



Study Session

SS

Milwaukie City Council

COUNCIL STUDY SESSION

Zoom Video Conference
www.milwaukieoregon.gov

AGENDA

DECEMBER 8, 2020

Video Meeting: due to the governor's "Stay Home, Stay Healthy" order, the City Council will hold this meeting through Zoom video meetings. The public is invited to watch live by joining the Zoom webinar (visit <https://www.milwaukieoregon.gov/citycouncil/city-council-study-session-112> for details). **This meeting will not be broadcast live or recorded.**

Written comments may be submitted by email to ocr@milwaukieoregon.gov. Council may take limited verbal comments. **To speak during the meeting**, see the Zoom webinar login information (see meeting page link above).

Note: agenda item times are estimates and are subject to change.

Page #

- 1. Council Goal Update: Climate Action Plan (CAP) – Discussion** (5:15 p.m.) **1**
Staff: Peter Passarelli, Public Works Director
- 2. Adjourn** (7:15 p.m.)

Meeting Accessibility Services and Americans with Disabilities Act (ADA) Notice

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Servicios de Accesibilidad para Reuniones y Aviso de la Ley de Estadounidenses con Discapacidades (ADA)

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Executive Sessions

The City Council may meet in executive session pursuant to Oregon Revised Statute (ORS) 192.660(2); all discussions are confidential; news media representatives may attend but may not disclose any information discussed. Final decisions and actions may not be taken in executive sessions.



COUNCIL STUDY SESSION

Zoom Video Conference
www.milwaukieoregon.gov

MINUTES

DECEMBER 8, 2020

Council Present: Council President Angel Falconer; Councilors Lisa Batey, Wilda Parks, Kathy Hyzy, Mayor Mark Gamba

Staff Present: City Manager Ann Ober
City Recorder Scott Stauffer
Climate Action & Sustainability Coordinator Natalie Rogers
Fleet & Facilities Manager Damien Farwell
Public Works Director Peter Passarelli

Mayor Gamba called the meeting to order at 5:12 p.m.

1. Council Goal Update: Climate Action Plan (CAP)

Ms. Rogers provided an update on the city's climate action goals and an overview of related city programs. She and **Mr. Passarelli** discussed the community green tariff program that city was working on with Portland General Electric (PGE). They discussed potential legislative pathways for the program and noted other climate campaigns and programs that different community partners were working on.

Eric Underwood, PGE, provided an overview of PGE's new climate goals. **Mayor Gamba** expressed support for the goals and was interested in the various community projects. He underscored how important it was to act quickly on the climate crises and group agreed that they felt the urgency of climate action.

Ms. Rogers summarized the details of the draft memorandum of understanding (MOU) between the city and PGE. She noted that it would be brought to Council for consideration at the December 15 regular session meeting.

Mr. Farwell noted the Energy Trust of Oregon's (ETO) Strategic Energy Management (SEM) program. He explained that the SEM guided policy, facility, and operational changes to reduce energy use in city buildings. He noted improvements the city had made and provided a chart demonstrating energy consumption savings over time.

The group discussed energy efficiency updates at city facilities. **Mr. Passarelli** noted that 2020 was not a standard year and was not ideal to measure how buildings typically consumed energy. He thanked city staff for their work on the SEM program.

Ms. Rogers provided an update on the city's Home Energy Score (HES) program. She noted the average HES score and provided an overview of the city's outreach and engagement. She explained that the City of Portland's HES program report showed their program was successful and that more compliance was needed. She presented Earth Advantage's Green Building Registry that stores HES scorecards and noted the benefits of using the registry. The group discussed HES program details.

Ms. Rogers discussed both the state's 2021 base building code and the reach building code that were under development. The reach building code is currently a voluntary code that has higher climate efficiency standards. She noted current discussions about a local amendment process to adopt the reach code. She reported that there was uncertainty about whether electric vehicle (EV) regulations belonged in building or land use sections

of the municipal code. The group discussed the increased use of EVs and the logistics of installing EV chargers in new multi-family building complexes. **Mayor Gamba** and **Councilor Batey** noted the city had multiple multi-family buildings in the pipeline and should move quickly to require EV chargers be installed. **Ms. Ober** noted it was a national discussion. The group discussed the home builders' association involvement in state control over building codes. **Ms. Rogers** confirmed that the base code was set by the state Building Codes Division (BCD) and explained their process of developing and adopting code. The group commented on the BCD's 2021 draft code and agreed that it was not much of an improvement over the current code.

Ms. Rogers provided an update on the city's tree canopy goal and noted that the city had updated its public tree code. **Mr. Passarelli** confirmed the city had worked with local watershed councils to plant 1,600 trees in 2020. **Ms. Rogers** noted the city's Comprehensive Plan implementation process work included the development of a private property/residential tree code. She noted engagement efforts had shown the community's support for protecting trees.

Mr. Passarelli explained the city's upcoming work with a consultant to do a street tree pilot program inventory to better understand the scope of work that a full tree inventory will take. **Mayor Gamba** asked how having a street tree inventory would help in reducing carbon. **Ms. Rogers** explained it would identify the health of the trees and the diversity of the species, which will help with replacing trees and knowing where to plant trees. She noted the City of Portland's inventory had helped them realize they had an overpopulation of maple trees, so they adjusted their planting plans to increase the species diversity which reduces the potential impacts of pests or parasites.

Ms. Rogers discussed public engagement and outreach efforts, including the successful Arbor Day 2020 event and upcoming events. She summarized the city's climate action plan accomplishments from 2019/2020, including in areas of building energy and efficiency and increasing and promoting EV vehicles. **Councilor Hyzy** commented on the feasibility of requiring electric bike chargers be installed as part of the discussion about adding EV vehicle charging stations to multi-family buildings.

Ms. Rogers commented on additional staff accomplishments including working with community stakeholders on various projects and the development of the urban forest program. She provided a list of 2021 priorities, which included a greenhouse gas inventory, the city's 2021 solar goal, and a Community Green Tarif. She and **Mr. Passarelli** thanked everyone who helped with climate action goal projects. **Mayor Gamba** and the group thanked city staff for their work.

The group commented on the city's successful greenhouse maintained by the city's Natural Resource Coordinator Julian Lawrence.

2. Adjourn

Mayor Gamba adjourned the meeting at 7:20 p.m.

Respectfully submitted,



Amy Aschenbrenner, Administrative Specialist II

COUNCIL STAFF REPORT

To: Mayor and City Council
Ann Ober, City Manager

Date Written: Nov. 17, 2020

Reviewed: Blanca Marston (as to form), Administrative Specialist

From: Peter Passarelli, Public Works Director, and
Natalie Rogers, Climate Action and Sustainability Coordinator

Subject: **Climate Action Plan Update**

ACTION REQUESTED

Council is asked to receive an update on the accelerated carbon emissions goals and related programs, and provide direction for future energy discussions.

HISTORY OF PRIOR ACTIONS AND DISCUSSIONS

[October 2, 2018:](#) Council unanimously adopted the Milwaukie Community Climate Action Plan (CAP). Staff identified and presented 21 actions to be initiated in the following two years.

[May 7, 2019:](#) Council received the first update on CAP implementation.

[August 13, 2019:](#) Council received the second update on CAP implementation with a focus on the Home Energy Score (HES) program and the Portland General Electric (PGE) Smart Grid Test Bed (SGTB).

[December 10, 2019:](#) Council received the third update on CAP implementation with a focus on carbon accounting and broader energy generation goals.

[January 21, 2020:](#) Council adopted a resolution declaring a climate emergency and calling for the CAP carbon goals to be accelerated.

[March 3, 2020:](#) Council received the fourth update on CAP implementation with a focus on the 2030 energy goal and PGE programs and product opportunities.

[May 12, 2020:](#) Council received an informational presentation on a potentially carbon-free electricity product being explored by PGE.

[August 11, 2020:](#) Council received an update on the carbon-free product development from PGE.

ANALYSIS

The CAP was adopted in October 2018, laying out 53 city-led actions designed to reach community carbon neutrality through adaptation and mitigation strategies. The goals outlined in the original CAP were accelerated by Council's declaration of a climate emergency in January 2020 to the following: net zero carbon emissions from electricity by 2030, net zero emissions from building fuels by 2035, and community-wide carbon neutrality by 2045. Staff have been working to achieve the accelerated CAP goals through the strategies outlined in the CAP, including advocacy, program development and implementation, community outreach and

education, building relationships with regional partners, and institutionalization of climate actions into city processes.

Energy Programs and Products Update

PGE has announced a new carbon reduction goal, aiming to achieve net-zero greenhouse gas emissions companywide by 2040. The primary focus of this new goal is achieving organizational emission neutrality by addressing emissions from company vehicles, buildings, and materials. PGE has announced an “aspirational goal” of net-zero greenhouse gas emissions for power supply but may face constraints in regulatory and policy support and emerging technology needs. PGE does have a firm goal of achieving an 80% emission reduction below 2010 greenhouse gas emission levels by 2030, which would assist Milwaukie in the community’s own decarbonization goals.

