- 1. 5:30 P.M. Agenda October 24, 2018
  - 1. Review and approve minutes from September 19
  - 2. Sustainability program updates
  - 3. Workshop: Data accessibility for building owners wishing to comply with the City of Portland Energy Benchmarking and Disclosure Ordinance
  - 4. Discuss proposed amendments to the Energy Benchmarking and Disclosure
  - Ordinance (public comment)
  - 5. Other business

Documents:

#### AGENDA 10 24 2018.PDF

2. Data Accessibility Workshop

Documents:

IMT\_BENCHMARKINGMAP\_CITYCOUNTYSTATE\_CURRENT.PDF IMT-PCC\_OVERVIEW\_OF\_UTILITY\_ENGAGEMENT\_ISSUES.PDF BENCHMARKING DISCUSSION 10 24 2018.PDF CMP INVITE TO S\_T.PDF

3. Discuss Proposed Amendments To The Energy Benchmarking Ordinance

Documents:

BENCHMARKING AMENDMENTS MEMO.PDF BENCHMARKING ORDINANCE RECOMMENDED AMENDMENTS (JLT REDLINE).PDF

### CITY OF PORTLAND, MAINE

Standing Committee on Sustainability and Transportation Councilor Spencer Thibodeau (D2), Chair Councilor Belinda Ray (D1) Councilor Brian Batson (D3)

> Agenda October 24, 2018 5:30 PM Council Chambers

- 1. Review and approve minutes from September 19
- 2. Sustainability Program updates
- 3. Workshop: Data accessibility for building owners wishing to comply with the City of Portland Energy Benchmarking and Disclosure Ordinance
- 4. Discuss Proposed Amendments to the Energy Benchmarking Ordinance The Committee may take public comment.
- 5. Other business



# OVERVIEW OF UTILITY ENGAGEMENT ISSUES

Kelly Crandall, Jayson Antonoff, and Alissa Burger Institute for Market Transformation

July 2017





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### Introduction

States and cities must work proactively with utilities to successfully implement effective benchmarking policies, as well as voluntary benchmarking programs such as the U.S. Department of Energy's Better Buildings Challenge. Successful benchmarking programs require that utilities provide wholebuilding energy use data to building owners in a streamlined and straightforward manner. In the absence of utility-provided energy data, complying with benchmarking policies can be arduous and time-consuming for building owners, and may fail to produce concrete benefits.

This paper outlines what an effective whole-building data access program looks like, and how to engage utilities on the key policy issues to create a system that benefits all parties. However, providing access to whole building data is just the beginning of the role that utilities can play in supporting, and benefiting from, benchmarking programs. Once appropriate data access provisions are in place to facilitate benchmarking, both utilities and local jurisdictions can take advantage of the information provided through the benchmarking policy or program to better target buildings and deploy energy efficiency investments. As city and state jurisdictions explore ways whole-building data can be analyzed, used, and applied, these programs are finding more and more opportunities to achieve even greater energy savings.

### Access to Building Energy Consumption Data

Developing a comprehensive energy efficiency program means thinking about how buildings operate holistically. Most benchmarking policies and programs require whole-building data—the total energy consumption for an entire building, which may include the sum of multiple tenants' energy usage to get a full understanding of building energy usage across a jurisdiction's portfolio.

Additionally, the vast majority of benchmarking policies leverage EPA ENERGY STAR's Portfolio Manager to track and store their data, which requires building owners to collect and input 12 months of historic energy consumption data for the entire building. Without a simple and convenient method for building owners to access whole-building data, benchmarking program participation rates suffer as the burden of gathering individual tenant approvals and manually entering data makes participation both time-consuming and challenging.

### Data Access Barriers

Although it seems logical for a building owner or manager to know how much energy is consumed in their building, this is often not the case. This information barrier is the result of several key factors, including:

- Separately metered tenants. Many building owners cannot easily retrieve energy information from their utilities for their entire building because each tenant has a separate meter to measure their individual unit's energy usage—a practice called "submetering." While there are many energy management and saving benefits with submetering, it creates a barrier to then aggregate all the information into a single snapshot for the entire building. Without an appropriate policy in place for providing whole-building data, a utility may require that the building owner collect signed consent forms from each individual tenant, which could amount to hundreds of forms for a multifamily building. This arduous process makes it less likely that a building owner will measure and track their building's total energy consumption, and limits their ability to evaluate energy efficiency opportunities which could benefit those tenants.
- Customer privacy and confidentiality. Utilities are typically cautious about providing customer data to third parties, meaning parties other than the customer paying the utility bill for that specific account. Utilities and regulators consider the owners of buildings to be third parties when their tenants pay directly for energy. This position may be derived from privacy regulations governing the utility or the utility's own interpretation of those regulations, as well as the fact that the utility has a business relationship with the customer, not the building owner. Without guidance from state legislation or a public utility commission, utilities may be uncomfortable (and thus unwilling) to provide energy data for fear of legal reprisal.

### Solutions for Improved Data Access

Policymakers should work with utilities to achieve two primary goals that improve access to whole-building data for benchmarking policies and programs.

- First, provide whole-building data directly to the building owner if a building meets an aggregation threshold. Utilities have information for all of the energy meters within a property. Utilities can aggregate this data for the entire building, or for similar areas within the building—such as common space loads or tenant loads and provide this information to a building owner or operator. When doing so, utilities who are providing wholebuilding data have generally adopted an "aggregation threshold"-the number of accounts that must be combined for them to provide data without the need for approval from individual tenants or bill payers. This preserves the confidentiality of individual tenants' information while providing the owner or operator with the energy data needed to benchmark using an industrystandard tool such as Portfolio Manager.
- Second, streamline the process for building owners to request and receive energy use data. Best practices include building an online portal where building owners can request whole-building data, as well as automatically uploading historic consumption data to Portfolio Manager. Utilities are increasingly adopting tools based on U.S. Environmental Protection Agency (EPA) <u>Web Services</u> to upload building energy consumption data directly into a user's Portfolio Manager account. This service reduces benchmarking costs for building owners, and minimizes the potential for manual data input errors. For utilities, this can be an opportunity to provide enhanced, ongoing customer support, as well as to streamline their internal processes.

Table 1 provides a list of utilities that offer whole-building benchmarking data, with information as to their aggregation thresholds and whether they provide automatic uploads to Portfolio Manager.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> The first digit represents the minimum number of accounts, tenants, or meters in a building that must be aggregated. The second digit is the maximum percentage of whole-building energy usage that can be attributed to a single account, tenant, or meter (jurisdictions rarely require the latter). Statisticians call this an (n, k) standard.

Utility (State)	Aggregation Threshold	Automatic Upload
Atlantic City Energy (NJ)	5/	Yes
Austin Energy (TX)	4/80	No
Avista (ID, OR, WA)		Yes
Baltimore Gas & Electric (MD)	5/	Yes
California Investor-Owned Utilities	3/	Yes
Clark Public Utilities (WA)	2/	Yes
Commonwealth Edison (IL)	4/	Yes
Consolidated Edison (NY)	2/	No
Delmarva Power (DE, MD)	5/	Yes
Enwave Seattle (WA)	2/	Yes
Eversource (MA)	4/50	No
National Grid (MA, NY)	4/50	No
Pacific Power (CA, OR, WA)	5/	Yes
PECO (PA)	5/	Yes
Peoples Gas (IL)	5/	No
Pepco (DC, MD)	5/	Yes
PSEG Long Island (NY)	2/	No
Puget Sound Energy (WA)	5/	Yes
Rocky Mountain Power (ID, UT, WY)	5/	Yes
Sacramento Municipal Utility District (CA)	2/	Yes
Seattle City Light (WA)	5/	Yes
Tacoma Public Utilities (WA)		Yes
Veolia Energy (PA)		Yes
Washington Gas (DC)	5/	No
Xcel (CO, MI, MN, ND, NM, SD, TX, WI)	4/50	Yes

TABLE 1. Electric and gas utilities that provide services to building owners for aggregated data access and/or automated energy data upload into Portfolio Manager.

