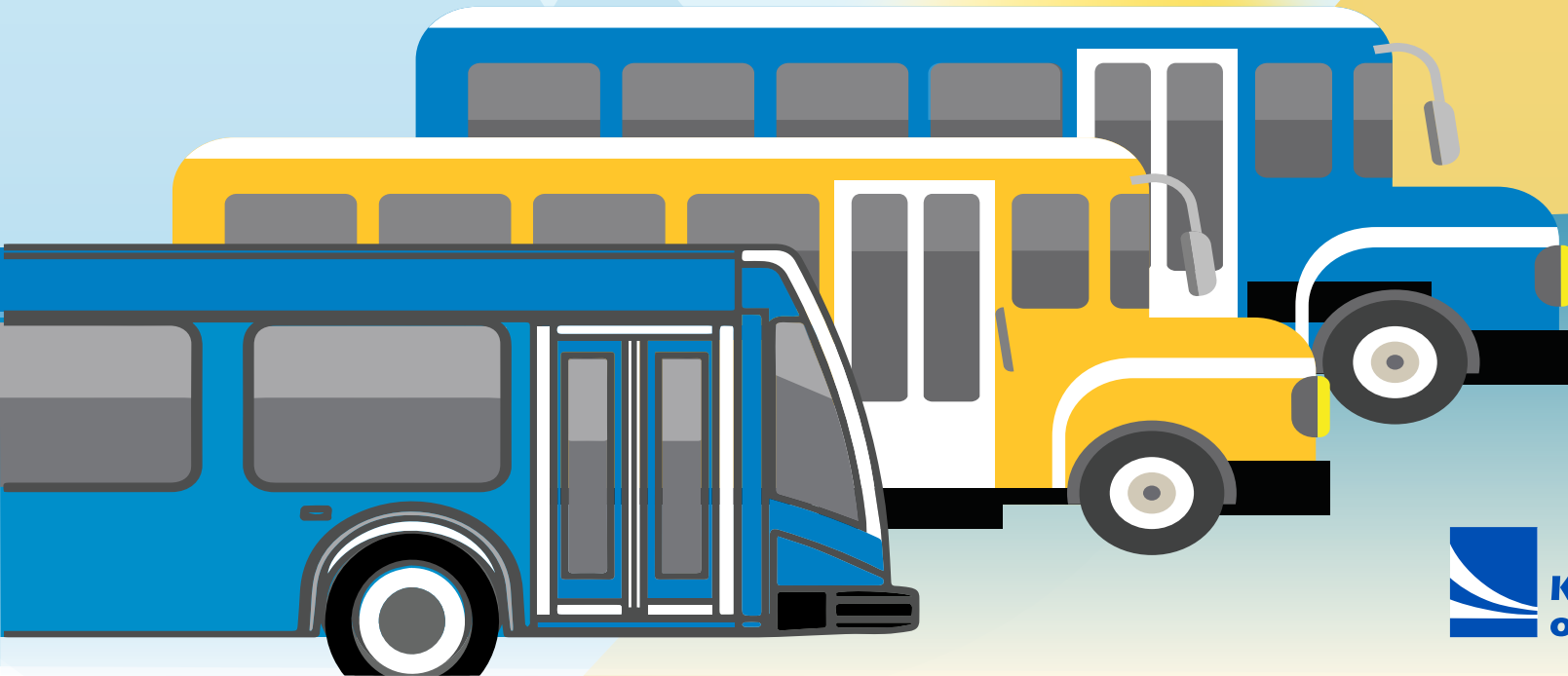


2023 TRANSIT SYMPOSIUM

# TRANSIT*ions* TRANSIT*ions* TRANSIT*ions*



Kern Council  
of Governments

2023

# TRANSITIONS TRANSITIONS TRANSITIONS

## AGENDA

10:00am to 10:30am

### Welcome Treat in Vendor Room

(be sure to visit our vehicle vendors outside)

10:30am to 10:45am

### Welcome

Linda Urata | Regional Planner, Kern Council of Governments (Kern COG)

### Opening Remarks

Cindy Parra | Board Member Kern COG and Chairwoman, Golden Empire Transit

10:45am – 11:45am

### Innovative Clean Transit Update

Shirin Barfjani and Jing Guo, California Air Resources Board

- **Heavy Duty Voucher Incentive Program (HVIP)** update for transit
- **Low Carbon Fuel Standard (LCFC)** update for Hydrogen Fuel Cell
- **New regulations that potentially could affect transit and municipalities**
  - Heavy Duty • Inspection & Maintenance • Proposed Advanced Clean Fleets
  - Innovative Clean Transit Update • Rollout plan • Reporting
  - 2026 phase-in for small transits
  - Phase II (Comp Review)

11:45am-1:00pm

### Lunch • Vendor Time • One Panel

#### Transitioning Your Fleet, A Transit Operator's Perspective

#### Transitioning Small Transit

Angie Dow | Executive Director, Kings County Area Transit

#### Transitioning as a New Transit Manager

Alexa Kolosky | Public Works Manager, Kern Transit

#### Transitioning to On Demand Service

Ricardo Perez | Transit Planner, Golden Empire Transit

1:00pm to 1:45pm

### Resiliency Planning for Transitioning Fleets

Richard Tree | Executive Director, Tulare County Regional Transit Agency

### Transitioning School District Fleets to Zero Emissions

Jane Culkin | West Coast Manager, Market Development, Highland Fleets

### Transition Benefits for Transit

Bob Snoddy | Regional Planner, Kern COG

1:45pm to 2:00pm

### Prizes and Closing Remarks - Kern COG



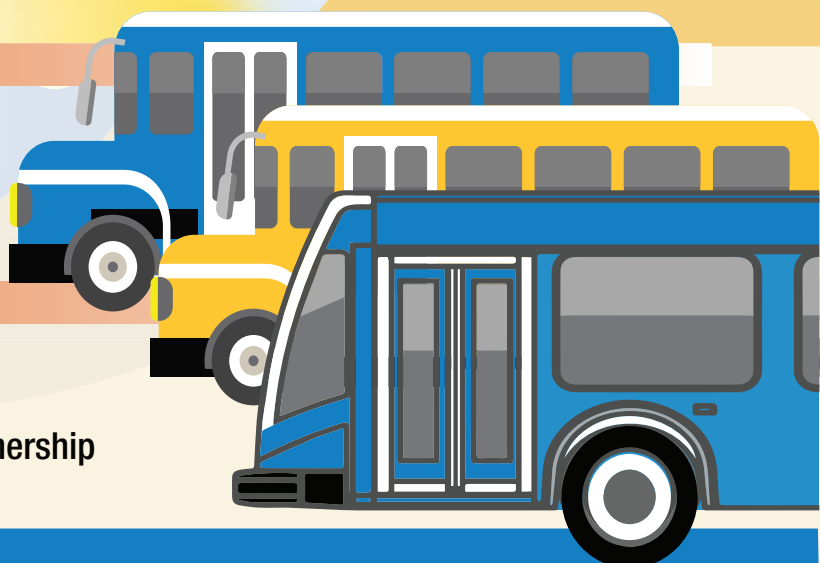
**Kern Council  
of Governments**

### VEHICLES:

BYD K9 Transit Bus • Tesla  
Lightning eMotors Passenger Van  
New Flyer Hydrogen XHE40 • Chevy Bolt

### VENDORS:

Kern COG • Golden Empire Transit  
San Joaquin Valley Air Pollution Control District  
San Joaquin Valley Clean Cities Coalition-EV Partnership  
Bakersfield College • Miocar • EVEN Recharge





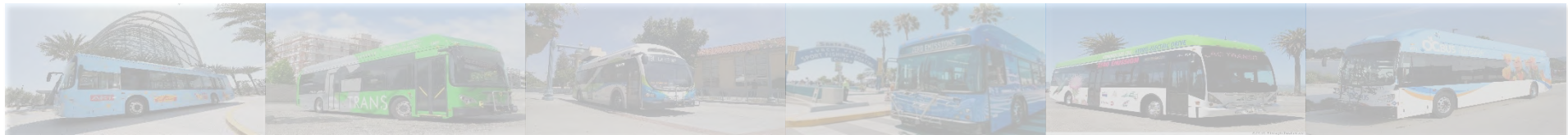
# Innovative Clean Transit (ICT) Program Update

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**2023 TRANSITIONS Transit Symposium**

**March 30, 2023**

***Shirin Barfjani (Air Pollution Specialist)***  
***Jing Guo (Air Resources Engineer)***



# Innovative Clean Transit Reporting Tool (ICTRT)

---

- All transit agencies regardless of size must report
- ICTRT is open from February 1<sup>st</sup> through April 28<sup>th</sup> this year
- ICTRT Guidance Document in Q&A format to illustrate and explain functions of each module
- More information available at [Reporting Tool & Data](#)
- Send questions to [ICT@arb.ca.gov](mailto:ICT@arb.ca.gov)



# Rollout Plans

---

- Rollout Plans for small transit agencies are due June 30, 2023
  - [Rollout Plan Guidance Document](#) explains the requirements
  - Final Rollout Plans are posted on the [ICT-Rollout Plans](#) page
  - Must include all buses with the gross vehicle weight rating greater than 14,000 lbs.
  - Demand response cutaways are included
- A Rollout Plan must include all 8 elements identified in the regulation to be considered complete and get approved

# Required Rollout Plan Components

---

- Goal of full transition to zero-emission buses (ZEB) by 2040, considering minimum useful life of buses
- Planned bus purchase schedule
- Planned conversion (conventional buses to ZEBs) schedule, if any
- Identification of ZEB technologies planning to deploy
  - Battery vs fuel cell electric buses or both
- Infrastructure build out schedule, location, type, and service capacity
- Workforce training (planner, technician, driver, etc.)
- Description of how planned ZEBs would serve disadvantaged communities
- Identification of potential funding sources



# HVIP Funding for FY 22-23

---

- Expanded flexibilities for transit agencies
- \$70 M set aside for transit buses
  - As of March 9, 2023, \$45M remaining from FY 21-22
- Additional 15% voucher amount for small public fleets with 10 or fewer medium- and heavy-duty vehicles
- Additional 15% voucher amount for fleets in DAC
  - A small fleet in DAC can use both of plus ups above (15% small fleet + 15% DAC)
- All transit agencies, regardless of the size, are eligible for HVIP



# Flexibilities for Transit Agencies

---

- Allow a letter of intent in lieu of a purchase order
- Allow 36 months for transit bus voucher redemptions
- Consider all transit agencies to be exceeding regulatory requirements and eligible for HVIP funding if the total number of ZEB purchased in the State exceeds the ICT requirements
- Promote use of HVIP as local match
- Additional details are listed in the Implementation Manual (to be released in Spring 2023)



# HVIP Funding Stackability

---

- Can be stacked with other State incentive programs
  - When stacking, HVIP will only fund the remaining cost up to the maximum voucher amount after the other incentives have been applied at their maximum allowable amounts
- Can be stacked with Carl Moyer if follows the Carl Moyer Guideline (e.g. vehicle scrappage)
- Cannot be stacked with Volkswagen Mitigation Trust



# Low Carbon Fuel Standard Regulation

---

- Designed to encourage the use of cleaner low-carbon transportation fuels
- On-going rule amendment process to align with the Governor's and CARB climate goals, increase low-carbon fuel supply, improve regulatory clarity, and leverage new federal programs/funding
- Hydrogen anticipated to be a mandatory fuel starting in 2025
- Register to the program and report low-carbon fuel in the [LCFS Reporting Tool](#) to generate credits
- Credits can be monetized to help offset the total cost of ZEB ownership
- More details provided at [CalACT 2023 Spring Conference](#) on April 17<sup>th</sup>
  - Another workshop can be organized in Central Valley if there is an interest





