

# FLAT HILL WIND FARM

A whirl wind tour - from the construction to now

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From origins in local hydro and wind generation Pioneer Energy works with customers and investment partners to provide local renewable energy supply, lower carbon heat solutions and cost savings through better energy efficiency.



# WHATS GOING TO BE COVERED



- Location
- Design considerations
- RMA
- Construction overview
- WEATHER



# WHATS GOING TO BE COVERED



- Sale to SGLP
- Operations
- Performance to date



# LOCATION

- 20km from Invercargill CBD
- 6km by road from Bluff port
- 7km by road from quarry
- 1300m from Bluff Substation



# DESIGN CONSIDERATION

- Geotech
- Arc Flash
- Environmental



# RMA

- Flow on from having a Consent appealed to Environment court
- Bird Monitoring
- Pest Control – local Partnership
- Community Liaison



# CONSTRUCTION

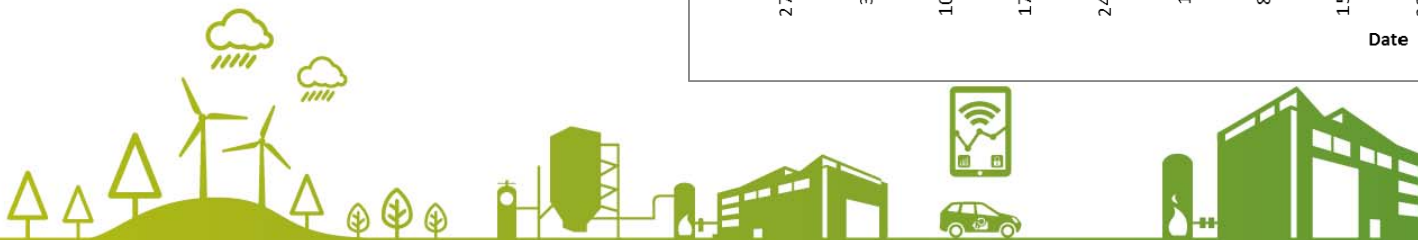
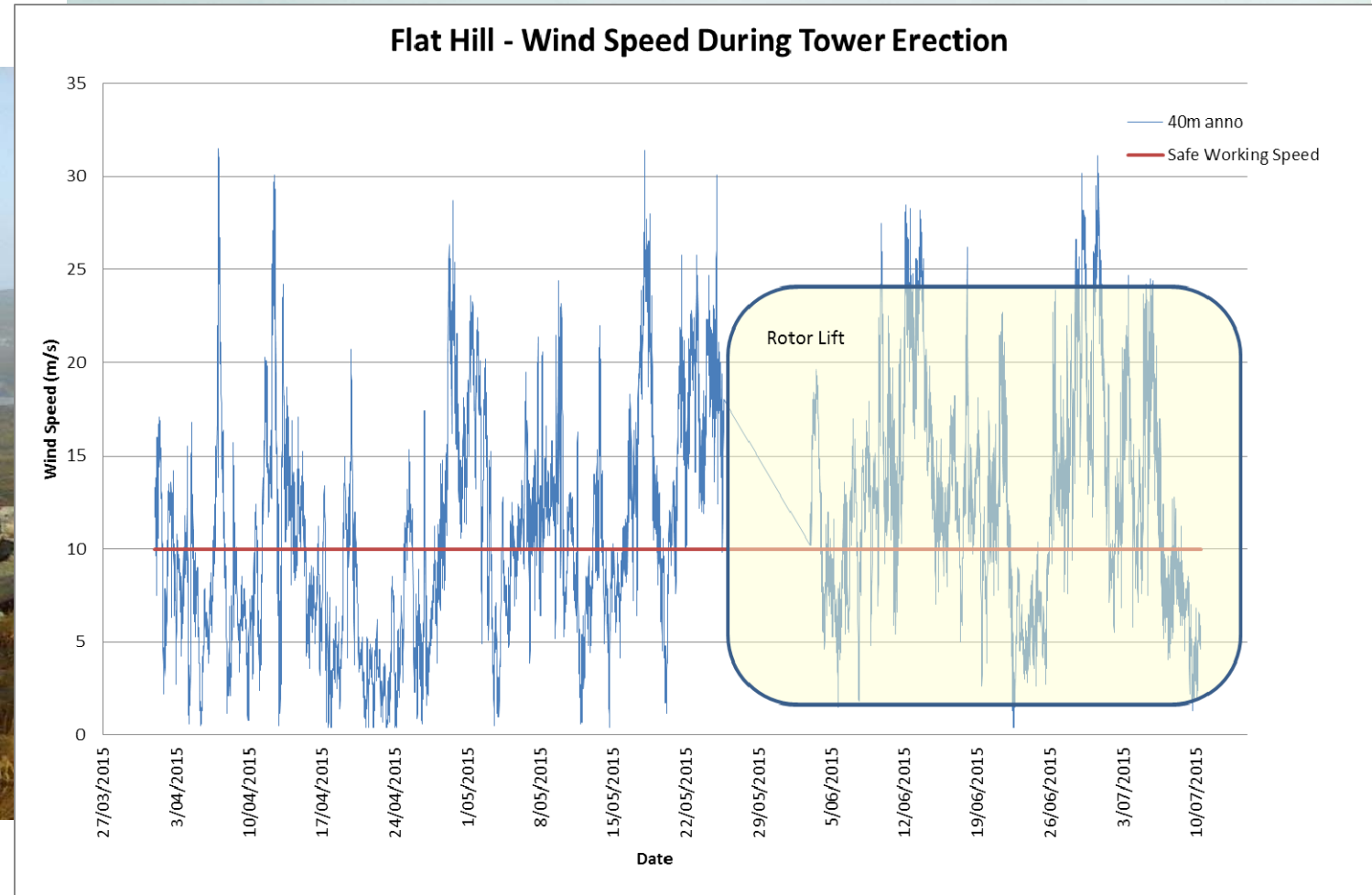
- Roothing
- Foundations
- Supplier Issues





