

Electrifying Australia's road transport fleet using tomorrow's technology, today.

Janus Electric is delivering a world first zero-emission solution to electrify Australia's road transport network. Janus Electric utilises Australian engineering ingenuity to convert and electrify prime movers across Australia, regardless of make.

Janus Electric's revolutionary exchangeable batteries power electric heavy vehicles which can be changed in three minutes at a Janus Electric Charge & Change Station. The Janus Electric Charge & Change Stations utilise renewable energy to provide a three-way charging system from grid to battery, battery to battery and battery to grid. This enables the storage of renewable energy which can be fed back into the grid creating a balanced energy source to minimise surges and outages.

Developed by a team of Australian engineers and transport operators, Janus Electric is providing the road transport industry with a smarter, safer and cleaner future.

About the technology

Janus Electric's revolutionary exchangeable battery technology can be swapped out to charge at any Janus Electric Charge & Charge station. Powered by renewable energy sources like solar or wind, Janus Electric's patent pending 'charge and change system' provides a more efficient and productive alternative to traditional electric vehicles that require drivers to stop, hook up to a charging point and wait for the battery to re-energise.

Putting our technology to the test

Operating proof of the Janus Electric system commenced in 2020 via full conversion of a T403 Kenworth to the Janus Electric technology. Now, with our technology proven, we are moving into larger-scale trials with a number of Australian linehaul, mining and local transport providers.

In a three-way partnership with logistics and infrastructure company Qube and mining company OzMinerals, Janus Electric will put the technology to the test in an ambitious world first 12-month trial to use battery electric trucks for heavy haulage across the long distances and terrain of the Australian Outback. The partnership, dubbed *Vision Electric*, intends to reduce the emissions footprint in the heavy transport and resources industry.

Vision Electric will see the world's largest electric truck put through its paces in some of the harshest conditions in the world.

Converting vehicles saves you money

Converting to Janus Electric technology is an equivalent cost to rebuilding a diesel engine in a Prime Mover. Following conversion, operators will see a decrease in long term overheads as maintenance and fuel costs begin to decrease. We estimate that converting diesel trucks to Janus Electric technology reduces operational costs by up to 60%.

Save money

Cost per KM diesel	\$0.96
Cost per KM Janus Electric	\$0.33

Janus Electric 'Charge & Change' Stations are green and reliable

Our Charge & Change Stations utilise renewable energy to provide a three-way charging system – grid to battery, battery to battery and battery to grid. This enables storage of renewable energy which can be fed back into the grid to create a balanced energy source to minimise surges and outages.

Janus Electric batteries provide a cleaner, safer work environment

Conversion to Janus Electric technology means the heavy vibration, noise and harmful fumes associated with diesel engines are a thing of the past, as are road restrictions for trucks and heavy vehicles. This massive step forward in operating environments means better conditions for our drivers and increased environmental outcomes for all road users.

Additionally, Janus Electric technology means drivers have the opportunity to take advantage of a more restful break resulting in improved fatigue outcomes for the trucking industry.



Janus Electric motors haul the mightiest loads

Our electric motors have been tried and tested to haul the heaviest of loads in all conditions, from longline transport of freight across Australia, to mineral laden loads on mining sites in regional areas.

Janus Electric, in partnership with Qube and OzMinerals, is bringing to market the world's largest electric truck through the Vision Electric trial.

Janus Electric batteries save you time

Swapping out a Janus Electric battery takes three minutes at a Janus Electric Charge & Change Station, compared with an average 20 minutes refuelling a standard truck at the bowser. Currently, the Janus Electric battery lasts between 400km and 600kms*, with a battery life of up to 8 years.

Reduced time on refuelling or recharging means operators can reduce overall trip times.

*Dependent on vehicle combination and gross combination mass (GCM).

The Janus Electric Fleet

Our established fleet of trucks consist of a mix of Kenworth, Freightliner, Mack and Western Star prime movers which are currently in operation on roads across NSW and QLD.