Staff have been working with PGE and Oregon cities and counties to explore a new carbon-free product model that would allow for community customization and require customers to opt-out rather than opt-in to potentially increase participation. Staff and regional partners, including PGE and the Oregon Public Utility Commission (PUC), are unsure if legislation will be required to develop such a product. PGE staff have suggested supporting legislation would streamline product development through a green tariff with the PUC. However, PGE has informed city staff that they will not be submitting legislation for the 2021 legislative session due to the likely prioritization of COVID-19 and wildfire-related legislation, and [House Bill 4067A](#). HB 4067A would authorize the PUC to consider differential energy burden and other inequities of affordability in rates and offer additional processes for participation by low-income and environmental justice advocates.

Due to the time required to finalize development of a new product, build infrastructure, and bring accounts online, staff are continuing to press PGE for carbon-free product development in order to meet the first climate goal in just nine years. Staff are participating in community government discussions and upcoming PUC-led meetings with the Oregon Department of Justice and PGE to explore potential pathways for product development, and ensure a developed project falls within the PUC’s authority. Staff are also coordinating with regional communities in the development of a new electricity product.

In the meantime, PGE and the city have been working on a memorandum of understanding (MOU) to better define roles and responsibilities in the partnership to achieve Milwaukie’s 2030 CAP goal (Attachment 1). The MOU outlines multiple areas of collaboration between PGE and the city and helps strengthen transparency and understanding between both parties regarding commitments and opportunities for energy efficiency, decarbonization, and emerging technology. PGE is also working with the city to develop an implementation plan to define metrics, identify existing and future program and project opportunities, and align project and program goals between organizations. Topics include energy efficiency, generation and procurement, demand response, resiliency, outreach and promotion, and data sharing.

As called for in the CAP, staff are working to support demand response programs in the Milwaukie community, including participation in a Small Grid Test Bed (SGTB) diversity, equity, and inclusion workgroup, promoting SGTB product and incentive offerings, and aligning SGTB efforts with other energy programs and conversations in the community. Due to the pandemic, other energy promotion programs such as Solarize 2.0 and the Clean Energy Challenge were postponed, but staff have begun conversations to restart the programs in 2021. The Solarize 2.0 campaign may assist the city in achieving its 2.2 Megawatts (MW) by 2021 solar

energy goal. As of April 2020, PGE reports Milwaukie has 1.76 MW of net metered solar across 260 customers, totaling 80% of the community's solar goal. Seventeen solar permits were issued for installation in 2020 and staff is working to determine which installations were completed and at what capacity.

Staff have been meeting with NW Natural, the city's natural gas utility company, to discuss opportunities for decarbonizing or offsetting community natural gas use. Discussions with NW Natural include topics such as hydrogen fuel possibilities, captured biofuels from wastewater facilities, and carbon offset programs for city operational gas usage. NW Natural and the Eugene Water and Electric Board have recently announced exploratory work on a power-to-gas hydrogen facility, which staff are following.

Home Energy Score Update

The city began implementation of the Home Energy Score (HES) program on October 1, 2020. As of this report, 20 homes in the Milwaukie area have received scores with an average HES of 4.8. Staff have proceeded with the compliance process as outlined in the municipal code, sending out notices of violation along with informational handouts for homes not obtaining and displaying a HES report. Staff have been responding to community questions, primarily from realtors, and have held [two informational webinars](#).

Currently, staff are collecting data through the compliance process, which may inform the city on the average score in the community in relation to home prices and compliance rate. Staff also have access to data through the Green Building Registry including average score, average carbon score, average score with recommended improvements, carbon savings potentials, and more. Community Energy Project, the HES low-income assistance program contractor, will be sharing aggregated data on a number of assessments performed through the low-income assistance program, and average score. There are some limitations to data collection due to the extent of accessible information in the HES assessment process (such as a lack of demographic data collection), however, the city can explore performing HES buyer surveys in the future once the program is better established and more assessments have been performed.

City of Portland staff released their [30-month program evaluation report](#) to Portland's Council on the Portland Home Energy Score program. Key findings from the report include: (1) HES policy requirements have caused little to no disruption in the market, (2) HES can be a useful tool for new homeowners in the home shopping process and after they move in, (3) HES provides data benefits to the policy and energy efficiency sector, (4) early analysis of data shows opportunities for home energy upgrades and carbon reduction, (5) compliance has met city staff expectations, is not disproportionately impacting vulnerable communities, but overall needs to increase to maximize program effectiveness, (6) scores generated using the approved methodology are largely accurate, and (7) HES alone will not achieve the needed carbon reductions for city goals. Portland and Milwaukie are currently the only two cities in Oregon with HES programs, but multiple other jurisdictions are exploring or in process to adopt HES policies. Milwaukie and Portland staff coordinate frequently and participate in regional HES stakeholder groups led by the Oregon Department of Energy (ODOE).

Building Code and Electric Vehicle Advocacy Update

Staff continue to participate in state-led stakeholder panels for the development of the 2021 residential and commercial building codes and reach codes. ODOE and the Building Codes Division (BCD) are updating the codes to align with [Governor Brown's Executive Order 20-04](#)

on Climate Action, which requires BCD, through its advisory boards, and in cooperation with ODOE to adopt a building energy efficiency goal for 2030 that represents a 60% reduction in building site energy consumption from the residential and commercial energy codes that were in effect in 2006.

Due to concerns over the upcoming adopted code not reflecting the necessary energy requirements required to achieve regional cities' climate goals, some cities, including Milwaukie, have expressed interest in a local amendment process that would allow a jurisdiction to adopt and require a more stringent building code, which could include the developed reach code (a state building energy code that "reaches" beyond the state minimum building requirements for energy use in building design and construction). Staff have been participating and following community and Zero Energy Ready Oregon Coalition discussions on this topic and continue to advocate for state leadership in progressive building codes.

In addition, staff have been advocating for the inclusion of electric vehicle (EV) ready requirements in building code considerations, state EV mandates, and expansion of EV charging infrastructure networks through letters to the governor's office and participation in regional discussions.

Strategic Energy Management

The city has been enrolled in the Energy Trust of Oregon's Strategic Energy Management (SEM) Program since 2016. The SEM program is designed to teach businesses and governments how to integrate energy management practices into their operations. Energy Trust provides training, access to experts, context, and examples of best practices. The staff then examines energy usage and cross references use with weather data to identify potential issues. The facilities team investigates any anomalies and makes improvements to the systems, analyzing electricity and gas usage data monthly to correlated adjustments to savings. By participating in this program, the city has saved over \$31,234 through fuel reduction savings and also received various incentives from the Energy Trust. The city typically meets the 5-7% savings goal established by the program, seeing up to 20% savings in 2018 following the Ameresco lighting and HVAC controls replacement improvements.

Canopy Goal Update

The city's Tree Board proposed amendments to the tree code to further the community's urban forestry goals as set out by the Urban Forest Management Plan (UFMP) and the CAP. When adopting the CAP, Council adopted a natural resource climate action to increase urban canopy cover to 40% by 2040. The carbon sequestration performed by trees and additional ecosystem services such as water and air filtration, soil stabilization, and public health improvements will be essential as the community faces higher temperatures, increased flooding, and other natural hazards related to climate change. Council adopted a new public tree code on November 17, 2020. Consideration of applying the tree code to trees on private property will be explored in the Comprehensive Plan Implementation Process in alignment with the Comprehensive Plan natural resource and climate policies and the 40% canopy cover goal in the CAP and UFMP.

2021 Priorities for Climate Action

Staff will continue to implement the CAP strategies, building upon existing actions and leveraging upcoming community and stakeholder initiatives that align with existing goals. Some of the specific tasks staff will focus on in 2021 include:

- Drafting the 2021 CAP update report to inform the community of the climate action programs, advocacy, and efforts taken on by the city, including a greenhouse gas inventory.
- Pushing for development of a green tariff through the PUC for a new carbon-free electricity product from PGE.
- Exploring and advocating EV ready building code and/or land use requirements.
- Participation in the development of energy efficient building code and a potential local amendment process.
- Researching carbon offset programs for operational natural gas use.
- Performing internal outreach and engagement for energy management in the workplace, including assisting the facilities division with the development of an energy management plan.
- Coordinating with PGE for a 2021 Clean Energy Challenge campaign.
- Assisting in the Comprehensive Plan Implementation Project for climate action inclusion and tree code development.

Staff build upon regional and community-level momentum to prioritize work associated with the 53 actions in the CAP, and other opportunities, actions, and projects that were not included in the CAP, but provide greenhouse gas emission reduction potential or promote climate action and sustainability. Staff may identify new opportunities in 2021 to perform or focus on in addition to the above actions.

