

Green Energy in Mariculture Project Update

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Project Tasks

	2024		2025		2026	
Collect Baseline Data						
Write Green Energy Plan						
Write Best Practices Guide						
Share results						

Project tasks

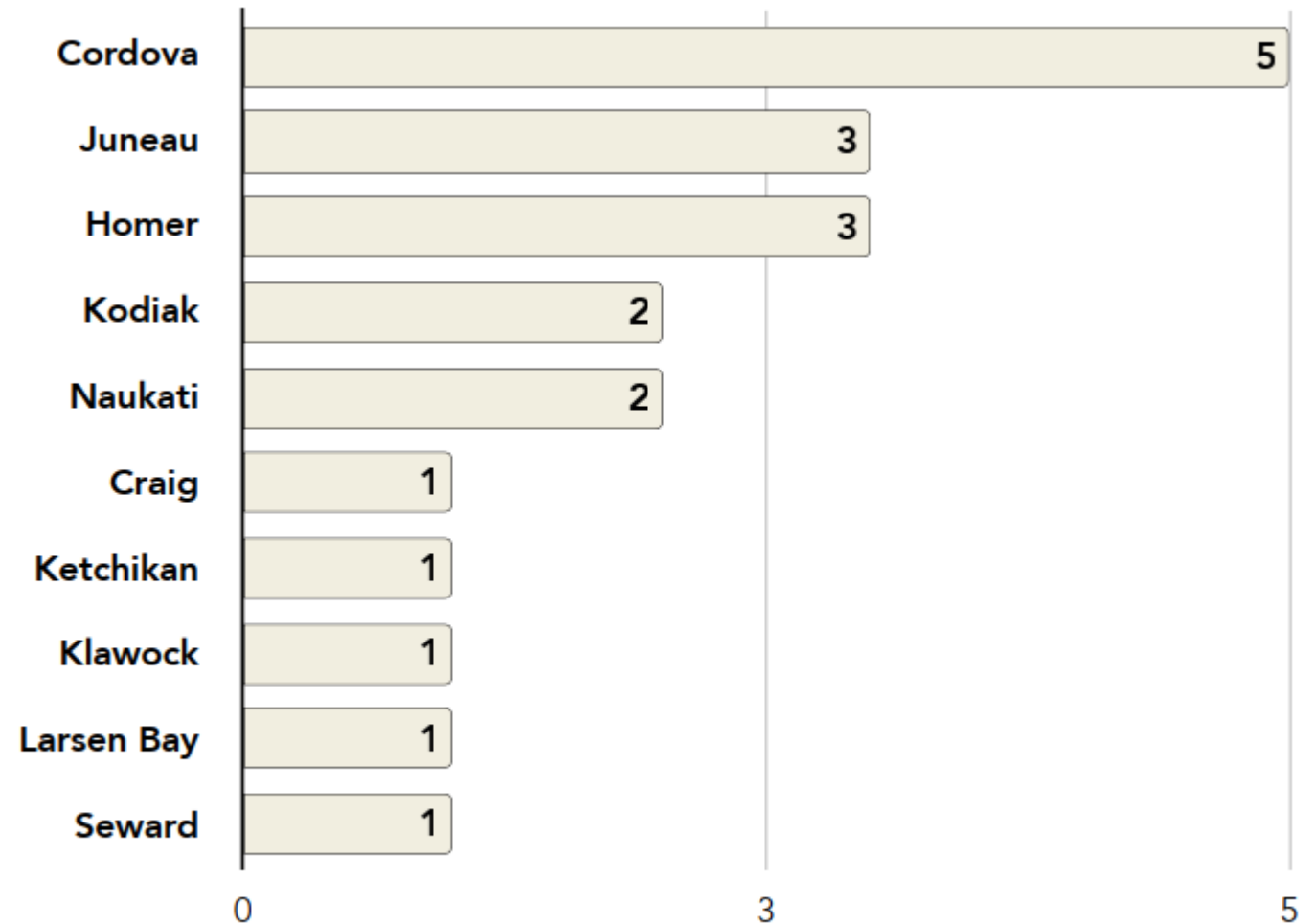
- Collect baseline data
 - Literature review (50% complete)
 - Site visits (90% complete)
 - In person to Cordova, Kodiak, Seward, Homer
 - Data collection in Juneau
 - On going work toward collaboration in Metlakatla
 - Survey (100% complete)
- Provide recommendations (70% complete)
 - Individual write ups to partners with deep data collection