# Comprehensive Review on Program Readiness

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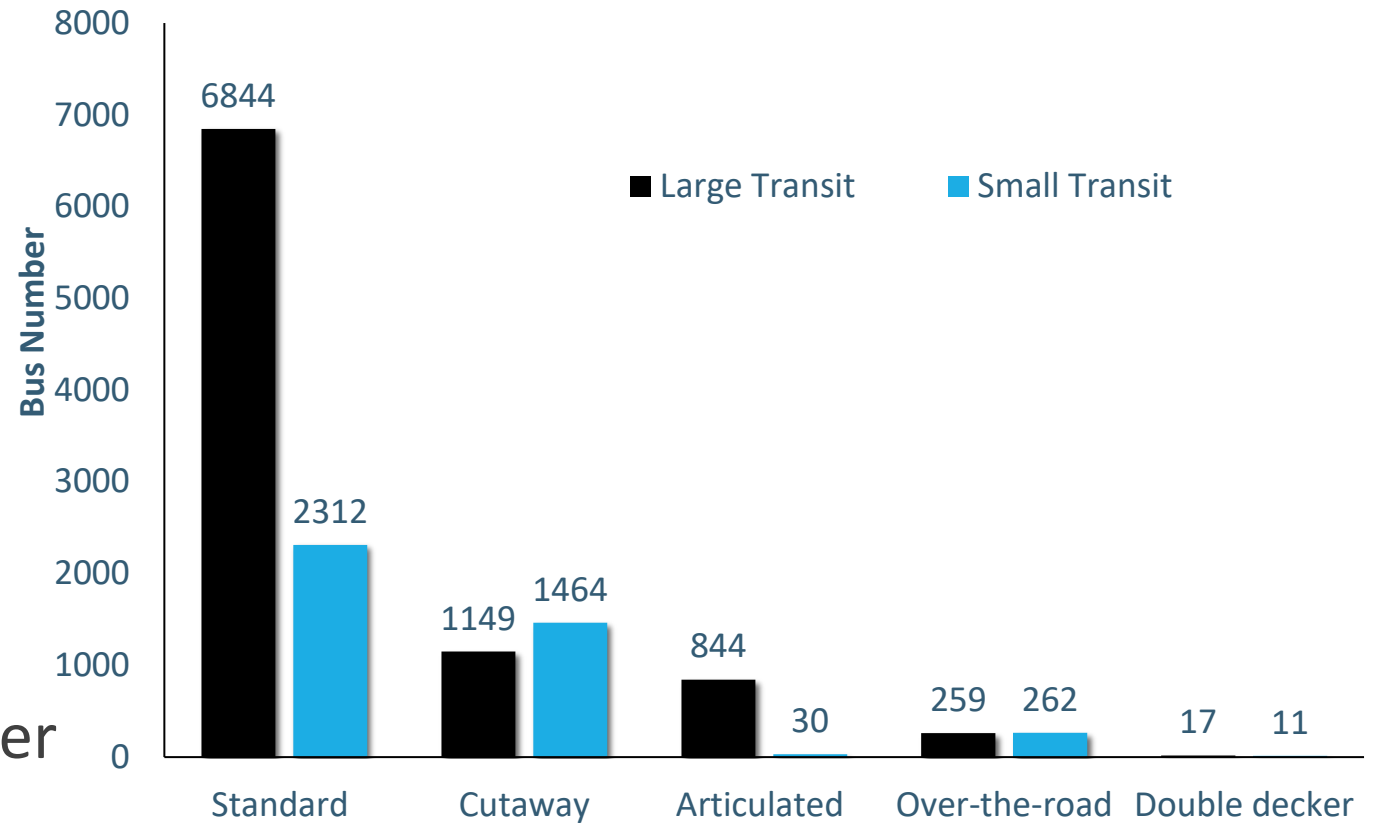
- ZEB Comprehensive Review to evaluate the program readiness
  - Inform heavy-duty zero-emission policy and funding strategies
  - Identify status of ZEB technology
  - Ensure transit service not adversely impacted
- Contracted with NREL for a third-party assessment





# California Transit Bus Composition

- About 200 transit agencies
  - 21 large transit agencies accounting for 70% of total buses
- Approximately 13,000 buses
  - 70% are standard buses
  - 2021 data shows 510 ZEBs deployed and 424 ZEBs on order



# Phase 1 Comprehensive Review Results

---

- The report shows California large transits are ready for 2023 ZEB purchase requirement on standard 40' buses
- Continued efforts are needed for 100% ZEB transition
- Lower capital costs and provide financial support
- Improve ZEB reliability and optimize ZEB performance
- Enhance deployment flexibility and scalability
- Establish a reliable supply chain and develop a highly skilled workforce

# Phase 2 Comprehensive Review

---

- Include other types of buses (cutaway, over-the-road, double decker, and articulated buses) and an update to the 40' standard buses
- 2026 ZEB purchase requirement
  - Large transit: 50%
  - Small transit: 25%
- Anticipate to share the report in 2025



# Challenges for Other Types of Buses

---

- Zero-emission technologies for other types of buses are not as mature as standard transit buses
- Limited Altoona tested buses for other types of buses
- Uncertain daily range especially for demand response
- Limited data available
  - Call for help on the data collection and transit survey

# Heavy-Duty Inspection and Maintenance (HD I/M) Regulation—Vehicle Applicability

- All non-gasoline heavy-duty vehicles operating in California with a GVWR >14,000 lbs.
- All diesel, alternative fuel, and hybrid vehicles
- All California, out-of-state, and out-of-country registered vehicles that operate within California
- Single vehicle fleets are also subject to this regulation





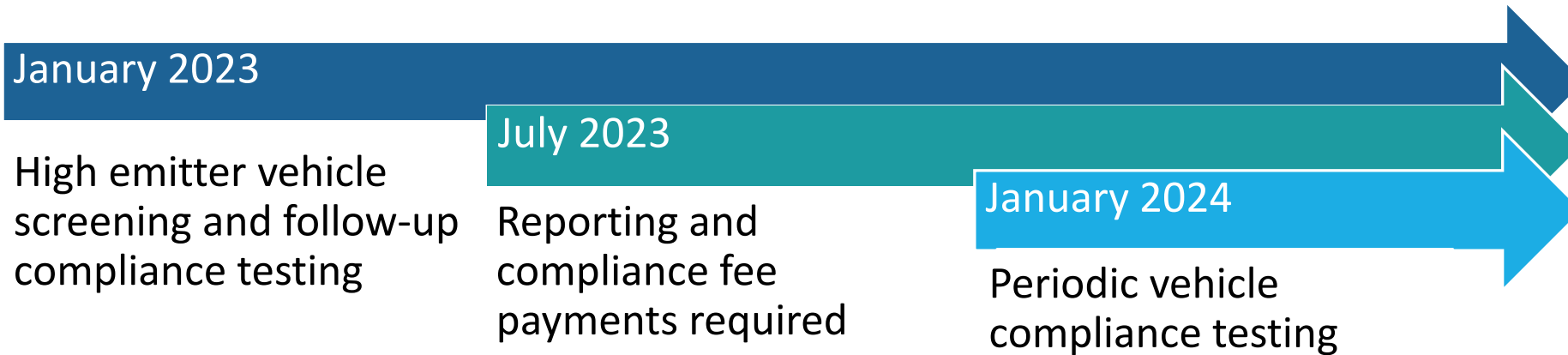
# Entities Subject to HD I/M

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- Vehicle owners and drivers of non-gasoline vehicles with a GVWR >14,000 lbs. that travel in California
- Testers that perform compliance tests
- Freight contractors and brokers that do business in California
- Applicable freight facilities located in California that allow vehicles subject to the HD I/M program onto their properties
- On-board diagnostics test device vendors that produce and sell testing instrumentation used to perform compliance tests on HD I/M vehicles



# Vehicle Owner Requirements



- Existing Periodic Smoke Inspection Program requirements apply until HD I/M periodic compliance testing begins in 2024
- Official start dates depend on the rollout of the HD I/M program database and CARB will provide notice prior to effective dates



# Proposed Advanced Clean Fleet (ACF) Regulation

---

- Aim to accelerate medium and heavy duty zero-emission vehicle purchases toward meeting a full transition to ZEVs by 2045
- Transit buses subject to the ICT regulation (GVWR > 14,000 lbs.) are exempt in ACF
- Other transit vehicles (buses with a GVWR  $\leq$  14,000 lbs. and other vehicles like tow trucks, snow plow) are exempt until January 1, 2030 with a 100% of ZEV purchase requirements starting in 2030
- Second hearing with the 15-day changes is scheduled on April 27 and 28, 2023

# Contacts and Links

- Innovative Clean Transit Reporting Tool (<https://ictrt.carb.arb.ca.gov>)
- ICT program email ([ICT@arb.ca.gov](mailto:ICT@arb.ca.gov))
- Shirin Barfjani, Lead Staff ([Shirin.Barfjani@arb.ca.gov](mailto:Shirin.Barfjani@arb.ca.gov))
- Jing Guo ([Jing.Guo@arb.ca.gov](mailto:Jing.Guo@arb.ca.gov))
- LCFS [program page](#)
- Jordan Ramalingam, Manager of Alternative Fuels Section [Jordan.Ramalingam@arb.ca.gov](mailto:Jordan.Ramalingam@arb.ca.gov)
- Funding information (<https://ww2.arb.ca.gov/our-work/programs/low-carbon-transportation-investments-and-air-quality-improvement-program/low-1>)
- HVIP (<https://californiahvip.org>)
- Funding Finder Tool (<https://fundingfindertool.org>)
- ACF (<https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>)
- HD I/M (<https://ww2.arb.ca.gov/our-work/programs/heavy-duty-inspection-and-maintenance-program>)
- HD I/M webinar (<https://ww2.arb.ca.gov/sites/default/files/truckstop/azregs/training.html>)

# TRANSITION TO ON-DEMAND SERVICE

TRANSITions Symposium  
MARCH 30, 2023



# MISSION STATEMENT

We make life better by connecting people to places one ride at a time.