CLIMATE IMPACTS

The work performed by public works staff and city departments to implement the goals and actions in the CAP are essential in mitigating the city's contribution to the climate crisis, and furthering community resiliency in adapting to the coming impacts of climate change. As building energy is the largest sector of greenhouse gas emissions in Milwaukie, actions to decarbonize the electricity grid and increase energy efficiency in the community have been prioritized. In addition, urban forest preservation and promotion have been a focus of staff time as increased and healthy urban tree canopy provides the most benefits to the community for climate adaptation and resiliency. Overall, the work being performed to implement the CAP will have a positive impact on the climate mitigation, adaptation, and resiliency of the Milwaukie community.

BUDGET IMPACTS

Small programmatic expenses may occur due to city participation in the listed energy programs. Appropriate funds to cover these expenses already exist in the current budget and will be requested for inclusion in future budgets.

WORKLOAD IMPACTS

Public works staff will be leading CAP implementation and coordination with regional partners on relevant programs and initiatives. Staff will manage workloads appropriately and may need to prioritize or delay projects as needed, but currently have the capacity to manage the city's ongoing climate action efforts.

COORDINATION, CONCURRENCE, OR DISSENT

Reduction of carbon emissions in the community will require close collaboration between departments within the city, especially as it relates to city operations and processes, natural resource planning, and community engagement for residents and businesses. Continued

partnership with local utilities will be needed for energy sector decarbonization, and work with regional governments and environmental and climate focused organizations will be needed to implement actions and programs in all emission sectors to achieve the CAP goals.

STAFF RECOMMENDATION

Staff recommends that Council receive the update and provide direction to staff if needed.

ALTERNATIVES

None.

ATTACHMENTS

1. PGE MOU Draft
2. CAP Action Implementation List

**MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF MILWAUKIE AND
PORTLAND GENERAL ELECTRIC COMPANY FOR COLLABORATION TO HELP ACHIEVE THE CITY'S
CLIMATE ACTION GOALS**

This Memorandum of Understanding (MOU) is made and entered into between the City of Milwaukie, an Oregon municipal corporation (City), and Portland General Electric Company, doing business as PGE, an Oregon fully integrated electric utility corporation serving approximately 50% of the state's population and 75% of the state's economic activity, including customers in the City of Milwaukie. City and PGE are sometimes referred to herein individually as a "Party" and together as the "Parties."

A. PURPOSE

Under this MOU, the Parties intend to collaborate in an effort to help achieve the City's climate action goals established by City Council Resolution 7-2020, **A Resolution Of The City Council Of The City Of Milwaukie, Oregon, Endorsing The Declaration Of A Climate Emergency And Emergency Mobilization Effort To Restore A Safe Climate**. Specifically, Resolution 7-2020 calls for the City and Milwaukie community to achieve the following:

- a. By 2030, Milwaukie will have no net carbon emissions from its electricity use.
- b. By 2035, Milwaukie's buildings will have no net carbon emissions.
- c. By 2045, Milwaukie will be a fully carbon-neutral city.

To support the City's established climate action goals, the Parties intend this MOU, and the upcoming update to the City's Climate Action Plan, to prioritize the projects that most likely will produce cost-effective greenhouse gas emission reduction while keeping the bulk electric system reliable and affordable. To meet these objectives, the Parties intend to have regular meetings to identify actions, develop plans, and report on progress. While the initial scope of these discussions is outlined below, the Parties recognize that their collaborative work together on this effort may result in additional or revised projects or new potential opportunities.

B. SCOPE OF PROJECTS

1. Data Transparency Plan. The Parties intend to develop a data transparency plan. PGE intends to provide the City with publicly available data (including aggregate community data for load served by PGE) to the extent such disclosures are permitted under applicable privacy policies, laws, regulations and tariffs, to inform the City's and community's climate action planning and track progress towards the City's climate action goals. The plan may include data related to PGE's greenhouse gas emissions and resource mix, PGE program participation by Milwaukie residents and businesses, electric vehicle public charging information for locations in the City, and net-metering participation within the City. During development of the data transparency plan, a detailed analysis will be performed to determine what data can be shared between Parties.
2. Clean Electricity. The Parties will continue to engage on the development of a community clean energy product or plan that would help support the City in reaching its climate action goals. Specifically, the Parties agree to collaborate in explicitly defining and pursuing a product or plan that provides participating City customers no net carbon electricity by 2030, increases access to Pacific Northwest clean energy,

develops low-income options, and helps achieve the City's climate action goals in an affordable manner.

3. Smart Energy Use. The Parties intend to develop a plan to increase City and public engagement in programs designed to support and advance smart energy use such as energy efficiency (including conversion of streetlights to LED), demand response, grid-connected appliances, grid-connected self-generation (e.g. distributed solar PV), and electric vehicles, offered by PGE, the Energy Trust and other community provider programs, that align with the climate action goals of the City.
4. Transformative Energy Technologies. The Parties will strive to jointly investigate new transformative energy technologies that further economywide decarbonization and increase resiliency of the distribution electric grid for potential deployment in Milwaukie, such as:
 - a. Smart Grid Testbed.
 - b. Smart streetlights.
 - c. Grid-connected electrified buildings.
 - d. Community resiliency and microgrid technologies.
 - e. Transportation electrification infrastructure and support services (e.g., fleet electrification, electric vehicle charging expansion).
 - f. Grid-connected energy storage.

C. IMPLEMENTATION

The Parties intend to develop detailed scoping documents, and potentially implementation plans, as outlined above to identify respective roles, processes, responsibilities, timelines, program and project development pathways and potential costs related to the above projects. The Parties intend to jointly publish an annual progress statement.

D. COLLABORATION OF PARTIES

PGE supports the City's goals under the Milwaukie Climate Action Plan and Resolution 7-2020 and the Parties commit to collaborate to achieve said projects as outlined herein that support making progress towards those goals.

E. GENERAL PROVISIONS

1. This MOU can be terminated by either Party by providing the other party 60 days written notice.
2. This MOU may only be modified by the mutual written consent of both parties.
3. This MOU shall be interpreted under the laws of the State of Oregon.
4. In the event of a dispute between the Parties, the Parties agree to first attempt to resolve any disputes related to this MOU by meeting(s) between the City Manager and PGE representative in a good faith effort to work through the issue(s) consistent with the purpose and intent of this MOU.
5. PGE makes no representations, warranties or guarantees, expressed or implied, as to the accuracy or completeness of the data, reports, memorandums, analysis, or recommendations provided by PGE under this commitment. In no event shall PGE be liable to the City of Milwaukie or any third party relating to or resulting from such party's use of any of such data, reports, memorandums, analysis or recommendations provided by PGE under this MOU or any errors therein or omissions therefrom.

6. IN NO EVENT SHALL EITHER PARTY OR ANY OF ITS REPRESENTATIVES BE LIABLE UNDER THIS MOU TO THE OTHER PARTY OR ANY THIRD PARTY FOR ANY CONSEQUENTIAL, INCIDENTAL, INDIRECT, EXEMPLARY, SPECIAL OR PUNITIVE DAMAGES, INCLUDING ANY DAMAGES FOR BUSINESS INTERRUPTION, LOSS OF USE, REVENUE OR PROFIT, WHETHER ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER OR NOT SUCH PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. ADDITIONALLY, IN NO EVENT SHALL EITHER PARTY'S AGGREGATE LIABILITY ARISING OUT OF OR RELATED TO THIS MOU, WHETHER ARISING OUT OF OR RELATED TO BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEED FIFTY THOUSAND DOLLARS (\$50,000.00). THE FOREGOING LIMITATIONS SHALL APPLY EVEN IF THE NON-BREACHING PARTY'S REMEDIES UNDER THIS MOU FAIL OF THEIR ESSENTIAL PURPOSE.

All notices or communications which are required or desired under this MOU should be directed to the following persons:

To City: Natalie Rogers
503-786-7668 /rogersn@Milwaukieoregon.gov
City of Milwaukie
6101 SE Johnson Creek Blvd.
Milwaukie, OR 97202

To PGE:
Contact INFO

7. This MOU is effective on the last date signed by the Parties below.

PORTLAND GENERAL ELECTRIC COMPANY

CITY OF MILWAUKIE

PGE Representative

Date: _____

Mark Gamba, Mayor

Date: _____

Approved as to form:

City Attorney's office

Climate Action Plan (CAP)– Two Year Implementation Update

Update to Council – December 8, 2020 (Rev. 12/3/2020)

