

Overview of Innovation Pilot Process

August 24, 2021

Welcome to Innovation Pilot Process meeting! <u>Meeting instructions</u>

- Please use computer audio if possible
- Turn on your camera and mute your microphone (icons are all on controls bar)

- If you have any technical issues, click on chat bubble icon. @Nojiri, Andrew will be able to help you out.



 To Raise your hand, click on the hand raising emoji and then on the hand





Agenda

12:00 – 12:15	Introductions – 10 min a. Opening comments b. Round-robin intros (30sec/person). "Name. Favorite spot or activity in Hawaii"
12:15 – 12:45	Background and objectives of Innovation Pilot Process
12:45 – 12:50	Break
12:50 – 13:50	Discussion on Areas of Collaboration
13:50 – 14:00	Closing comments



Meeting Norms

- Be present
- Be respectful of everyone
- This is an open space for discussion
- Chatham House rules:
 - Comments are non-attributable
- Practice democracy of time. Please raise your hand
- The facilitator will keep things moving and use "parking lots" to ensure everyone is heard





Purpose of the Innovation Pilot Process

"...the Commission is including a Pilot Process to foster innovation by establishing an expedited implementation process for pilots that test new technologies, programs, business models, and other arrangements. This is intended to support initiatives by the Companies to test new programs and ideas quickly and elevate any successful pilots for consideration of full-scale implementation."

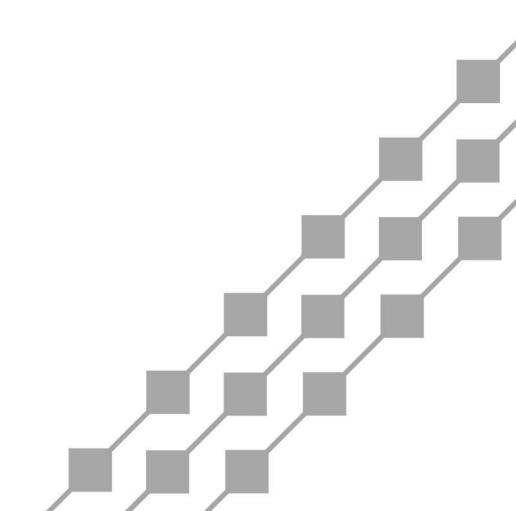


Workplan Development Phase

Develop a Workplan that identifies the high priority areas of collaboration for piloting innovative solutions that can provide value and benefits to electric utility customers.



Background



Workplan Development Framework: Guiding Principles

- Innovation
- Flexibility
- Iteration
- Collaboration
- Prioritize Learning
- Customer-focused
- Speed
- Ownership



Workplan Development Framework: Guiding Principles

- ◆ Innovation Innovation can take many forms and does not require paradigm-shifting inventions. The Framework will be open to testing Pilots across a broad array, including but not limited to new technologies, customer engagement programs, business models, products, services, and other arrangements.
- Flexibility The Framework process will incorporate innovative ideas and be open to input and
 continuous improvement. Since Pilots operate with a higher degree of technology risk and market
 uncertainty, there must be an ability to adjust and pivot during the Pilot, with reasonable
 communication and transparency.
- ◆ Iteration The Framework process itself will incorporate lessons on the process of launching and executing multiple Pilots over time and be open to input from Stakeholders and will thereby improve over multiple iterations with time. Learnings from previous Pilots will be used in planning for future Pilots.
- Collaboration Ideas for Pilots can originate from the Companies or from Stakeholders through a
 flexible engagement process that will value and respect the time commitments, contributions, and
 expertise of the participants.