# 2018: STANTEC CONDUCTS PEER REVIEW



- **Study of Best Practices Regarding Alternatives to Traditional Fixed Route Transit Service**
- **Target areas include**
  - Areas with low population density
  - Areas with low-performing fixed route transit service
  - RT 47 and southern portion of RT 61
- **Microtransit was introduced as an option**

2018

2019

2020

2021

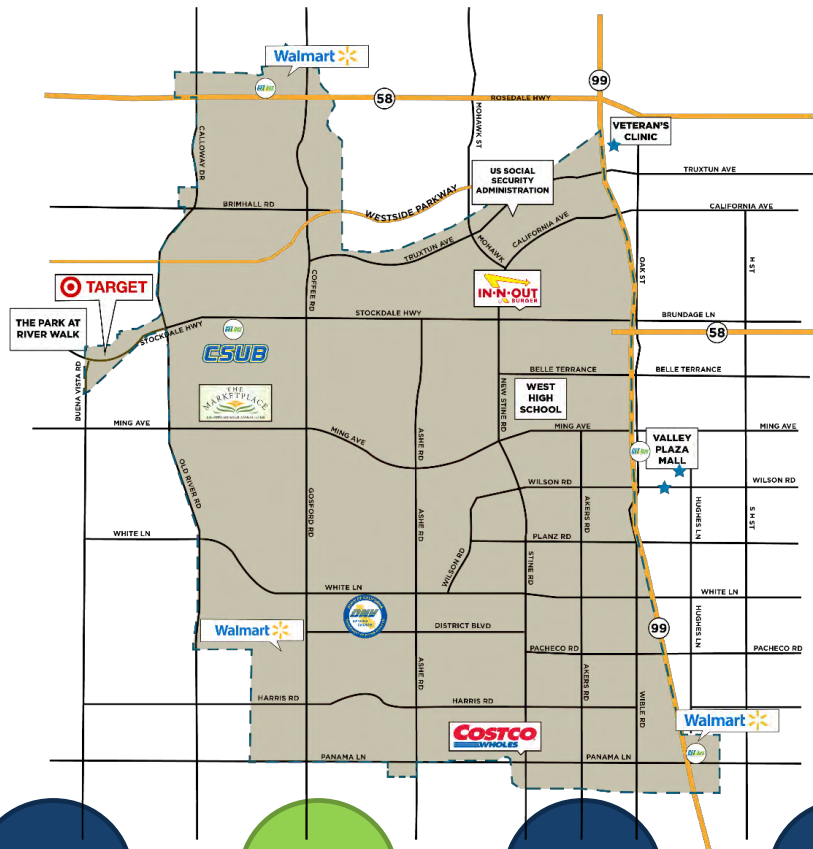
2022

2023

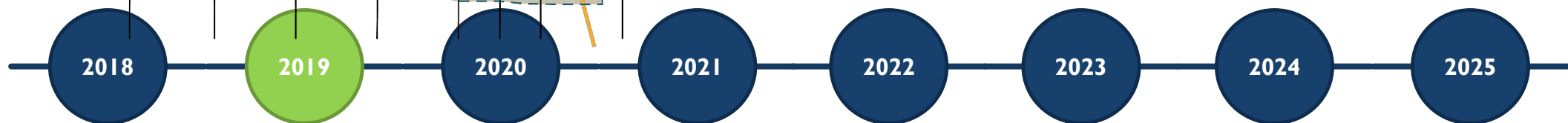
2024

2025

# 2019: 'RYDE' PILOT LAUNCHED



- **Pilot from April 2019 – December 2020**
- **Zone Profile**
  - 23 square miles of the general SW area
  - Diverse demographics (income, race/ethnicity)
  - Shopping, schools and universities, doctors offices, entertainment, etc.
- **Rides within the zone are \$3.50**
- **Hours of Operation**
  - Mon - Fri 6 am - 11 pm
  - Sat & Sun 7 am - 7 pm





# 2020: ON-DEMAND REBRAND



- **On-Demand Service**
  - Paratransit, Microtransit, Non-Emergency Medical Transport (NEMT)
- **Zone Profile**
  - Extended to include Downtown Core
- **Distance Base Fares introduced**



2018

2019

2020

2021

2022

2023

2024

2025



# 2021: COMMINGLING EXPLORED

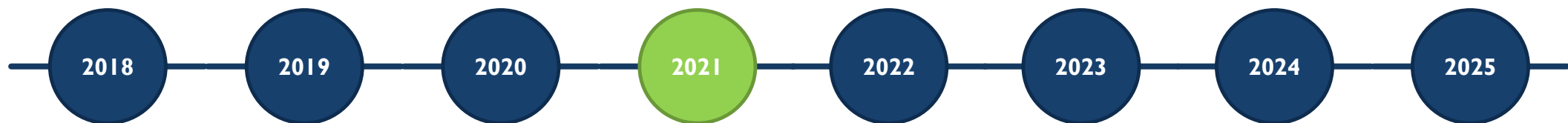
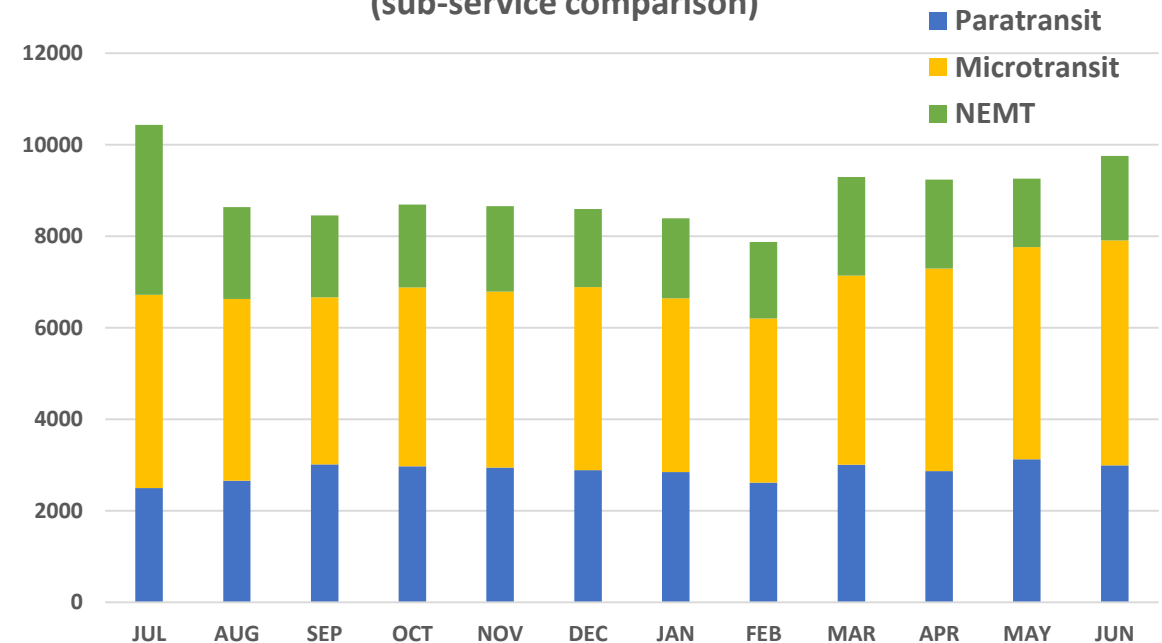
## ■ Commingling of Services

- Concept identified in Stantec Study
- Utilize vacant seats among sub-service trips

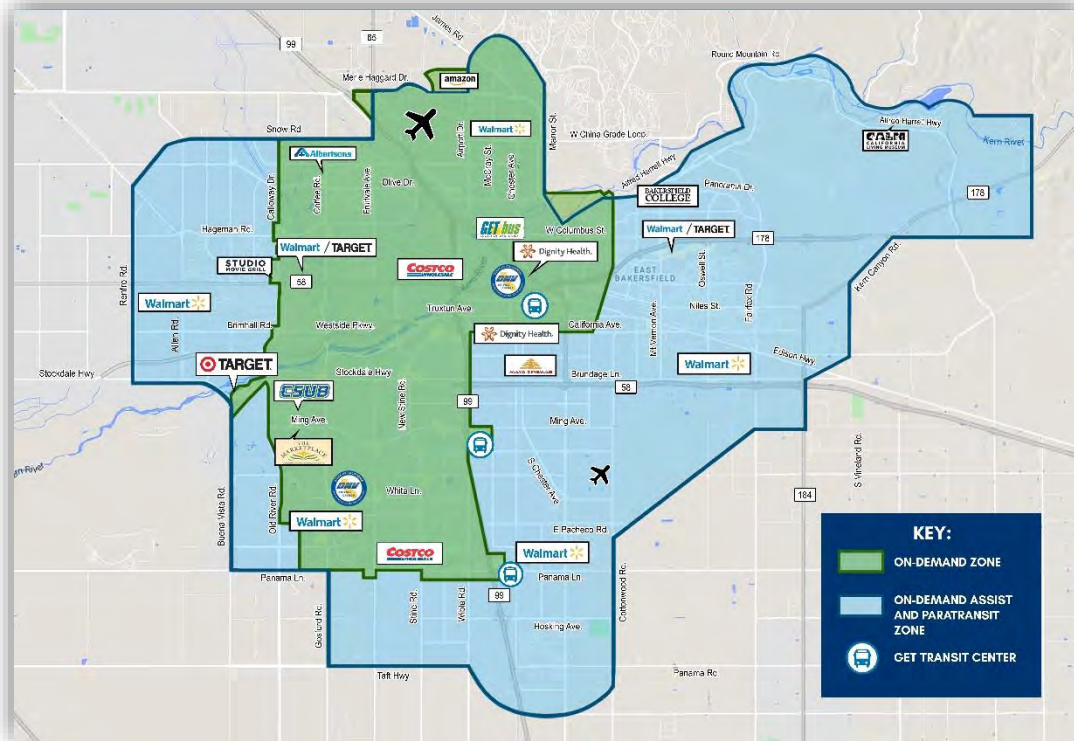
## ■ Microtransit ridership growth during COVID

- Curb-to-curb trips within the zone
- Connect to transit centers and reach final destination on fixed route

FY21-22 ALL DR Monthly Boardings  
(sub-service comparison)



# 2022: GET DESIGNATED AS CTSA



- **Fourth On-Demand sub-service introduced**
- **Consolidated Transit Service Agency (CTSA)**
  - Provides low-cost mobility option additional to people with disabilities
- **Microtransit expands to Oildale, Amazon, and Meadows Field Airport**

2018

2019

2020

2021

2022

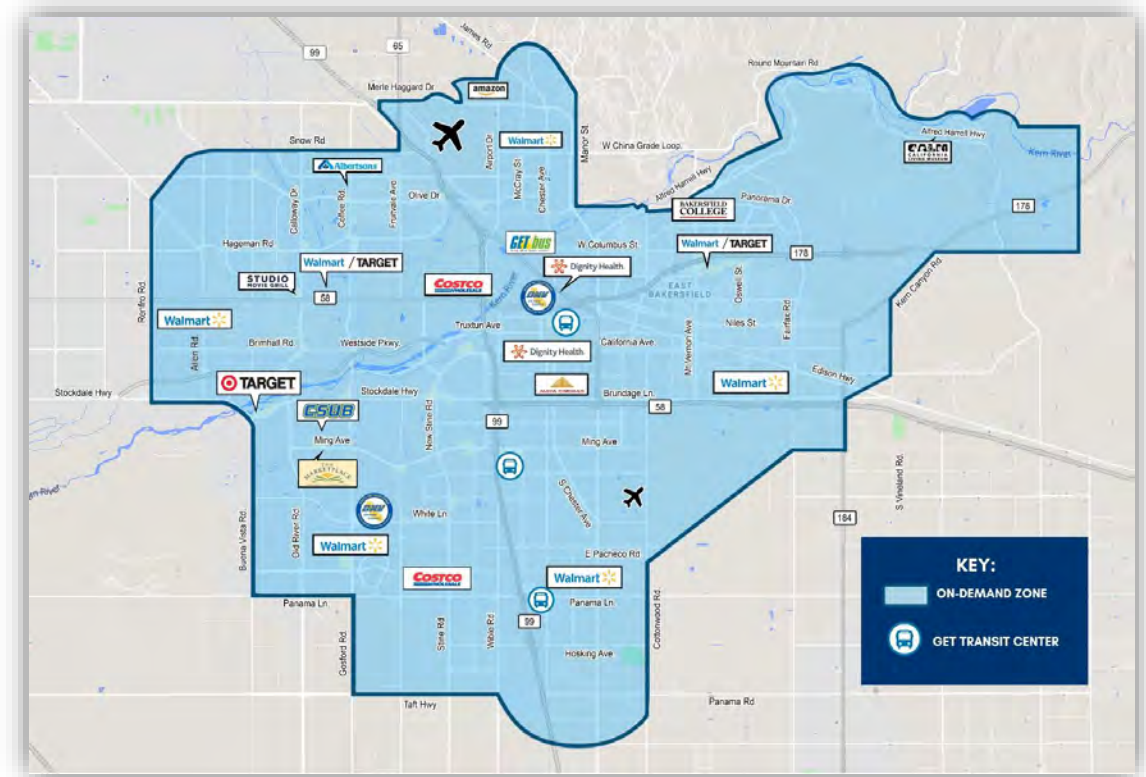
2023

2024

2025

# 2023: CITYWIDE EXPANSION

- **On-Demand covers approximately 69 square miles**
  - 43% of District Service Area
- **511 passenger boardings per weekday**
- **Currently Operates 7AM-7PM**



