

## **REVOLUTIONIZING TRANSIT™**







# BUILT TO BE ELECTRIC FROM THE INSIDE OUT

Designed from the start as an exclusively electric vehicle, everything about a Proterra Catalyst® bus is built with safety, efficiency, and a smooth ride in mind. The Catalyst vehicle delivers exceptional route flexibility and proven operational peformance, with the greatest range of any zero-emission, battery-electric bus in its class.

#### **ADVANCED DESIGN**

Made with an advanced carbon-fiber-reinforced body, the Catalyst vehicle is designed to safely and quietly endure nearly two decades of on-road service, with minimal maintenance required.

- Bus body made of carbon-fiber-reinforced composite materials
- Lighter than steel counterparts, enabling the highest battery capacity
- Extremely durable composite is impact- and corrosionresistant and easy to repair
- Maximizes vehicle life while minimizing repairs and maintenance





The innovative design of the Catalyst® vehicle enables us to have the most battery capacity on board for maximum range. The purpose-built design also allows for the best placement of battery packs, underneath and outside of the passenger compartment and creating a lower center of gravity for the greatest stability and safety.



# ZERO EMISSIONS ALL THE POWER PROTERRA With Proterra, you don't have to compromise on performance when you go electric. In fact, our Catalyst® vehicle out-performs combustion-engine buses and is the most efficient bus in its class.

#### THE **PRODRIVE** DRIVETRAIN

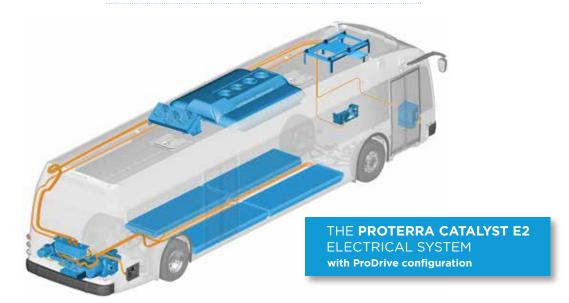


The ProDrive drivetrain, the standard option for the Catalyst\* vehicle, offers superb performance and efficiency, enabling up to 22 miles per gallon equivalency (MPGe). That's five times more fuel-efficient than a standard diesel bus.

#### THE **DUOPOWER™** DRIVETRAIN



Communities with more demanding conditions and tougher terrain may opt for the DuoPower™ drivetrain, which provides unparalleled performance and up to 25 MPGe. Featuring two electric motors, this drivetrain can accelerate the Catalyst 1.5 times faster than a standard diesel bus, with nearly twice the horsepower, enabling industry-leading hill climb capabilities.



## **FASTEST**ACCELERATION

1.5 times faster than a standard diesel bus

## 5X MORE EFFICIENT THAN A DIESEL BUS

Up to 25 MPGe

## **GREATEST** HORSEPOWER

Nearly twice as powerful as a standard diesel bus, able to tackle steep hills with grades up to 27%, with a full seated load weight

## NORTH AMERICA'S **ELECTRIC BUS**





















WICHITA































TRANSIT











TRI DELTA TRANSIT







































NORMAN Y. MINETA
SAN JOSE

INTERNATIONAL A I R P O R T











CARTA metro











MONTANA

























































# CATALYST® 40 FT BUS

Our most popular vehicle, the 40-foot Catalyst electric bus, can hold up to 660 kWh

of energy and drive more than 300 miles on a single charge. With the longest range and best performance, the E2 max with the DuoPower™ drivetrain is the iconic model that broke the world record for the longest distance traveled by any electric vehicle on a single charge.