Project Tasks

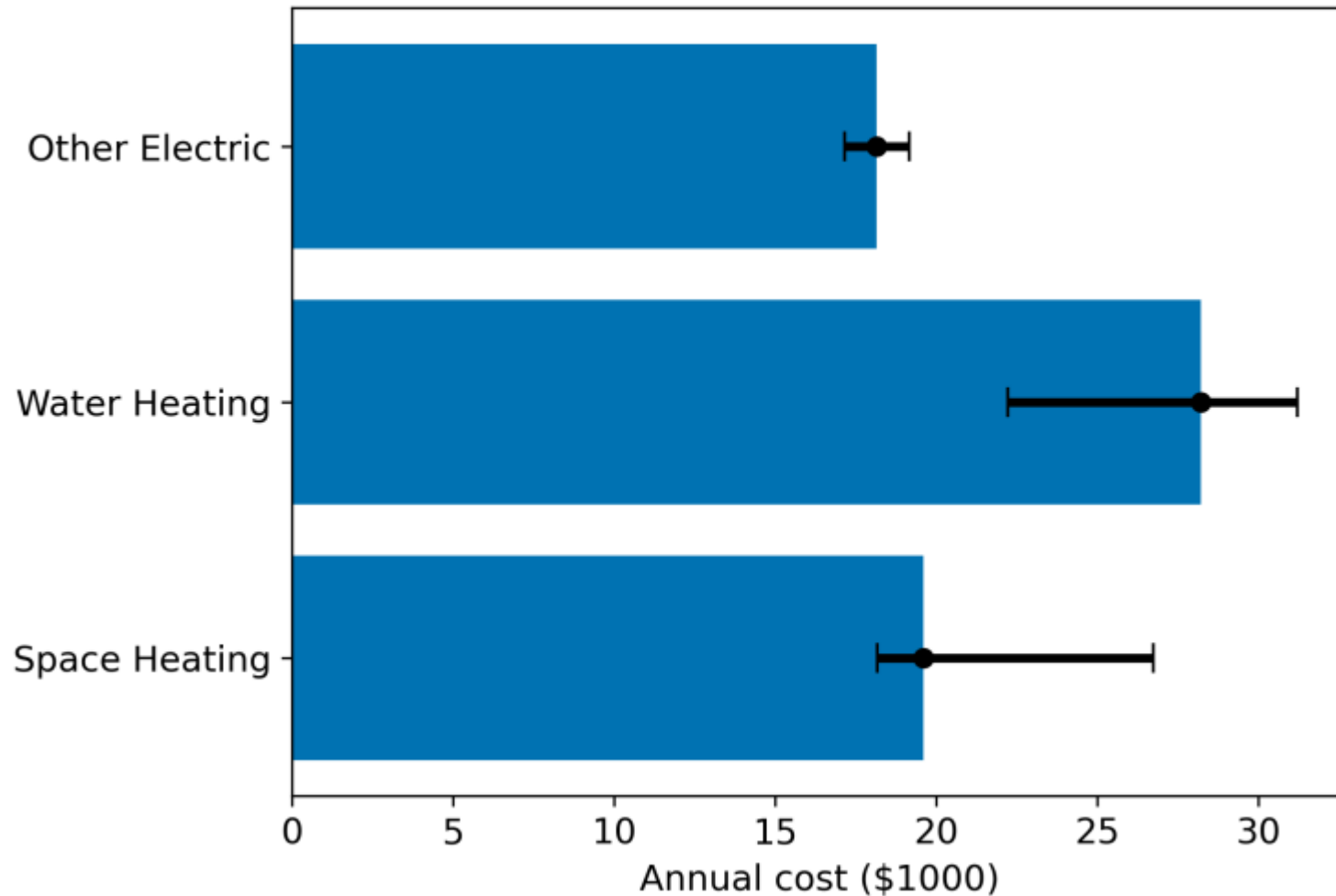
- Green Energy Plan (20% complete)
 - Outline drafted and reviewed
 - Writing drafted on several important topics (kelp drying, heat recovery, community energy plans)
 - Survey data summary drafted
- Best Practices Guide (20% complete)
 - Individual reports for some sites that will be compiled into broader best practices guide