2018

2019

2020

2021

2022

2023

2024

2025

# 2024 AND BEYOND

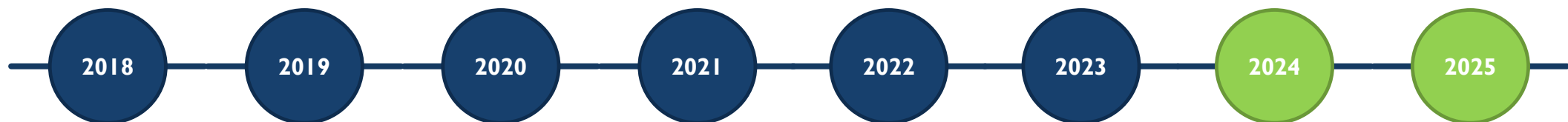


- **Operate Diversified Fleet**

- Compressed Natural Gas (CNG)
- Retrofit Battery Electric from Conventional Gas
- On-Demand Maintenance Facility

- **Reach New Milestones**

- More service in more places
- More service during more hours



Ricardo Perez  
Transit Planner  
[ricardoperez@getbus.org](mailto:ricardoperez@getbus.org)



THANK YOU

“WE MAKE LIFE BETTER BY CONNECTING PEOPLE TO PLACES ONE RIDE AT A TIME”





An aerial photograph showing a green and white bus driving on a two-lane road. To the right of the road is a vast, organized nursery of young trees planted in neat rows. The background shows a flat landscape under a hazy sky.

# Building In Resiliency

Rich Tree

Tulare County Regional Transit Agency

# Background



- 13 Battery-Electric Transit Buses
- 15 Battery-Electric Shuttle Vans
- 3 Infrastructure Projects
  - 24 DCFC & 6 L2 Charging Stations
  - Opportunity and Depot Charging



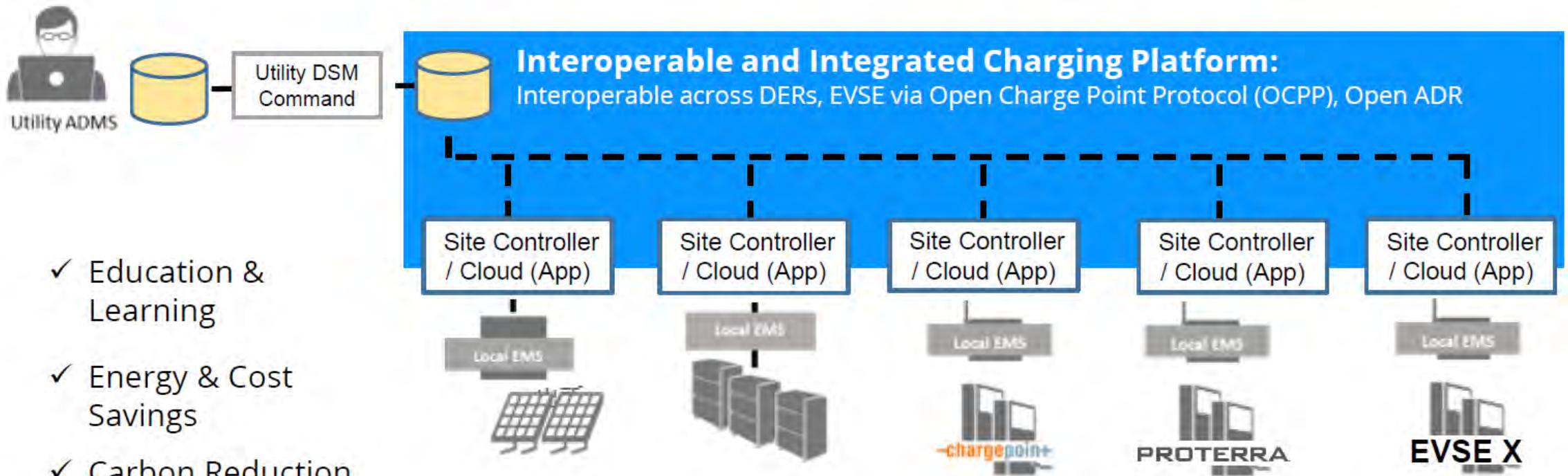


# Planning & Collaboration

- Opportunities for Partnerships
  - Transit, Schools, City Fleets
- Early Engagement with Utility Provider
- ZEB Rollout Plan
- Site Planning & Evaluation
- Grid Analysis
- Fleet & EVSE Acquisition

# The Big Picture

Utilities, Fleet Systems, and Station Operators working together to accelerate adoption and reducing CO2 emissions.





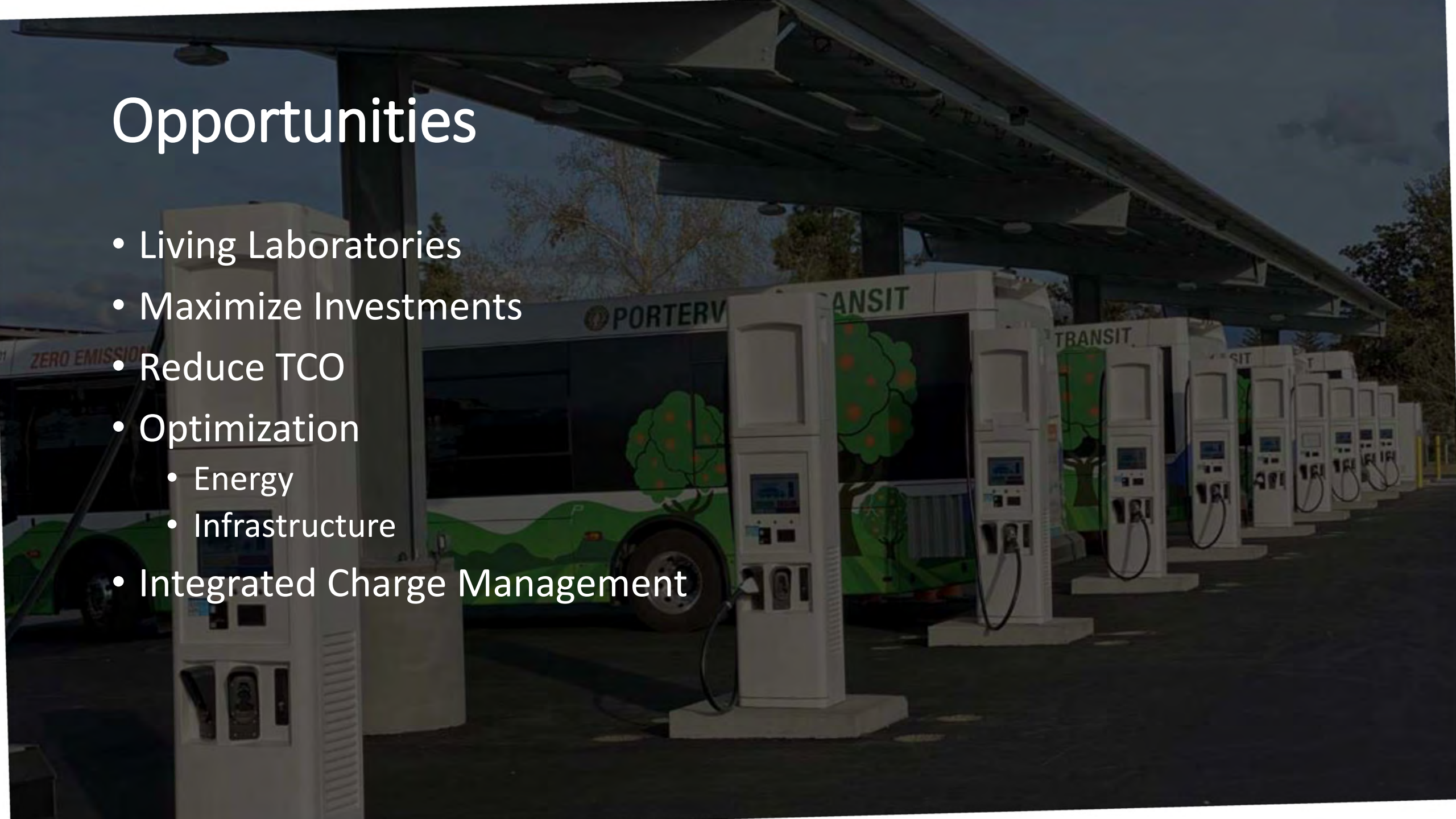


# Resiliency Planning

- Planning In-Progress
  - Federal Transit Administration (FTA)
    - Helping Obtain Prosperity for Everyone (HOPE)
  - California Energy Commission (CEC)
    - Blueprint
  - Department of Transportation (DOT)
    - Strengthening Mobility and Revolutionizing Transportation (SMART)

# Opportunities

- Living Laboratories
- Maximize Investments
- Reduce TCO
- Optimization
  - Energy
  - Infrastructure
- Integrated Charge Management







# Challenges

- Limitations with Utility Programs
  - Separate Meters
- Space Requirements
  - Microgrid
  - Energy Storage
- Interoperability & Integration
- Cost





Thank You!





# Highland

TRANSITIONS 2023 Symposium

March 2023

# The Highland story



Founded in 2019



\$253M capital raised



Largest electric school bus project in North America:  
MCPS, Maryland



First commercial electric school bus V2G program in the U.S.

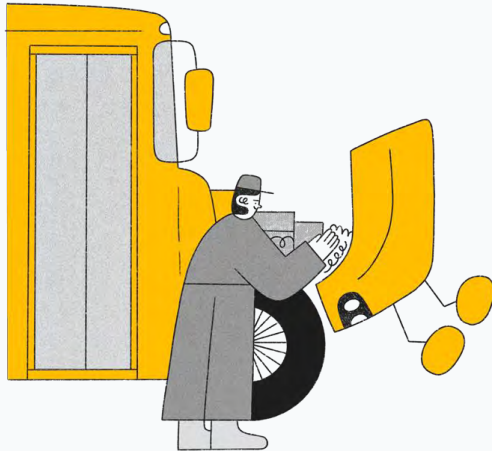


Leader in public-private partnerships:  
375+ buses under contract





# A reliable electric fleet without the headaches



## 1 Plan

We design and implement the entire project.

## 2 Budget

We create a budget together that encompasses all aspects of your electric fleet.

## 3 Build

We procure school buses & infrastructure and manage the construction of depot upgrades.

## 4 Train

We train your drivers & mechanics to operate & maintain your new fleet.

## 5 Charge

We charge the school buses during off-peak hours, ensuring a “full tank” before each trip.

