



VOLGREN

A Marcopolo Company

GO ELECTRIC WITH VOLVO

The all-new Volvo BZL Electric

VOLGREN OPTIMUS E-BUS

AUSTRALIA'S MOST
POPULAR CITY BUS BODY
WITH ZERO EMISSIONS

A LOCALLY BUILT BUS BODY UNLIKE ANY OTHER

The result of literally thousands of hours of research and on-route testing, Volgren's new E-Bus is one of the lightest zero-emission bus bodies in its class.*

Combining everything operators know and trust in the company's flagship Optimus route bus, the lightweight design delivers longer range, less downtime for charging and Volgren's unmatched total cost of ownership.

More space, greater capacity and comfort, the E-bus is Volgren's safest bus yet, complying with the highest levels of safety and flammability standards for buses in Australia.



250+ KM RANGE*

PANEL 3 TFNSW COMPLIANT (OPTIONAL)

WHEELCHAIR ACCESSIBLE

USB CHARGE POINTS

ELECTRIC SALOON DOORS FOR EASY BOARDING AND EXIT, AND TS155 DOOR COMPLIANCE SAFETY SYSTEM

JUST OVER 2 HOUR RECHARGE TIME ^

CCS2 DC CHARGING SYSTEM

AUSTRALIA'S LARGEST AFTER SALES SUPPORT NETWORK

15 YEARS WARRANTY ON THE BODY STRUCTURE

DRIVER COMFORT

31-47 SEATING CAPACITY

VOLVO
New Volvo BZL Electric

EMERGENCY EXIT

*Dependent on climate conditions and operational conditions such as the route and behavior of the driver.
^Dependent on charging equipment.

*Sub-5000KG inclusive of seats, battery covers and air conditioners



INTRODUCING THE VOLGREN E-BUS BODY

Tested by engineers and operators, the Optimus E-Bus is being enjoyed by passengers and drivers on the streets of Sydney, Melbourne, Brisbane and Perth.

Functional and easy to drive, passengers will enjoy the silent comfort and spacious layout, USB charge points and electric salon doors for easy boarding and exit.

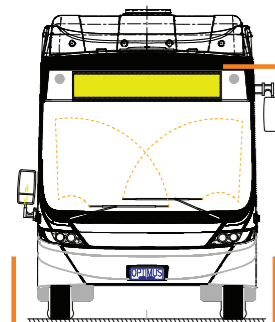
Compliant with all ADR standards, Volgren's E-Bus Body is our safest bus yet, complying with the highest levels of safety and flammability standards for buses in Australia.

emissions
and the bus
and delivery

GO ELECTRIC
WITH VOLVO

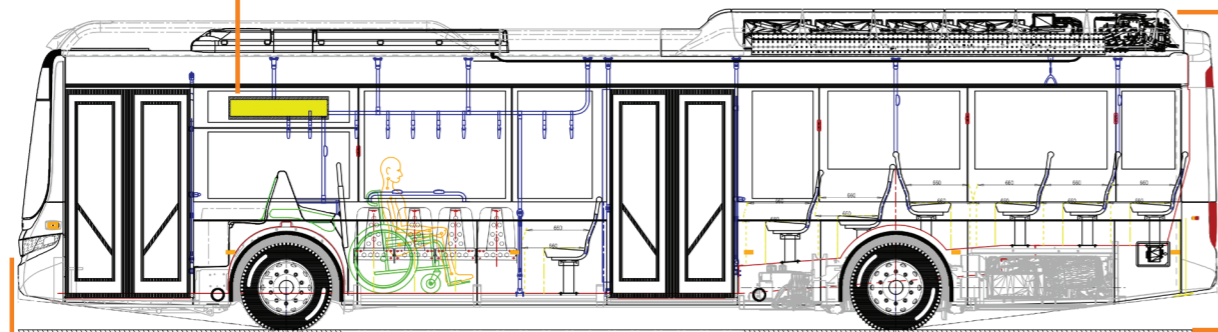
THE ALL-NEW VOLVO BZL ELECTRIC

- The long awaited Volvo BZL electric bus chassis was officially launched September 2021. The very first Volvo BZL Electric chassis is built on an Australian-made Volgren Optimus.
- After nearly a decade of extensive planning, development and testing, the Volvo BZL Electric was developed in line with strict European and Australian safety standards. The BZL is built around a European electric driveline, and combines features from Volvo's existing E6 and B5LH hybrid products.



