

Dromana Climate Smart Farm

Australia is seeing the impacts of unprecedented levels of damage to the environment, with a recent Australian Government commodity analyst (ABARES) stating that more than \$1 billion in revenue has been wiped from the annual crop production, due to the change in climate over the past two decades. Climate change is the issue that most keeps Australian's awake (Australia Talks National Survey 2019).

Help is coming; 80kms South East of the Melbourne CBD, is a parcel of land that has been leased by Volt Farmer, dedicated to demonstrating techniques of carbon farming and land regeneration, sustainable agriculture, and renewable energy production.

The site will see improved drought resilience and biological health of the soil; a ground-breaking project with far-reaching implications for the whole of Australia.



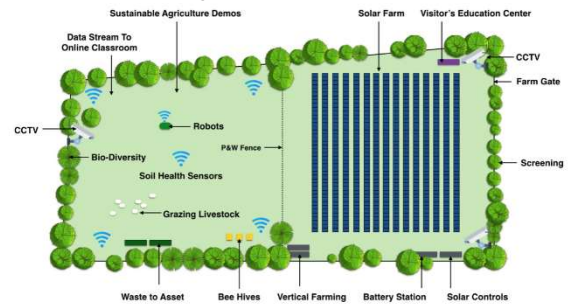
Volt Farmer was established with a core mission to provide opportunities for real and meaningful improvement in the wellbeing of people, places, and the environment.

Carbon farming, and biodiversity improvement, with sustainable sources of revenue may seem too good to be true. However the techniques are well proven around the world, and the success of this demonstration farm will have far reaching positive impacts on the remote and rural communities of Australia.

The site has been established with a range of equipment, to achieve these objectives:

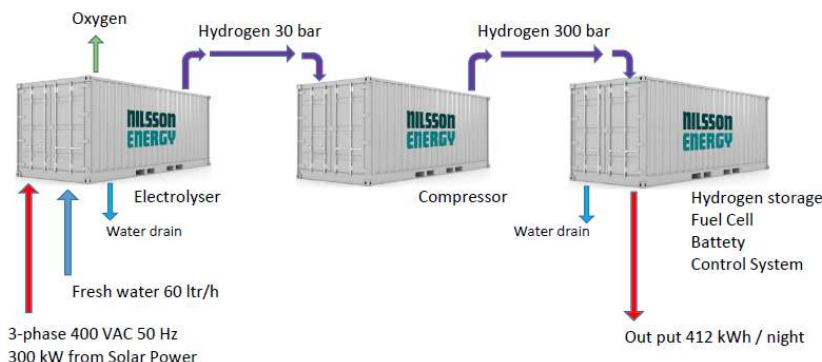
- Solar panels to generate energy and revenue.
- Education centre for demonstrating how technology can provide a sustainable future.
- Fruit trees to support local community fund-raising targets.
- Habitat techniques for land and fauna regeneration including natural capital accounting.
- 4 x vertical gardens to demonstrate climate proof horticulture.

All of these elements are funded through the sale of energy from the solar infrastructure, providing a purpose-built demonstration site of technology that can literally change the world.



<https://voltfarmer.com.au/dromana-climate-smart-farm/>

To complete the full-cycle benefit of the project, a 290kW electrolyser, storage and fuel cell solution is to be added to the site. This system solution will utilise the solar energy to generate enough hydrogen, to allow the 4 vertical farms to be powered 24/7/365, without needing to access grid energy.



Adding the hydrogen solution to the Volt Farmer project truly demonstrates how remote and rural communities can improve their well-being and self-sufficiency, while taking care of the environment and ensuring Australia's strong future as a farming and food producer for the world.