PURE ELECTRIC. ZERO EMISSIONS
Cleaner cities. Quieter streets. Zero emissions. Lower operating costs. The benefits of the BYD ADL Enviro200EV are clear.

The Enviro200EV brings together the proven battery and electric technology of BYD and the outstanding design and build expertise of Alexander Dennis Limited (ADL). BYD is one of the world’s leading manufacturers of all-electric buses, having produced around 35,000. ADL is the UK market leader and one of the world’s fastest growing specialists in designing and building buses that meet the demands of modern operators.

World-leading technology. Built in Britain

The Enviro200EV pure electric bus may be the shape of the future, but it’s grounded solidly in meeting the needs of today’s operators. The battery technology at the heart of the Enviro200EV is already well-established through millions of miles of passenger-carrying service around the globe and is already delivering significantly lower costs of operation. Add the proven design and build track record of ADL into the mix and you have a world-class bus that’s ready to go into service now.

The infrastructure required to maintain the vehicle, such as charging points, can be supplied by BYD and is easily deployable and more than flexible enough to comply with relevant building and planning regulations. The new age of urban transport is here.
The Enviro200EV is the future of urban transport. Cleaner air and lower noise levels - both inside and out - open up opportunities never dreamed of before.

City streets free from fumes and pollution. City centres where you can hear yourself talk. A more relaxed, healthier, cleaner life for us all.

But there’s more to this quiet revolution than the social and environmental benefits.

Think about what a low-noise bus means when it comes to running night services that won’t disturb anyone’s sleep. Think about opening routes through quiet zones and streets which, previously, would be off limits to noisy and polluting buses.

Think about a better quality of life that’s all made possible by the Enviro200EV.

Zero Emissions
Pure electric means no more carboxylate CO$_2$, or NO$_x$, particulate pollution, helping improve air quality in urban areas.

Reduced Operating Costs
The cost of electricity to operate the BYD ADL Enviro200EV is approximately a third of the price of diesel fuel. It not only saves the environment, but also reduces your operating costs by charging at night on low rate electricity.

Quiet Comfort
Because the Enviro200EV is a zero emissions vehicle it has no diesel engine noise, delivering an extremely quiet experience both for passengers and other road users.

A cleaner future for our cities
One of the attractions of the all-electric, zero-emissions Enviro200EV is the fact that acceleration is seamless.

No gear changes mean a gentle, smooth and quiet experience that all passengers will love. Better still, the Enviro200EV retains all the class-leading features of ADL’s proven and successful Enviro200 single deck bus, including excellent low-floor access, a spacious interior, large windows and LED lighting.

It all adds up to a superior ride, building on ADL’s world of experience in designing and manufacturing exceptional buses and incorporating BYD’s cleaner, quieter electric powertrain and industry-leading battery technology. Unlike their competitors, the BYD batteries allow full operation of an average urban daily shift without recharging being necessary.

PURE PLEASURE
A better way to travel

Welcome Environment
Spacious low floor, bright and airy interior with large windows and LED lighting. A sophisticated temperature control system and hopper windows provide an enhanced passenger experience.

Quiet, Comfortable and Smooth Ride
Comfortable seating with no compromise on legroom – capacity for up to 50 passengers, who can expect a gentle and peaceful ride thanks to an electric drive free from engine noise and delivering its power smoothly.

Easy Access
Low entry, wide door, unobstructed gangway and a flat floor coupled with ample space for buggies and wheelchair users.

Quiet, safe, comfortable ride.

Without gear changes. Just a smooth, quiet and relaxed experience.

No gear changes.
Just a smooth, quiet and relaxed experience.

A better way to travel
Pure Performance
An environmentally-friendly bus designed to deliver reduced operating costs

BYD’s development approach is integral to their global electric bus leadership – 35,000 buses produced.

Operating costs are lower, thanks to a significant reduction in fuel costs.