### Additional Data Access Challenges

Even where utilities are excited about the opportunities to engage communities and customers by providing wholebuilding data, there are a number of additional challenges that they and building owners may face, including the following:

- Legal ambiguity on data privacy. The release of customer energy usage information by utilities is governed by state laws regarding personal information, regulatory rulings regarding data privacy and aggregation, and legal interpretations by individual utilities. State laws that cover personal information may be ambiguous as to whether they also cover energy usage data, and rules approved by state energy regulators may have been implemented to address individuals' energy usage as collected by advanced metering, a different use case<sup>2</sup> from that of whole-building data. Generally, policymakers and utilities may want to consider legal questions (whether state laws or regulations cover the type of data being requested) as well as practical ones (the actual risks associated with data disclosure and statistical tools available to mitigate those risks). The U.S. Department of Energy's (DOE) Better Buildings Solution Center website provides a Guide to Data Access and Utility Customer Confidentiality that can help parse these complex issues.
- Confusion about use cases. There is significant potential for confusion among utilities and regulators about the difference between providing whole-building data to building owners and efforts to compel utilities to release "smart meter" interval data from individual customers. Many states are considering or have implemented strong privacy protections against the release of interval data, which may be collected from individual meters on a near-real-time basis (such as every 15 minutes). Though these concerns about the potential transfer of personally identifiable information should not apply to whole-building data provided to a building owner on a monthly basis, out of an abundance of caution many utilities treat all use cases

<sup>&</sup>lt;sup>2</sup> Use cases are meant to describe the different ways utility customer data can be accessed and by whom. In addition to the whole-building data access use case, there is a geographically-defined use case, research access, energy service provider access, and monthly consumption data for solar company inquires. Increasingly, utilities are also considering use cases related to "grid" data, such as the benefits of adding distributed energy resources to different geographic areas of the distribution grid.

in a similar way, and do not allow the release of data derived from customer information to any party without signed consent from the bill payer. Policymakers should anticipate that utilities and regulators may not understand the difference between these distinct use cases. This issue may become even more complicated as utilities are called on to release distribution grid data or conduct big data analytics.<sup>3</sup>

Technical infrastructure. Unfortunately, many utilities are still working with out-of-date IT infrastructure, including older customer information systems (CISs) and incomplete geospatial mapping. Similarly, utilities may not have taken steps to integrate their CIS for billing with any customer relationship management (CRM) systems they use to provide energy efficiency services. Providing wholebuilding data and automated uploads often requires modifications to these systems, as they are not typically set up to efficiently aggregate meters—in other words, the utility may not know, or have any means of tracking, which meters or customer accounts correspond to which physical buildings. A guide produced by DOE's Energy Data Accelerator describes the ways that utilities have approached meter-mapping.

The state of existing infrastructure at each utility plays a large role in determining implementation costs for a data access program. However, the IT upgrades necessary to use smart metering and other grid modernization tools that utilities are considering may provide opportunities to build in meter aggregation and automated data transfer.

 Cost recovery. Utilities will incur costs to develop and deploy data access services. This can include staff time to engage with regulators, implement IT upgrades (which may be conducted in-house or through consultants), develop and train internal staff on protocols, and create resources for building owners and other users. While such costs may be relatively small for a large utility spanning multiple states, the utility may have trouble justifying the prudence

<sup>&</sup>lt;sup>3</sup> For example, utilities in New York and California are considering options to provide publicly available data on the condition of their distribution infrastructure and its ability to incorporate customer-sited renewables. Additionally, numerous utilities are working with third parties to disaggregate smart meter data to analyze customer usage patterns more precisely.

of those costs in rate case proceedings.<sup>4</sup> Furthermore, difficulties can arise when local laws require energy benchmarking, as investor-owned utilities may not be able to claim credit for energy savings due to measures that are required by law. Regulators may be tempted to increase utilities' energy efficiency goals or reduce funding that they might have otherwise provided for rebates. This reduces the costs that utilities can recover and disincentivizes them from supporting local benchmarking policies. Policymakers may need to engage with utilities, regulators, and consumer advocates to support appropriate cost recovery.

- Lack of an internal "champion." While investments to allow a utility to efficiently provide whole building energy use data should benefit the utility's conservation efforts, associated costs are sometimes attributed to customer billing service departments, further complicating efforts to gain internal utility buy-in. Developing a strong data access program requires at least one advocate at the utility who recognizes its value and can connect customer support, energy efficiency, and IT services, while ensuring that the data access program is conducted within state law and regulatory requirements. Otherwise, utilities may face multiple competing priorities that place whole-building data at the bottom of the list. Local governments may experience challenges in finding this internal advocate, and their key accounts managers may not know who to approach either. State and federal agencies may be able to recommend contacts at the utility who could carry this banner.
- Scope of proceedings. Data access issues may arise in multiple regulatory proceedings. For example, benchmarking programs may be discussed as part of a utility's energy efficiency program; IT costs may come up in a general rate case where a utility seeks to recover costs; and customer data privacy may arise as part of an individual's utility's advanced metering application, or a rulemaking that covers multiple utilities. Policymakers should work with utilities to ensure that benchmarking data is addressed in the right time and place.

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<sup>&</sup>lt;sup>4</sup> To the extent that utilities utilize cloud services to offer benchmarking data transfer, the National Association of Regulatory Utility Commissioners (NARUC) recently passed a <u>resolution recommending that commissions</u> <u>authorize more favorable cost recovery for these systems</u>.

User experience. The complexity of the process that building owners must go through when requesting whole building data from utilities can have an enormous impact on their willingness and ability to get this data. Utilities can make this process less onerous for building owners by establishing simple requirements for the documentiton that an individual must submit to authenticate that they are authorized to request data for a building, and by streamlining the process whereby building owners and utilities work together to develop and verify the complete listing of meters feeding a building. Since many building owners may have geographically dispersed properties served by a number of different utilities, maximizing consistency across utilities for the forms that must be submitted, and the process that building owners must follow to request whole building data, can also facilitate the process.

Utilities are increasingly moving toward web-based tools to allow building owners to make data requests and automatically upload data to Portfolio Manager. However, user experience may not be a primary concern in developing these tools—which may require building owners to set up new accounts, click through multiple pages or even go to third-party sites to complete their request. States such as California are just beginning to explore how utility website design can discourage customers from taking actions they would otherwise have chosen (such as signing up for demand response programs).

 Limitations on use. Where utilities do establish practices that allow for building owners to request aggregated whole-building data, some utilities have implemented terms and conditions that require the building owner to commit not to use the data in certain ways in the future. Particularly where a utility adopts a higher aggregation threshold (such as 4/50), it may not be necessary to also include restrictive terms and conditions.

### Engaging Utilities and Regulators

Policymakers must engage with utilities on data access and other building performance issues early on in the development of any kind of benchmarking program. Strategies for interacting with utilities will vary, depending on the type of utility (investor-owned utility or municipal utility), existing utility energy efficiency programs, and utility and public utility commission attitudes toward creating data access programs. In some cases, utilities have agreed to voluntarily provide aggregated data access or automated benchmarking information uploading (such as in Boston, the District of Columbia, and Austin, Texas), while in other cases, regulators or state officials helped influence the outcomes (such as in New York City, Atlanta, Minneapolis, and the state of California). DOE's Energy Data Accelerator produced <u>a guide to</u> <u>stakeholder engagement</u> that provides examples of successful data access work between cities and utilities.