## 6 Maintain

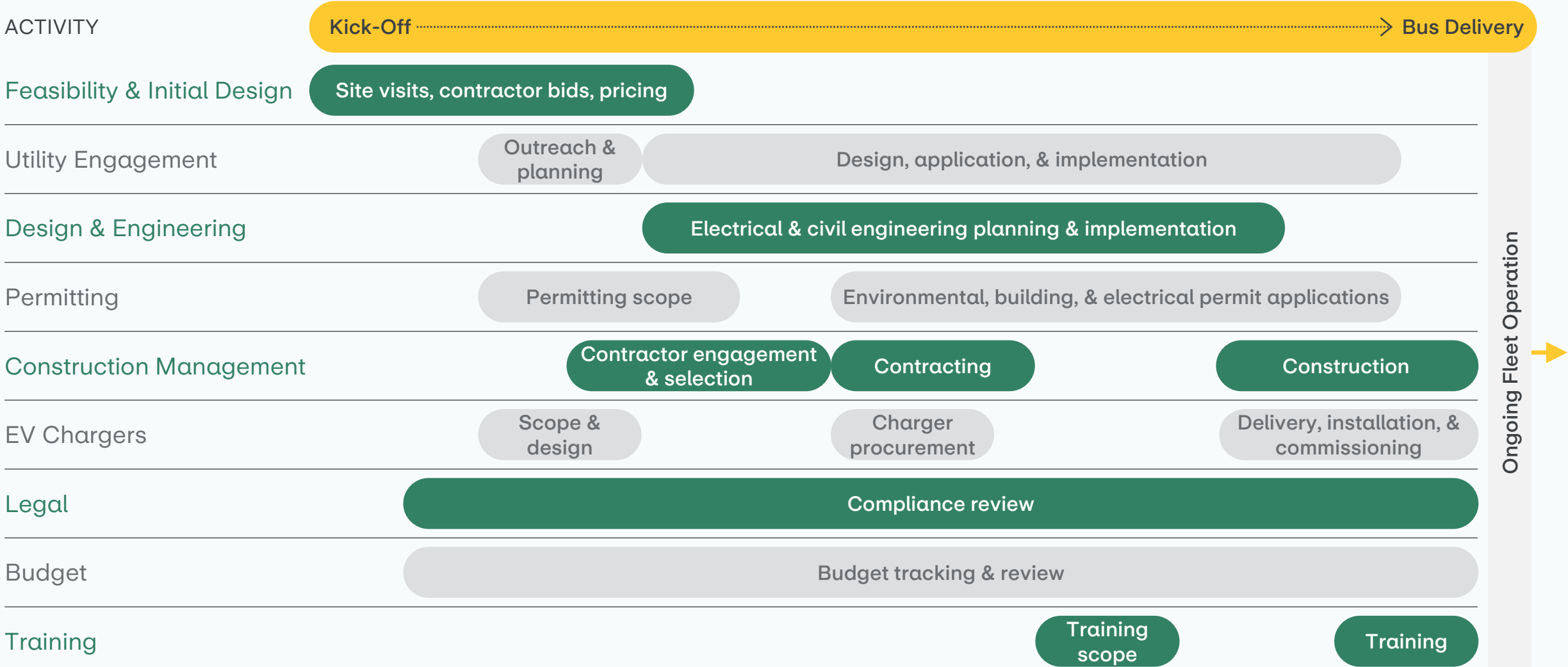
We provide a complete service plan, reimbursing for all repair costs, including parts and labor.

**Our Guarantee:** We don't get paid until your buses are running and only if we keep them running



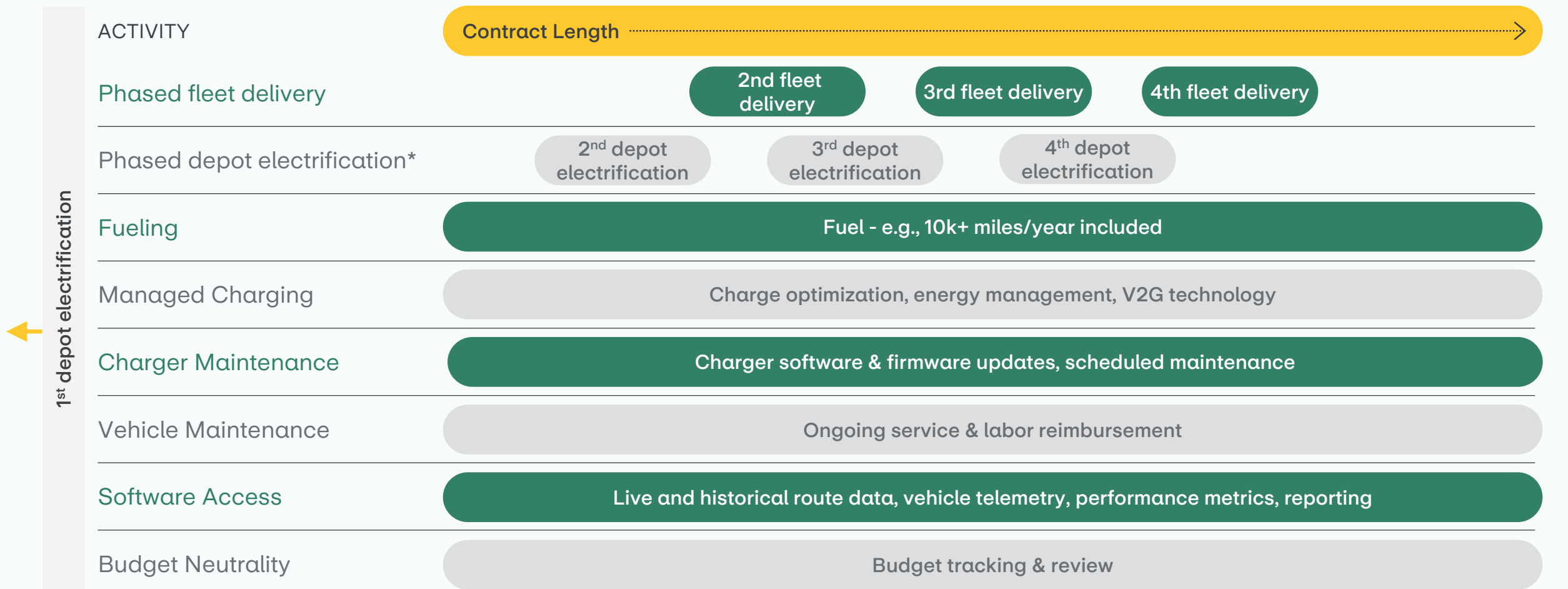
# Sample depot electrification timeline

Project development must begin at least 12–18 months before buses arrive



# Ongoing electric fleet operation

A lot happens behind the scenes to keep buses running smoothly



\*Additional depot construction or existing depot expansion

# Salinas, CA

Highland

The Salinas City Elementary School  
District

## EVSB Site Implementation

SCESD partnered with Highland to deploy 10 electric school buses and upgrade a bus depot with 10 chargers by the start of the 2023-2024 school year.

The project represents the first use of California General Code 4217 to create an energy savings contract for transportation.



10 electric school buses



**District Savings** vs. cost to purchase, fuel, and maintain diesel buses



Buses and chargers delivered by start of 2023/2024 school year





# EPA Clean School Bus Program

FY22-FY26

Authorized through the Bipartisan  
Infrastructure Law

---

\$5 Billion over 5 years

---

To replace existing school buses with zero-  
emission and low-emission models

---



# EPA Clean School Bus Program Round 1

June 2022

Structure & Mechanism	Rebate; Random lottery
Amount Awarded	~\$1 billion
Buses Funded	>2,500
% Electric Buses	>95%



# EPA Clean School Bus Program Round 2

Est. April 2023

Structure & Mechanism	Grant; Competitive application
Amount Awarded	TBD
Buses Funded	TBD
% Electric Buses	TBD



# Competitive Program Elements

Requires significantly more  
information than a random lottery

## QUALITY OF APPLICATION

Knowledge of project structure, information on existing fleet, & why you should win

## RELEVANT EXPERIENCE

Ideally with electric school bus deployment, but any sustainability experience helps

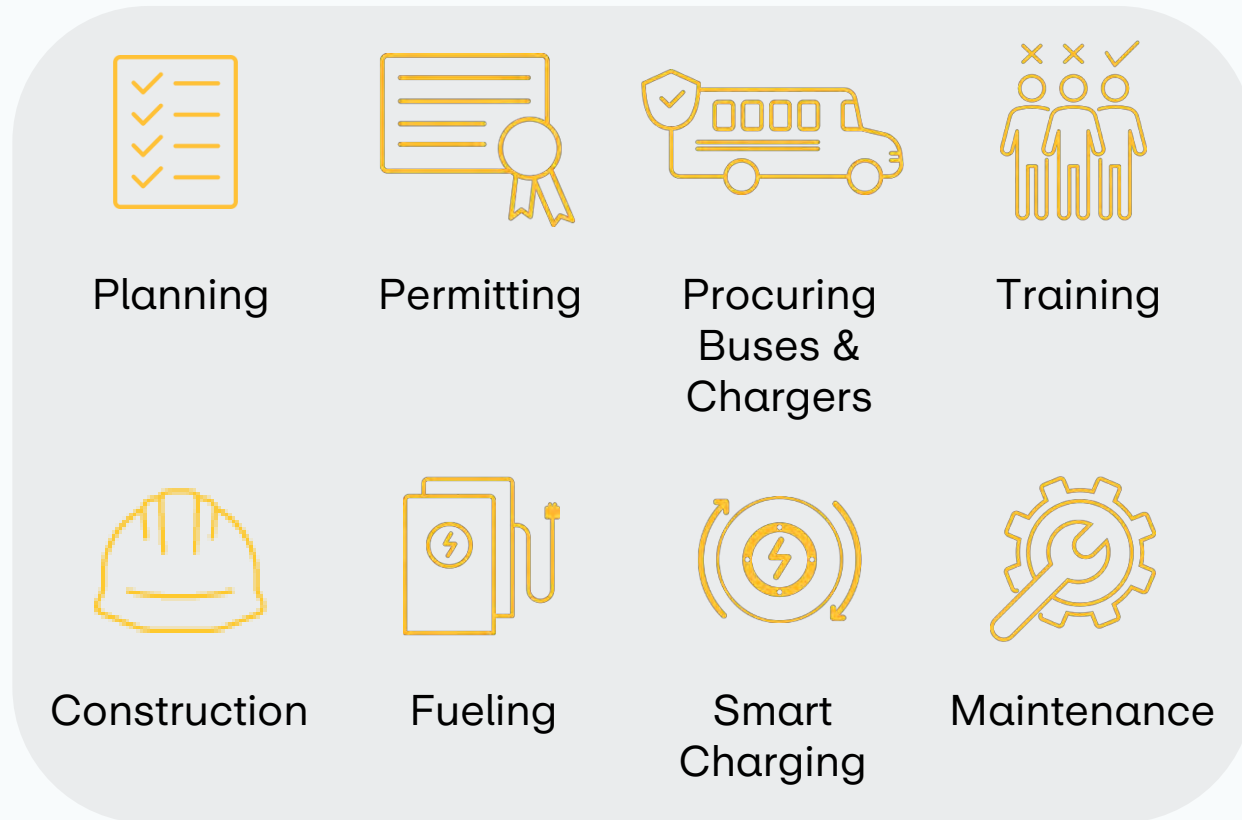
## PROBABILITY OF SUCCESS

Show that you know what's involved & how you will address any gaps

## MAXIMIZATION OF APPLICATION SCORE

Pay attention to selection criteria and scoring system

# Fleet electrification is a marathon, not a sprint



1,000+ hours of labor

12-18 months of planning  
& implementation

5+ dedicated FTEs

3+ subcontractors

# Craft your narrative

The more comprehensive and specific, the better

## DETAILS OF YOUR EXISTING FLEET

- # and type of buses, age, etc.
- Routes
- Needs (e.g., special ed buses)

## WHY SHOULD YOU GET FUNDING?

- Why do you need the funds more than another district?

