

# Cleaner & Greener Hybrid Technology from Alexander Dennis



**ALEXANDER  
DENNIS**



# Cleaner & Greener Hybrid Technology

Hybrid technology from Alexander Dennis is achieving fuel and CO<sub>2</sub> reductions of over 30% - and has the added benefit of reduced vehicle maintenance.

It's proven technology that has helped make ADL Europe's leading supplier of low carbon hybrid buses.

Developed in partnership with BAE Systems - one of the world's foremost technology businesses - ADL's hybrid solution uses unique technology designed and engineered for BUS applications. It brings together cutting-edge innovation and familiar engine, powertrain and axle components, and is now established as the most efficient and reliable hybrid solution for bus operations.

## The Benefits

- **Lower emissions** - Produces over 30% less CO<sub>2</sub>, fewer particulates and less NOx.
- **Guaranteed improved fuel economy** - ADL guarantees fuel savings for its hybrids compared to equivalent diesels.
- **Smoother acceleration and performance** - The electric powertrain is precisely controlled to provide smoother acceleration, making life easier for both passengers and drivers.
- **Optimises environmental and road performance** - The operator can specify the optimum operating parameters for any route, providing a balance between performance, economy and emissions.
- **Quieter operation** - Lower exterior and interior noise levels thanks to electric energy driving the bus.
- **Reliable & proven in service** - There are thousands of buses using this technology in revenue earning operations, ranging from the UK and Continental Europe to North America - and the system has proven to be highly reliable and durable.
- **Low maintenance conventional installation** - The Cummins ISBe high efficiency diesel is a familiar well-specified and durable bus engine with an outstanding track record. It features conventional drives for the air compressor, hydraulics and alternator.
- **Fleet integration** - ADL hybrids integrate seamlessly into any fleet. They are simple to drive, requiring no special techniques; have lower maintenance needs and use conventional driveline components.
- **Lithium Ion batteries** - High power, long life Lithium Ion batteries are used and typically have a minimum five-year lifecycle. They are the lightest batteries available, allowing greater passenger capacity and require no mains battery recharging.



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## ENVIRO<sup>200H</sup>

### Low Floor Hybrid Midi Bus

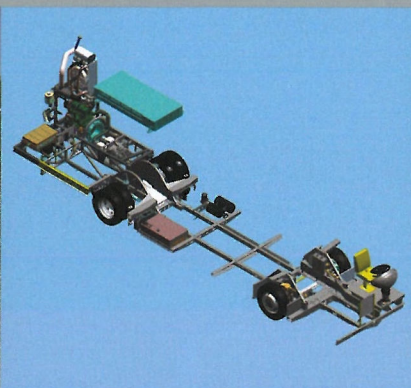
8.9m - 10.8m

Enviro200H is a stylish hybrid midi bus derived from ADL's Enviro200 - a vehicle that's firmly established as Britain's best-selling bus - sharing its unique combination of passenger appeal, reliability, low operating costs, customer support and distinctive style.

The Enviro200H range extends from 8.9m to 10.8m with between 26 and 39 seats and is available in single or two door options. It uses ADL's hybrid technology to produce significant fuel economy savings and emission reductions.

It's most suitable for urban and city centre routes where the fuel saving characteristics of the series hybrid system come to the fore, but is also at home in rural environments, with excellent manoeuvrability and ample power for undulating routes.

Sharing its appearance and many components with other vehicles in the Enviro range, the Enviro200H embraces a wide range of attractive features that bring benefits and added value to operators, service engineers, drivers and passengers alike.



## ENVIRO<sup>350H</sup>

### Low Floor Hybrid Single Deck Bus

12m

The ADL Enviro350H is a purpose-designed and engineered 19 tonne single deck hybrid bus chassis. It combines a proven and reliable hybrid powertrain with innovative packaging that offers unrivalled passenger space and a wide choice of seating and door layouts.

Designed from the outset as a hybrid, the super-low-floor chassis features drive and power units packaged to take up the minimum space. However, they remain easily accessible for routine maintenance and repair. This unique packaging makes Enviro350H suitable for one, two and three-door layouts.

Like all ADL hybrids Enviro350H provides passengers with excellent access, improved comfort and a quieter and smoother ride.

The Enviro350H promises reduced operating costs, better reliability and lower maintenance requirements - plus an exceptional environmental performance.



## ENVIRO400H

# Low Floor Hybrid Double Deck Bus 10.2m - 11.4m

Enviro400H is a stylish and attractive double deck offering low cost of operation and a host of passenger-friendly features. It's derived from ADL's popular Enviro400 - Britain's definitive double deck bus.

Enviro400H's unique combination of innovation and style includes a bright and welcoming interior with excellent access and seating capacity. It's available in single or dual door specifications with a wide range of interior options, including luxury commuter trim and is fully compliant with ECWVTA legislation.

This hybrid double deck has been hugely successful in demanding London operations, its success being mirrored in towns and cities across the UK including Manchester, Oxford, Reading and Edinburgh, creating a nationwide fleet of greener and cleaner buses on many of the UK's highest profile routes. The Enviro400H is the UK's best selling hybrid-electric bus and introduces a new era of quieter, greener, cleaner, fuel efficient transport solutions.

### Hybrid open top tourist bus

An innovative tourist double deck is the latest addition to ADL's best-selling hybrid range. Designed to provide exceptionally low emissions and fuel economy combined with all the style and utility of a pace-setting tourist vehicle, it is raising the stakes for tourist operations around the world.



## World class customer support

ADL is committed to supporting the hybrid range - like all products - to the highest level, ensuring that they return maximum operational revenue with minimum downtime.

ADL employs a team of 300 people dedicated to aftermarket support.

Skelmersdale in North West England is at the heart of ADL's worldwide parts and service operation. This 50,000ft<sup>2</sup> facility carries a £15 million inventory of parts - 30,000 parts lines, with 2,000 lines shipped every day. At 96% 'first pick', parts availability sets the standard for the industry.

There is a single point of contact for all parts and service enquiries through a sophisticated UK based call centre staffed by fully trained and knowledgeable personnel. Next day parts delivery is guaranteed in the UK, while 24-hour service support is provided by a team of highly skilled engineers located throughout the country, providing swift response to service needs from their fleet of mobile workshops. Additionally ADL hybrid operators have access to the specialist hybrid expertise provided by BAE Systems' team of mobile service engineers.

There's a whole range of fixed price service and parts contracts available, each tailored to the exact needs of the customer, including fixed price parts packages running from 1 to 10 years.

**Single Point of Contact Call 0845 358 9988**





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