



NEW ZEALAND  
ENERGY EXCELLENCE



AWARDS

Proud winner of the Low-Carbon Future Award, 2022

# POWERING YOUR HOME, SUSTAINABLY

Did you know that your home is being powered by an award-winning substation, pioneering sustainability in a way that has never been seen before in New Zealand?

Windsor Substation, located on Sylvan Road, services approximately 3,500 local customers - including you!

When Windsor Substation's 11kv switchboard reached the end of its life, Unison identified the opportunity to pilot a new, innovative and sustainable substation, which would serve as a catalyst for industry change.

It has been designed, built and is operated in a way that reduces our carbon footprint and uses materials that are kind on the environment and people, following the philosophy and principles of the Living Building Challenge - the most stringent environmental building design certification in the world. In June 2022, Windsor Substation was awarded the 'Low-Carbon Future Award' at the prestigious New Zealand Energy Excellence Awards.

**That's something for us all to be proud of!**

## What is a substation?

*Substations like Windsor are an essential part of how Unison supplies electricity to the community. They transform voltage from high to low (or the reverse), and perform other important functions too.*



▲ Windsor Substation, Sylvan Road, Parkvale.



## A Small Building with a Big Heart - How does Windsor Substation's design help our planet?



- **Zero carbon:** A 363% reduction in carbon compared to a typical substation

- **Capturing a recycling water:** Rainwater harvesting and a purposeful storage system supplies Windsor Substation with all its water needs. Water produced is used to irrigate the surrounding kowhai trees, providing nourishment for native birds and insects.



- **Renewable Energy:** Solar energy powers 100% of Windsor Substation's needs. Energy produced above and beyond its requirements is sent back to the grid for community use.



- **Green materials:** Constructed using locally sourced, repurposed and environmentally materials.



- **Nurturing the land:** Native habitat has been established around the substation, with biodiversity restored and supported through landscaping.

If you would like to learn more about Windsor Substation, visit our website [www.unison.co.nz/windsorsubstation](http://www.unison.co.nz/windsorsubstation)



To be kept up to date on future sustainability projects like this one, follow Unison on Facebook @UnisonNetworks

To get in touch with us about all things electricity, call 0800 2 UNISON 0800 2 86476

## Want to know more?

Our vision at Unison is to lead a sustainable energy future that supports consumers' changing energy needs, while enabling our communities to prosper for generations to come.

Use your phone to scan the QR code to find out more about Windsor Substation, and sustainability in design and building.