Staff Contact: Natalie Rogers, Climate Action and Sustainability Coordinator

P: 503-786-7668 E:RogersN@milwaukieoregon.gov

Actions	Implementation to Date (CY 2019, 2020)
Building Energy and Efficiency	
Work with PGE to become “net zero” from electricity by 2035	<ul style="list-style-type: none">• Strengthened city relationship with Portland General Electric (PGE), establishing monthly meetings and line of communication• Founded an energy discussion workgroup for regional government staff• Worked with PGE, Public Utility Commission (PUC), and local governments to explore a carbon-free product tariff to meet community goals• Performed planning and development work for Clean Energy and Solarize 2.0 campaigns (implementation in 2021)• Subscribed City of Milwaukie for 100% carbon free electricity for operational use through Green Future Impact• Updated downtown streetlights to LED adaptive lighting units• Submitted support letter for regional solar on high value farmlands (LCDC)• Promoted PGE and clean energy programs and projects on COM Climate Action webpage• Continued participation in Energy Trust of Oregon (ETO) Strategic Energy Management program for city buildings• Completion of Ledding Library Path to Net Zero building• Created carbon accounting calculator to determine ‘gap to close’ in clean electricity to reach 2030 goal• Inclusion of Climate and Energy policies in Comprehensive Plan supporting clean energy transition• Letter of support drafted for PGE’s Green Future Impact product• Coordination with PGE on Clean Energy Challenge outreach campaign for community engagement on climate/energy nexus• Unanimous vote for resolution to declare a climate emergency, accelerating climate goals by 5 years (7-2020)
Engage NW Natural to develop strategy for becoming “net zero” from natural gas by 2040	<ul style="list-style-type: none">• Scheduling and participation of NW Natural introduction and relationship building meetings• Discussions with NW natural on city subscription to Smart Energy carbon-offset subscription for city operational natural gas usage• Inclusion of Climate and Energy policies in Comprehensive Plan supporting clean energy transition• Unanimous vote for resolution to declare a climate emergency, accelerating climate goals by five years (7-2020)
Adopt a commercial and residential building energy score program based on the City of Portland’s programs	<ul style="list-style-type: none">• Participated in Home Energy Score (HES) policy development workgroup, creating blueprint for program in Milwaukie• Brought materials, responses, and HES program information to four Council discussions for program development• Held HES Community Forum with guest speakers from Oregon Department of Energy, City of Portland, and Earth Advantage to educate residents and provide opportunity for community to provide feedback• Developed and adopted Residential Energy Performance Rating and Disclosure Code (Ord 2187)• Formalized internal processes for compliance, including coordination with Code Compliance Coordinator and considerations to future data requests and analysis• Successfully completed and granted contract to Community Energy Project for low-income assistance in HES program• Developed a new Home Energy Score portal on the city webpage, with program information, guides, and instructions for low income assistance and exemptions• Creation of exemption application and validation process for internal processing• Created outreach and education materials for the public and industry professionals, including informational handouts for homeowners, address lookup tool instructions, and HES scheduling guide• Drafted letter for realtors for distribution through the Portland Metropolitan Association of Realtors distribution list• Presented at a Home Energy Score assessor training session on the Milwaukie HES program• Held two informational webinars about the Milwaukie Home Energy Score program• Continue to meet and assist regional communities with development of new HES programs• Continued management of HES compliance in community, including data collection and coordination with code enforcement• 27 Home Energy Scores to date, with an average score of 4.7• Exploration of HES and demand response technology alignment
Work with PGE to implement demand response programs	<ul style="list-style-type: none">• Participation in recurring demand response stakeholder groups with PGE• Promotion of PGE demand response program on COM Climate Action webpage• Coordination with Smart Grid Test Bed (SGTB) Community Relations Manager for Milwaukie outreach and education• Promotion of demand response in relevant projects, communication with PGE to inform of opportunities• Exploration of program alignment opportunities with HES program• Participation in SGTB equity working group for program development and learning

Advocate for more energy efficiency state building codes	<ul style="list-style-type: none"> • Introductions and relationship building meetings with local developers, architects, and program-managing organizations • Held lunch-and-learn series for city staff on current building certification programs • Adoption of modified green building code for 5th green certification floor allowance • Membership in Zero Energy Ready Oregon (ZERO) coalition and participation in quarterly meetings • Council resolution directing International Energy Code Council (IECC) voting for energy efficient code (70-2019) • Staff participation in Oregon Department of Energy (ODOE) energy code stakeholder group, including reach code development group • Written letter in support of upholding the outcomes in the IECC voting process • Signed ZERO coalition letter to Governor and Building Codes Division (BCD) in support of more energy efficient state and reach code, and support of a local amendment pathway for jurisdictional code adoption
Vehicles and Fuels	
Incentivize workplace electric vehicle charging in parking	<ul style="list-style-type: none"> • Created first draft of City-employee Electric Vehicle (EV) charging policy • Facilities exploration of charging infrastructure for city employees located at city campuses • Preparations for additional EV chargers for City fleet capacity needs • Exploration of PGE bi-directional charging programs to incentivize EV fleet vehicles
Support outreach efforts to encourage shift to electric vehicles	<ul style="list-style-type: none"> • Planned, promoted and held grand opening of PGE Electric Avenue project and event (April 6, 2019) • Representation at Hillside Estate PGE coordination meeting to advocate for EV charging technology at multifamily housing development • PGE/Forth Ride and Drive event held in downtown Milwaukie (Summer 2019) • Letter of support signed by council submitted to Governor’s office for EV Roadmap initiative and Oregon EV mandate
Optimize the City’s light duty fleet and replace least efficient vehicles with more efficient vehicles	<ul style="list-style-type: none"> • Exploration of PGE bi-directional charging programs to incentivize EV fleet vehicles • Analysis of vehicle miles traveled and position vehicle requirements by fleet to shift vehicle replacements toward more efficient vehicles • Continued use of five Nissan Leafs for city work and intraoffice commuting • Purchase of two new electric hybrid Chrysler Pacifica vans to replace aging ICE vehicles • Coordinated discussions with PGE and Police department about Police Department fleet electrification opportunities • Purchase of two e-bikes for inter-building commuting by city staff • Submitted Drive Change Grant fund applications for EV engagement van and EV charging infrastructure at Johnson Creek Building (2019) • Transition from fossil fuel to electric asphalt warmer for streets utility equipment
Review location of fleet yard and fuel storage to examine flood vulnerability. Look at fuel movement during flood conditions and diversify fuel sources to prepare for climate event-related import challenges.	<ul style="list-style-type: none"> • Currently in planning stage for removal of underground fuel tanks at JCB • Established timeline for closing fossil fueling station at Public Works campus • Construction of above ground diesel tanks on PW campus planned for CY2021 for generators and vehicle needs
Implement intergovernmental agreements or MOUs with other agencies for fleet support in emergencies (e.g. large-scale debris removal)	<ul style="list-style-type: none"> • Signed Memorandum of Understanding (MOU) with the Oregon Water and Wastewater Response Network for a mutual aid agreement (2019) • Completed Managing Oregon Resources Efficiently Intergovernmental Agreement (IGA) (2018)
Land Use and Transportation	
Implement the Safe Access for Everyone (SAFE) street and sidewalk improvement program to expand bike and pedestrian access	<ul style="list-style-type: none"> • Progression of Phase 1 SAFE projects by Engineering department • Over 2400 linear feet of sidewalks and paths added • 36 ADA ramps added • Over 17 trees planted
Partner with Metro and TriMet to increase transit service, particularly to underserved employment areas	<ul style="list-style-type: none"> • Initial discussions with TriMet and Human Resources to identify City workplace opportunities
Implement “electric vehicle ready” zoning regulations for commercial buildings and multifamily housing	<ul style="list-style-type: none"> • Discussions with building department, ZERO coalition on legality of EV ready code in building code • Support of incorporation of EV ready code in 2021 building reach code through ZERO coalition • Planned CY 2021 action item
Incentivize employers to encourage active transportation and transit	<ul style="list-style-type: none"> • Letter of support submitted for FORTH grant for a city-subsidized interest rate for employee e-bikes loan and additional e-bike education at the city • Purchased 2 e-bikes for city intra-building travel • Policy one-pagers on employee commuting options with climate considerations created for management consideration (working draft)
Promote “neighborhood hubs” through Comprehensive Plan policies	<ul style="list-style-type: none"> • Comprehensive plan adopted summer 2020 • Incorporated climate and sustainability goals in Comp. Plan policies • Participation in Comprehensive Plan Implementation Committee for housing, trees, and parking code
Implement parking strategies and pricing downtown	<ul style="list-style-type: none"> • Initial discussions on Climate Action and Sustainability Coordinator (CASC) support to Downtown Development Manager
Lower parking ratios near high capacity corridors	<ul style="list-style-type: none"> • Initial discussions on CASC support to Downtown Development Manager • Participation in CPIC for parking code development balancing housing and tree goals