## HOW WILL YOU USE THE MONEY?

- The more specific you can be, the better your chances



# Compile a list of relevant experience

What has your district done to demonstrate interest in clean energy and sustainability?

## RENEWABLE ENERGY



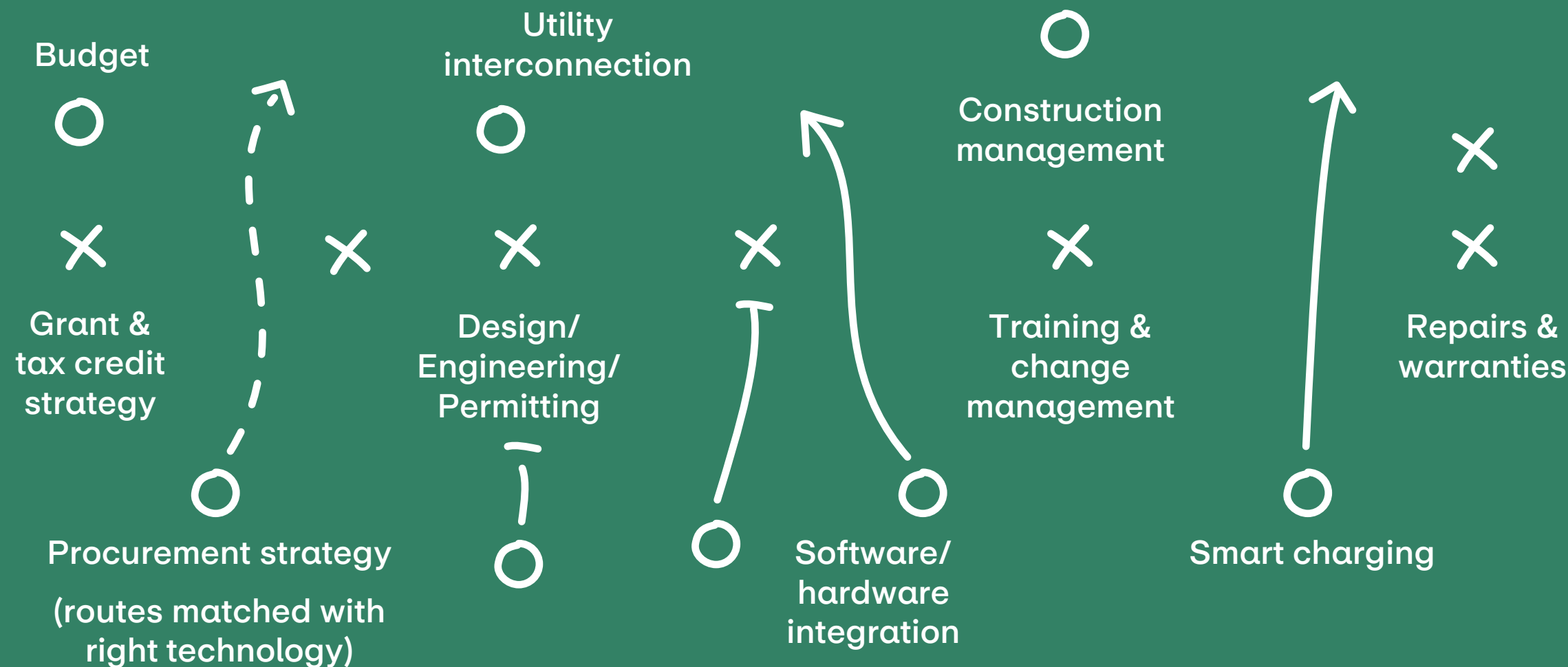
## RECYCLING



## ENERGY EFFICIENCY



# Be prepared to address project scope



# Thank You



[jane@highlandfleets.com](mailto:jane@highlandfleets.com)



## ELECTRIC FLEET

# Community benefits



### Community Health

Emissions-free vehicles eliminate toxic diesel fumes from school yards and neighborhoods.



### Environmental Justice

Electric school buses improve air quality for traditionally poor and underserved communities.



### School Budgets

Restore balance to your transportation budget with predictable pricing.



### Driver Satisfaction

Recruit and retain drivers with clean, quiet, and easy-to-drive vehicles.



### Climate

Upgrading your fleet to electric reduces pollution & greenhouse gas emissions.



### Academic Success

When your students breathe cleaner air, they miss less school and perform better.



### Emergency Resilience

As Distributed Energy Resources (DERs)—batteries on wheels—electric school buses can power your community in an emergency.



### Grid Modernization

With vehicle-to-grid technology (V2G), electric school buses are helping build America's new energy grid, buffering peak demand and providing storage capacity for renewable energy.







All Electric Vehicles



End-to-End Charger  
Management Software



Grants  
Assistance



Charging Infrastructure



## EV CHARGING INFRASTRUCTURE SOLUTIONS

Done Right The First Time



**Jessica Orton**  
Northern California  
Territory Sales Manager  
**916-202-1189**  
[jorton@azbus.com](mailto:jorton@azbus.com)



**Joe Ordonez**  
Southern California  
Territory Sales Manager  
**951-691-6702**  
[jordonez@azbus.com](mailto:jordonez@azbus.com)



[www.A-ZBUS.com](http://www.A-ZBUS.com)



# Turnkey EV Infrastructure Solutions from a Name You Can Trust!



**Your zero-emissions buses are on order, but the work is not yet done...**

The obstacles ahead....

- How will you charge your buses?
- What chargers are compatible?
- Who will install them?
- Does your site need significant upgrades to support them?
- And most importantly, how will you pay for them?

[evcharging@a-zbus.com](mailto:evcharging@a-zbus.com)

**A-Z Bus Sales completes the full circle of EV Fleet adoption and implementation by offering**

- Compatible Charging Hardware
- Route Evaluation
- Equipment Assessment
- Site Evaluation
- Complete Construction & installation management
- Revenue for your business through LCFS Credits

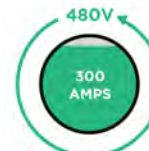
**Free Grant and Funding Assistance**

- Application assistance and program management for Grants and Public Utility Programs

## Charging Stations



**Level 2**



**Level 3  
(DC FAST)**

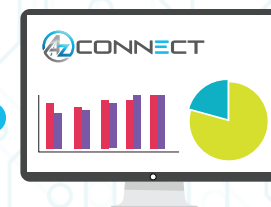


**Vehicle-to-grid  
(V2G)**



## Software

- Basic and Smart Charge Management Levels of Service
- Ongoing monitoring of EVSE health and Statistics
- Personalized and comprehensive activity reports
- Graphical dashboard showing real-time status
- 24x7x365 "Advanced Services" technical support





# BYD K7M

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

| 30' TRANSIT







# A New Kind of Bus

The 30' K7M is BYD's top-selling model for universities and corporate campuses, shuttling students and workers in quiet comfort. It performs well in smaller cities, at airports, performing arts venues and parking structures.

BYD's unique iron-phosphate batteries are the safest in the industry, and with a 12-year battery warranty and a nationwide network of service providers, reliability is guaranteed.

Our leasing program offers flexible financing options that are tailored to your organization. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K7M 30' TRANSIT

### DIMENSIONS

Length	30.7 ft
Width	95.7 in
Height	128 in
Wheelbase	195.2 in
Curb Weight	23,545 lbs
GVWR	31,967 lbs
Seats	Up to 22 + 1
Wheelchair Positions	2

### PERFORMANCE

Top Speed	56 mph
Range <sup>1</sup>	158 miles
Turning Radius	30.2 ft
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	285/70R19.5

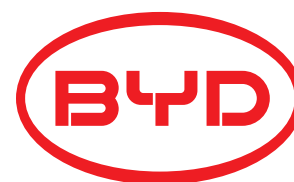
### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	90 kW×2
Max Torque	400 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	215 kWh
Charging Time <sup>3</sup>	1.5-2h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

**All information based on the latest data available at the time of printing. Final specs subject to change at production.**

- Variables affecting range include air temperature, weather, grade, speed, driver habits and use of air conditioning and heating.
- Initial battery capacity shown. May decrease with time and use.
- Battery age and outside ambient temperature affect charging times.
- AC, overhead and inductive charging options available.



**BYD COACH & BUS**  
46147 BYD Blvd.  
Lancaster, CA 93534

     
**en.byd.com**





# BYD K7MER

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

| 30' TRANSIT







# A New Kind of Bus

The 30' K7MER is BYD's top-selling model for universities and corporate campuses, shuttling students and workers in quiet comfort. It performs well in smaller cities, at airports, performing arts venues and parking structures.

BYD's unique iron-phosphate batteries are the safest in the industry, and with a 12-year battery warranty and a nationwide network of service providers, reliability is guaranteed.

Our leasing program offers flexible financing options that are tailored to your organization. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K7MER 30' TRANSIT

### DIMENSIONS

Length	29.9 ft
Width	102 in
Height	134 in
Wheelbase	175.8 in
Curb Weight	28,650 lbs
GVWR	37,479 lbs
Seats	Up to 20 + 1
Wheelchair Positions	2

### PERFORMANCE

Top Speed	65 mph
Range <sup>1</sup>	196 miles
Turning Radius	30.9 ft
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	305/70R22.5

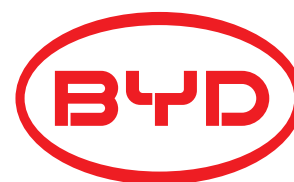
### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	150 kW×2
Max Torque	550 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	313 kWh
Charging Time <sup>3</sup>	2-2.5h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

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- Initial battery capacity shown. May decrease with time and use.
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Lancaster, CA 93534





# BYD K8M

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

| 35' TRANSIT







# A New Kind of Bus

Transit systems demand high quality and extreme reliability, and the American-built K8M deliver. The all-new 35' K8M offers a range of up to 196 miles on a single charge.

BYD's unique iron-phosphate batteries are the safest in the industry and come with a standard 12-year warranty, ensuring that you never have to pay for battery replacement during the service life of the bus.

The innovative BYD leasing program offers flexible financing options that are tailored to your needs. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K8M 35' TRANSIT

### DIMENSIONS

Length	35.8 ft
Width	102 in
Height	134 in
Wheelbase	222.7 in
Curb Weight	32,120 lbs
GVWR	43,431 lbs
Seats	Up to 32+1
Wheelchair Positions	2

### PERFORMANCE

Top Speed	65 mph
Range <sup>1</sup>	196 miles
Turning Radius	35.4 ft
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	305/70R22.5

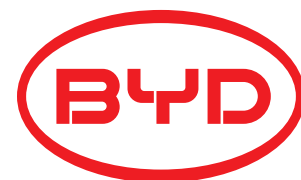
### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	150 kW×2
Max Torque	550 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	391 kWh
Charging Time <sup>3</sup>	3-3.5h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

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1. Variables affecting range include air temperature, weather, grade, speed, driver habits and use of air conditioning and heating.
2. Initial battery capacity shown. May decrease with time and use.
3. Battery age and outside ambient temperature affect charging times.
4. AC, overhead and inductive charging options available.