Policymakers should consider the following strategies before initiating engagement with utilities:

- Develop a clear "ask." Clearly communicate the benefits of a benchmarking policy or program to customers, the utility's role in that policy or program, and the legal and practical steps that may be required to make that happen.
- Secure whole-building data access first, then automated upload. The primary ask from policymakers to utilities should be the creation of a whole-building data access service that does not require building owners to seek consent from each tenant. After that, or in tandem with that ask, policymakers should pursue automated uploading of data. The ideal solution includes a combination of both services together, however, the most important element is for utilities to provide aggregated data.
- Review the community's franchise agreement. Where a community is served by an investor-owned utility, there may be provisions in the electric franchise agreement regarding a utility's obligation to provide data or support local programs. These provisions are rare, but it is useful to be informed as to the city's rights prior to engaging with the utility.
- Create a stakeholder coalition. Cities and states can create or support coalitions that represent diverse stakeholders with an interest in data access programs (i.e., commercial real estate, large customers with multiple properties, regional energy efficiency organizations, consumer advocates, multifamily housing stakeholders, affordable housing representatives, and energy service providers). Policymakers do not need to lead these

coalitions, but could work closely with NGO partners instead.

- Leverage other utility leaders in discussions. Utilities may respond better to data access issues if they are engaged by their peers at other utilities that have established aggregated access or automated data uploading. Connecting utilities also enhances the likelihood that they will adopt consistent aggregation standards, which provide benefits for data quality. The <u>DOE Energy</u> <u>Data Accelerator Toolkit</u> provides several case studies reflecting ways that communities and utilities have collaborated to offer building benchmarking data.
- Consider the role of regulators. Policymakers and advocates may need to engage with state utility regulators to ensure data access. Because regulators have traditionally been concerned with safety, reliability, and cost, significant education may be required to communicate the benefits of data and the role of local governments in providing energyrelated programs. The National Association of Regulatory Utility Commissioners (NARUC) adopted a 2011 resolution that affirmed the need for better access to whole-building energy consumption data to enable energy-efficient operations and encouraged state public utility commissions to support benchmarking and data access programs. In 2013, the National Association of State Utility Consumer Advocates (NASUCA) passed a similar resolution in the context of the multifamily sector.

If state regulators favor data access, they may be able to help influence the position of utilities in informal ways. (Legal advice is recommended to determine whether meetings with regulators may invoke exparte concerns about communicating with decision makers when proceedings are open or imminent.) Data access can also be brought as a formal matter in front of regulatory commissions. Some utilities may ask for regulator involvement to provide guidance on data privacy issues or ensure they can recover costs; policymakers should support the notion that utilities be reasonably compensated in order to remove this potential barrier. However, the state regulatory process is typically slow and deliberative, and may not be the best vehicle to advance data access issues. It may also prove to be a challenging venue to conduct detailed discussions about data needs and IT requirements. If engaging in regulatory proceedings, outreach to other stakeholders-including consumer

advocates, low-income advocates, energy efficiency organizations, and large customers—is critical.

- Seek assistance from other agencies that grapple with privacy issues. Utilities are not the only entities that deal with customer privacy and confidentiality—so do state and local departments of health, revenue, and education. These agencies may have statisticians who could advise utilities or regulators on data practices, if needed.
- Evaluate the potential for state legislation. To avoid any ambiguity that can lead to lengthy regulatory proceedings, state policymakers can enact legislation that explicitly defines the requirements and processes for utilities to share whole-building data with building owners. In 2014, the District of Columbia was the first jurisdiction to legislate a whole-building aggregation threshold for utility and that utilities offer automatic upload to Portfolio Manager.<sup>5</sup> The State of California's Assembly Bill No. 802 (AB 802), enacted in 2015, provides another example of legislation that lays out each utility's responsibilities, including the acceptable aggregation thresholds. An advantage of a legislative approach is that it can set common standards for multiple utilities to ensure that data is being provided consistently.

### Messaging the Benefits of Data Access to Utilities

Utilities can use the information gained by setting up wholebuilding data access programs to bring a more informed perspective to the markets they serve. Unfortunately, many utilities remain unaware of the ways that benchmarking can support their operations. They may benefit from education provided by communities implementing benchmarking, as well as stakeholders who use it, like building owners.

Utilities can obtain the following benefits from supporting benchmarking policies and programs through whole-building data access:

 Providing whole-building data enhances existing utility energy efficiency programs. Benchmarking helps building owners understand how their building consumes energy, and identify opportunities for improvement. Using benchmarking as a means to raise awareness of energy savings opportunities, and then

<sup>5</sup> Sustainable DC Omnibus Amendment Act of 2014.

directing building owners to the local utility incentive programs that can help them take the steps to realize those savings, can be one of the most effective ways to drive energy efficiency improvements. A <u>2012 report</u> <u>commissioned by the California Public Utilities</u> <u>Commission</u> found that benchmarking was highly correlated with building energy improvements and customer participation in utility incentive programs.

In cities such as Seattle, utilities have provided funding support to staff the city's benchmarking help center. In return, the help center serves as an important lead generator for utility energy efficiency programs. Increasing customer enrollment in these programs helps utilities meet and exceed annual energy savings goals established by regulators.

- Benchmarking information helps in developing new energy efficiency programs. Because meters and accounts are not typically mapped to buildings' physical addresses, utilities often do not have visibility into overall building loads and the efficiency of the buildings they serve. By supporting benchmarking, utilities gain a building-centric view of their loads. This allows them to explore new types of energy efficiency programs that focus on whole-building efforts, instead of one-off measures. Additionally, enhancing their geographic awareness of their customer base creates the opportunity for entirely new demand-side management and demand response programs that target services to neighborhoods or regions. Utilities may be able to defer capital investments, or reduce operations and maintenance costs, by promoting energy efficiency in areas of their distribution grids that would uniquely benefit.
- Benchmarking helps utilities validate savings from their energy efficiency programs. Since utility demand-side management measures are more often implemented at the building level rather than at the meter level, program outcomes are better represented in the data for whole buildings. Organizing that data by building will allow utilities to more accurately assess the effectiveness of their programs over time, particularly in states like California which are beginning to migrate from "deemed" savings to "actual" savings to validate energy efficiency programs.

Benchmarking can improve customer service. By providing improved data access programs, utilities can help customers save time and money, improve their customer service rates, and better engage their customers. Utilities can also become trusted advisors, by providing staffing and resources to deliver benchmarking training to building owners. When a building owner is contacting a help line or attending a training session to find out more about how to benchmark their building and how to interpret results, utilities can encourage them to consider the next steps in improving the energy performance of their buildings. These opportunities can be used to educate building owners about complementary utility incentive programs.

In <u>Salt Lake City</u>, the Building Owners and Managers Association (BOMA), CBRE, and other major real estate stakeholders advocated for benchmarking, voicing their economic interest in understanding the energy usage of their buildings. In response, Rocky Mountain Power created a data access portal for its customers in 2016, and Questar is working toward a data access solution that will be operational by 2017.

#### Alignment with Other Utility Programs

Utilities can play other roles in supporting local energy efficiency initiatives beyond providing access to data. Policymakers may want to frame the ask for whole-building data as part of a broader conversation about how cities and utilities can collaborate to provide benefits to all parties.

Utilities and policymakers may want to consider the following opportunities:

- Leverage local relationships to enhance utility programs. Local governments may have direct lines to the community stakeholders who use—or choose not to use—utilities' energy efficiency programs, and may have information about how to improve uptake by reducing unexpected or unusual barriers, or promoting participation.
- Align utility energy efficiency programs and city-led energy initiatives. Utilities can act as an important source of incentives to amplify city-led energy efficiency programs. A <u>2014 U.S. Energy Information</u>

Administration report found that utilities spend more than \$350 million per year on energy efficiency programs, far more than the resources that cities are able to provide. Some cities are exploring requirements beyond benchmarking and transparency, such as energy audits, retrocommissioning, and even mandatory energy performance upgrades. To establish a tighter connection between utility and city-led efforts, policymakers may want to encourage utilities to require that building owners submit benchmarking results as a prerequisite when requesting utility incentives, to verify that building owners have already taken the necessary initial steps to understand how their building is actually performing.