Baseline data collection: survey by Rain Coast Data

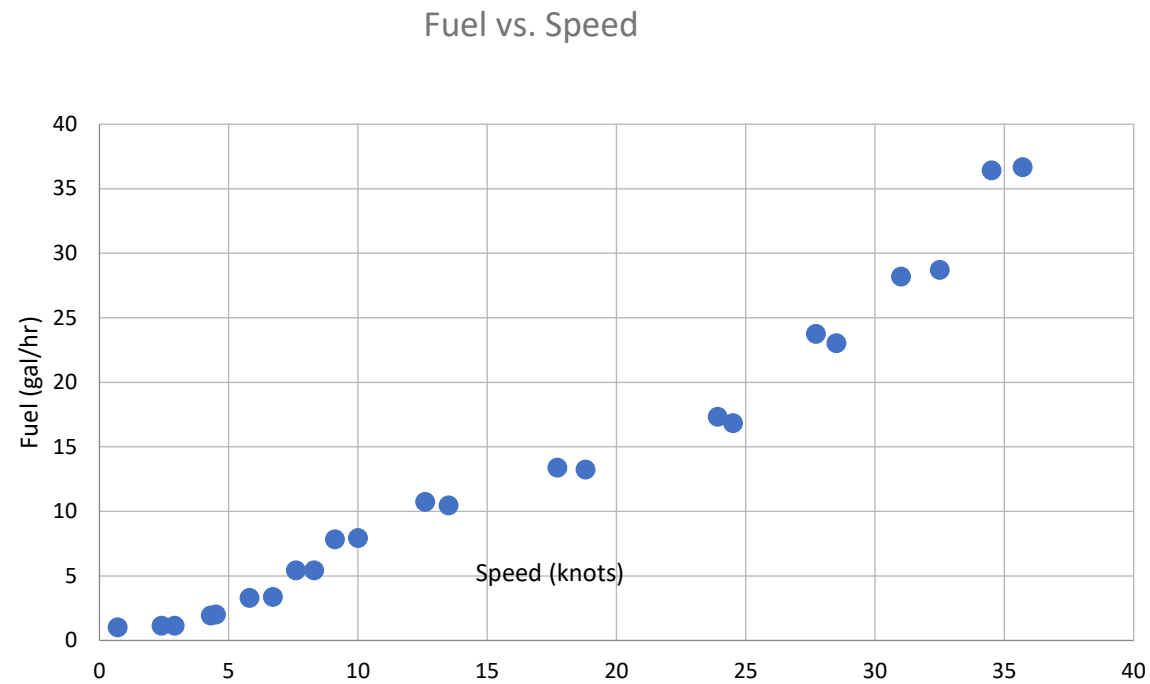
- 24 Completed surveys
- Provides energy use information
 - Gallons of fuel
 - kWh of electricity
- Describes equipment and operations