**BYD COACH & BUS**  
46147 BYD Blvd.  
Lancaster, CA 93534  
     
[en.byd.com](http://en.byd.com)





# BYD K9M

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

40' TRANSIT







# A New Kind of Bus

The 40' K9M is our best-selling model, ideal for public transportation, university campuses, airports and corporate campuses.

BYD's unique iron-phosphate batteries are the safest in the industry, and with a 12-year battery warranty and a nationwide network of service providers, reliability is guaranteed.

Our leasing program offers flexible financing options that are tailored to your organization. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K9M 40' TRANSIT

### DIMENSIONS

Length	40.2 ft
Width	102 in
Height	134 in
Wheelbase	246.1 in
Curb Weight	32,190 lbs
GVWR	43,431 lbs
Seats	Up to 37+1
Wheelchair Positions	2

### PERFORMANCE

Top Speed	65 mph
Range <sup>1</sup>	157 miles
Turning Radius	41.7 ft
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	305/70R22.5

### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	150 kW×2
Max Torque	550 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	313 kWh
Charging Time <sup>3</sup>	2-2.5h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

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- Initial battery capacity shown. May decrease with time and use.
- Battery age and outside ambient temperature affect charging times.
- AC, overhead and inductive charging options available.



**BYD COACH & BUS**  
46147 BYD Blvd.  
Lancaster, CA 93534





# BYD K9MD

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

| 40' TRANSIT







# A New Kind of Bus

The 40' K9MD is ideal for public transportation, university campuses, airports and corporate campuses.

BYD's unique iron-phosphate batteries are the safest in the industry and come with a standard 12-year warranty, ensuring that you never have to pay for battery replacement during the service life of the bus.

The innovative BYD leasing program offers flexible financing options that are tailored to your needs. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K9MD 40' TRANSIT

### DIMENSIONS

Length	40.9 ft
Width	102 in
Height	134 in
Wheelbase	284 in
Curb Weight	35,140 lbs
GVWR	44,754 lbs
Seats	Up to 42+1
Wheelchair Positions	2

### PERFORMANCE

Top Speed	65 mph
Range <sup>1</sup>	203 miles
Turning Radius	43.6 ft / 13.3 m
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	305/70R22.5

### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	180 kW×2
Max Torque	1500 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	446 kWh
Charging Time <sup>3</sup>	3-3.5h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

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2. Initial battery capacity shown. May decrease with time and use.
3. Battery age and outside ambient temperature affect charging times.
4. AC, overhead and inductive charging options available.



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Lancaster, CA 93534



[en.byd.com](http://en.byd.com)





# BYD K11M

BATTERY ELECTRIC • ZERO EMISSIONS • BUILT IN AMERICA



ELECTRIC &  
ECO-FRIENDLY

| 60' TRANSIT







# A New Kind of Bus

With the capacity to carry up to 55 seated passengers, the 60' K11M is ideal for high-volume urban transit systems and BRT lines. It is also perfectly designed to shuttle passengers at large airports, university campuses, entertainment venues and parking facilities.

BYD's unique iron-phosphate batteries are the safest in the industry, and with a 12-year battery warranty and a nationwide network of service providers, reliability is guaranteed.

Our leasing program offers flexible financing options that are tailored to your organization. With a lower total cost of ownership than diesel or CNG, it has never made more sense to electrify your fleet.



## BYD K11M 60' TRANSIT

### DIMENSIONS

Length	60.7 ft
Width	102 in
Height	134 in
Wheelbase	239.6/275.6 in
Curb Weight	53,150 lbs
GVWR	67,450 lbs
Seats	Up to 47+1 with 5 doors Up to 55+1 with 3 doors
Wheelchair Positions	2

### PERFORMANCE

Top Speed	65 mph
Range <sup>1</sup>	193 miles
Turning Radius	39.4 ft / 12 m
Approach Angle	≥8.6°
Departure Angle	≥8.6°

### CHASSIS

Front Axle	ZF front axle
Rear Axle	BYD in-wheel drive axle
Suspension	Air suspension with mechanical leveling valves
Brakes	Front & rear disc-brakes, ABS
Tires	305/70R22.5

### POWERTRAIN

Motor Type	Asynchronous Motor 3 Phase
Max Power	180 kW×2
Max Torque	1500 N·m×2
Battery Type	BYD LFP Battery
Battery Capacity <sup>2</sup>	578 kWh
Charging Time <sup>3</sup>	4-4.5h
Charging Capacity <sup>4</sup>	J1772 DC 150kW

#### Notes:

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[en.byd.com](http://en.byd.com)







**EVEN**  
RECHARGE

*Powering Clean Energy Journeys*

## *The first Environmentally and Financially Sustainable Mobile Off-Grid EV charging infrastructure Hub*



- *EV Charging*
- *Power Generation*
- *Digital Advertising*
- *Retail Opportunities*

### *Features :*

- *Off-Grid Solar Powered EV Charging*
- *Supports up to 4 Level 2 EV Chargers*
- *Provides Charging Rate of up to 35 miles per hour from each Charger*
- *Industry first Hydraulic Lift System*
- *Deliver and Set-up within hours*
- *Zero Construction Costs and Permitting Delays*
- *Remote Management - Solar, EV Charging, Retail, Advertising*
- *Branding and Wraps available*

### *Perfect Locations :*

- *Colleges, Apartments/Condos, Rural Communities, Workplaces, City Centers, Events, Hospitals/Clinics, Strip Malls*

*Renewable Energy + Retail/Digital Advertising = Positive ROI*

# Why offer an Advanced Technology Transportation Program?

To promote advanced technologies in public and private fleets and infrastructure operations throughout the Kern region to reduce emissions, promote sustainable travel modes, and maximize system efficiency.



## Contact Us

---

Kern Council of Governments  
1401 19<sup>th</sup> Street, Suite 300  
Bakersfield, CA 93301

Linda Urata, Regional Planner  
661-635-2904  
[lurata@kerncog.org](mailto:lurata@kerncog.org)

Visit us on the Web  
[www.kerncog.org](http://www.kerncog.org)

rev. 3 2022



## Advanced Technology Transportation

Kern Council of Governments





## Projects

Kern COG provides leadership and staff time for technical support on a variety of advanced technology transportation projects.

- Shared Mobility: MioCar
- EV Charging Station Deployment
- First Responder Training on Alt Fuels
- Public Awareness Campaign
- Electric Bicycles, Park and Ride Lots,
- Member Agency projects
- Managed the I5 Freight ZERO Pilot Study project completed in the second quarter of 2022

## Special Events and Workshops

Kern COG supports community outreach on alternative vehicles through hosting events, event sponsorships and providing staff time on planning committees.

- TRANSITions Transit Symposium
- EVs Made Easy Workshops
- National Drive Electric Week Public Awareness Campaign
- Best.Drive.EVer Test Drive Events
- Trucking with Clean Fuels Conference
- Community Fair Info. Booths
- Solar EV Car Curriculum for Teachers
- Blue Sky Partners

## Kern COG Member Services: Funding

Kern COG provides grant and incentive program updates to its members via email and during technical advisory committee meetings.

## Kern Medium- and Heavy-Duty Vehicle Zero Emission Vehicle (MD | HD ZEV) Infrastructure Blueprint

In partnership with Gladstein, Neandross and Associates, Kern COG was awarded a grant from the California Energy Commission (CEC). In 2022, GNA convened working group and stakeholder meetings and conducted research. Five High-Impact sites were selected for analysis. The Blueprint will be completed in April 2023. The blueprint will provide details and actions needed for implementation of the high-impact priority projects as well as regional infrastructure planning for MD | HD ZEV deployment.

## Kern EV Charging Station Blueprint

Kern COG produced the 2019 Kern Region Electric Vehicle Charging Station Blueprint document through a grant from the CEC. The project to develop the Blueprint also resulted in toolkits for site hosts to use when installing charging stations. Implementation of the Blueprint began immediately following adoption and will continue into 2022 and beyond. The document and toolkits may be found online at <https://www.kerncog.org/kern-electric-vehicle-charging-station-blueprint/>







**1.**  
**JOIN**  
**ÚNASE**



**2.**  
**RESERVE**  
**RESERVE**



**3.**  
**UNLOCK CAR**  
**DESBLOQUEE**  
**EL AUTO**



**4.**  
**DRIVE!**  
**¡CONDUZCA!**



**5.**  
**RETURN & PLUG IN**  
**TO CHARGE**  
**DEVUELVA Y CONÉCTE**  
**EL AUTO AL CARGADOR**

**Sign up and start driving within a week!**



Download on the  
App Store



GET IT ON  
Google Play

Download the Míocar mobile app and start driving within a week.

Descargue la aplicación móvil de Míocar y empiece a conducir dentro de una semana.

For more information you can go to  
[www.miocar.org](http://www.miocar.org),  
or call 559-379-6665.

Para mas informacion puede ir a  
[www.miocar.org](http://www.miocar.org),  
o llama al 559-379-6665.

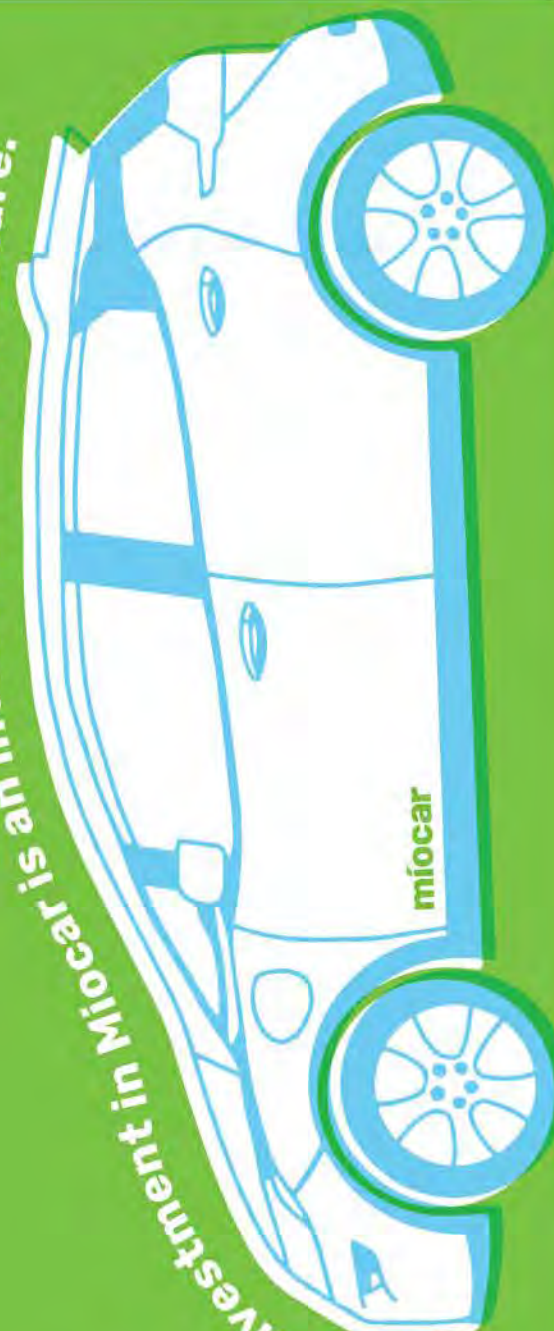
Míocar is part of California Climate Investments, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment — particularly in disadvantaged communities.

Míocar forma parte de las Inversiones del Clima de California, una iniciativa estatal que destina miles de millones de dólares de Cap-and-Trade para la reducción de gases de efecto invernadero, fortalecimiento de la economía y mejoramiento de la salud pública y el medio ambiente — especialmente en comunidades en desventaja.