Several cities have enacted audit requirements for buildings specifically because the local utility already had an existing voluntary program to provide these to building owners upon request. For example, the City of Atlanta's requirements for energy audits include the provision that "no-cost/reduced cost energy audits provided for commercial customers [of the utility] that approximate the standard required under this definition of an energy audit shall qualify for compliance...." This provision was included after extensive discussions with the local utility to confirm that it would have the capacity to complete enough free audits to meet the anticipated annual demand generated by the city's ordinance. Municipally owned utilities, in particular, have the ability to align customer rebates and incentives with such measures, furthering the city's policy goals.

 Work with state and local governments by providing support for energy code compliance initiatives. In Caifornia, San Diego Gas and Electric uses ratepayer funds through its local government partnership program to provide an Energy Code Coach to the cities of Chula Vista and San Diego. This funding allows an energy code expert to work out of each jurisdiction's building department one to two days per week to provide assistance to permit applicants in meeting California's energy code requirements. Additionally, National Grid, one of the largest investorowned utility companies in the world, funds <u>energy</u> <u>code training and technical assistance</u> to code officials, contractors, design professionals, and other building professionals on both commercial and residential energy code requirements in Rhode Island. The utility has even funded a statewide <u>energy code compliance</u> study.

Identify regulatory challenges early and act • cooperatively to support customers. As was mentioned earlier, regulated utilities may be challenged to provide incentives for particular energy efficiency measures if they are already required by state or local law. However, utilities, states, and cities can work together to ensure that building owners still receive capital for energy efficiency projects, even where the regulatory environment changes. By collaborating early with Consolidated Edison, the New York State Energy Research and Development Authority (NYSERDA) developed a "retrocommissioning-plus" program for New York City building owners, who were no longer eligible to receive utility incentives to participate in standard retrocommissioning programs.

### Conclusion

Although an increasing number of utilities are offering wholebuilding data for building owners, some utilities are still wary of adopting these business practices. While concerns about data privacy and implementation costs are legitimate, jurisdictions from around the country have found solutions that work for regulators, building owners, tenants, and state and local jurisdictions. Movement on this issue in recent years has made it abundantly clear that building owners and local jurisdictions across the nation value, and in many cases require, better access to the data, in order to be able to effectively achieve and track progress toward attaining their building operation and energy efficiency goals. Given the increasing awareness of the value of this utility data, and the rapidly expanding footprint of benchmarking policies and programs, this is the opportune time to ensure that appropriate guidelines, standards, and processes for access to utility data are being established.

### Appendix A: External Efforts

Policymakers should be aware of the following efforts to advance data access services that can potentially support or augment local efforts:

- <u>U.S. Department of Energy Data Accelerator</u>. The U.S. Department of Energy's Better Building Energy Data Accelerator (BBEDA) was a two-year program that established partnerships between cities and utilities to improve energy efficiency by making energy data more accessible to building owners. The Energy Data Accelerator <u>Toolkit</u>, a collection of resources drawn from BBEDA partners, enables communities to benefit from the work that has been done and fosters the replication of these best practices throughout the country.
- <u>Data and Transparency Alliance</u> is a collaborative effort led by the commercial real estate industry and green building organizations to provide building operators with energy consumption data to advance energy-efficiency and energy cost savings in buildings.
  DATA is organized by the Institute for Market Transformation, the Building Owners and Managers Association (BOMA) International, the Real Estate Roundtable, and the U.S. Green Building Council.
- ACEEE Best Practices for Working with Utilities to Improve Access to Energy Usage Data. This toolkit provides best practices and highlights case studies for how utilities, policymakers, building managers, and community stakeholders can improve access to energy usage data while working towards the goal of improving efficiency in their communities.
- <u>HUD Exchange</u>. Benchmarking energy consumption can be particularly challenging for owners of multifamily buildings with utility accounts paid for by tenants, in part because utility providers each require owners to follow a different procedure to access tenant utility consumption data. This database from the U.S. Departmetn of Housing and Urban Development (HUD) is meant to help solve for that challenge by creating a single repository of the requirements of benchmarking programs and the procedures utility providers require owners to follow to access the utility data of their tenants.

### Appendix B: Additional Resources

The following resources are also available for policymakers:

- <u>Benchmarking Fact Sheet.</u> This fact sheet summarizes benefits of benchmarking for utilities and provides an overview of relevant studies and examples.
- <u>Utilities' Guide to Data Access for Building</u> <u>Benchmarking</u>. This report provides an introduction to data accessibility issues and an assessment of the challenges and opportunities for utilities, regulators, and real estate practitioners in implementing data accessibility practices. It also presents case studies of utilities that have implemented such practices.
- <u>Guide to Data Access and Utility Customer</u> <u>Confidentiality</u>. This guide describes the factors that differentiate whole-building energy usage data requests from other types of data requests, and highlights best practices for utilities to provide energy consumption information to building owners while respecting the confidentiality of utility customers.
- How Utilities Can Give Building Owners the Information Needed for Energy Efficiency while Protecting Customer Privacy. Many utilities maintain unnecessarily restrictive policies for building owners to get basic energy usage information needed to operate their buildings efficiently. This article provides utilities, utility regulators, and boards of publicly owned utilities suggestions on how to implement reasonable policies to protect customer privacy while delivering aggregated building usage information to the majority of building owners who need it.
- <u>Best Practices for Providing Whole-Building Energy</u> <u>Data: A Guide for Utilities</u>. This guide summarizes the key components of developing a whole-building data access solution and provides recommendations to identify and overcome process-oriented barriers.
- <u>Commercial Building Tenant Energy Usage Data</u> <u>Aggregation and Privacy</u>. This study establishes a quantitative approach for providing practitioners, such as utilities, public utility commissions, and other policymakers with a defensible aggregation threshold selection method, which will protect tenant privacy

while ensuring that data on the greatest number of buildings can be reported.

- Public Sector Building Energy Benchmarking: Utility Data Access Options and Opportunities. This report surveys the current landscape of public sector building energy benchmarking policies in the Northeast and Mid-Atlantic region. It examines the tools used to access utility data and how municipalities across the region are using them to track usage as part of building energy benchmarking mandates.
- <u>Stakeholder Engagement Strategy Guide</u>. This guide is intended to help utilities and local governments design a productive stakeholder engagement process when developing approaches to improve energy data access.
- <u>HUD Letter of Support</u>. This open letter to utility companies was issued in November 2014 by U.S. Department of Housing and Urban Development Secretary Julián Castro, and encouraged them to work with building owners to facilitate access to wholebuilding utility usage data.
- <u>NARUC Resolution on Access to Whole-Building</u> <u>Energy Data and Automated Benchmarking</u>. This July 2011 resolution by the National Association of Regulatory Utility Commissioners (NARUC) encourages State public utility commissions seeking to capture costeffective energy savings from commercial buildings to consider a comprehensive benchmarking policy that takes all reasonable measures to facilitate convenient, electronic access to utility energy usage data for building owners.
- <u>NASUCA Resolution Supporting Automated</u> <u>Benchmarking of Multifamily Buildings for Energy</u> <u>Efficiency Purposes</u>. In 2013 the National Association of State Utility Consumer Advocates (NASUCA) adopted this resolution supporting access by building owners and managers to whole-building energy consumption data to support energy-efficient building operations.
- <u>Scale, Speed, and Persistence in an Analytics Age of</u> <u>Efficiency: How Deep Data Meets Big Savings to</u> <u>Deliver Comprehensive Efficiency</u>. This article in the Electricity Journal describes how data analytics are playing an increasingly strategic and essential role in

how we save energy—ushering in "The Analytics Age of Efficiency."