Implement variable system development charges to encourage accessory dwelling unit (ADU) development	<ul style="list-style-type: none"> ADU waiver pilot program established and in progress
Materials Use, Purchasing and Recovery	
Promote the repair of equipment and materials and buy used and durable before purchasing new	<ul style="list-style-type: none"> Formation of and CASC participation in a City of Milwaukie (COM) purchasing committee Promotion of Fix-it-fair event (2019) held at the Milwaukie Center Attendance in peer-exchange event for Oregon on construction material Greenhouse Gas (GHG) reduction
Provide education and outreach to avoid edible food waste	<ul style="list-style-type: none"> Attendance to Clackamas County business food waste outreach events Creation of new COM waste webpages including food waste specific webpages Assistance with community questions around waste management, composting, and food waste
Promote existing food waste composting services	<ul style="list-style-type: none"> Creation of new COM waste webpages including composting information Coordination with local stakeholders on promotion of food waste and composting services
Natural Resources	
Work with the COM Tree Board to develop a tree planting program focused on shielding low income neighborhoods from heat	<ul style="list-style-type: none"> Public works staff participation in Tree Board meetings and dissemination of city plans, programs and relevant goals Coordination, contracting and development and promotion of tree canopy analytics tool to assess canopy cover and socioeconomic data for strategic planting Spring 2019 Friends of Trees planting event (free trees available for qualifying residents) Creation of COM Urban Forest website as platform to host community information and tree planting incentive programs Low income assistance program developed for new public tree code Participation in comprehensive plan implementation process to advocate for tree canopy preservation in development, particularly around middle housing
Increase tree canopy from 26% to 40%	<ul style="list-style-type: none"> Achieved Tree City USA status for 2019 and 2020 Coordination and contract formation for canopy analytics tool for parcel-specific canopy cover, urban heat island, and equity assessment Creation of Urban Forester position with specialized arborist training, and Natural Resources Technician position within COM staff Creation of COM Urban Forest website to host informational materials, resources, and events Creation and adoption of Urban Forest Management Plan, addressing canopy goals through urban forest maintenance, protection, and growth opportunities Promotion of planting events including partnership with Friends of Trees for a Milwaukie Planting Event (April 13th), Arbor Day 2019, Arbor Day 2020, Friends of Trees planting event (Spring 2020, Fall 2020) Creation of updated tree species list for PW Standards to promote resilient, site-considerate plantings in coordination with Tree Board Coordination with Parks and Recreation Board for canopy goal alignment in parks planning Development of new public tree code, emphasizing preservation of trees and developing programmatic permits and replanting requirements Participation in adopted Comprehensive Plan development to ensure tree and natural resources considerate city policies, including habitat connectivity and strengthened natural resource policies Increased COM public property plantings by Urban Forester and Natural Resource crew, with continued maintenance of public trees within the community Provided community assistance, communication, and education on tree and habitat related issues Development of Urban Forest Management Plan brochure Coordination with Tree Board to develop outreach sub-committee for community education, awareness, and tree promotion Participation in the Comprehensive Plan Implementation process to develop new residential tree code Participation in Regional Habitat Connectivity Workgroup and Steering Committee, consisting of diverse government, nonprofit, and advocate organizations, to develop a regional strategic action plan focused on natural resource and habitat preservation, particularly in urbanized areas
Review intergovernmental water agreements	<ul style="list-style-type: none"> Signed MOU with the Oregon Water and Wastewater Response Network for a mutual aid agreement (2019) Water Master Planning efforts are reviewing opportunities for additional coordination with regional water providers.
Identify sewer and waterways vulnerable to flooding	<ul style="list-style-type: none"> Assessment of vulnerable waterways in storm events through North Clackamas Watershed Council Flood attenuation mapping work Consideration of flooding and resiliency planning in Wastewater Master Planning Incorporation of climate change considerations into Water and Wastewater master planning documents
Administrative, Reporting, and Data Management	
Update Greenhouse Gas (GHG) Inventory reflecting changes to COM carbon emission equivalents due to implemented programs	<ul style="list-style-type: none"> GHG inventory update planned for 2021 Communication of data needs with utility partners Subscription in ICLEI USA GHG reporting software for internal inventory creation
Assist staff and community members in climate and sustainability related questions and concerns	<ul style="list-style-type: none"> Creation of climate action website and resource portal Actively responding to staff and community questions and concerns Creation of Climate Action email inbox for community questions

	<ul style="list-style-type: none"> Participation in staff meetings and projects to provide climate and sustainability perspective and assistance
Attend stakeholder and regional meetings to encourage interagency partnership and collaboration	<ul style="list-style-type: none"> Participation in Tree Board and Parks and Recreation Board meetings Attendance at Neighborhood District Associations (NDA) meetings, particularly NDAs needing bridge to utility partnerships Member of the Regional Habitat Connectivity Steering Committee and Work Groups for natural resource planning in metro region Participation in PGE Smart Grid Test Bed equity workgroup Member of Zero Energy Ready Oregon Coalition, attending quarterly meetings Member of the United Sustainability Directors Network and Public Sector Sustainability Roundtable for government climate collaboration Founded and facilitates regional jurisdiction energy workgroup for energy sector decarbonization goals Participation in education, workgroup, and networking events for regional jurisdiction climate action planning Participation and meeting scheduling with local climate and sustainability advocate groups, including Milwaukie Environmental Stewards Group, Clackamas Climate Action Coalition, and individual environmental advocate community members Relationship building with local science teachers and administrators with North Clackamas
Promote climate advocacy through partnership with other local and regional governments to influence local, state and federal climate policy activities	<ul style="list-style-type: none"> Active participation in jurisdiction workgroups for climate action planning Assistance, interviews, and guidance provided to multiple regional and national cities developing climate action plans (ex. Lincoln County, Clackamas County, Salem, Corvallis, Bend, Decatur, GA) Member of the United Sustainability Directors Network and Public Sector Sustainability Roundtable for government climate collaboration
Track progress annually, provide progress reports to City Council and publish results for community tracking and accountability	<ul style="list-style-type: none"> Four climate action implementation update presentations given to council in 2019/2020 Additional project specific updates given to council related to climate action strategies Update report for community planned for 2021
Assist communication and coordination regarding existing city sustainability programs and resources	<ul style="list-style-type: none"> Creation of Climate Action website, including resources and information links Creation of Urban Forest website, including resources and volunteering information Update of Recycling and Waste website, including resources and helpful stakeholder information Promotion of programs via printed materials, presentations, social media posts Regular attendance at Milwaukie Farmers Market to distribute information on programs and resources to community members
Maintain frequent program and metric evaluation to ensure action success and adjust completion date as needed	<ul style="list-style-type: none"> Regular evaluation of CAP strategies and actions for data collection opportunities Internal discussions on workplan, project and program prioritization to match current staff capacity and resource availability
Internal Outreach	
Facilitate interdepartmental collaboration, engagement, information exchange and peer-to-peer learning related to City of Milwaukie climate action efforts	<ul style="list-style-type: none"> Hosting of sustainability lunch and learn associated with energy certifications Hosting of climate documentary lunch and learn Sharing and distribution of relevant information and helpful climate resources with departments to assist with sustainability inspiration Inclusion of climate and sustainability articles and actions in staff wellness committee work
Assist in changing standard operating procedures and policies to reflect relevant climate actions	<ul style="list-style-type: none"> New requirement for climate impacts section in staff reports to encourage consideration of climate action plan relevance and goal impact Review and revisions provided by CASC to assist staff in climate impacts section New requirements in PW standards that align with CAP goals, including tree replanting and species lists and construction materials Incorporation of climate questions in city banking contract
Integrate the Climate Action Plan into the City's updated Comprehensive Plan	<ul style="list-style-type: none"> Comprehensive plan (adopted Summer 2020) includes new Climate and Energy Policies and reflects the goals and actions found within the CAP.
External Outreach	
Develop and manage an official climate action-centered webpage for public engagement and resources	<ul style="list-style-type: none"> Climate Action portal (milwaukieclimateaction.com) created and managed by PW Climate Action Story Map created and active Urban Forest Story Map under development
Develop and distribute climate and sustainability related materials for public awareness, engagement, and education	<ul style="list-style-type: none"> Creation and update of climate action brochure for CAP Creation of climate action poster (available online) Creation of climate action week postcard Attendance and distribution of materials at events and city engagement opportunities, including Farmers Markets, Ledding Library Plant Sale, Earth Day events, Arbor Day Events, Fix it Fair events, Electric Avenue grand opening
Coordinate climate and sustainability outreach events featuring city actions, partnerships, and stakeholder actions	<ul style="list-style-type: none"> Attendance at 3 Farmers Market Events Planning and facilitation of climate action week for Earth Day 2019 Planning and facilitation of Arbor Day 2019, 2020 Planning and facilitation of Home Energy Score Community Forum Planning for Earth Day 2021 Planning for Clean Energy Challenge with PGE (2021) Planning for Solarize 2.0 (2021)

Serve as resource for community questions and concerns for climate and sustainability city policies, goals, and projects	<ul style="list-style-type: none">• Continued provision of online, phone, and in person communication to answer community questions regarding CAP, Urban Forest, and sustainability goals• Continued attendance and participation in internal and external meetings where assistance in climate, sustainability and natural resources is requested
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SS 1. 12/8/2020
Presentation