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

*An investment in Míocar is an investment in the future.*



**míocar**  
the San Joaquin Valley's carshare



## Who We Are

Míocar is a revolutionary 100% electric vehicle (EV) carsharing service available in the San Joaquin Valley. Carsharing gives you the freedom to choose your vehicle when you need it for errands, appointments and much more. Carsharing also helps reduce air pollution. As a Míocar member you will have access to a network of shared electric vehicles in designated locations 24-hours a day, 7 days a week. Insurance and Car Maintenance is included.

## Quienes Somos

Míocar es un servicio revolucionario de auto compartidos 100% eléctricos disponible en el Valle de San Joaquín como parte de una estrategia regional de movilidad. El uso del auto compartido le da la libertad de escoger un vehículo cuando lo necesite para hacer mandados, ir a citas médicas y mucho más. El uso del auto compartido también ayuda a reducir la contaminación del aire. Los miembros tendrán acceso a una red de vehículos eléctricos compartidos en ubicaciones designadas las 24 horas al día, 7 días a la semana. El seguro y mantenimiento del coche está incluido.

## Pricing

\$20 one-time membership fee  
\$4 per hour  
\$35 per day weekday  
\$45 per day weekend  
(Starting Friday at 6pm and concluding on Sunday at 12am)  
\$0.35 per mile after 150 miles

## Tarifas

\$20 tarifa única de membresía  
\$4 por hora  
\$35 por día entre semana  
\$45 por día fin de semana  
(Comenzando el viernes de 6pm y terminando el domingo a las 12am)  
\$0.35 por milla después de 150 millas

## Our Cars Nuestros Coches



CHEVY BOLT

## Míocar Locations Lugares

Dinuba  
Orosi  
Visalia  
Wasco  
Arvin  
More to come!  
¡Más por venir!

### Applying is quick and easy:

- ⚡ You must be 21 or over
- ⚡ Have a relatively good driving record
- ⚡ Have a credit/debit/prepaid card
- ⚡ A valid driver license

### Registrarse es rápido y fácil:

- ⚡ Debe tener 21 años o más
- ⚡ Debe tener buenos antecedentes de conducción
- ⚡ Debe tener un tarjeta de crédito/débito/prepago
- ⚡ Una licencia de conducir valida





Valley Air District is offering incentives to buy and install  
**LEVEL 2 & LEVEL 3/DC FAST CHARGERS**  
to support  
**CHARGING INFRASTRUCTURE**  
in the Valley

## Who is eligible?

- Businesses, Multiple Unit Dwellings (MUDs) & Public Agencies
- Applicant must be located within San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and Valley portion of Kern counties.

## Types of Chargers & Funding Amount

	Level 2 EV Charger (240-volt)		Level 3 DC Fast Charger (480-volt)	
<b>CHARGE TIME</b>	Between 4-6 hours for a full charge depending on battery of the electric vehicle		Between 20-25 minutes for up to an 80% charge	
<b>FUNDING AMOUNT</b>	Level 2 Single Port	Up to \$5,000 per unit	Level 3/DC Fast Charger	Up to \$25,000 per unit Applicant Cost Share: 30% of total cost
	Level 2 Dual Port	Up to \$6,000 per unit		

Funding Cap: \$50,000 annually per applicant/site

## How the Program Works

- 1 Submit an on-line application and include all supporting documentation, visit [valleyair.org/chargup](http://valleyair.org/chargup).
- 2 Once deemed complete and eligible, the District will issue a voucher and claim packet.
- 3 Applicant has 1 year from execution of the voucher to purchase and install the EV charger(s) at the location identified in the application.
- 4 Once all EV chargers are installed and are fully operational, redeem voucher by submitting the claim packet to the District.
- 5 Once claim is deemed complete, the District will issue a reimbursement check to the applicant.

## Examples of Eligible Sites

- › **Public Areas:** Parks, shopping centers, or restaurants.
  - › **Workplace:** Public agencies, businesses, offices, or schools.
  - › **Multi-Unit Dwellings (MUD):** Apartment complexes or condominiums.
- \* Residential charging is ineligible for this program**

## For Level 3 Chargers

- › Site must be publicly accessible 24 hours a day and 7 days a week.

## More Information

Specific requirements, supporting documentation and application can be found at [valleyair.org/chargup](http://valleyair.org/chargup) or call **559.230.5800** to speak with the Charge Up! team.

## INCENTIVES

The Valley air basin has made significant progress toward clean air since the District was formed more than two decades ago. However, challenges remain to meet ever-tightening air quality health standards. Consequently, more than half a billion in funding is made available for clean air projects in the Valley air basin each year.

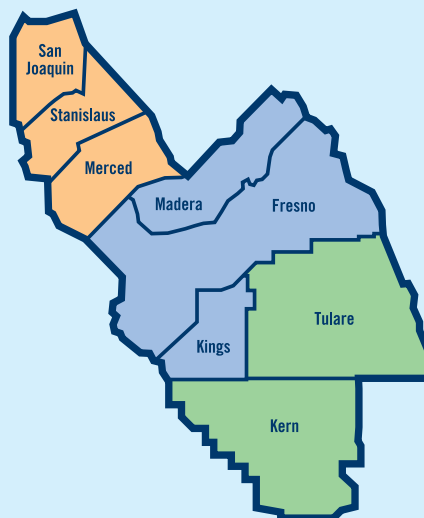
The District operates one of the largest and most well-respected voluntary incentive programs in California, with more than two billion dollars in public and private funds invested to date and more than 100,000 tons of lifetime emissions reduced. Funding through the District has increased more than 1000 percent in fewer than 10 years, reflecting the commitment of the District, businesses and industry, residents and municipalities to clean the air and improve the quality of life in the Valley.

## TECHNOLOGY

The District's Technology Advancement Program (TAP) provides funding for businesses and individuals to demonstrate and develop new emission-reduction technology.

TAP has four critical focus areas tailored for Valley businesses and sources of emissions, including: researching alternatives to minimize or eliminate emissions from open burning of agricultural biomass; finding renewable energy systems that are cleaner or zero emission compared to their nonrenewable alternatives; identifying technologies that eliminate emissions from existing waste management processes; and demonstrating zero- or near-zero emissions solutions to mobile source categories.

For more information, visit [www.valleyair.org](http://www.valleyair.org) or contact the nearest District office.



### Northern Region

*Serving San Joaquin, Stanislaus and Merced counties*  
4800 Enterprise Way, Modesto, CA 95356-8718  
Tel: 209-557-6400 FAX: 209-557-6475  
Complaint Line: 1-800-281-7003

### Central Region (Main Office)

*Serving Madera, Fresno and Kings counties*  
1990 E. Gettysburg Avenue, Fresno, CA 93726-0244  
Tel: 559-230-6000 FAX: 559-230-6061  
Complaint Line: 1-800-870-1037

### Southern Region

*Serving Tulare and Valley air basin portions of Kern counties*  
34946 Flyover Court, Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585  
Complaint Line: 1-800-926-5550

[www.valleyair.org](http://www.valleyair.org) & [www.healthyairliving.com](http://www.healthyairliving.com)



**HEALTHY AIR LIVING™**



/valleyair



@valleyair



@valleyairdistrict

# INCENTIVE GRANTS



**San Joaquin Valley**  
AIR POLLUTION CONTROL DISTRICT

1-800 SMOG INFO  
[www.valleyair.org](http://www.valleyair.org)

**For more information visit [valleyair.org/grants](http://valleyair.org/grants) or call the Incentives Department at 559 230 5800**



## **PUBLIC AGENCIES**

Public agencies can make clean-air changes on a large scale through infrastructure improvements, upgrading a vehicle fleet or establishing a telecommuting program. All of these are possible through our public agency grants, which include a variety of programs:

- **Public Benefit Grants**  
For the purchase of new, alternative-fuel vehicles and infrastructure
- **School Bus Program**  
To retrofit or replace existing school buses with new emission-control systems
- **Bike Paths**  
Establish bicycle infrastructure
- **Public Transportation Subsidy and Park & Ride Lots**  
Subsidize passes for bus, shuttle and commuter rail services and constructing park and ride lots
- **Clean Green Yard Machines: Commercial**  
Provides incentives for the replacement of landscape maintenance equipment to lawn care providers
- **Charge-Up**  
Provides funds for businesses and public agencies to purchase and install electric vehicle chargers for public use
- **Alternative Fuel Mechanic Training**  
Provides funds for mechanic education or training in alternative-fuel vehicles and infrastructure



## **RESIDENTS**

With financial assistance from the Air District, making a significant change for clean air is surprisingly easy through any of the following incentive grants:

- **Burn Cleaner**  
Change out open hearth and older, polluting wood-burning devices for cleaner, gas-burning devices
- **Clean Green Yard Machines: Residential**  
Receive a rebate when you replace an old gas-fueled lawn mower with a new electric lawn mower or get a rebate for the purchase of new electric powered landscape equipment without having to replace an old piece
- **Drive Clean in the San Joaquin**
  - REPAIR**  
Free auto emission checks and repair vouchers
  - REPLACE**  
Replace older, high polluting vehicles with cleaner, newer models
  - REBATE**  
Rebates for purchasing or leasing a new clean-air vehicle
- **Vanpool Voucher**  
For vanpooling to work



## **BUSINESSES**

The incentives program can make it possible for business owners to adopt a cleaner, economical technology that helps their business while improving air quality. Some options include:

- **Tractor Replacement Program** – Replacement for in-use, off-road ag tractors and mobile equipment
- **Ag Pump Replacement Program** – To replace or repower ag pump engines and motors
- **Truck Replacement Program** – For truck owners to replace heavy-duty & medium-duty on-road diesel trucks
- **Off-Road Replacement** – Replaces off-road, in-use, heavy-duty construction and other non-agricultural equipment
- **Locomotive Replacement** – Replaces in-use switcher & short-line locomotives
- **Forklift Program** – For the purchase of electric forklifts
- **Low-Dust Nut Harvester Replacement Program**  
Replaces traditional nut-harvesting equipment with low-dust harvesting equipment
- **Electrified Dairy Feed Mixing Program** – Installation of electrified feed mixing equipment at Valley dairies and other confined animal feeding operations



# FUNDING STILL AVAILABLE *for Shuttle & Transit Buses*

## Interested in Funding for Clean Buses?

The VW Mitigation Trust has \$130 million in funds to replace older, high-polluting transit and shuttle buses with new battery-electric or fuel-cell buses. Replacing an older bus with a zero-emission bus eliminates particulate matter and other pollutants that impact children and residents riding the buses, as well as residents throughout California communities. During the project's 10-year period, approximately 425 vehicles will be replaced with an incentive amount of up to \$400,000 per vehicle.

Get started! [vwBusMoney.valleyair.org](http://vwBusMoney.valleyair.org)



SCAN ME

### Zero-Emission Transit and Shuttle Buses\*

2<sup>nd</sup> Installment  
**\$65m**

**TOTAL FUNDING:** \$130M

**VEHICLE TYPE:** Replacement of Class 4-8 Transit & Shuttle Buses

**REPLACEMENT TECHNOLOGY:** Zero Emissions Only

\* The zero-emission school bus bin of the VW Mitigation Trust Fund is now oversubscribed, and applications are no longer being accepted for Installment Two of the fund.

*Funding is available statewide with applications available through online portals only and open to both public and private entities. Scrapping of old vehicles/equipment/engines is required, and at least 50% of the funding is expected to reduce emissions in disadvantaged or low-income communities.*