### Appendix C: Definitions

Benchmarking: In the context of buildings, benchmarking is the act of measuring the energy performance (or water consumption) of a building so that its energy performance can be compared over time, to a norm, or to a group of peers.

ENERGY STAR Portfolio Manager: Interactive energy management tool that allows a user to track energy and water consumption for a building. After entering a building's total energy usage for 12 consecutive months, the tool generates the building's energy intensity. Many types of facilities can also receive a score on a scale of 1 to 100 that rates the energy performance of the building compared to similar buildings nationwide.

Portfolio Manager Data Exchange: A free web service designed so third-party energy service companies, such as utilities, can securely provide energy and building data from their systems to Portfolio Manager. Portfolio Manager Data Exchange was previously known as Automated Benchmarking System (ABS).

Whole-building data: Total energy consumption data for an entire building obtained by summing up the energy usage data measured by tenant meters.

### Acknowledgements

This report was prepared for the Pacific Coast Collaborative by Kelly Crandall, Jayson Antonoff, and Alissa Burger of the Institute for Market Transformation.

The information, data, or work presented herein was funded in part by the Office of Energy Efficiency and Renewable Energy (EERE), U.S. Department of Energy, under Award Number DE-EE0006890.

### About the Institute for Market Transformation (IMT)

The Institute for Market Transformation (IMT) is a national nonprofit organization laser focused on increasing energy efficiency in buildings to save money, drive economic growth, reduce harmful pollution, and tackle climate change. IMT provides hands-on expertise to building owners, tenants, governments, and other stakeholders to ignite greater investment energy-efficiency buildings. Its work includes technical and market research, policy and program development and deployment, and promotion of best practices and knowledge exchange. IMT's efforts lead to important new policy outcomes, widespread changes in practice, and ultimately, lasting market shifts toward greater energy efficiency, with substantial benefits for the economy and the environment. For more information, visit imt.org and follow us on Twitter at @IMT\_speaks.

### About the Pacific Coast Collaborative

The Pacific Coast Collaborative (PCC) was launched in 2008 to set a cooperative direction in key policy areas of mutual interest among North America's West Coast jurisdictions. In 2013, the Governors of California, Oregon, and Washington and the Premier of British Columbia announced the Pacific Coast Action Plan on Climate and Energy as an initiative of the PCC, outlining a set of shared goals for reducing carbon emissions and building a clean energy economy on the West Coast. With a population of 54 million people and an economy that is the 5th largest in the world, the West Coast jurisdictions that compose the PCC are demonstrating that transitioning to a low-carbon economy can create jobs and support robust economic growth. For more information, visit www.pacificcoastcollaborative.org.

### Disclaimer

The information, data, or work presented herein was produced in collaboration with the Pacific Coast Collaborative. The views and opinions of authors expressed herein do not necessarily state or reflect the Pacific Coast Collaborative's endorsement of specific policy and programs.

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Executive Department Jon P. Jennings, City Manager

To: Councilor Thibodeau and Members of the Sustainability and Transportation Committee

From: Troy Moon, Sustainability Coordinator

Re: Energy Benchmarking and Disclosure Discussion

Date: October 19, 2018

During the committee meeting held on September 19, 2018 your committee reviewed a proposed amendment to the City's Energy Benchmarking and Disclosure Ordinance. As currently written, the ordinance requires the owners of all buildings with 20,000 square feet or more of floor space to document the amount of energy and water they use in each of their buildings and report it to the City in December, 2018. As described in the back up memo for that meeting, property owners have found it to be difficult to gather this information, especially for electricity.. In response to this concern, staff recommended that the reporting deadline be postponed and aligned with the deadline established for the City to disclose this information on our website. As written, the disclosure deadline is not firmly established. Instead, it set the date for one year after the Sustainability Office certifies that energy data is available to property owners in a convenient electronic format. As the committee members discussed the proposed amendment they felt they needed information from Central Maine Power about how the existing data platform works and wanted the opportunity to discuss with company representatives how property owners could receive information about the amount of electricity used in their buildings in a more straightforward and convenient manner. In response to this request, Councilor Thibodeau and Mayor Strimling drafted a letter to President Herling requesting that he or representatives from the company attend the meeting scheduled for October 24. Mayor Strimling also invited Maine Public Advocate, Barry Hobbins, to attend the meeting while staff reached out to representatives from Efficiency Maine.

As back up material for this meeting I have included the letter to CMP, the text of the proposed ordinance amendment, and the back up memo describing staff's rationale for proposing the changes.

An effective energy benchmarking and disclosure ordinance serves as a foundation for efforts to achieve widespread energy efficiency in the building sector. The information derived helps building owners make decisions about energy investments, helps prospective tenants make informed decisions before leasing property, and helps municipalities and others target outreach about efficiency programs to property owners who need it the most. Right now twenty five cities across the country have benchmarking and disclosure ordinances that affect private property. These include Boston, Cambridge, Seattle, Chicago, Austin, and South Portland. These programs have had a noticeable impact on greenhouse gas emissions. According to the New York City Energy and Water Use Report in 2017,

Between 2010 and 2015, regularly benchmarked buildings cut their energy use by more than 10 percent and their total greenhouse gas emissions by almost 14 percent

The City of Boston, recognized by the American Council for an Energy Efficient Economy (ACEEE) as the most energy efficient city in the US has also had great success with energy benchmarking. Most of the cities leading the way on energy efficiency have adopted benchmarking ordinances.

In order to support these efforts, the energy utilities in these cities have partnered with building owners and municipal governments to streamline access to whole building data through the creation of easy to use web portals and by aggregating all of the accounts in a building in order to provide usage for the building as a whole. Even utilities in regions without benchmarking ordinances have adopted this standard to support the energy efficiency efforts of their customers. A list of the utilities that currently support web portals and aggregation supplements this memo.

Staff hopes the discussion between the Committee and other stakeholders results in a collaborative effort that leads to the development of a web portal that can provide building owners with:

- At least 18 months of electric usage data for each building
- Calendarization of data so building owners receive data based on month to month periods, not meter read dates.
- Aggregation of electricity usage from all meters in buildings with multiple tenants so the property owner has access to whole building data
- Data downloads in XLS format so it can be used in Excel spreadsheets

This would provide the basic information that a building owner would need to comply with the requirements of the city's benchmarking ordinance. Some utilities have developed portals that can provide additional data including information about demand charges, more than 18 months worth of data, and a process to upload data directly to the EPA's Portfolio Manager platform.

Staff is prepared to work with any stakeholder who can help us advance this work. The first two bullets outlined above represent technical or coding challenges. Other utilities or partners with technical expertise may be able to assist with this work. The third bullet will require an examination of privacy policies at the corporate and regulatory level. Other jurisdictions have established aggregation thresholds that allow utilities to report whole building data while protecting the privacy of individual account holders. Policies from other utilities may serve as models us. Stakeholders such as the Office of the Public Advocate and Efficiency Maine may also have insight that will help establish a workable policy. Staff from the Institute for Market Transformation (IMT.org) have assisted many cities and utilities with implementing benchmarking ordinances and have offered support and technical assistance to us and our stakeholders as we move forward.

I look forward to a productive discussion during our meeting which I hope will lead to a fruitful collaboration with all of our partners and stakeholders.



#### Office of the Mayor, Ethan K. Strimling

Douglas Hertling, President Central Maine Power Company 83 Edison Drive Augusta, ME 04336

September 25, 2018

Dear Mr. Hertling,

This letter is to request that you attend the City of Portland's Sustainability and Transportation Committee meeting on Oct 24, 2018 to discuss how CMP can assist the City's efforts to benchmark the energy use of all medium and large sized buildings in the city. The meeting is at 5:30 PM in City Council Chambers.