CITY OF MILWAUKIE

CLIMATE ACTION PLAN Update

Peter Passarelli
Public Works Director

Natalie Rogers
Climate Action and Sustainability Coordinator

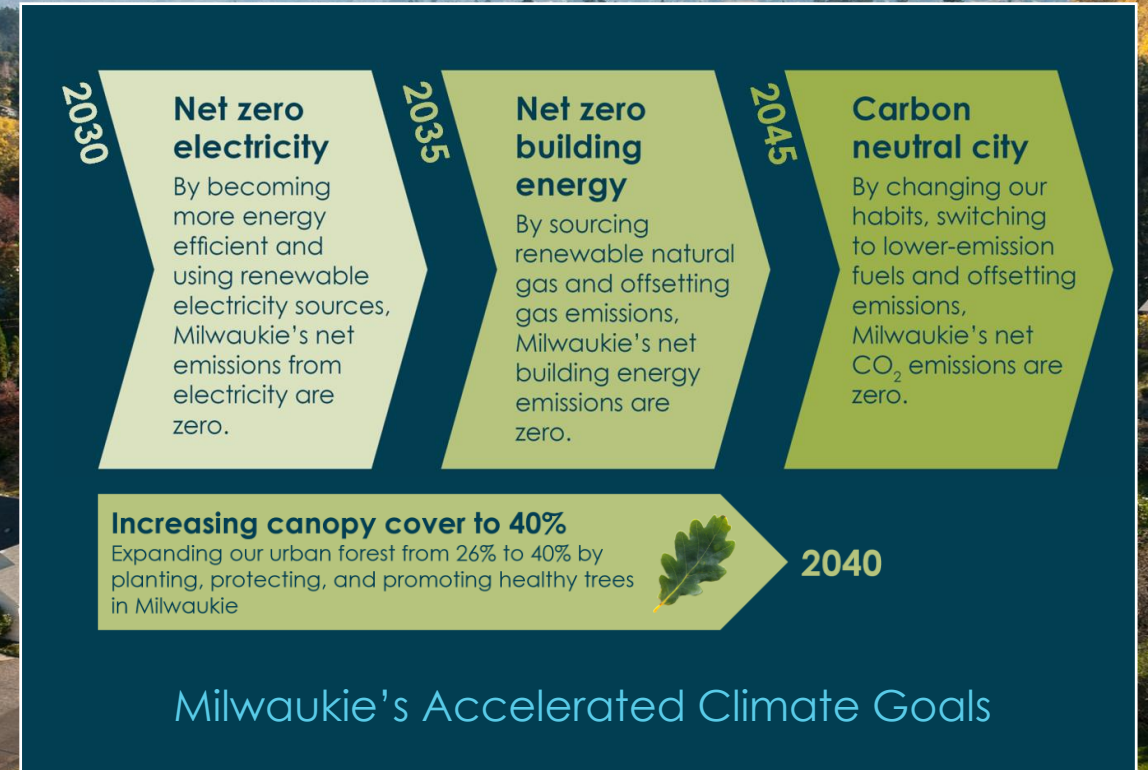
More information available online at:
www.milwaukieclimateaction.com

climateaction@milwaukieoregon.gov



Discussion Roadmap

- Community Green Tariff
- PGE Goal Announcement
- PGE MOU
- Strategic Energy Management
- Home Energy Score
- Building and EV Ready Code
- Canopy Goal Update
- 2019/2020 Accomplishments
- 2021 Priorities



Community Green Tariff Update

- Potential legislative pathways + PUC pathway
 - PGE tariff guidance legislation – not submitting for 2021 session
 - Farmers Conservation Alliance ‘Oregon Renewable Options’ program
 - Oregon Clean Energy Opportunity Campaign
 - PUC Tariff pathway without legislation
 - All options impact PUC resources
- EO 20-04 driving PUC-led meetings to address community climate and product interest/feasibility
- PGE and Milwaukie to work on Implementation Plan
- ~40% gap to close to achieve 2030 carbon-free electricity goal
 - New clean energy goal from PGE may shrink the gap





PGE's new climate goals

- Reduce greenhouse gas emissions associated with the power we serve to customers by at least 80% below 2010 levels by 2030
- Aspirational goal of zero greenhouse gas emissions associated with the power we serve to customers by 2040*
- Achieve net zero greenhouse gas emissions across our company by 2040. Address the emissions associated with not only our power supply but every part of our internal operations:
 - The vehicles we drive
 - The materials we purchase
 - The buildings we operate and work in

*Aspirational and dependent on technology, policy and regulatory advancements as well as customer impacts (e.g., pricing and reliability)



PGE Memorandum of Understanding (MOU)

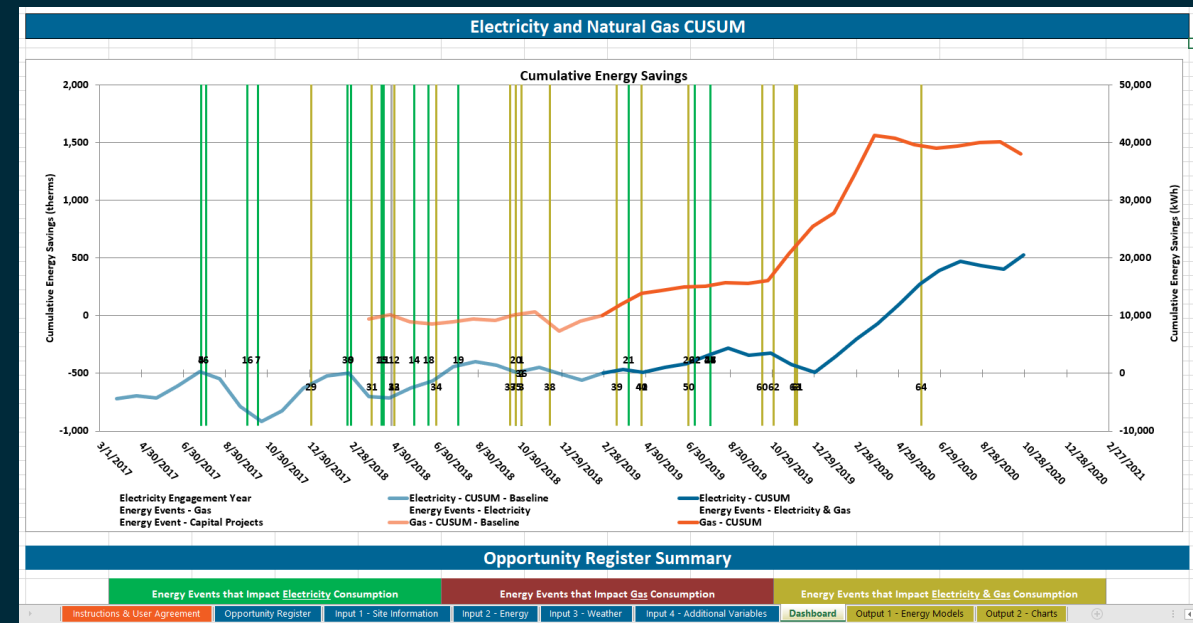
- Outlines areas of collaboration between the city and PGE
 - Formalizes partnership
- Strengthens transparency and commitments around:
 - Data transparency
 - Clean electricity
 - Smart energy use
 - Transformative technologies
- Bringing back to Council December 15th



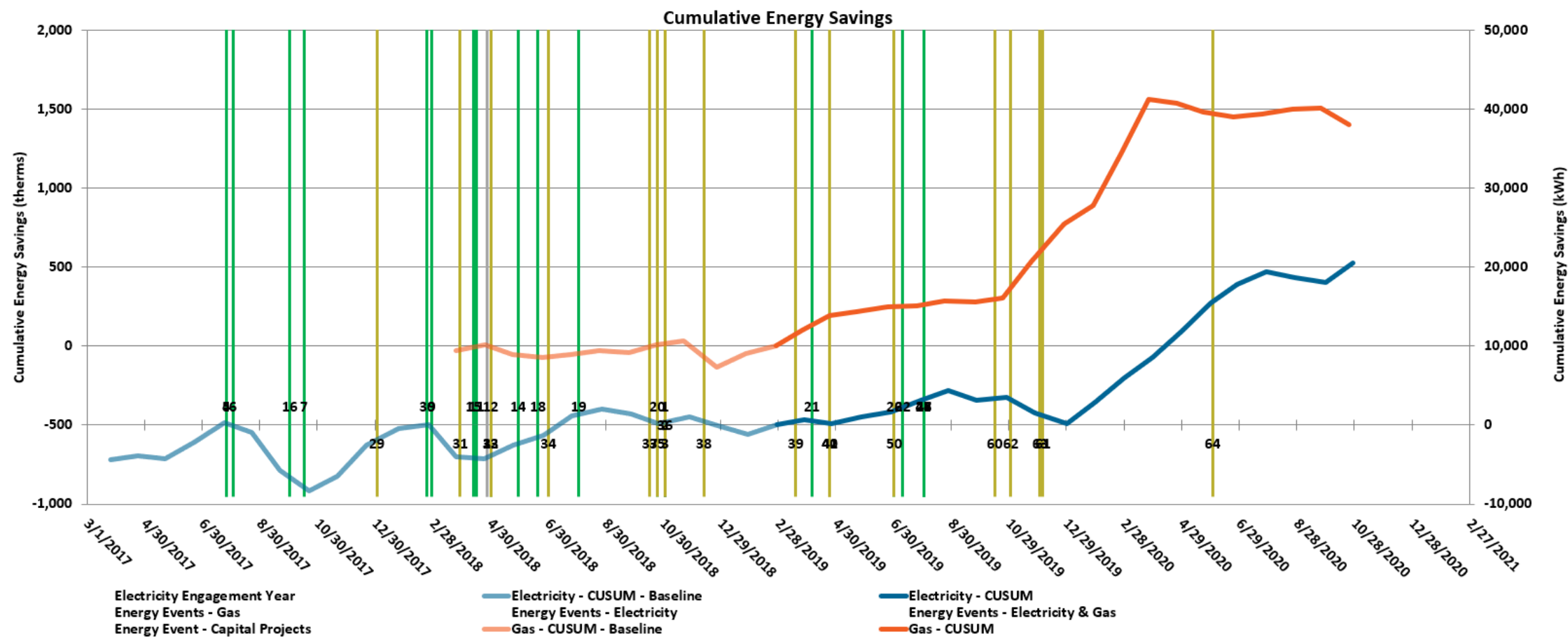
Strategic Energy Management (SEM)

