

DOCKETED

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Clean Hydrogen Generators

Attached is KCE's response to the CERI program. Please let us know how we can be helpful moving forward.

Additional submitted attachment is included below.

August 2022

RE: 22-ERDD-01 - Community Energy Resilience Investment (CERI) Program

Kaizen Clean Energy (KCE) appreciates the opportunity to provide comments on the CEC's development of the Community Energy Resilience Investment (CERI) Program. KCE is a leading developer of Hydrogen based power & fueling solutions in the US supporting ZEV transportation and diesel generator replacements.

Like many of the other responses to this program, KCE's solution supports grid resiliency during increased electrification. However, as we continue to look for community-based solutions, critical areas of availability to energy, localized emissions and noise pollution that impact livability will become very important.

Resilient solutions must be able to provide on demand and long-term power supply. We currently see multiple battery only options in the market and these lack the energy storage to provide useful and impactful energy resiliency without significant capital cost and space. As an example, KCE can store 72MWh of usable energy in a 40ft container's footprint, batteries alone would only store 1-3MWh in the same space. Hybrid solutions will become important to avoid deployment of polluting diesel generators.

The air we breath extends beyond our property lines and as such, selection of hybrid microgrid technologies should focus on local emissions (NOx, SOx, and Particulate Matter). By using hydrogen-based solutions, CEC can ensure an elimination of localized emission and a growing market for scalable carbon neutral feedstock that also accelerates the cost down of H2 applications.

KCE's technology is power generation agnostic and uses fuel cells, linear generators or reciprocating engines. However, the local impact of noise pollution would need to be considered and avoided to ensure proper adoption and community buy in. Fuel cells can offer a low-noise solution in local communities.



Our organization stands ready to participate in this transformational program and fully support your groups efforts.

Thank you for your consideration of this impactful project.

Sincerely,
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