



Public Health and Emergency Preparedness Implementation Partner Workshop Notes

Workshop Date: March 21, 2018

Welcome and introductions

Josh Proudfoot welcomed attendees and thanked them for participating in the workshop. He invited attendees to introduce themselves:

- Peter Passarelli: Project manager for the CAP
 - Recapped project progress thus far and the schedule going forward
 - Outlined implementation partner workshops and explained that this workshop was rescheduled from February
 - Explained the purpose of the implementation partner workshops is to hear from technical experts about their experience and ideas for mitigation and adaptation strategies
- Tristan Sewell, City of Milwaukie Climate Action Plan intern
 - Tristan has worked with the City for a year. He is interested in climate action planning at an institutional level and is currently a master's student in Regional and Urban Planning at PSU
- Vince Alvarez, Milwaukie resident and member of the CAPC
 - Vince is a life-long recycler and environmentalist. He wants to help the community make a difference through the CAPC process
- Mark Gamba, Mayor of Milwaukie
 - Mayor Gamba said climate was the reason he entered politics. As a former National Geographic Photographer, the Mayor saw the results of climate change first hand, as well as the impact of government inaction
- Kathy Hyzy, Milwaukie resident and member of the CAPC
 - Kathy said she cares about the climate and finds it very helpful to understand the technical considerations from the point of view of the experts in the room.
- Jay Wilson, Disaster Management and Resilience Coordinator for Clackamas County
 - Jay said he is working on an update to the County's Natural Hazard Mitigation Plan in coordination with Clackamas Fire District 1 and the University of Oregon's department for disaster resilience. He recently chaired the Oregon Seismic Commission, which authored the Oregon Resilience Plan. He noted seismic resiliency embraces a similar approach as climate action planning.
- Gregg Ramirez, Emergency Manager for Clackamas Fire District 1
- Damien Farwell, Fleet and Facilities Supervisor for the City of Milwaukie
 - Damien said the City's fleets are very involved in the local emergency response system.
- Josh Keeling, PGE
 - Josh said PGE is very focused on climate change, including decarbonization, greening the grid, and developing micro-grids for resiliency. He noted there is a large demand for micro-grids among municipalities.
- Mark Dye, Captain of the Milwaukie Police Department
- Josh Proudfoot, Good Company
- Emma Sagor, EnviroIssues

Josh and Peter noted health experts were also invited to participate in this discussion. They said they will likely augment the discussion at this workshop with additional outreach to these individuals.



Key Discussion Points

- Jay noted the Clackamas County HMAAC Hazard Analysis is from 2012 and only considered drought and heat. The County is currently updating the plan, but preliminary work shows that both drought and heat vulnerability have greatly increased.

Identified adaptation and mitigation actions (listed in priority order)

Green font = will be characterized for adaptation benefits

Blue font = will be scaled for mitigation benefit (we will be following up soon)

Adaptation Actions		
Number of dots	Action	Agencies/Resources Involved
9	Work with FEMA on consultation related to flood plain analysis <i>Note: This is a top priority identified in the Land Use and Transportation Planning and Natural Resources</i>	“Silver Jackets”—state and federal engineers; Metro; City; FEMA; neighboring cities
5	Identify solar systems susceptible to outages and develop outage plans <ul style="list-style-type: none"> Neighborhood charging stations Distributed battery storage 	City; PGE; neighborhood associations
5	Identify plans for cooling and air quality relief centers <ul style="list-style-type: none"> Align with flood sheltering plans 	City; County
4	Acquire flooded or flood-prone properties for flood storage	City
4	Identify sewer and water mains most vulnerable to flooding	City; County
4	Incentivize or promote more sophisticated home air filtration systems <ul style="list-style-type: none"> Through building codes Incentives Community bulk buy 	City; HVAC trade allies
2	Neighborhood-level planning for safety and emergency preparedness	Public Safety Advisory Committee; NDAs
2	Bury electrical infrastructure	PGE
2	Align seismic and climate resiliency efforts (e.g. around service disruption, sheltering and relocation)	City; County; State; Metro
2	Plan with County around flood and disaster sheltering needs <ul style="list-style-type: none"> Identify locations (short, mid and long-term): churches, schools, stores Develop funding agreements 	City; County; neighboring cities
1	Engage in policy learning from other areas (e.g. around wildfire planning)	City
1	Public education around leak proofing basements	City; trade partners
1	Develop planning recommendations for development on sites with flood risk	City



CITY OF MILWAUKIE Climate Action Plan

1	Public education around power outages in preparation for storms	City; PGE
1	Implement a micro-transit system	City; TriMet; County
1	Work with the Tree Board to identify most vulnerable potential heat islands	City; Tree Board
	Determine viable emergency routes	City; police department; fire department
	Identify where emergency fleets are located related to flood risk and consider relocation needs	City; police department; fire department
	Procure equipment for debris clearing	City; police department; fire department
	Public health education program related to mold risk	City; public health agencies
	Public health education related to mosquitos and disease preventions <ul style="list-style-type: none"> • Mosquito abatement programs • Connect to stormwater storage/filtration efforts 	City; public health agencies
	Identify additional fuel storage capacity for public works fleets <ul style="list-style-type: none"> • Longer-term, move away from liquid fuels 	City
	Explore opportunity around small-scale CNG compressors	City; Northwest Natural
	Implement air conditioning in schools and address air quality/filtration at same time	City; school district
	Plan for life guards and safety precautions at swimming holes and the river (e.g. Elk Rock, High Rocks)	City; North Clackamas Parks and Recreation Department; AMR
	Install splash pads in parks <ul style="list-style-type: none"> • Looks at portable options and misters 	City; North Clackamas Parks and Recreation Department

Mitigation Actions

Number of dots	Action	Agencies/Resources Involved
2	Explore creative options for right-sizing first responder response	City; police department; fire department
1	Fund/support community outreach through the fire department	City; fire department; NDAs
	Change first responder fleet to greener vehicles	City; police department; fire department