Baseline data collection: facility audit



Baseline data collection: sea trials



Kelp hauling

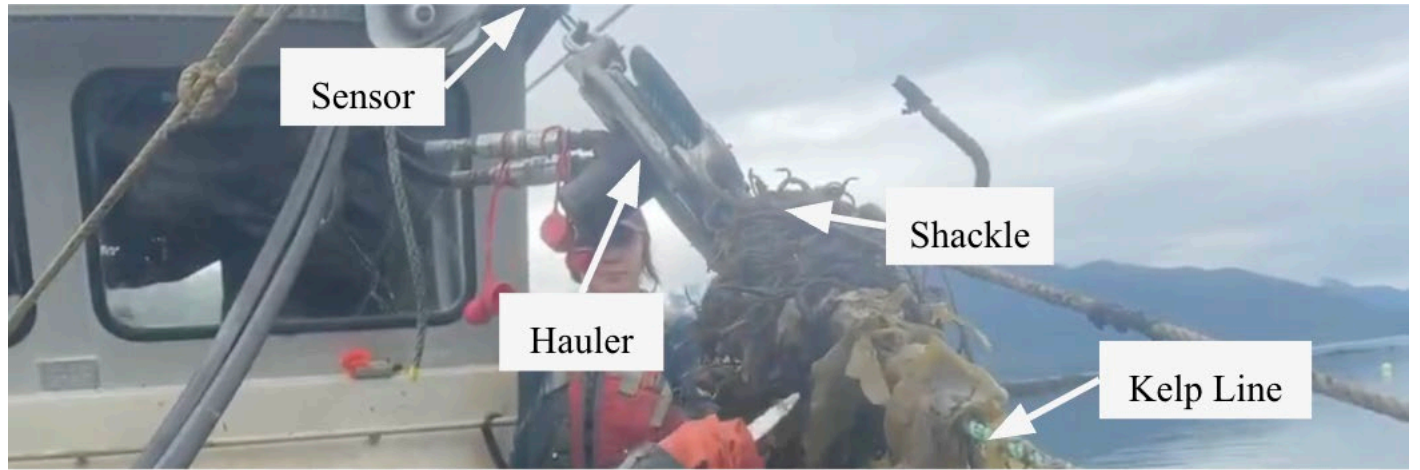


