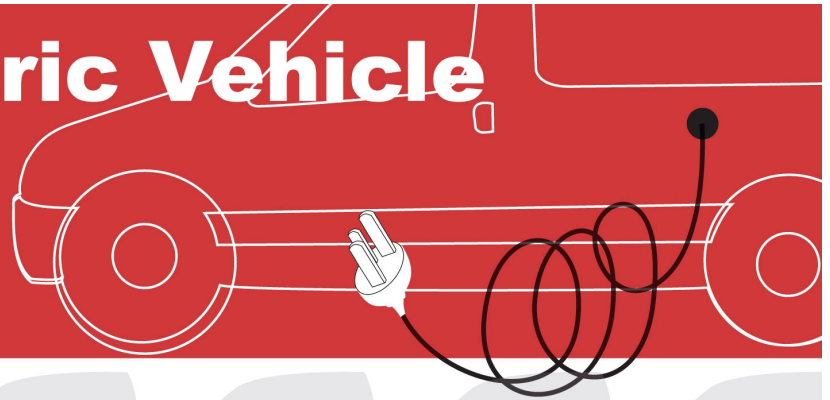


# CERES Electric Vehicle Fact Sheet



**CERES Electric Vehicle was created by converting an existing petrol powered motor car to an electric motor and drive system.**

A team of highly trained and dedicated volunteers worked together to create a zero emission car\*. The electric vehicle is a positive solution to today's urban transport needs. This project is just the start of another innovative program created by CERES to address climate change.

## Electric Vehicles

- ✓ **Travel carbon free\*** provided the electricity is from a green power source EV's use a rechargeable battery system that is refuelled by being plugged into any electricity socket.
- ✓ Electric motors are **energy efficient** systems for propelling cars. They are between 85% and 95% efficient at using energy, whereas ordinary car engines are only 15 - 25% efficient at converting fuel energy to motion.
- ✓ **Simple engine design** with few moving parts. No need for oil changes & filters, fuel tanks, fuel injectors, carburettors, or an exhaust system. No need for servicing and replacement of spark plugs, engine oil, oil filters, air filters & timing belts.
- ✓ **Zero emissions**

## Performance & Specifications

<b>Car Type</b>	Citroen Berlingo	<b>Battery size</b>	24 kwh
<b>Motor Type</b>	Advanced DC L91-4003	<b>Cost</b>	\$35,000 incl all components & est. labour costs
<b>Electric Motor Output</b>		<b>Recharge Time</b>	6 to 8 hours
Continuous rating	12.0 kw (16.0 hp)	<b>Range</b>	150 kms untested
Peak output	54.0 kw (72.0 hp)	<b>Top Speed</b>	90 to 100km/hr
<b>Operating range</b>	72 to 120 volt	<b>Performance</b>	Suitable for moderate loads of light deliveries
<b>Weight</b>	37 kilos		
<b>Battery pack voltage</b>	120 volt		
<b>Battery Type</b>	lithium iron phosphate 38 cells		

\* provided the car is recharged by power sources from green power the car will generate no carbon emissions

## CERES Project Partners





## **CERES Electric Vehicle Future Ambitions**

To take this project to the next level CERES is seeking support for the following exciting initiatives:

- Researching and creating a Business Plan for an Electric Vehicle Conversion enterprise at CERES.
- Create an EV Conversion Training Program that will set the standard for the development of this carbon free\* transport option.
- Establish industry partnerships to develop a range of related micro industries; components, conversions, education and training.
- Construct a Workshop space at CERES for EV Conversion Training.
- Development of an Electric Vehicle Conversion Kit to enable community members access to information, instructions, support and parts from one reliable source
- Coordinate an “EV Rally” to tour electric vehicles throughout Victoria incorporating community education, information sessions and test drives
- Create a display at CERES Community Environment Park of a photovoltaic system capable of charging electric vehicles with education information
- Utilise knowledge and experience gained in initial conversions to complete another conversion, this time using more advanced AC motor technology
- Support local automotive engineering businesses in establishing capacity for performing conversions
- Continue working with Government policy makers to provide an attractive framework of incentives and infrastructure support for EV's including; recharge stations, parking spots etc.
- Work with the Government on standards for EV conversions – updating current vehicle safety regulations to accommodate EVs
- Research feasibility of establishing an Electric Vehicle Share-Car Scheme
- Support the assembly and use of Electric motors for bicycles and motorbikes, farm quad-bikes, tractors, boats,

For more information about these projects and more contact :

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