Equity Advisory Group – Equity Lens Session

Meeting Date: July 19, 2023

Time: 4:30pm – 6:00pm

Location: Zoom Meeting

Attendees:

Facilitator:	***EAG Members:***
Amber Lenhart	*Cindy Kimmet*
Avista:	*Vanessa Strange*
Amanda Ghering	
Tamara Bradley	
Meghan Pinch	
David Schafer	
	Guests:

Agenda

Facilitator

I. Welcome & Introductions — Tamara Bradley
   - Overview of Meeting: Rules and Intent

II. Partner Share — Tamara Bradley

III. Condition #10 — David Schafer

IV. Spokane Tribe Energy Partnership — Meagan Pinch

V. Your Support Team and Next Meeting — Amber Lenhart

Meeting Notes

Welcome & Introductions

Introductions, Meeting Rules/Intent, and review of today's agenda.

Partner Share

Member: look at the events calendar on the Spokane library website and there are a lot of things going on for kids and adults. spokanelibrary.org/events

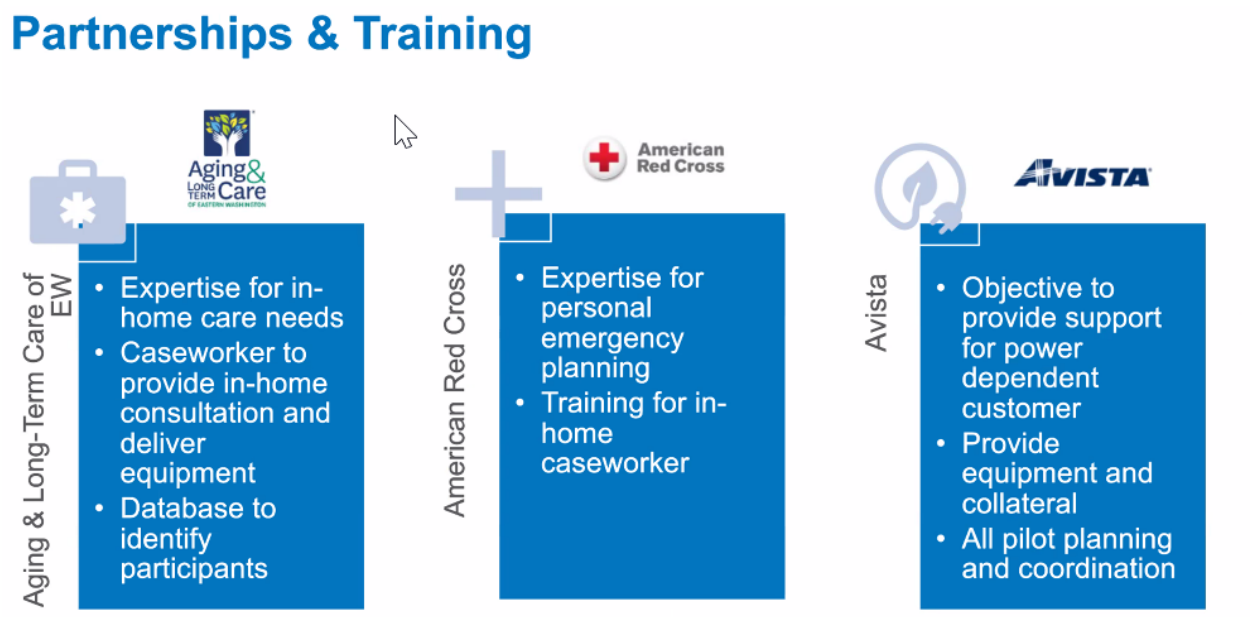
Condition 10

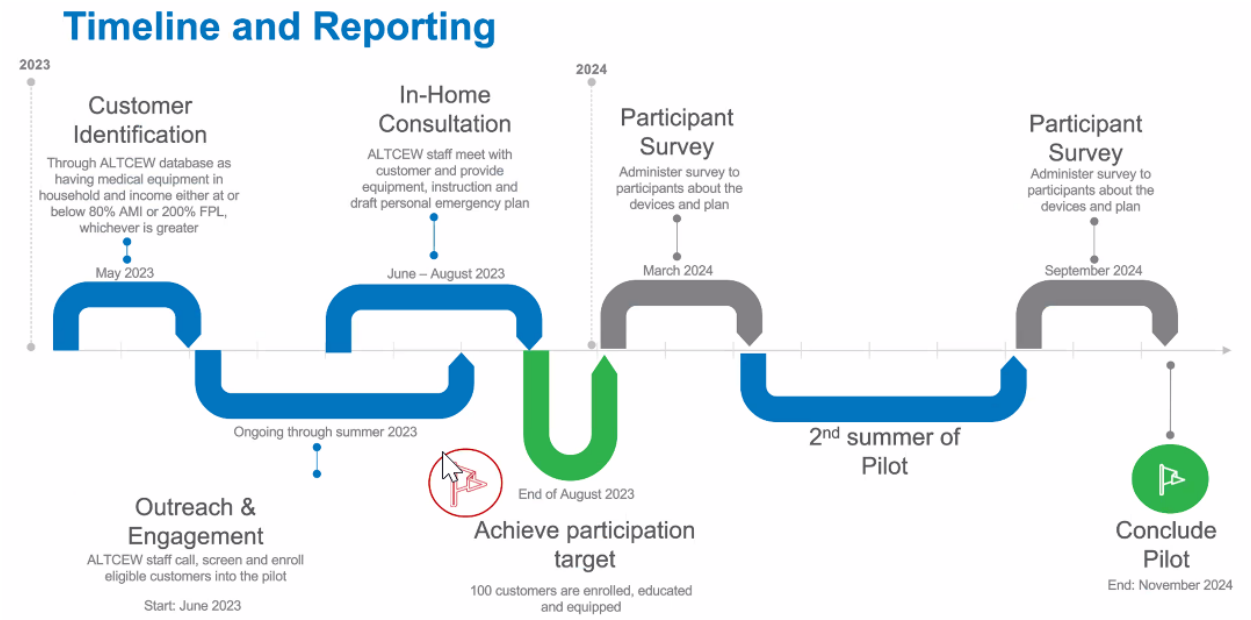
This was introduced and discussed with the EAG and EAAG, this medical power dependency program was voted on by EAG members and EAAG members as a top project to help support named communities

Here are the product and project details, we hoped to reach 100 customers and provide them with battery back up and air conditioning units for extreme heat events or extreme weather events where power goes out and they need a backup battery source.

We partnered with Aging and Long-Term Care of WA to identify and reach these customers. We helped customers develop outage plans and trained them on the equipment. The objective is to take this pilot and see how we might be able to partner