Image courtesy of Jonny Antoni

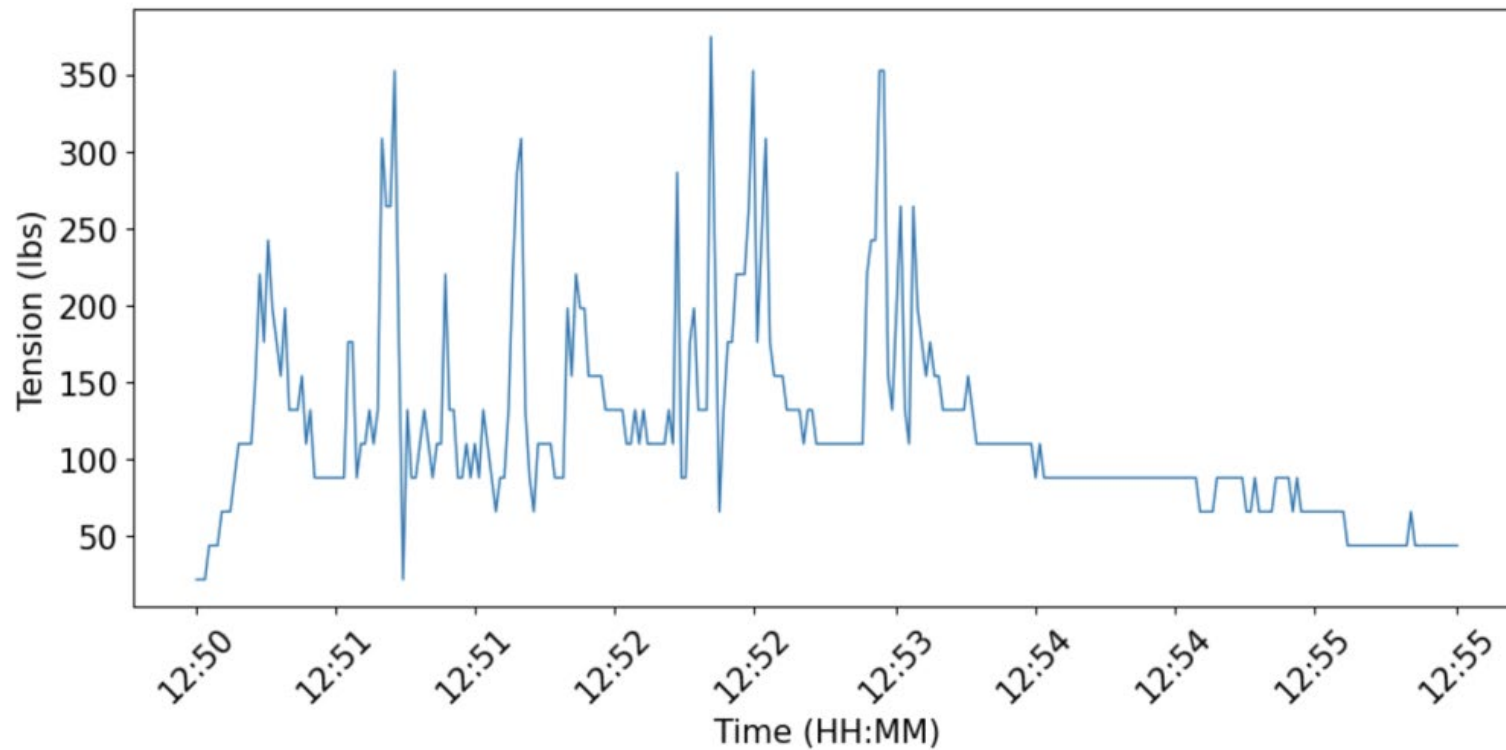
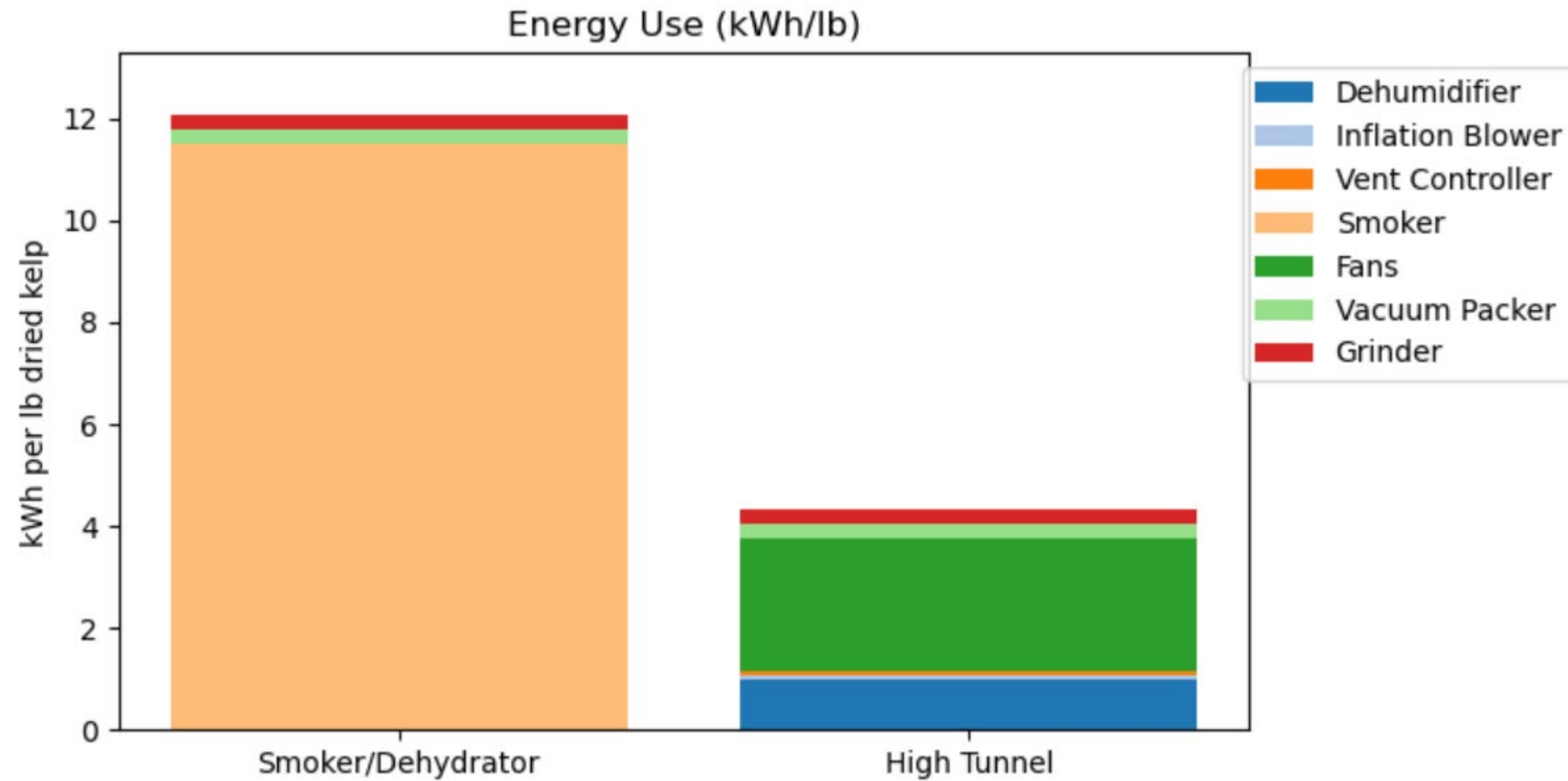


