

# Sustainable City Commission

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# LBT Organizational Focus



# Current Bus Fleet

## Total Fleet of 249 Buses Includes:

- 10 Battery-Electric Buses (BEBs)
- 125 Compressed Natural Gas (CNG)
- 88 Gas Electric Hybrid
- 26 Diesel



# Battery-Electric Bus Fleet

## Current Fleet:

- 2015 – Purchased 10 battery-electric buses
- 2017 – Introduced into fleet

## Future Fleet:

- 34 BEBs
  - (14) 40-foot BEBs
  - (20) 30-foot BEBs



Charging Pedestals

# Innovative Clean Transit Regulation



## **Long Beach Transit Zero-Emission Bus Rollout Plan**

June 26, 2020

Developed with assistance from the Center  
for Transportation and the Environment



- California Air Resource's Board passed the Innovative Clean Transit Regulation in December 2018
- LBT Board Approved Zero-Emission Rollout Plan on June 25, 2020
- Zero-Emission Bus Rollout Plan due July 1, 2020
- CARB approved LBT's Rollout Plan on September 4, 2020





# LBT ZEB Deployment Scenario

## Transition to a BEB and FCEB Fleet:

### LBT1

- BEB division
- Shorter routes serviced from LBT1
- BEB technology at LBT1



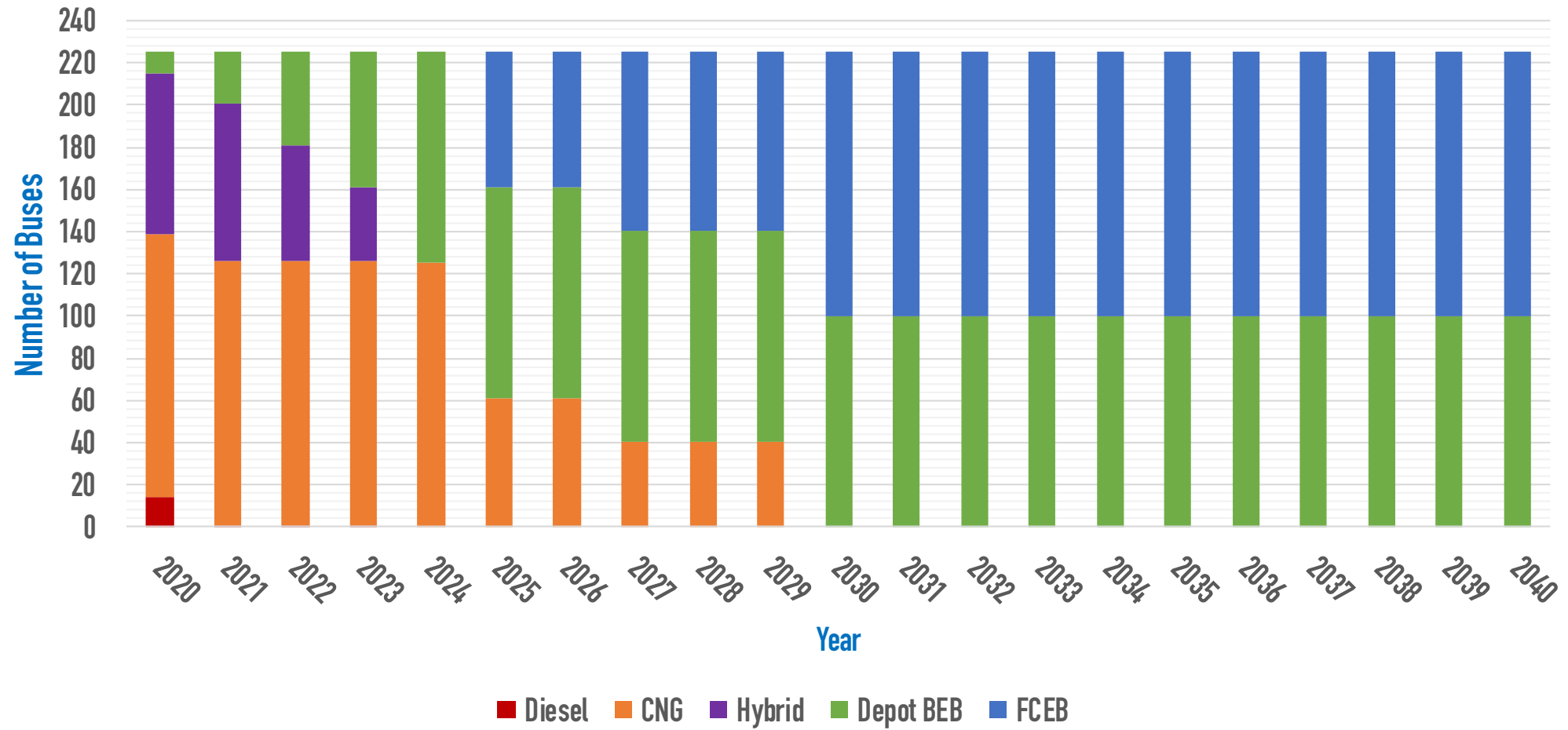
### LBT2

- FCEB division
- Longer routes deployed from LBT2
- FCEB technology at LBT2