ALL CATALYST MODELS charged on-route with overhead fast chargers olug-in or overhead chargers. All models take or at the depot ove J1772 CCS plug-in or J3105 overhead chargers

PROTERRA

|                       | wi   | with DUOPOWER™ |       |      | with PRODRIVE |       |  |
|-----------------------|------|----------------|-------|------|---------------|-------|--|
|                       | XR   | E2             | E2MAX | XR   | E2            | E2MAX |  |
| ENERGY ON BOARD       | 220  | 440            | 660   | 220  | 440           | 660   |  |
| MAX RANGE* (miles)    | 120  | 232            | 329   | 117  | 216           | 297   |  |
| MPGe*                 | 23.5 | 22.2           | 20.9  | 22.2 | 20.9          | 19.8  |  |
| PEAK HORSEPOWER       | 338  | 550            | 550   | 335  | 335           | 335   |  |
| ACCELERATION 0-20 MPH | 5.7  | 5.7            | 5.8   | 6.0  | 6.2           | 6.4   |  |
| SEATING CAPACITY      |      | 40             |       |      | 40            |       |  |

Available in both the XR and E2 series, this model can carry up to 440 kWh of battery storage capacity, reach a maximum range of 240 miles and an operating efficiency of 25 MPGe.

|                       | with DUC | POWER™ | with PRODRIVE |      |  |
|-----------------------|----------|--------|---------------|------|--|
|                       | XR       | E2     | XR            | E2   |  |
| ENERGY ON BOARD       | 220      | 440    | 220           | 440  |  |
| MAX RANGE* (miles)    | 125      | 240    | 124           | 227  |  |
| MPGe*                 | 25.1     | 23.5   | 23.5          | 22.2 |  |
| PEAK HORSEPOWER       | 338      | 550    | 335           | 335  |  |
| ACCELERATION 0-20 MPH | 5.6      | 5.7    | 5.9           | 6.1  |  |
| SEATING CAPACITY      | 2        | 9      | 2             | 9    |  |

\* Operating range and efficiencies approximated from simulations based on Altoona testing results at SLW, and will vary with route conditions, weather, vehicle configuration and driver behavior

# REQUEST A ROUTE ANALYSIS

Experts on the Proterra team perform detailed route simulations and total cost of ownership analyses to help you match the on-board energy storage, drivetrain and charging configurations to your route requirements, total daily mileage and layover options. Get in touch with us to request your route analysis and find out which Catalyst vehicle is best for your transit needs.

proterra.com/contact

# BANK ON THE SAVINGS

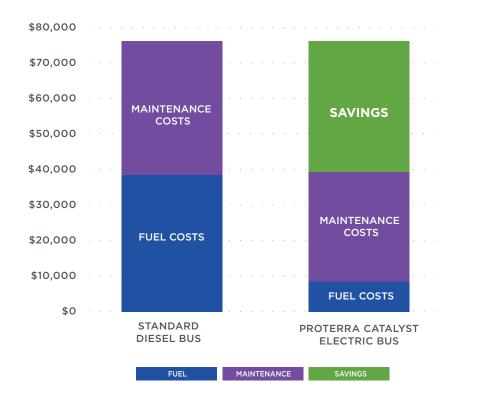
Proterra Catalyst® vehicles aren't just clean and quiet. They're also far more economical than conventional transit vehicles. Imagine not having to maintain an engine, with its fuel system, cooling system or exhaust system. With Proterra, all that effort and expense is a thing of the past.

Thanks to lower maintenance costs, the stable cost of electricity, and exceptional fuel economy, Proterra customers can save more than \$400,000 in operating costs over the lifetime of each vehicle.

# oil changes • liquid fuels • expensive exhaust after-treatments

### LOWER OPERATING COSTS

Save up to \$400K per bus over a 12-year lifetime vs. diesel vehicle



## SIMPLIFY THE SHIFT WITH FINANCING

Proterra can help you make the shift from fossil fuels to zero-emission electric buses with a variety of financing and funding options. We'll work with you to identify the grant, loan or financing program that best meets your budget needs.

> **OPERATING** COST SAVINGS **ENABLE LEASE** FINANCING:

Example battery lease financing model.

For illustrative purposes only.