with other organizations and spread out the delivery of this program on wider scale, we have installed in approximately 55 homes to date.





We wanted to implement this before the extreme heat could kick in, but with the tight timeline we will have all 100 pilot customers installed by August 11th. We will conduct 2 surveys throughout the pilot to determine success and how to move forward.
Member: yes, this makes sense

Spokane Tribe Energy Partnership

- Grid resiliency design project
- Spokane Tribe Administrative building energy audit and grant application
- Additional energy audits for Tribally owned buildings in Wellpinit
- Geothermal

We received a grid modernization award through Department of Commerce. Here is how we are using those funds

Awarded project: **Financial support to design and engineer a clean and resilient energy storage project in partnership with the Spokane Tribe. The project will support increased energy resilience and energy sovereignty. Funding does not include construction of project.**

Project Funding: **$480,000 in total (Avista to provide $240,000 in-kind match to $240,000 in funding from Department of Commerce).**

Grid Modernization grants will support utilities across the state in building and integrating new technologies that support their clean energy transition plans.

We had a workshop with the tribe, their project goal is to provide sustained backup power for three “critical loads” buildings for summertime loads. Their admin building, public safety building with phone back up, and their public health clinic.

The sustained goal is 7 days of power but we are still working on that definition and what we can actually accomplish as 7 days is a hefty goal.