**Background:** In November 2016, the City of Portland established an energy benchmarking and disclosure ordinance that requires the owners of all buildings in the city with 20,000 square feet or more of floor space to calculate the amount of energy and water used in their buildings each year and to report this information to the City's Sustainability Office. By doing so, property owners become acquainted with the energy usage of their buildings and establish a baseline by which they can gauge the performance of their buildings over time. This information can guide them to make energy efficiency upgrades to reduce their energy costs and reduce the carbon footprint of their buildings. Cities around the country including Boston, Cambridge, Seattle, Chicago, Minneapolis, and others, have adopted similar policies and have found them to be an important tool to achieve their climate goals.

During the past year City staff and property owners associated with the Portland 2030 District have worked together to gather the information necessary to prepare benchmarking reports for their buildings. They found it challenging to access information about the electrical consumption of their buildings – data that is essential to comply with the City's ordinance and to make good decisions about their energy usage.

1. Energy Manager Interface: The CMP website provides a tool called Energy Manager that allows account holders to enter an account number and view reports regarding the energy usage associated with that account. City staff and private building owners report that the user interface for this tool is cumbersome and difficult to use, particularly if a property owner has multiple accounts to report on. If a user successfully accesses a specific account, they find excellent energy usage information but technical problems with the software prevent users from downloading it in a usable format -- the links to download Excel or PDF files produce a file with an .aspx suffix that will not open in Excel or Acrobat. Some property owners are able to access a "Green Button" feature through Energy Manager. However, this tool generates a download of 15 minute interval data

that is not usable for most property owners who lack sophisticated energy management software or the staff resources to use it.

2. Inaccessibility of Whole Building Data: Many property owners affected by the City of Portland benchmarking ordinance own and manage properties with multiple tenants. Some properties contain dozens of individual tenants with separate utility meters. Under current Public Utility Commission rules, CMP is not allowed to provide a building owner with information about a tenant's energy usage without permission from the tenant. Several building owners have gotten such releases but report that CMP does not appear to have a process in place to document the accounts that have authorized the property owner to access information. This has limited their ability to access the whole building data they need to create a benchmarking report. During the past year, Efficiency Maine collaborated with building owners affiliated with the Portland 2030 District to leverage their access to energy data and find a way to report on whole building data. This effort has not yet proven workable although we appreciate Efficiency Maine's willingness to support the benchmarking effort.

**Moving forward:** Around the country, cities with benchmarking ordinances have worked with their local utilities and interested stakeholders to develop reporting platforms and policies that have made energy data available to building owners in easy to use electronic formats. The collaboration between Eversource and the City of Boston serves a successful regional example. Their effort resulted in the creation of the Energy Reporting and Disclosure Portal on the Eversource website that allows building owners to access information about accounts belonging to them and to access whole building data (including that of tenants) in a streamlined manner. The City of Cambridge has also joined this partnership.



This effort has led to successful implementation of benchmarking ordinances in both Boston and Cambridge.

We believe that Central Maine Power along with City of Portland and other stakeholders including the Office of the Public Advocate, Efficiency Maine, and the Portland 2030 District could establish a similar platform for electricity customers in the CMP service area. In that light, we would like to invite you to attend the next meeting of the City of Portland's Sustainability and Transportation Committee to discuss your company's efforts to make energy data accessible to

customers and to explore opportunities improve access further. We look forward to hearing from you and working with Central Maine Power to help property owners access the data they need to improve the energy performance of their buildings.

Please contact the City's Sustainability Coordinator, Troy Moon, at 207-756-8362 or at <u>thm@portlandmaine.gov</u> with any questions.

Sincerely, Ethan K. Strimling

Mayor

Spencer Thibodeau Chair, Sustainability and Transportation Committee





Executive Department Jon P. Jennings, City Manager

To: Councilor Thibodeau and members of the Sustainability and Transportation Committee

From: Troy Moon, Sustainability Coordinator

RE: Recommended amendments to the Energy Benchmarking Ordinance

Date: September 14, 2018

#### Background:

In November, 2016 the City Council adopted an energy benchmarking and disclosure ordinance that requires all commercial properties with a footprint greater than 20,000 square feet to calculate their annual energy and water consumption and to report it to the Sustainability Office using the US Environmental Protection Agency's energy reporting platform, Portfolio Manager. The ordinance also requires the Sustainability Office to disclose the reported information on the City website. Over 800 buildings in the city are subject to the reporting requirements.

The ordinance established a hard deadline for businesses to report their data to the Sustainability Office but a softer deadline for the Sustainability Office to disclose this data on the City website.

- <u>Reporting deadline for affected properties</u>: December, 2018. (Two years after the effective date of the ordinance)
- <u>Disclosure deadline</u>: Two years after the effective date of the ordinance **or** one year after the Sustainability Office determines that the utility has made energy data available in a convenient electronic format, **whichever is later**.

The softer deadline for disclosure was the result of stakeholder input that gathering the data necessary to report would be cumbersome and that whole building data for properties with multiple tenants would be challenging to acquire.

#### **Discussion:**

This summer the City had the benefit of a Sustainability Fellow from the University of New Hampshire Sustainability Institute. This allowed us to "test drive" the benchmarking process. Her project was to gather the data necessary to benchmark City buildings and to develop resources that would guide property owners through the process of benchmarking their affected properties. During the course of the fellowship we encountered a number of obstacles that supported stakeholder input

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about the difficulties associated with collecting the energy data for commercial buildings. We believe these obstacles will make it difficult for Portland property owners to comply with the ordinance by the December deadline:

1. Data about electrical consumption is not readily available to property owners in an easy to use electronic format.

Central Maine Power offers a section on their website called "Energy Manager" but our effort to use it proved frustrating. The interface is not intuitive and users with multiple accounts find it difficult to load data from specific accounts. If a user is successful in selecting the account he or she wishes to examine the website will not download a report in a useable format. The CMP website indicates that reports are available in PDF or Excel formats but clicking the link associated with these formats does not generate a file that can be opened by those programs.

We also learned that commercial property owners may not be presented with the same Energy Manager interface for all of their properties. During a working session with a representative from the Portland 2030 District we logged into the website using account information from several accounts belonging to a single property owner. For some buildings we were offered an interface similar to what the owner of a small residential property owner might see but for other properties we were offered a more complicated interface. This makes it difficult to describe the process for collecting data to the affected property owners. The more complicated interface offers a "Green Button" that, theoretically, allows the account owner to download energy data in an easy to use electronic format. (This option doesn't appear on the residential interface that some commercial buildings are offered.) However, the data that downloads is raw 15 minute interval data from the smart meter. Over the course of a month, this creates a very large file of data that is not useful unless the user has access to specialized software for analyzing such data and the skills to use it. Large and sophisticated property managers use such tools or hire a consultant who does but most property owners do not.

2. Owners of buildings with tenants do not have access to whole building energy data.

A significant portion of the buildings subject to the benchmarking ordinance have multiple tenants. Many have dozens of individual units. In most cases, each tenant has an electric meter and pays their own electric bill. Regulations established by the Public Utilities Commission prohibit the utility from disclosing such information to a third party without their written consent. This means a building owner needs to gather monthly energy data from each tenant in a building and compile it into a report showing the whole building data. The alternative would be for the property owner to obtain account information from each tenant along with a release that could be provided to the utility in order to access each tenants energy data. In either case, the property owner would be required to compile the data into a whole building profile before they could report energy consumption in the building. This process presents considerable administrative burden on the property owner and makes compliance difficult.

During the summer we learned that Efficiency Maine had partnered with the Portland 2030 District in an attempt to access whole building data. (By statute, Efficiency Maine can access utility data that is otherwise protected by PUC rules but must still protect confidentiality.) As a pilot, 2030 District members provided Efficiency Maine with the addresses of several buildings and asked them to request that Central Maine Power provide the electrical usage from all accounts associated with those

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properties. In response, Efficiency Maine received a huge volume of raw 15 minute interval data from each of the meters associated with the properties. Unfortunately, they lack the ability to process and interpret that volume of data. Our staff discussed this process with Efficiency Maine who remains willing to support efforts to obtain whole building data but, at present, we haven't figured out how to make this work efficiently. Both the City and Efficiency Maine lack the resources to facilitate a cumbersome process at this time.