Image courtesy of Emma Kehoe

Kelp Drying



Green energy plan

1. Establish baseline energy use

- ✓ Data collection is complete
- ✓ Targeted reports are written
- ❑ Compile findings in single report

2. Model energy strategies

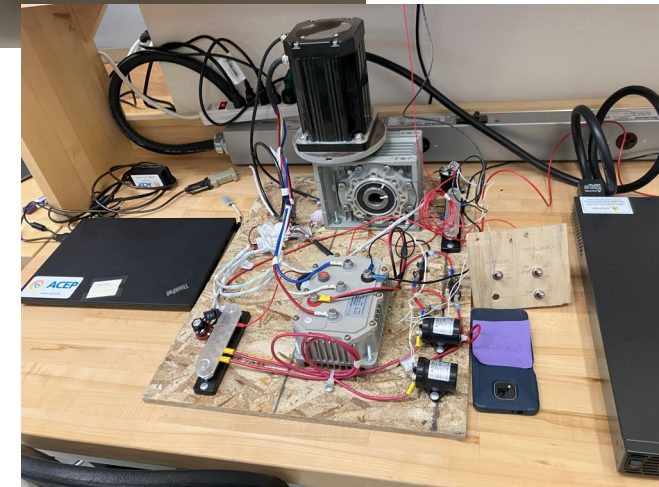
- ✓ Model individual energy strategies
- ❑ Describe where those strategies are appropriate

3. Write comprehensive energy plan

- ✓ Describe community energy plans
- ❑ Explain how green energy in mariculture fits into those plans

Overlapping innovation with planning: electric hauler

- Funding from UAF's Center for Innovation, Commercialization and Entrepreneurship.
- Findings will be incorporated into the green energy in mariculture plan
- Similar intent to use findings from joint innovation projects in the GEM plan.



Thank you!