# 2020 through 2040 Fleet Composition

LBT's Fleet Composition Over 20-Year ZEB Transition Period



# Reducing Emissions



- LBT's zero-emission fleet travels throughout the City of Long Beach and serves 13 other communities
- 89% alternatively fueled fleet





# Systemwide Transit Analysis and Reassessment (STAR) Initiative

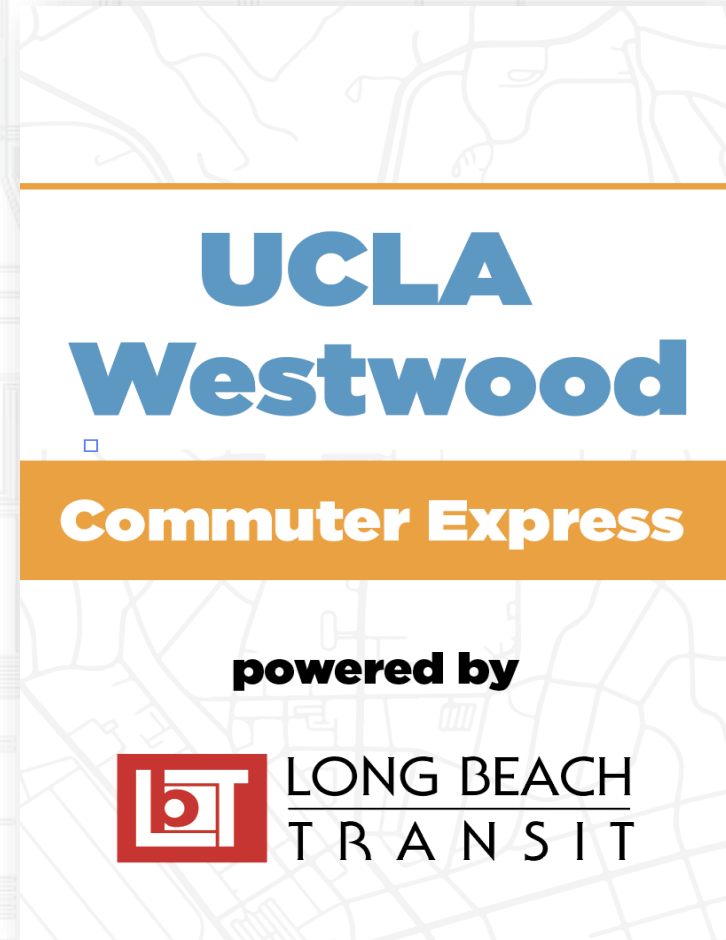


- LBT's STAR Initiative is a roadmap for the agency to:
  - Assess its current transit operations
  - Provide recommendations for future enhancements, including:
    - Amenities, service frequency and planning



# UCLA Westwood Commuter Express

- Launched April 2019
- Connects Long Beach and UCLA/Westwood Village



# Customer Amenities Upgrades

- Improvements include:



Solar Lighting



Real-time  
Information  
(e-paper)



Benches



# Commercial Harbor Craft Regulation



- CARB's regulation aims to reduce emissions from diesel engines on ferry boats and other water vessels
- Proposed amendments to the regulation could require LBT to replace its current water taxi diesel engines with zero-emission engines to reduce emissions





# Strategic Sustainability Plan



- Sustainability plan developed to guide LBT over the next 8 years





**Thank you**