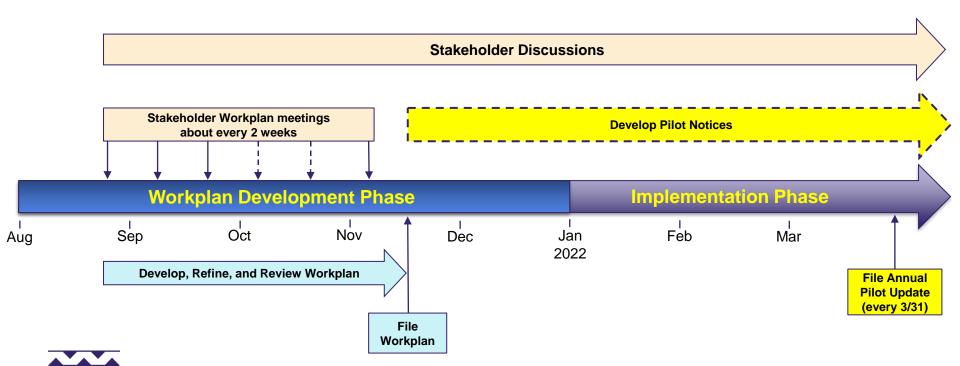


Workplan Development Framework: Guiding Principles (cont.)

- Prioritize Learning The goals and objectives of each Pilot will be set to prioritize learning and communicating results to Stakeholders. Learning from Pilots includes clearly stating assumptions, measuring results, and adjusting. Since there is inherent uncertainty in testing new approaches, there is an understanding that not all Pilots will be expanded into full commercial or permanent business offerings as originally stated in a Workplan or Notice.
- Customer-focused An overarching objective of all Pilots collectively will be to enable customers to make empowered choices or benefit from innovative solutions. Pilots will be set up to test ideas, assess solution readiness, and measure customer and market feedback.
- **Speed -** The Framework process is set up to act quickly within the guardrails set by the Commission. Notices should be filed and approved in a timely manner and Pilot schedules will be set to prioritize speed of execution.
- Ownership All Stakeholders should take ownership of the Framework process and Pilots that emerge. The Companies recognize that developing Pilots will require a shared vision and common set of values. Empowering Stakeholders to identify opportunities for innovation, following through on implementing their ideas, sharing in others success, and achieving measurable impacts and lessons learned will help to build a strong foundation for transitioning successful Pilots to full-scale solutions.



Overview



Innovation Pilot Process general parking lot Possible Not all pilots are the Leverage existing additions to Overall goals same. Possibly buckets: initiatives to start Principles quick vs longer term Collaboration with New expanding the capacity of HECO to innovate stakeholders, startups objectives "Community focused" to could be a way to make a larger umbrella create a practice and culture of innovation speed up and reduce risk Path to accelerate Desire to achieve quick and informed decisions refined ideas? Lot of cheap Renewables focused bringing DOT to the What defines 'shovel experiments implies conversation can be New gen, quick approval Cheap= price cap (flom) ready? helpful, but tension with decommissioning, more cooks in the Kitchen Look for opportunities to match funds with How to balance clear reporting with Federal Infrastructure meaningful reporting streamlining short and sweet fillings Potential tension: Portfolio of options Speed, Hexibility, Discuss at a future across the 3-year time Balancing between the frame. Certain tech will meeting in more details objective of the pilots. take longer than Cost-share some pilots focused on requirements. Timing of others scaling vs other Fed opps & approvals vs Continuous (annual?) clarity of communication updates to the is important Workplan and Pilot Process Prioritize Near-term What's the process to get from ideas to fully fledged projects and executing wins Not just How to leverage local HI technologies, but also resources? e.g. HNEI business models hardware in the loop test labs

BREAK – 5 minutes





Next Meeting

- September 7th (1 3 PM)
- Let us know if you want to have a separate discussion
- Purpose:
 - Discuss the consolidated Areas of Collaboration
 - Dive a level deeper into what pilot projects would look like
- Proposed Homework:
 - Send us more Areas of Collaboration
 - Think about what constitutes a good pilot project and overall goals for the Innovation Pilot Process
 - Feedback on the meeting



Feel free to contact any of us:

- ◆ Darren Ishimura darren.ishimura@hawaiianelectric.com
- Julian Sculley julian.sculley@hawaiianelectric.com
- Andrew Nojiri <u>andrew.nojiri@hawaiianelectric.com</u>
- ◆ Earle Ifuku <u>earle.ifuku@hawaiianelectric.com</u>
- Eric Kashiwamura eric.kashiwamura@hawaiianelectric.com



Closing Comments

Mahalo for your time!