In other cities with successful benchmarking ordinances the local utilities provide a streamlined way to provide whole building data to property owners. A regional example is Eversource, which serves the Boston metro region. They have established an easy to use web portal that allows building owners to provide any necessary documentation to verify ownership and to request data that is then supplied in whole building formats. This streamlined process resulted from the close collaboration between the local governments, the utility, regulators, and affected property owners. Our experience working with these entities in Maine indicates that all are willing to work to make energy data available in a streamlined fashion but more needs to be done to make this a reality.

#### **Recommendation:**

As things currently stand, building owners and property managers face significant obstacles that will make it difficult if not impossible to comply with the December reporting deadline to disclose energy and water usage to the City. Staff recommends that the benchmarking ordinance be amended to align the reporting deadline with the deadline for disclosure. This will allow staff to continue working with all parties to provide a usable way to acquire energy data, including whole building energy data.



When the Council passed the ordinance it is clear that they recognized that data was not available to stakeholders because the deadline for disclosing building energy use was undefined. We also suggest that the City continue to work with Efficiency Maine, the Portland 2030 District, energy utilities, and the PUC to revise rules and procedures that make whole building data available to property owners while taking necessary steps to protect the privacy of tenants.

Order 67-16/17 Postponed to 11/7/2016: 7-0 (Ray, Thibodeau absent) on 10/17/2016 Amended with regard to standardized data: 9-0 on 11/7/2016 Amended to change the definition of covered property: 9-0 on 11/7/2016 Passage as amended: 6-3 (Mavodones, Brenerman, Suslovic) on 11/7/2016

ETHAN K. STRIMLING (MAYOR) BELINDA S. RAY (1) SPENCER R. THIBODEAU (2) EDWARD J. SUSLOVIC (3) JUSTIN COSTA (4)

#### CITY OF PORTLAND IN THE CITY COUNCIL

Effective 12/7/2016 DAVID H. BRENERMAN (5) JILL C. DUSON (A/L) JON HINCK (A/L) NICHOLAS M. MAVODONES, JR (A/L)

#### AMENDMENT TO PORTLAND CITY CODE CHAPTER 6 BUILDINGS AND BUILDING REGULATIONS RE: BUILDING ENERGY USE DISCLOSURE ORDINANCE

#### BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PORTLAND, MAINE IN CITY COUNCIL ASSEMBLED AS FOLLOWS:

- WHEREAS, the City seeks to embed sustainability best practices into City operations, the City Code and across the community; and
- WHEREAS, the City has an interest in reducing energy consumption citywide by increasing the energy efficiency of existing buildings located within its city limits and wishes to lead area economic development and environmental protection; and
- WHEREAS, the City finds it to be in the interest of the public to adopt a standard policy regarding the efficient use of energy and water in buildings that supports economic development, improves the economic standing of the community, produces better public health outcomes and reduces emissions of greenhouse gases; and
- WHEREAS, the use of fossil fuels to heat and cool buildings is a significant cause of CO2 emissions that cause global climate change; and
- WHEREAS, the City is vulnerable to sea level rise and other effects of global climate change that may threaten public safety and property; and,
- WHEREAS, the City wishes take action via among other things the energy efficiency best practices contained in

this ordinance to mitigate the negative impacts of global climate change by reducing emissions of CO2;

NOW, THEREFORE, BE IT ORDERED, that, pursuant to 30-A M.R.S. §3001, the Code of Ordinances, City of Portland, Maine, is hereby amended by adding the following section, to be numbered City of Portland General Provisions Code of Ordinances Chapter 6 Article X, which said section shall read as follows:

#### ARTICLE X.

#### 6-205. General.

The energy and water use of municipal and covered buildings shall be benchmarked in accordance with this article.

#### 6-206. Purpose.

To encourage efficient use of energy and water and to reduce the emission of greenhouse gases, this ordinance requires owners of Covered Properties and Municipal Properties to annually measure and disclose energy usage to the Department. Furthermore, this Ordinance will authorize the Department to collect energy and water usage data to enable more effective energy and climate protection planning by the City and others and to provide information to the real estate marketplace to enable its members to make decisions that foster better energy performance.

#### 6-207. Applicability.

This Ordinance shall be applicable to all Municipal and Covered Properties as defined in this Ordinance.

#### 6-208. Definitions.

Benchmarking information shall mean information generated by the Benchmarking Tool, as herein defined including descriptive information about physical property and its operational characteristics. The information shall include, but need not be limited to:

(a) Property address;

(b) Primary use type;

(c) Gross floor area;

(d) Site Energy Use Intensity (EUI) as defined in this section;

(e) Weather normalized source EUI;

(f) Annual greenhouse gas emissions;

(g) Water use;

(h) The energy performance score that compares the energy use of the building to that of similar buildings, where available; and

(i) Compliance or noncompliance with this Ordinance.

Benchmarking Tool shall mean the Internet-based tool developed and maintained by the United States Environmental Protection Agency to track and assess the relative energy performance and water usage of buildings nationwide.

Covered Property shall mean a parcel, as described in public records or as determined by the Department, containing any of the following:

(a) One or more non-residential building(s) where such building(s) singly or together contain more than 20,000 square feet ("Non-Residential Covered Property"); and

(b) One or more residential building(s) that singly or together contain 50 or more residential Dwelling Units whether they are rental Dwelling Units or Dwelling Units owned as condominiums, cooperatives or otherwise ("Residential Covered Property"). Residential covered property shall not include separate free-standing single family or two-family dwelling units, or single freestanding structures or buildings which by themselves contain ten (10) units or fewer.

<u>Department means the City of Portland Energy and</u> <u>Sustainability Coordinator and his or her department or</u> office. Dwelling Unit shall mean a single residential unit consisting of one or more habitable rooms, occupied or arranged to be occupied as a residential unit separate from all other residential units within a building, and used primarily for residential purposes and not primarily for professional or commercial purposes.

Energy shall mean electricity, natural gas, steam, hot or chilled water, heating oil, or other product for use in a building, or renewable on-site electricity generation, for purposes of providing heating, cooling, lighting, water heating, or for powering or fueling other end-uses in the building and related facilities.

Energy Performance Score shall mean the numeric rating generated by the ENERGY STAR Portfolio Manager tool or equivalent tool adopted by the department that compares the energy usage of the building to that of similar buildings.

ENERGY STAR shall mean the U.S. Environmental Protection Agency program related to improving energy efficiency in buildings and products.

ENERGY STAR Portfolio Manager shall mean the tool developed and maintained by the U.S. Environmental Protection Agency to track and assess the relative energy performance of buildings nationwide.

Energy Use Intensity (EUI) shall mean the kBTUs (1,000 British Thermal Units) used per square foot of gross floor area.

Gross Square Feet shall mean the gross floor area of the property.

<u>Municipal Property shall mean a property with one or</u> more buildings that is 5,000 gross square feet or more that is owned by the City of Portland.

Owner shall mean:

(a) An individual or entity having title to a Covered Property;

(b) An agent authorized to act on behalf of the owner of a Covered Property; (c) The net lessee in the case of a property subject to a net lease with a term of at least forty-nine years, inclusive of all renewal options;

(d) The board of managers or trustees in the case of a condominium; and/or

(e) The board of directors or trustees in the case of a cooperative apartment corporation.

Qualified Benchmarker is an entity that meets the Department's qualifications for inputting Benchmarking Information into the Benchmarking Tool.

Residential Property shall mean a property containing one or more Dwelling Units.

Site Energy shall mean the amount of heat and electricity consumed by a Covered Property or Municipal Property as reflected in utility bills or other documentation of actual energy use.

