

# The Road to Zero Emission Buses

*June 13, 2019*

*Mobility Committee, City of Austin*

# Nomenclature

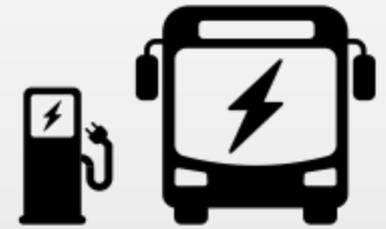
- ZEB: Zero Emission Bus
- BEB: Battery Electric Bus
- Lower-Emission: Highest standard, lowest emission traditional propulsion (diesel, gas)

# Road to Zero Emission Buses (ZEB)

- CMTA Board approved initial purchase of electric buses-  
**22 April 2019**
- Coordinating energy readiness with **Austin Energy**
  - North Ops Bus Depot redevelopment
- Participating in Austin Community Climate Plan, and integrating ZEB
- Actively participating in peer exchange and coordinated research:
  - APTA and transit peers
  - Zero-Emission Bus Resource Alliance (ZEBRA)
  - West Coast Center for Excellence
  - Center for Transportation and the Environment (CTE)

# Transit Bus Replacements – FY2020

- FY18 and FY19 have included preparatory work to prepare for Battery Electric Buses
- Fleet plan requires replacement of 33 transit buses in FY20.
- Final purchases quantity depends on grant funding
  - Electric Buses: 4 base + 6 if grant awarded
  - Diesel Buses: 23 base + 6 if grant not awarded



# Lower Emission Buses

- Gillig Diesel Bus



# Zero Emission Buses

- Proterra Battery Electric Bus



# Zero Emission Roadmap



- North Ops Bus Depot at 9315 McNeil Lane, will become Capital Metro's state-of-the-art electric depot
- Coordinated planning for smooth bus deployment and charging infrastructure development
- Requires strong partnership between Austin Energy and Capital Metro



## Next steps

- Continue grant and funding applications
  - Including: TCEQ Clean Fleet, EPA DERA, FTA Low and No Emission Bus, and Texas VW Environmental Mitigation
- Coordination with Austin Energy for infrastructure needs and rate structure
- Complete ZEB Roadmap and performance measures
- Integrate ZEB into Project Connect