electric buses. The microgrid is based on Scale's modular microgrid framework that allows the system to grow in a cost-effective manner in the future. The switchgear and controls are sized to accommodate load growth and the distributed energy resources are rightsized for the first deployment with planned additional capacity in the future. The distributed energy resources combine to provide a drastic reduction in the cost of electricity delivered as well as a 61% reduction in greenhouse gas emissions. The microgrid will also provide up to 24 hours of resilience to the VTA during emergency operations. Scale's microgrid provides a more resilient, lower cost, and more sustainable platform for transportation electrification. **BATTERY ELECTRIC BUSES** 

## 24 HOURS OF ZERO CARBON RESILIENCE

61% REDUCTION IN GREENHOUSE GAS EMISSIONS

100% ELECTRICATION OF FLEET BY 2030

## MICROGRID CAPACITY



1.56 MW SOLAR PV



1 MW/4 MWh BATTERY ENERGY STORAGE



SCALE

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Learn more by visiting us at scalemicrogridsolutions.com