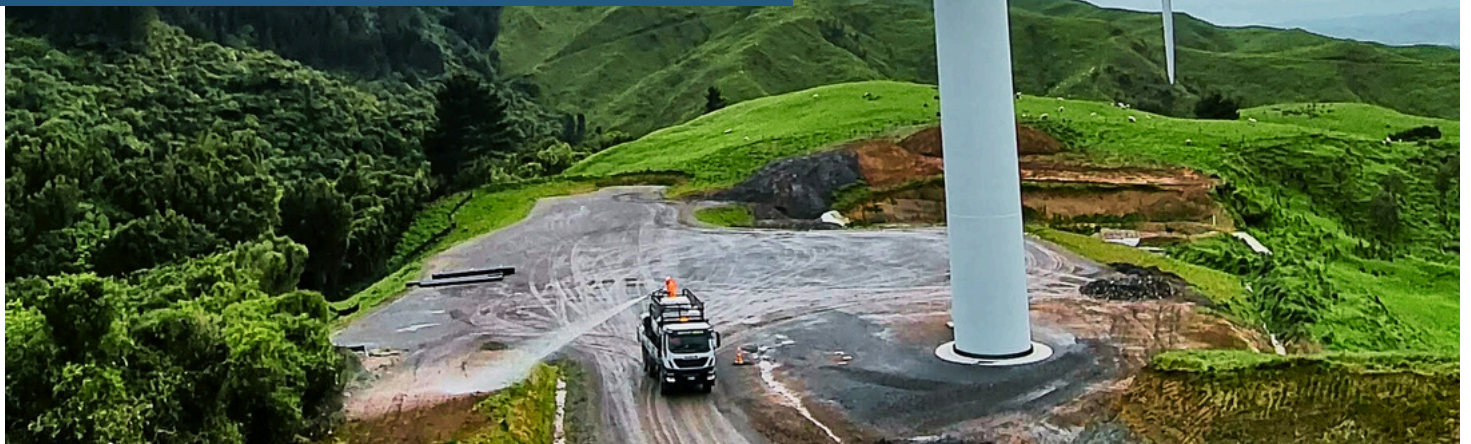


CASE STUDY

# TURITEA WINDFARM

2021 - 2022



**INSTANT GREEN**

**Downer**  
Relationships creating success

**Mercury** 

## CLIENT

Mercury/Ventas/Downer

## PROJECT

Turitea Windfarm North  
Stage,  
Manawatu Region

## SCOPE

Providing long term stabilisation and revegetation of cut batters, dumpsites, drains, sediment ponds and other earthworks areas progressively as the project proceeded through to handover stage.  
33ha over 12 months.

## PRODUCTS USED

### Stabi-Mulch NZ Wooden Fibre

- Application rate 2500-3500kg/ha dependent on site specifics, slope gradient etc
- A mix of Pasture seed blend, winter active species to encourage growth in the winter periods
- Starter Fertilizer
- Polymer to provide further temporary stabilisation



Instant Green was engaged approximately halfway through the project, after our client had been using (with another contractor) a mix of Hay mulching with and without tackifier, as well as hydroseed with newspaper.

Before Instant Green was engaged, in some scenario's areas were hydroseeded, hay mulched, then tackifier applied as well. A three application process!



We were initially engaged to complete a small one hectare trial area, to see how Stabi-Mulch compared to previous methods.

This trial site (photo above/below) received over **100mm of rain** within five days of application and showed no signs of erosion or sediment run off. **Within three weeks** we achieved a **90% grass strike**. We then proceeded to complete the remainder of the project, saving our client significant costs, by only doing one application with Instant Green Hydro Mulch. Instead of up to three applications of Hydroseed with newspaper, Hay Mulch and Tackifier.

This also improved the projects carbon footprint / carbon emissions, as we only ran one truck instead of up to three pieces of machinery.





We were able to hydro mulch 95% of the areas using the cannons on our units, which can reach up to 100m from the truck with out having to run any hoses.



BEFORE



AFTER

Our record day onsite we completed **28,800m<sup>2</sup>** in one day! With our offroad capable 6x6 and 8x8 trucks we were able to access tricky sites quickly and safely.