Converting diesel engines is quick and easy



Charging stations run on renewable energy



Safer operating environment for drivers

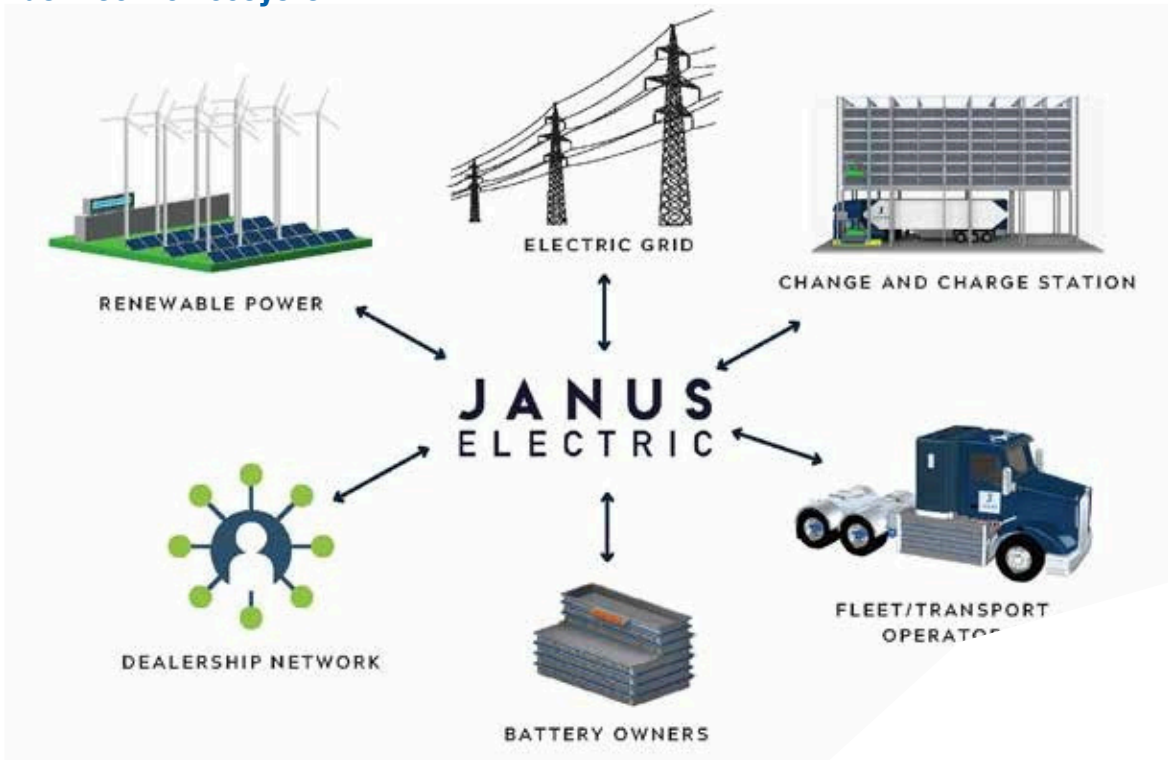


Change batteries in three minutes

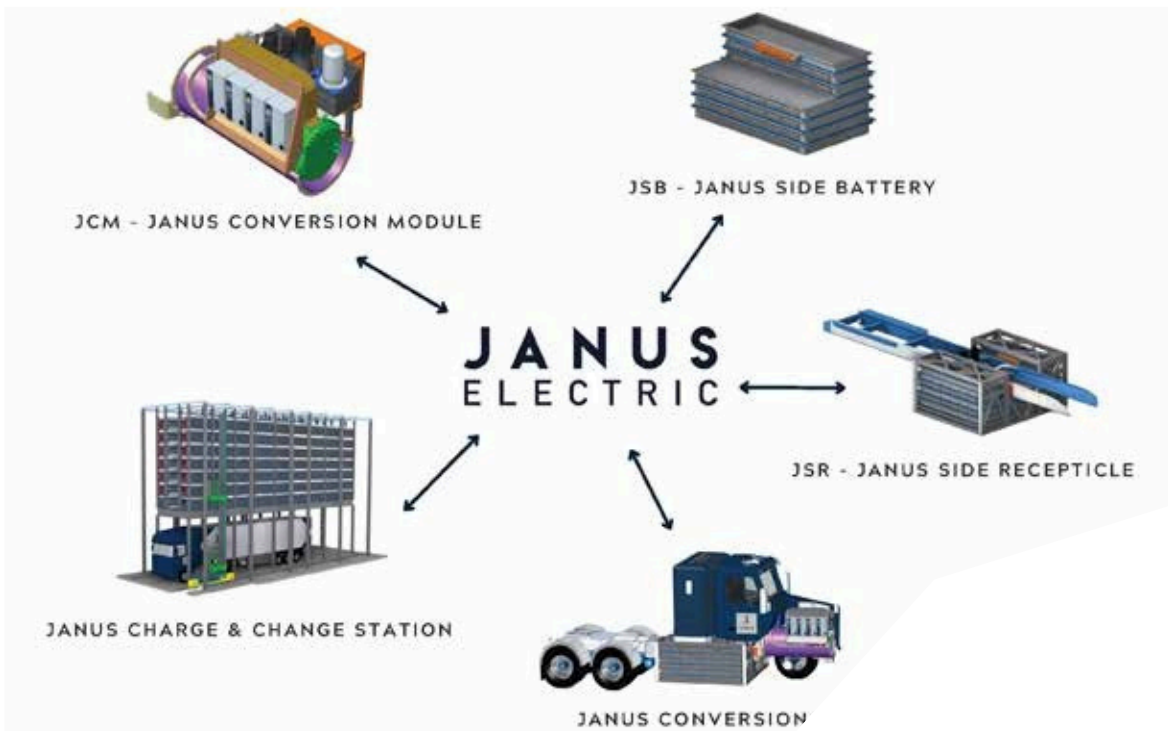


Zero emissions for a cleaner future

Janus Electric Ecosystem



Janus Electric Fleet Solution



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