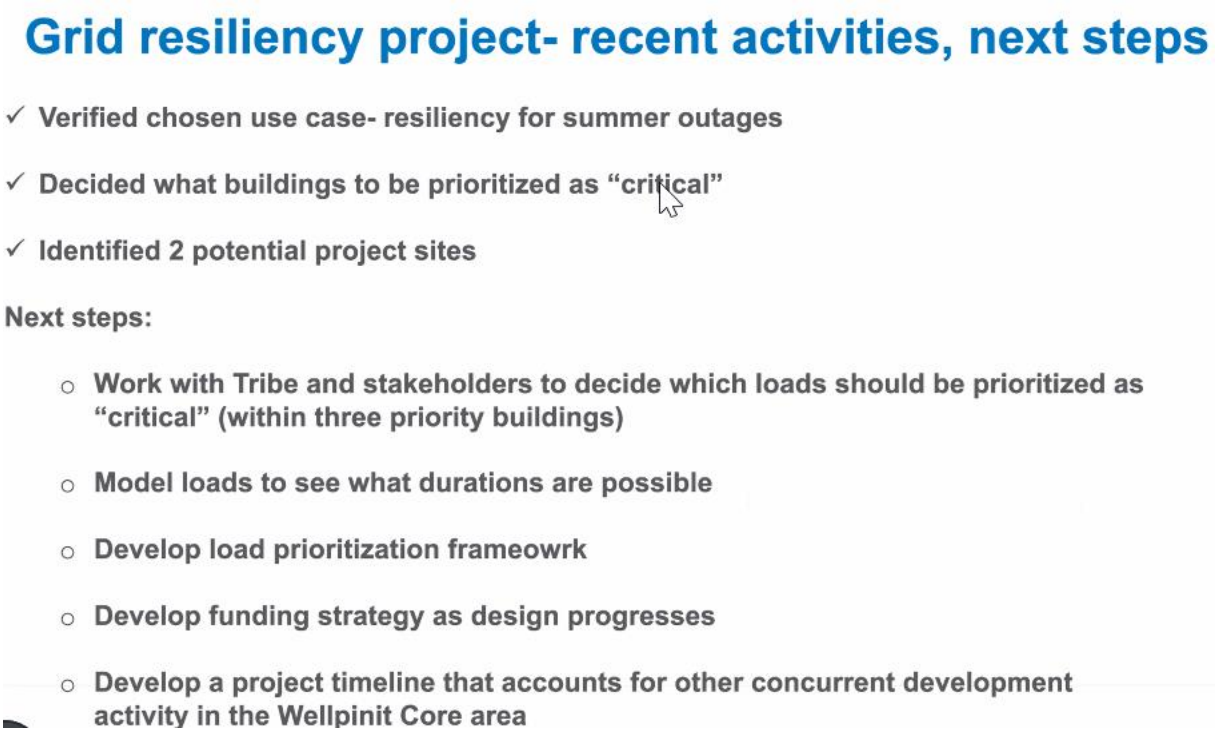
Goals

“Switchable” platform that could enable power to be switched between three or more stepdown circuits during an emergency

Could replace elevated building transformers currently located behind post office

Could potentially create a “critical loads” circuit- to ensure that power is available / prioritized to buildings that are critical to Tribal operations during emergencies

Winter loads are much higher than their summer loads, this micro grid will have less capacity to support the tribe during winter outages, but that's ok since this is more around wildfire resiliency.



We would love your feedback on this condition on the grant award, which community benefit indicator do you feel are the most beneficial for this project that we should be using to gauge success.

Grid resiliency project discussion- what CBIs are most relevant for this project?