250+KM RANGE

2.5M WIDTH



12,000KG TARE WEIGHT – ONE OF THE LIGHTEST ELECTRIC BUSES IN ITS CLASS

3.4M HEIGHT

9.9M - 12.5M LENGTH

KEY SPECIFICATIONS

Chassis	Length	Height	Width	Seats
Volvo BZL	9.9 - 12.5m	3.4m	2.5m	31 - 47 seats

VOLVO BZL ELECTRIC BUS CHASSIS

One / two electric motor, 200 / 400 (kWh) max output	Up to 470 (kWh) energy storage capacity
19,000 / 31,000 (Nm) max wheel torque	Traction battery. Lithium-ion battery (NCA) Automatically temperature-controlled.
2-speed automated manual transmission gearbox	Chassis including energy storage system module for roof mounting.
Roof charging: OppCharge 300 (kW) max charge power	Electrically driven hydraulic power steering
150 (kW) CCS max charge power	Volvo disc brakes. Electronic Braking System (EBS5)

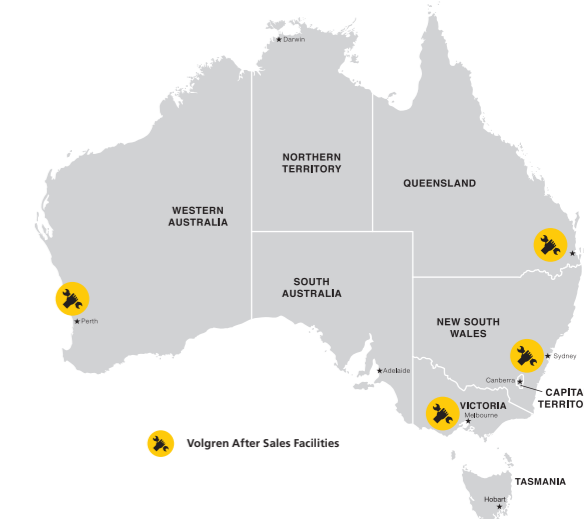
*Max charge power depending on configuration of the energy storage system



NEW TECHNOLOGY BUT FAMILIAR VOLGREN SUPPORT

We understand the transition to zero emissions technology for operators won't always be straight forward. But when we talk about the latest technology, we are not talking about unproven vehicles – our solution is tried and tested.

Better still, our E-Buses are backed by the largest after sales support network in the country. From our state-of-the-art facilities in Melbourne, Brisbane, Perth and Sydney and our mobile service vehicles - we offer 24-hour support to keep your bus on the road and earning its keep. We're fully stocked with spares and can carry out all accident repairs, from minor jobs to major overhauls, so you don't have to.



CO-BOLT: ALUMINIUM MANUFACTURING OPERATORS KNOW AND TRUST

The Co-Bolt® aluminium system is that rare example of technology with the power to transform an industry. It allows Volgren to create a vehicle that is lighter, stronger and safer – a vehicle with a longer working life, shorter downtime and less need for repair.

Since 1977, we've used this Swiss technology to manufacture Volgren bus bodies. It's one of the fundamental components of our manufacturing success.

The CO-BOLT aluminium extrusion body technique allows us to build our vehicle bodies using a system of bolted gusseted joints. Because all vehicles are exposed to continuous vibration and stresses due to dynamic loading, welded joints can fracture and fail. Our system requires no welding, and results in a much longer joint life.

**A LONG,
PROBLEM-FREE
SERVICE LIFE**

**RAPID AND
SIMPLE REPAIRS**

**A HIGH LOADING
CAPACITY THANKS
TO THE LIGHT
CONSTRUCTION**



**CAPACITY TO
CARRY BATTERIES
AND CHARGING
TECHNOLOGY ON
VEHICLE ROOF**

Meaning more space for
passengers

**EXACTLY FITTING
REPLACEMENT
PARTS**

**OPTIMAL
ANTICORROSION
PROPERTIES**

**USE OF
RECYCLABLE
ALUMINIUM**

LOCAL CONTENT, ASSEMBLY AND AUSTRALIAN JOBS

Many of the zero-emission players active in the market are importing complete solutions from overseas. Volgren is a strong advocate of local content and local jobs; we build electric bus bodies in Australia using over 100 Australian suppliers and are incredibly proud to retain almost 90 percent proportion of local production.

Starting with the aluminium that makes our bodies strong and lightweight, to the handrails you grip, the vinyl flooring you stand on and the seats you can relax in; our E-Bus bodies are unashamedly local. For operators that means you can expect greater levels of quality, service and flexibility.

When you buy Volgren you're investing in Australia. You're saying yes to local jobs.



DRIVER AND BUS BODY TRAINING

The move to electric vehicles involves a steep learning curve for those unfamiliar with the technology. With this in mind, Volgren can provide full driver and bus body training around safe operation of the e-bus plus awareness sessions on responding to an incident involving an e-bus through local emergency services.



TRIED AND TESTED SOLUTION

ONE OF THE LIGHTEST BUS BODIES IN ITS CLASS

LONGER RANGE, LESS TIME CHARGING

SUPPORTED BY THE COUNTRY'S LARGEST AFTER SALES

PROVEN TECHNOLOGY AND CHASSIS PARTNERS

LOWEST TOTAL COST OF OWNERSHIP

LOCAL CONTENT AND ASSEMBLY, SUPPORTING LOCAL JOBS

WHY PARTNER WITH US

The Volgren bodied E-Bus is a tried and tested solution, giving operators peace of mind when transitioning to zero emission. Designed, manufactured and built locally, our E-Bus vehicles are customisable to meet specific needs and backed by Australia's largest after sales network.

VOLGREN

MOVING PEOPLE, MOVING STORIES

VOLGREN.COM.AU

For more information about our Optimus E-Bus, please call our sales team on (03) 9791 4255 or email info@volgren.com.au