- Energy Trust of Oregon commercial energy efficiency education and assistance program
- Guides policy, facility and operational changes to reduce energy use
 - E.g. Thermostat setpoints, space heater restrictions, maintenance, efficient asset selection
 - Facilities dept. correlates data to assess impact of actions and changes
- Goal of 5-7% reduction in energy consumption per year
 - City typically meets or exceeds, even with new EV charging needs

Year	Gas Savings (Therms)	Elec Savings (kilowatt hours)	Utility Savings (dollars)	Incentives (dollars)	Total (dollars)
2016	891	7,430	\$1,411	\$2,148	\$3,559
2017	1,018	60,770	\$5,272	\$5,838	\$11,110
2018	2,872	78,880	\$8,394	\$6,152	\$14,546
2019	16,095	891	\$16,157	\$4,300	\$20,457
Total:	20,876 thm	147,971 kWh	\$31,234	\$18,438	\$49,672



Electricity and Natural Gas CUSUM



Opportunity Register Summary

Energy Events that Impact Electricity Consumption

Energy Events that Impact Gas Consumption

Energy Events that Impact Electricity & Gas Consumption

Instructions & User Agreement

Opportunity Register

Input 1 - Site Information

Input 2 - Energy

Input 3 - Weather

Input 4 - Additional Variables

Dashboard

Output 1 - Energy Models

Output 2 - Charts

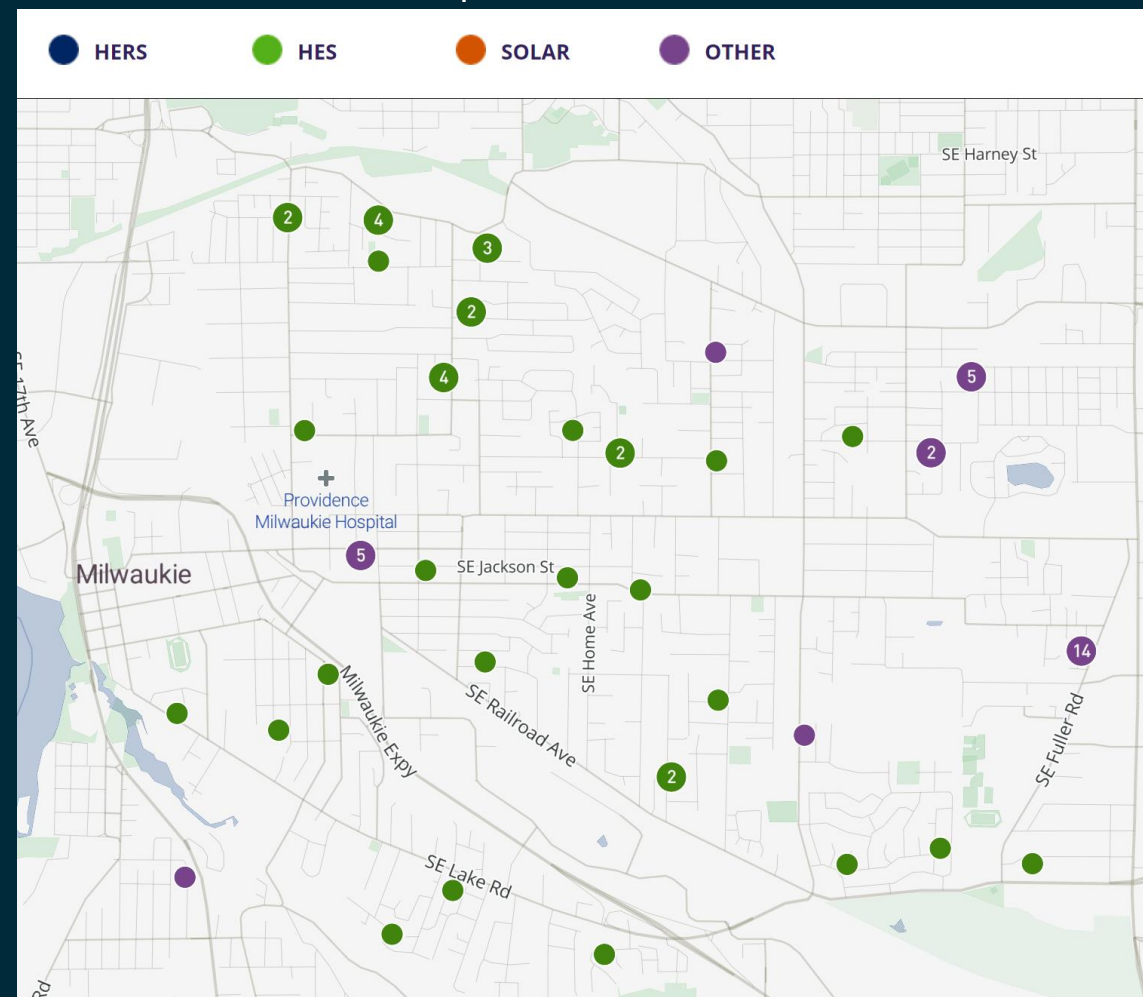
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Home Energy Score (HES)

- Program began on Oct 1
- 27 homes scored to-date
 - avg. score 4.7
- Staff have exceeded 10% compliance check requirement
 - More outreach/education needed
- Outreach and education to HES assessors, real estate professionals, homeowners
- Portland report on HES reflects program success so far, but more compliance needed overall

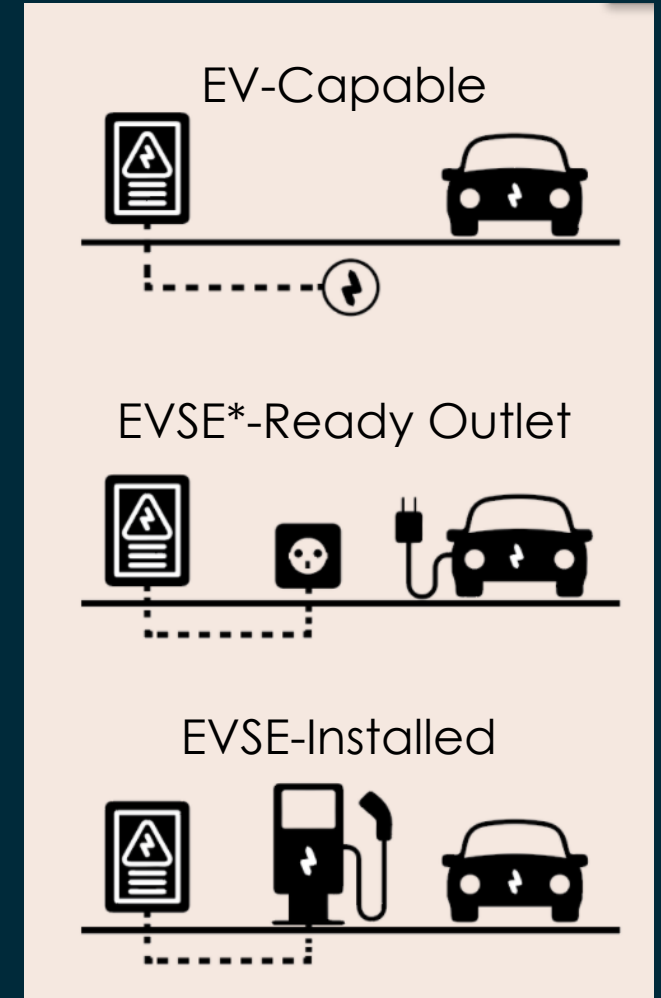
HES Reports in Milwaukie



Above: Milwaukie HES reports on Green Building Registry
www.greenbuildingregistry.com

Building Code and EV Ready Code

- EO 20-04 directs Building Code Division to reduce building emissions by 60% by 2030
 - Starts 2023
- 2021 base code and reach code under development
 - Zero Coalition advocating for smoother glidepath to 2030 goal
- Discussions on local amendment process to adopt reach code
- Uncertainty around EV ready code in building code or land use code
 - Could include in 2021 reach code
 - Legislation for state land use code
 - Local land use code