By working with ADL, these benefits have been built into a bus that is a joy to travel in and a dream to drive. The driver’s environment is extremely comfortable, it’s a world-class ergonomic workspace that offers superior visibility. Better still, the quieter operating environment reduces stress, while improving bus operators’ bottom line.

Operational Benefits at a Glance
- Zero emissions powertrain combined with electric accessories, electric cooling and light body weight offers significant reduction in fuel costs.
- Efficient, rapid charging within 4hrs for maximum productivity, reducing downtime by an outstanding 18hrs service on a single charge.
- Regenerative Braking System converts part of the kinetic energy into electricity and stores it in the battery to give additional driving range.
- ADL lightweight aluminium body structure reduces kerb weight and controls performance.

The Power at the Heart of the Enviro200EV
BYD is the first company in the world to make full commercial use of Iron-Phosphate batteries.

- Environmentally-friendly: BYD batteries don’t include any heavy metals or electrolytes. No emissions or pollution are caused during production. Waste batteries can be recycled with minimal environmental impact.
- Long service life: Even after 10 years’ continuous operation and recharging by 10,000 times or more, BYD batteries retain 75% of their charge.
- Stable and safe: BYD’s batteries have passed rigorous tests for safety, including crash, impact, fire and penetration by sharp objects.

Driver Comfort
The driver’s area is spacious and offers a clear panoramic view for optimal operating environment.

Front and Rear Suspension
State-of-the-art suspension for improved ride comfort, reduced costs and greater reliability.

DQR – Quick Release Glazing
ADL’s patented DQR system reduces window replacement time and can be done by one person alone.

Simple Maintenance
Expansive doors and panels provide direct access to key components, for efficient servicing and repairs.

Low Cost, Rapid Charging
The BYD AC charger’s space-saving design allows convenient installation and after fast charging for all BYD commercial electric vehicles.

Optional power outlets and 240V sockets allow charging of electronic devices in the passenger area.

Electric Powertrain System
- Regenerative Braking System converts part of the kinetic energy into electricity and stores it in the battery to give additional driving range.
- Wheel-Hub Motor Assembly
- Electric Powertrain System

The Rear Drive axle system, developed by BYD, integrates the wheel-hub drive and regenerative braking technology, and, at the same time, provides exceptional passenger comfort.

- Regenerative Braking System
- Wheel-Hub Motor Assembly
- Electric Powertrain System

The Enviro200EV features a Regenerative Braking System, which converts part of the kinetic energy into electricity and stores it in the battery to give additional driving range.

The driver’s environment is extremely comfortable, it’s a world-class ergonomic workspace that offers superior visibility. Better still, the quieter operating environment reduces stress, while improving bus operators’ bottom line.

Battery configuration shown is for illustrative purposes only.
Pure Versatility

Chassis Powertrain System

- Blocks Powertrain System has been designed with integral side skirts, including hinges and fixing heads, to prevent build-up of water ingress without the need to apply messy sealants. The glass can be replaced unique sealing system reducing water ingress without the need to apply messy sealants. The glass can be replaced uniquely and is more cost-effective to replace than a gasket glazed vehicle. The glazing has a modern appearance both inside and out, while being quicker to replace than a gasket glazed vehicle. The glazing has a modern appearance both inside and out, while being quicker to replace than a gasket glazed vehicle. The glazing has a modern appearance both inside and out, while being quicker to replace than a gasket glazed vehicle.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless steel in areas of higher stress ensuring a high level of strength in these areas. All vehicles offer low entry as standard with a floor that is tunable to work at height from platforms. Front and rear glass is bonded.
- The roof consists of single piece composite panels bonded to work at height from platforms. Front and rear glass is bonded.
- The low weight body structure consists primarily of stainless ste...
Alexander Dennis Limited (ADL) has a policy of continuous development. We reserve the right to change specifications at any time without prior notice. For the latest details always consult ADL. 10/18

Enviro is a registered trademark of Alexander Dennis Limited and is reproduced under permission of Alexander Dennis Limited.