**MAINTENANCE** COSTS

**FUEL COSTS** 

## **SAVINGS**

**BATTERY** 

**PROTERRA** 

#### MUNICIPAL CAPITAL LEASE

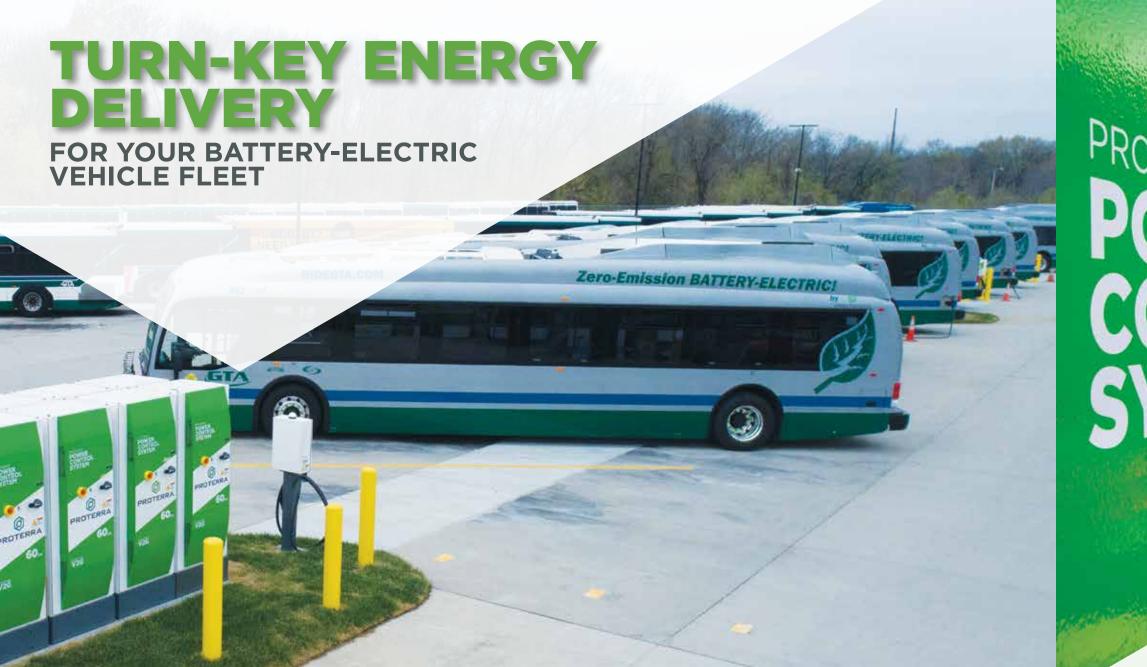
A generally low-cost financing tool for local governments with investment-grade credits. Offers structured ownership that enables you to own a Proterra® bus at the end of the lease term.

#### **OPERATING LEASE**

Operating leases allow you to pay for the use of a bus over time, with the option to permanently transition the bus into vour fleet.

#### BATTERY LEASE

A battery lease enables you to buy a Catalyst bus for roughly the same price as a diesel bus, putting the operating savings toward the battery lease. Proterra is responsible for the performance of the batteries through the life of the lease, removing operator risk.





COMPREHENSIVE PLANNING

TURN-KEY INFRASTRUCTURE INSTALLATION
SOPHISTICATED CHARGING

SMART ENERGY MANAGEMENT

ADVANCED ENERGY STORAGE

PAY-AS-YOU-GO

## YOUR PARTNER FOR A ZERO-EMISSION FLEET

At Proterra, we don't just design and build the world's most efficient heavy-duty electric vehicles. We're your partners in successfully transitioning to a zero-emission fleet. Proterra Energy™ fleet solutions offer a turn-key approach to delivering the complete energy ecosystem for heavy-duty electric fleets, including design, build, financing, operations, maintenance and energy optimization.

# OPTIMIZE OPERATIONS, REDUCE COSTS

With the Proterra APEX™ Connected Vehicle Intelligence System, you can access cloud-based data that gives you historical and real-time performance information about your battery-electric vehicle fleet, to optimize your bus and charging operations and reduce costs.

Vehicle monitoring | Remote diagnostics | Preventative maintenance | Charger management

# **PROTERRA® Connected Vehicle Intelligence System**





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Proterra\* vehicles and chargers are designed and manufactured in the USA by America's top transit designers and engineers, compliant with Federal DOT Buy America requirements.

REVOLUTIONIZING TRANSIT