Source Energy shall mean all the energy used in delivering energy to a Covered Property, including power generation and transmission and distribution losses, to perform a specific function, such as but not limited to space conditioning, lighting, or water heating.

<u>Tenant shall mean a person or entity leasing,</u> occupying or holding possession of a Covered Property or Municipal Property.

Utility shall mean an entity that distributes and/or sells energy, including, but not limited to, natural gas, propane, electric or thermal energy for Covered Properties or Municipal Properties.

#### 6-209. Benchmarking for Municipal and Covered Properties.

(a) No later than one (1) year after the effective date of this Ordinance, and no later than May 1 every year thereafter, the total Energy and Water consumed by each Municipal Property, along with all other descriptive information required by the Benchmarking Tool, shall be entered into the Benchmarking Tool for the previous calendar year. (b) Owners of Covered Property shall annually input the total Energy and Water consumed by each Covered Property, along with all other descriptive information required by the Benchmarking Tool, into the Benchmarking Tool for the previous calendar year. The Owner shall input this information according to the following schedule:

- (1) A Residential Covered Property no later than one year after the Department has certified that utility service providers have made utility use data readily available in a standardized and secure manner through "green button" or similar programs or standards that offer easy access to usage data as needed to use Energy Star Portfolio Manager, whichever date comes later no later than two (2) years after the effective date of this Ordinance and by every May 1 every year thereafter;
- (2) A Non-residential Covered Property no later than one year after the Department has certified that utility service providers have made utility use data readily available in a standardized and secure manner through "green button" or similar programs or standards that offer easy access to usage data as needed to use Energy Star Portfolio Manager, whichever date comes later by no later than two (2) years after the effective date of this Ordinance and by every May 1 every year thereafter; and
- (3) A new Covered Property that has not accumulated twelve (12) months of energy and water use data by the first applicable date following occupancy for inputting Energy and Water use into the Benchmarking Tool shall comply with this Ordinance inby May 1 the following year.

#### 6-210. Notification Of Covered Properties.

Between September 1 and December 1 of each year that Benchmarking is required under Section 6-209 above, the City shall notify Owners of Covered Properties of their obligation to input Energy and Water use into the Benchmarking Tool. By January 15 of each year, the City shall post the list of the addresses of Covered Properties on a public website.

#### 6-211. Qualifications of Benchmarkers.

The City Manager or his or her designee, including but not limited to the Department, may establish certification and/or licensing requirements for the users of Benchmarking Tools.

# 6-212. Disclosure And Publication Of Benchmarking Information.

(a) Owners shall annually provide Benchmarking information to the Department, in such form as established by the Department, by the date provided by the schedule in Section V.

(b) An exemption from this reporting requirement for any current reporting period may be granted if:

- (1). The Owner demonstrates to the Department that he or she has been unable to obtain tenant authorization to obtain tenant utility data, despite a good faith effort to obtain such consent; or
- (2). The Owner or Tenant demonstrates to the Department that such disclosure may result in the release of proprietary information which can be characterized as a trade secret.

(c) The Department shall make available to the public on the internet Benchmarking Information for the previous calendar year:

- (1) No later than a year and a half after the effective date of this Ordinance and by September 1 of each year thereafter for Municipal Properties; and
- (2) No later than two and a half years after the effective date of this Ordinance or n No later than one year after Benchmarking Information is provided under Section 6-209the Department has certified that utility service providers have made utility use data readily available in a standardized and secure manner through "green button" or similar programs or standards that

offer easy access to usage data as needed to use Energy Star Portfolio Manager, whichever date comes later, and by September 1 of each year thereafter for Covered Properties. Benchmarking Information received by the Department for the first year a Covered Property is required to input the total Energy and Water consumed and other descriptive information as required by the Benchmarking Tool into the Benchmarking Tool will be not be published except to disclose whether or not the Covered Property is in compliance with this Ordinance.

(d) The Department shall make available to the public and update at least annually, the following information:

(1) Summary statistics on energy and water consumption for Municipal Properties and Covered Properties derived from aggregation of Benchmarking information for both;

(2) Summary statistics on overall compliance with this Ordinance including an assessment of accuracy;

(3) For each Municipal Property and Covered Property:

- (i) <u>The status of compliance with the</u> requirements of this Ordinance;
- (ii) Annual summary statistics for the Municipal Property or Covered Property, including EUI, annual greenhouse gas emissions, and an energy performance score where available; and
- (iii) A comparison of Benchmarking Information across calendar years for any years such Municipal Property or Covered Property has input the total Energy consumed and other descriptive information for such Properties as required by the Benchmarking Tool into the Benchmarking Tool.

#### 6-213. Provision of Benchmarking Information by Tenants.

(a) Each Tenant located in a Covered Property shall, within thirty (30) days of a request by the Owner and in a

form to be determined by the Department, provide all information that cannot otherwise be acquired by the Owner and that is needed to comply with the requirements of this Ordinance. Failure to provide information to an Owner may result in penalties as provided in the City Code and this Ordinance.

(b) Where the Owner is unable to input the total energy consumed by the Covered Property as well as all other descriptive information for such Covered Property as required by the Benchmarking Tool into the Benchmarking Tool due to the failure of any or all Tenants to report the information required by this Ordinance, the Owner shall input alternate values as established by the Department prior to the implementation of this Ordinance, into the Benchmarking Tool.

## 6-214. Assessing Results and Annual Report to City Council.

(a) By December 31, 2020, or two years after the Department has certified that utility service providers have made utility use data readily available in a standardized and secure manner through "green button" or similar programs or standards that offer easy access to usage data as needed to use Energy Star Portfolio Manager, whichever is later, the Department shall review the effect of this Ordinance on improving energy and water performance for Covered Buildings. If energy and water performance for Covered Buildings has not improved significantly, the Department shall make recommendations to the City Manager as to whether amendments to this Ordinance or other measures are necessary to improve building energy and water performance for Covered Buildings.

(b) In December of each calendar year, the Department shall prepare and submit an annual report to the City Council, which evaluates the administration and enforcement of the Ordinance and contains a summary of the benchmarking data provided to the City as required by this Ordinance, as well as any other necessary data or recommendations on the Ordinance could be improved.

#### 6-215. Maintenance of Records.

(a) Owners shall preserve and maintain records as the Department determines is necessary for carrying out the

purposes of this Ordinance, including but not limited to energy and water bills and any and all other documents received from Tenants and/or Utilities. Such records shall be preserved by Owners for a period of three (3) years. At the request of the Department, such records shall be made available for inspection and audit by the Department.

(b) At the time any occupied Covered Building is transferred, the buyer and seller shall arrange for the seller to provide to the buyer all information necessary for the buyer to report Benchmarking information for the entire year in a timely manner. It shall be a violation of this Ordinance for any seller to fail to so provide any such information.

#### 6-216. Violations.

It shall be unlawful for any entity or person including, but not limited to, Owners or Tenants to fail to comply with the requirements of this Ordinance or misrepresent any material fact in a document required to be prepared or disclosed by this Ordinance.

#### 6-217. Enforcement and Administration.

(a) The City Manager, the Department or their designee shall enforce the provisions of this Ordinance.

(b) The City Manager, the Department or their designee may promulgate regulations relative to the administration of the requirements of this Ordinance, as necessary.

(c) If any person or entity including, but not limited to, Owners or Tenants violate any provision of this Ordinance, the following enforcement measures may be taken:

- (1) For the first violation, a written warning may be issued; and
- (2) Any subsequent or ongoing violation will be subject to a fine of up to \$20.00 per day pursuant to the provisions of Chapter 1, Section 1-15 herein.

6-218. Severability.

If any provision of this Ordinance shall be held to be invalid by a court of competent jurisdiction, then such provision shall be considered separately and apart from the remaining provisions, which shall remain in full force and effect.