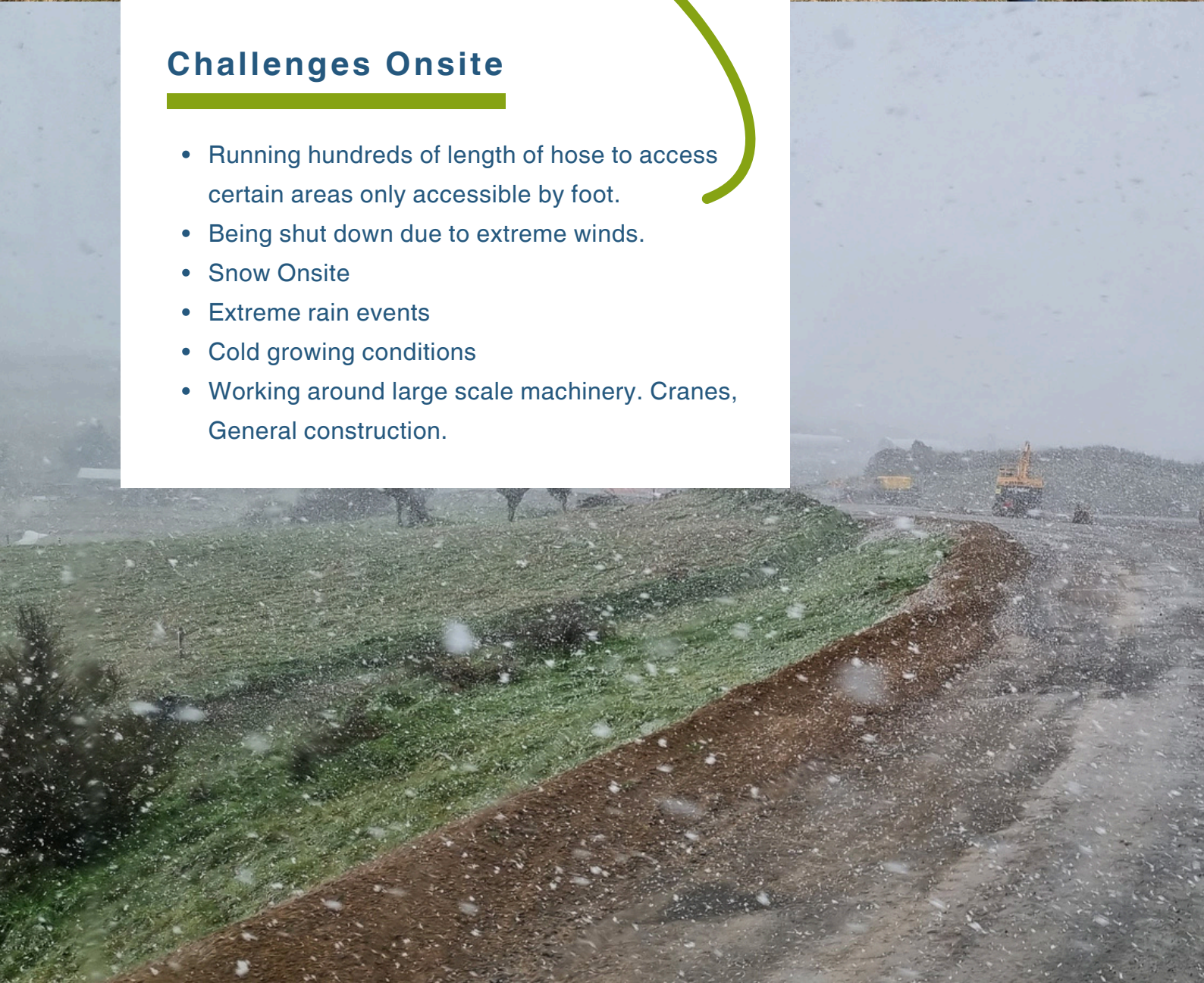
Being a windfarm, often weather conditions were not in our favor. However, when they were we were could mobilize our large-scale gear and stabilize large areas quickly. This gave our client assurance to keep top-soiling large areas, knowing we would be able to close them out quickly if a weather bomb was coming.





## Challenges Onsite

- Running hundreds of length of hose to access certain areas only accessible by foot.
- Being shut down due to extreme winds.
- Snow Onsite
- Extreme rain events
- Cold growing conditions
- Working around large scale machinery. Cranes, General construction.







*"I have been impressed with Instant Green application rate, grass establishment speed and growth rates. When compared with other Hydroseeding we have used before, it has performed well after heavy rainfall events meaning less maintenance and quicker stabilisation of exposed areas."*

**STEPHANIE KIRK**

Beca Senior Environment Scientist.







*“As consulting works manager for the Balance of Project works at the Turitea windfarm, I used Instant Green for much of our rehabilitation works on large dump sites and earthworks. We found their service and organization professional and easy to deal with. While their product is slightly more expensive than alternatives, the outcomes are superior with almost zero rework and faster establishment.”*

**JOE MORRISON**  
Works Manager

**Overall, we completed the entire project without any rework, injuries or incidents. The Turitea Windfarm is one we are proud to add to our portfolio.**

**As windfarm construction in New Zealand increases, we have expanded our capacity to deliver large-scale infrastructure projects across the country, making us your go-to partner for a high trust, no-nonsense company with the capabilities and management team to meet your needs.**

**It doesn't just stop at windfarms, we are capable of delivering any large scale revegetation projects, including roading, mine rehabilitation, land development and any other bulk earthworks projects.**

**Get your project completed on time, on budget with Instant Green.**



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