



Power Challenge

Welcome to the Power Challenge

Video transcript

Kia ora e hoa mā, My name's Gene and I'm an Electrical Engineer.

Welcome to the Wonder Project Power Challenge!

You're here because we have a problem to solve. And it all starts with one question:

I wonder how to power a brighter future?

When you think of power, what comes to mind?

We're not here to talk about these guys... This challenge is all about the phenomenon of electricity.

Our communities rely on electricity for just about everything! Without electricity, there's no Tik Tok or video games, no light in your home and no chill in your fridge.

But even bigger than that, we need electricity to make sure really important parts of our community stay open – like our schools and hospitals.

Scientists predict we'll use electricity even more in the future.

So, to keep our future bright, we'll need to make even more of it.

The thing is, some methods of generating electricity aren't sustainable. Meaning, the things used to generate the electricity will eventually run out, and the ways it's generated aren't too friendly for the environment.

So, we've got to find a way to generate more electricity, but make sure it doesn't run out and doesn't harm our environment.

That's where our STEM superstars come in.

STEM???

STEM stands for science, technology, engineering and maths.

People with STEM jobs are a creative bunch with awesome communication and teamwork skills.

They help us by coming up with solutions to challenges, big and small.

Need a bridge to cross over water? → STEM

Want to help solve climate change? → STEM

Keen to find some sustainable solutions to meet our future power needs? You guessed it → STEM

That's right. STEM superstars in Aotearoa and beyond are coming up with solutions for a whole bunch of important stuff. And now it's your turn!

Your challenge is to design and build a wind turbine to generate enough electricity to light up an entire town, in an environmentally friendly way.

Can you help power a brighter future with STEM?

Karawhiua! Let's charge on.