

# **REPLACEMENT BUS PURCHASE**

**Purchase One El Dorado National  
40' Axess Bus**

**October 20, 2021**

# TIMELINE

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- **El Dorado Axess 40 foot diesel bus #253 purchased on April 15, 2015 for \$542,780**
- **November 20, 2020, bus #253 operating on the Route 11 was nonpreventable accident on SR 29**
- **Bus #253 towed off site to Valley Power and could not be fixed so taken to El Dorado and it was determined the bus was totaled**
- **August 2021, TransDev found NVTA a used 2016 demo for-sale from El Dorado**
- **October 20, 2021 NVTA to consider purchasing a replacement bus**

# NEED FOR A REPLACEMENT BUS

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- **Spare Ratio - the total number of spare vehicles available for service divided by the total number of vehicles required for annual maximum service**
- **NVTA Current spare Ration is 8/54 is 14%, which is below the recommended 20%**
- **We need a bus now to help bring our spare ration closer to 20%.**

# WHY THIS BUS?

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- **Available now, limited mileage and proven quality**
- **Will be ready with the passenger counters, fare system, branding etc.**
- **Reasonable price**
  - The price is \$402,879 which is well below the original 2016 purchase price \$542,780
- **No used electric buses on the market**
  - 1<sup>st</sup> Proterra bus sold in 2009, BYD first started US production in 2013
- **No place to charge a new electric bus at our existing maintenance facility at 720 Jackson Street**

# INNOVATIVE CLEAN TRANSIT

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- **The Innovative Clean Transit (ICT) regulation requires all public transit agencies to gradually transition to a 100-percent zero-emission bus fleet. The first zero-emission bus purchase requirements will begin to apply in 2023. Beginning January 1, 2023, 25% of new bus purchases by large transit agencies must be zero-emission buses. The purchase requirement will increase over the course of the decade, and will begin to apply to small transit agencies, as defined, beginning in 2026. (See Cal. Code Regs., tit. 13, §2023.1.)**

# 3-YEAR REPLACEMENT BUS SCHEDULE

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- **FY 21/22 – 7 buses on order**
  - All Electric - 5 BYDs 30ft and 2 Proterra 40ft buses
- **FY 22/23 – 2 buses planned**
  - Two 23ft non electric vehicle for Calistoga (smallest EV vehicle approved by the FTA Altoona test is 30 ft long)
- **FY 23/24 – 5 to 8 buses planned**
  - All electric vehicles

# CARB REPORTING

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- **California transit agencies have collectively purchased 654 zero-emission buses (ZEBs), with 336 in service and 318 on order, by December 31, 2020.**
- **The National Transit Database Reported in FY 2019, latest year available that there were 23,138 buses operating in CA (excludes cutaways)**
- **ZEB represent 1.5% of buses operating in CA**

# Thank You



**NVTA**  
NAPA VALLEY TRANSPORTATION AUTHORITY