

City of Edna Bay  
P.O. BOX EDB  
Edna Bay, AK 99950

City Phone / Fax: (907) 594-6300

Mayor Tyler Poelstra  
City of Edna Bay  
Edna Bay Alaska

Dear Mayor Poelstra;

I had a telephone conversation (with Ms. Myla Poelstra) earlier this morning, February 8, 2021. Please allow me to introduce myself. I am currently working (with Arrowsmith Consulting (AC), Portland Oregon) on a proposal for the Department of Energy (DOE.)

We (AC) are proposing developing a novel Hydrokinetic Energy Harvester (HEH), also known as a Wave Energy Converter (WEC), through a funding opportunity at DOE. As part of the proposal, we will be looking to install a completed prototype in a suitable community or area not serviced from the traditional electrical grid.

Although the proposal is not a sure thing, nor is the required environmental and navigable water permitting approved, we require a plan to eventually install the prototype an aforementioned suitable community.

We realize that this is a relatively large undertaking (undersea electrical cable, land based electrical distribution system and Point of Use modifications.) We (AC) understand at this juncture there will be no financial expenditure required from the City of Edna Bay. It is our thoughts that the DOE, Alaska Energy Authority, and other similar governmental organizations and or non-profit NGO's will provide funding to complete the project.

At this point we require an identified end user to be agreeable to continue with the proposal process.

(From the DOE proposal announcement: "Co-Development of Marine Energy Technology at Smaller Scales (CMETTS.) This subtopic seeks proposals for the development and design of new marine energy prototypes specific to the needs of an identified end user in the blue economy.")

We ask that you favorably consider our proposal, and offer, to possible install a working prototype of our novel HEH platform near to, and for, your community.

The benefits will outweigh the risks to the community. Our understanding is that here is no cost to the end user community. This prototype will reduce the amount fossil fuel expended in the community. Our understanding is that DOE will fund the installation of the HEH. There are several sources of additional funding available to install not only the electrical line from the HEH on the sea floor, but also the land based electrical system to bring the generated electrical power to the community itself.

The risks may include the installation of the HEH will impact navigable water, (i.e. Local boating and commercial vessels such as fishing and logistical transports, may have to transit further from shore to avoid the floating platform.) Although the HEH will require suitable navigational aides (lights/audibles etc.) to obtain required permits the risk should be manageable. There is a

risk that individual end users (residential and commercial facilities) may require additional electrical equipment (electrical transfer switches to be installed) we believe there may other grants available to fund these changes.

There may be a requirement to obtain right of ways to install the undersea cables and the land based electrical cables. This process will be part of the installation and should be funded by DOE. (Property owners may have concerns that will need to be addressed.)

We understand that this is not a 'sure thing' and is subject to approval at many levels of government (starting with DOE acceptance of the proposal) and may result in nothing further happening or the project not starting at all.

I have been involved with other remote communities working on other projects, and I do have a sense of the logistical constraints and other practical implications involved in the process of installing nearly anything of this magnitude.

I understand from my discussion (with Ms. Myla) this morning that there will be a council meeting later this evening. While not on the published agenda, I hope this could be discussed with the Councillors and other possible stakeholders at your earliest convenience.

I look forward to a positive relationship and a successful project.

Thank you for time and consideration,

Leah