Above: Potential EV-ready code options
*Electric Vehicle Supply Equipment (EVSE)

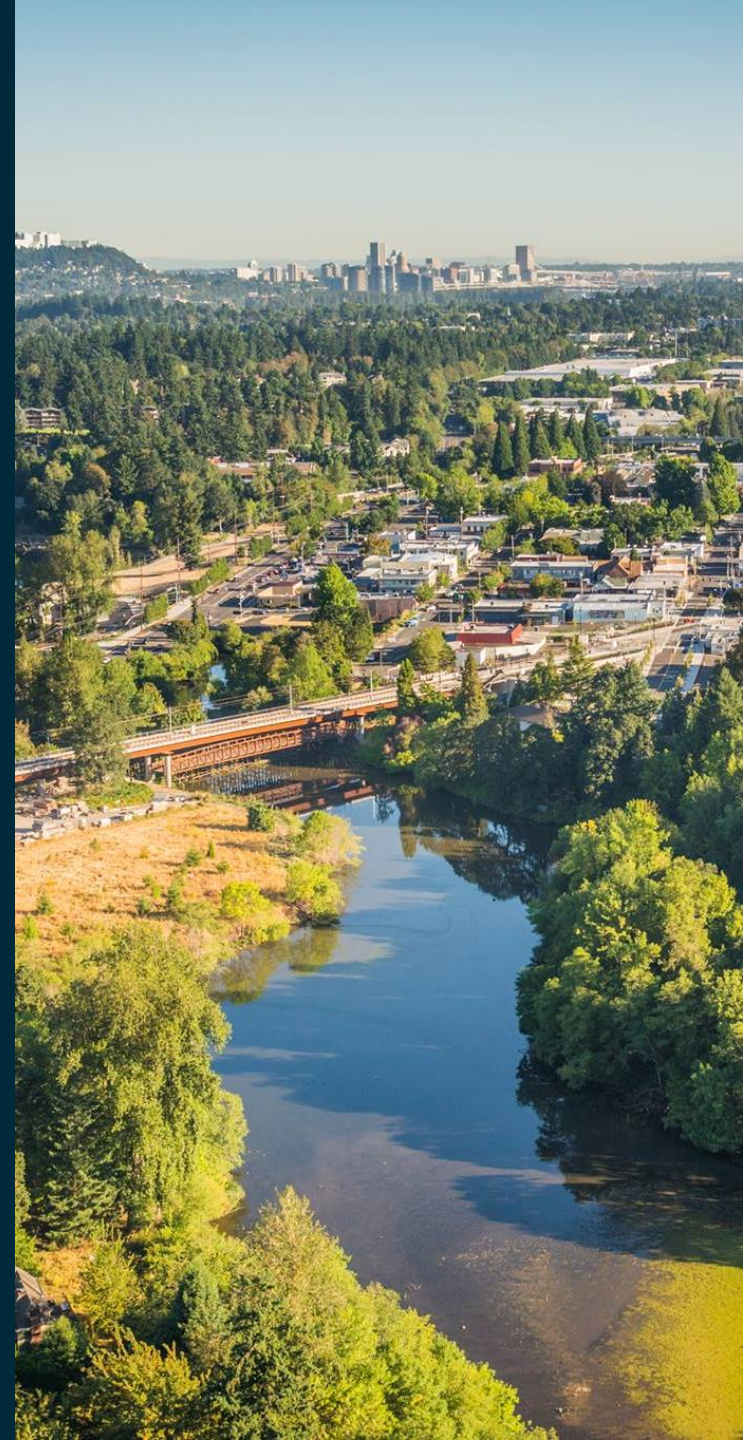
Canopy Goal Update

- 40% canopy cover by 2040
- Updated public tree code
- Comprehensive Plan Implementation
 - Private residential tree code
 - Engagement efforts have shown community support for trees
- Tree Inventory
- Engagement and outreach continues
 - Arbor Day 2020
 - Online resources
 - Friends of Trees planting events



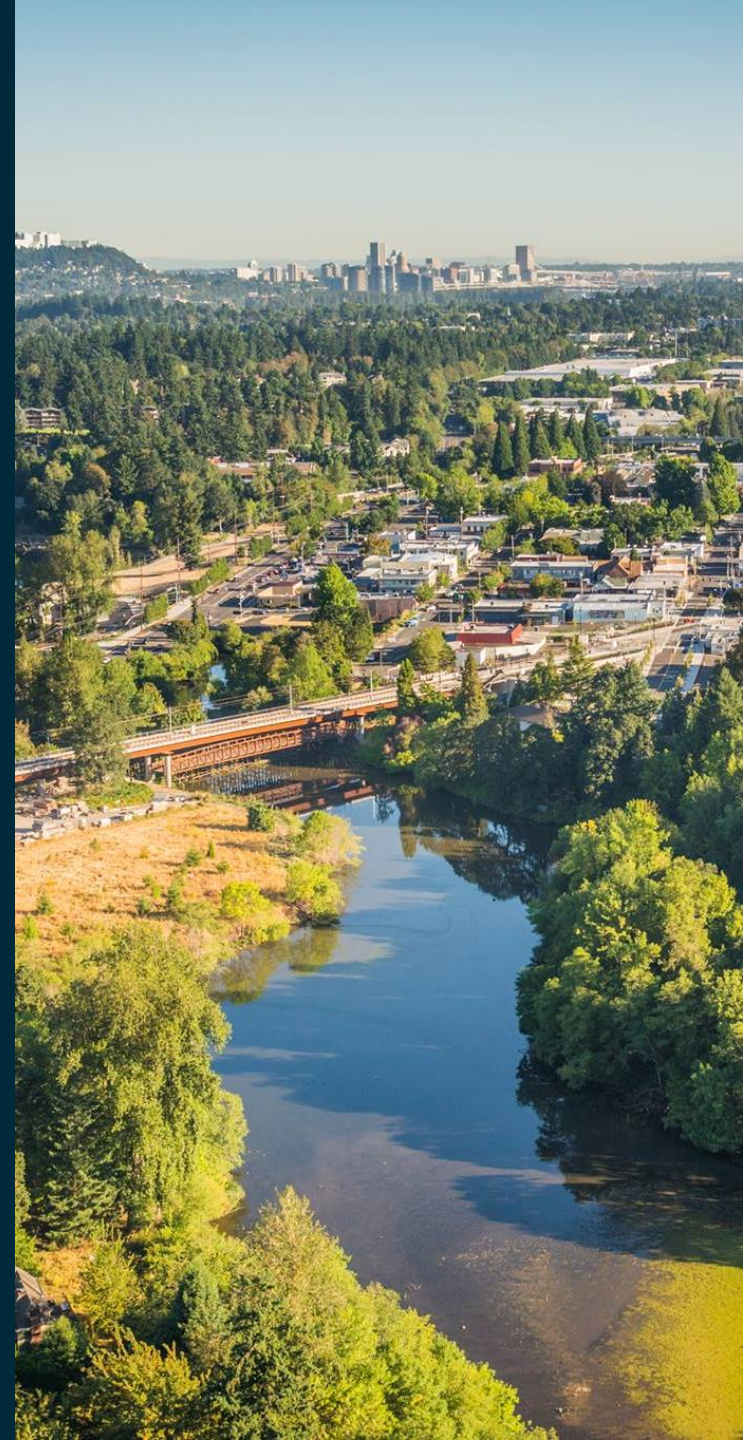
2019/2020 Accomplishments

- Building Energy and Efficiency
 - Strengthening utility partnerships and product exploration
 - Building code and residential efficiency promotion
- Vehicles and Fuels
 - Fleet electrification and on-site fuel transition
 - EV and active transportation advocacy and promotion
- Land Use and Transportation Planning
 - Comprehensive plan
- Materials use, purchasing and recovery
 - Stakeholder engagement and promotion
- Natural Resources
 - Urban Forest program and tree code
- Public Health and Preparedness
 - Community resiliency discussions



2021 Priorities

- GHG inventory and qualitative update
- 2021 Solar Goal – 2.2 MW by 2021
- Community Green Tariff
- Engagement with NW Natural
- Advocate for efficient building code / EV ready code
- Comprehensive Plan Implementation
- Internal outreach and engagement around energy
 - Strategic Energy Management
 - Energy management plan
- Community outreach and engagement
 - Community data reporting tool/dashboard
 - Climate Collaborative Challenge (PGE)
 - Solarize 2.0? (ETO)
 - Earth Day 2021
 - Arbor Day and Friends of Trees Planting Events





CITY OF MILWAUKIE

Questions?
Thank you!

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Milwaukie Home Energy Score Program Statistics

Staff Contact: Natalie Rogers, Climate Action and Sustainability Coordinatoir

Email: RogersN@milwaukieoregon.gov

Date of Data Collection: 12/7/2020

Data Collection and Report Generation from Green Building Registry

www.greenbuildingregistry.com

