



# ELECTRIC FOR EVERYONE

Helping you transition to a low carbon future and save!

Kia ora!

Welcome to Electric for Everyone.

I'm Steve Macknight - structural engineer, consultant, heritage property developer, and a passionate advocate for making a difference to our planet.

This gallery and consultancy service is the result of two years' personally trialing the latest technology to find out if it's possible to reduce our carbon footprint while also saving money. All without any significant sacrifice of the lifestyle Kiwis enjoy. What I found was that we can make the changes we need whilst helping the planet and saving money.

Climate change may seem like an overwhelming issue, but small actions from every one of us are essential to preserving the world we now enjoy. The most important thing is to start making these changes as quickly as possible, as it becomes more and more difficult to reverse the damage already done.

## **How Much Damage Do We Do?**

On average, every New Zealander releases 8,000kg of CO<sup>2</sup> into the atmosphere each year. While it is hard to fully understand that number, if you look at what might contribute to that figure, it becomes obvious how it adds up to such a large number. For example, one return trip for Dunedin to Christchurch in a petrol or diesel car, releases 180kg of CO<sup>2</sup> into the atmosphere! This is the weight of two large people, and has the volume of a large house. The surprisingly large number is due to the chemical reaction of combustion which adds two oxygen atoms to one carbon atom, resulting in three times the weight of CO<sup>2</sup> than the fuel you burn. Imagine three times the weight of your firewood going into the atmosphere as CO<sup>2</sup>!

## **How Can We Make Changes?**

It's simple: electrify everything! From running your car, to heating your house and hot water, everything can run off electricity which can be produced from clean renewable resources such as solar, wind and hydro, which produce no carbon emissions. Effective home insulation, heat pumps, solar panels and home battery storage make it possible to do this in a cost-effective way. This is where we advise what is best for you!

Beyond our homes, choices can be made to support products and services produced in a similar way.

## **How Much Will It Cost?**

The transition to a low carbon is an investment that will save you money, and if carefully done, the money you save in the short term will be greater than the additional interest you may pay if borrowing money to make the changes. Therefore, from day-one you should be better off!

## **Next Steps!**

I hope you enjoy the gallery and take the opportunity to fill in the assessment form. This enables us to contact you and advise the best ways you can achieve a low carbon future. Everyone's situation is different, so solutions need to be tailored to each individual and/or family.

\*Please note, we will advise you of our charges before we do any work.