Customer Benefit Indicator	Benefit Area	Measurement
Participation in Company Programs	• Reduction of Burden • Reduction in Cost • Non-Energy • Energy	• Participation in Weatherization Programs and Energy Assistance Programs (all and Named Communities) • Saturation of Energy Assistance Programs (all and Named Communities)
Number of households with a High Energy Burden (>6%)	• Reduction of Burden • Reduction of Cost	• Number and Percent of Households • Average excess burden per household
Availability of Methods/Modes of Outreach and Communication	• Non-Energy	• Number of Outreach Contacts • Number of Marketing Impressions
Transportation Electrification	• Non-Energy • Environment	• Number of Trips Provided by Community Based Organizations • Number of Public Charging Stations Located in Named Communities
Named Community Clean Energy	• Energy • Energy Resiliency • Reduction of Burden • Risk Reduction	• Percent Non-Emitting Energy located in Named Communities (Energy Efficiency and renewable energy)
Investments in Named Communities	• Reduction of Burden • Energy Resiliency • Risk Reduction	• Incremental spending each year in Named Communities • Number of customers/ and/or Community based organizations served • Quantification of energy/non-energy benefits from investments (if applicable)
Energy Availability	• Reduction of Risk • Energy • Energy Resiliency	• Average Outage Duration • Planning Reserve Margin (Resource Adequacy)
Energy Generation Location	• Energy Security	• Percent of Generation Located in Washington or Connected to Avista Transmission
Outdoor Air Quality	• Environmental	• Weighted Average Days Exceeding Healthy Levels • Avista Plant Air Emissions
Greenhouse Gas Emissions	• Environmental	• Regional GHG Emissions • Avista GHG Emissions
Employee Diversity	• Public Health	• Employee diversity equal to communities served by 2035
Supplier Diversity	• Public Health • Non-Energy	• Supplier Diversity at 11 percent by 2035
Indoor Air Quality	• Public Health • Non-Energy	• In development

To us the main one is investments in named communities or energy availability etc.,

There may be some secondary ones depending on how much solar they decide to add to the project or if they decide to add solar at all. Any others?
Member: how long will with batteries last? Years?
Company: Good questions, yes years, but we do not know how many years yet, it depends on what battery technology we decide to go with. There are some newer technologies that have longer lives, but we do not know which one will be selected yet. The longer the battery lifespan would be better but depends on the pricing on the units.

This admin building is an energy hog, it is an electrically heated building from the rooftop which are not working properly. They asked if we could do anything to support them. They need an in-depth energy audit, but we do not have the equipment for that. In January we partnered with a Resource Synergy to perform an energy audit and provides an in-depth analysis of how they can correct their energy issues which are defined below, this is easily above a million dollars in work and the tribe did not have that in their budget.

Opportunity Summary

Low/No Cost
- AHU Scheduling/ Demand Reduction
- Solar Panel Cleaning
- Finish LED Lighting Retrofit
- Exterior Lighting Control
- Plug Load Management
- Server Room Ceiling Tiles
- Attic Insulation/Sealing

Moderate Cost
- Replace Building Automation System (BAS)
- Occupancy and CO2 Sensors
- Retro-Commissioning

Large Capital
- Refurbish or Replace RTUs
- Window Replacement or Upgrade

Department of Commerce CEF 5: Rural Clean Energy Innovation Grant

A new program to support clean energy research, development and implementation. Includes set asides for tribal energy projects.

Project profile:

Funding for efficiency upgrades at Tribal Administrative Building as identified in ASHRAE Level II Energy Audit

Total project cost:
$1.1 million
$980,000 grant request
$120,000 required match

Summer 2023 awards announced

Key scope items:
Replace all 5 rooftop units, building automation system, some windows; finish lighting upgrades


Example 1500W Space Heater


Proposed 200W Panel Heater

RESOURCE SYNERGY
Photographs


Carrier ASHP


Tear in Fabric Duct Transition

If we could cut their energy consumption then we can support more of the load with the microgrid, the audit predicts that we could reduce their usage by 40% with all of the upgrades defined in the audit.

The tribe was so pleased with the original audit they asked us to conduct additional audits as follows which will help them to plan for future energy projects:

Additional energy audits for Spokane Tribe

- 10 additional buildings selected;
- Work to begin in August 2023
- Audit portfolio to be complete by end of year

We are also looking at how we can use this model to support other community organizations and non-profits, not just the tribe, how can we use this model to support others too.
There are several housing development zone that the housing authority owns and maintains and leases to tribal members, they are looking at doing geothermal energy which is a loop of fluid that runs underground which is regulated by the ground, temp underground tends to stay level over the year, it does not get as low as freezing in the winter or as hot in the summer and helps to heat and cool homes, so we are going to do a geothermal test in one of those homes if we receive additional grant funding.

Wrap Up

Thank you all for your time today, our next meetings are schedule for August 23rd and August 25th

Next Meeting | Support Team

August 23rd
4:30 – 6:00 pm

August 25th
7:30 – 9:00 am

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