# WEATHER

- Wet and windy
- Then more wind



# SALE TO SGLP AND FUTURE OPERATIONS



- FHWF sold to SGLP on handover from Gamesa
- PEL providing operation and maintenance services
- PEL set up a dedicated team based in Invercargill to service Mt Stuart and Flat Hill



# PERFORMANCE

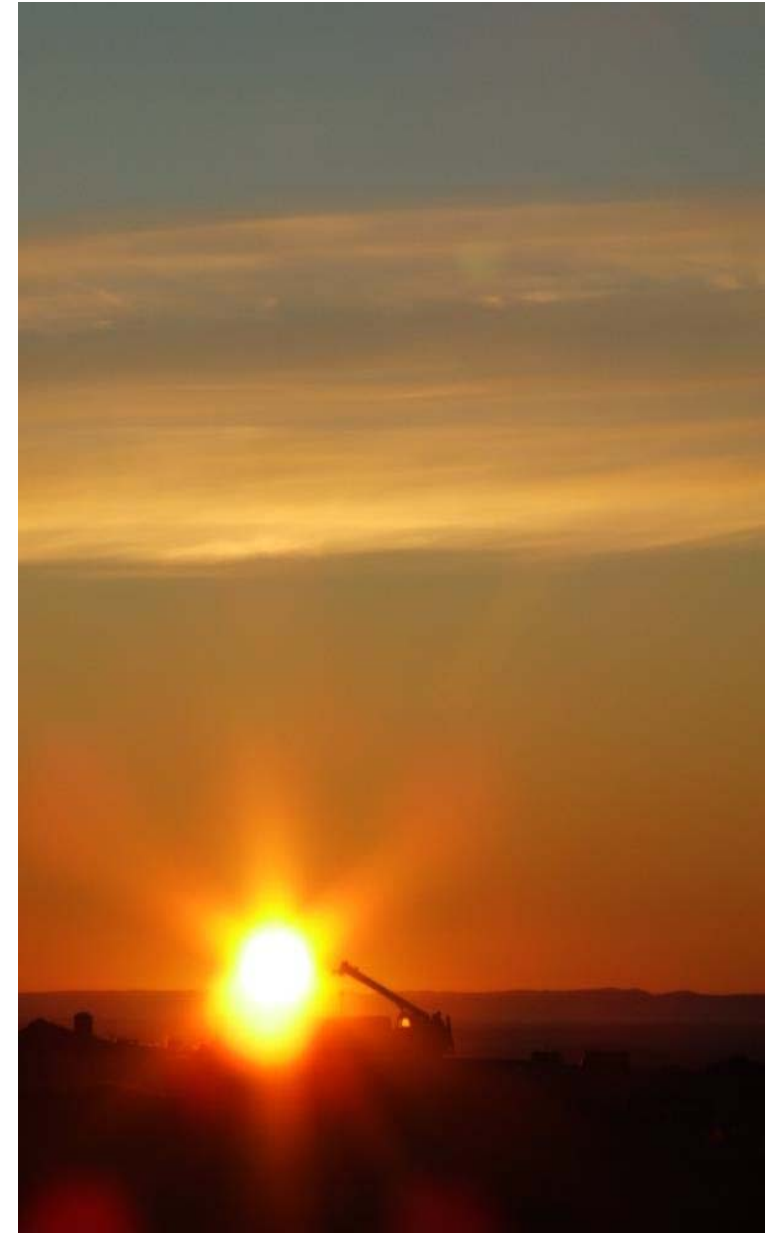


- Above expectations
- Minimal environmental concerns
- Sound levels well within consented limits
- Public reception excellent



# SUMMARY

- Location handy for construction but had construction and weather challenges
- Ownership has changed but PEL providing operations
- Very good performance to date



# QUESTIONS?

