



## **Energy Benchmarking for Private Buildings**

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Public Meeting on 2<sup>nd</sup> Proposed Rulemaking July 31, 2012

# A Familiar Concept ...Applied to a New Area





## Why Benchmark? For Building Owners



- Rate and compare performance
- Manage energy and water consumption
- Calculate carbon footprint
- Set investment priorities
- Verify and track progress of improvement projects
- Option to gain ENERGY STAR certification
- Attract Tenants

 Utilities are the largest single expense for building owners

#### 32% - Utilities

22% - Repairs/Maintenance

21% - Admin

5% - Security

1% - Grounds

Source: BOMA

## Why Benchmark? For Communities



Buildings are largest source of DC's Greenhouse Gas Emissions

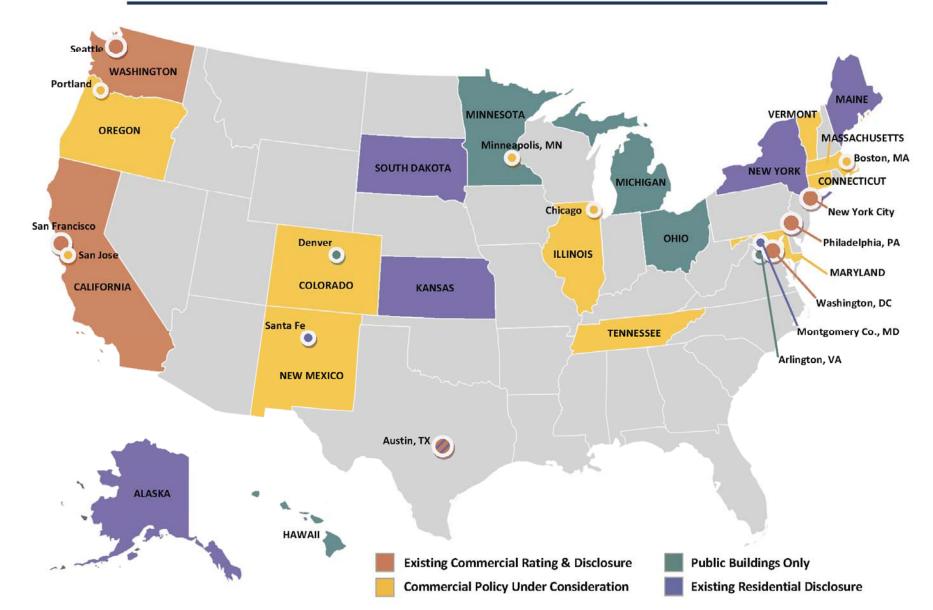


- Disclosure leverages free market to drive overhaul of building stock at with minimal regulatory burden
- Access to granular energy data facilitates comprehensive energy planning and targeting of incentives
- National leadership

#### **National Context**

## Institute for Market Transformation Sharing transparency

#### **U.S. Building Rating and Disclosure Policies**



## DC Requirements: Existing Buildings



District laws —
Green Building Act of 2006 (GBA)
Clean and Affordable Energy Act of 2008 (CAEA)

ENERGY STAR Portfolio Manager benchmarking & public reporting

- Public Buildings >10,000 sq. ft.
- <u>Private</u> Buildings >50,000 sq. ft., including residential buildings, phased in by building size, with public reporting beginning with the 2<sup>nd</sup> year of data

## **Updated Timeline**



| October 21-November 21, 2011                | 1 <sup>st</sup> proposed rulemaking and comment period  |
|---|---|
| February 21, 2012                           | Public Meeting for further stakeholder input  |
| July 20, 2012                               | 2 <sup>nd</sup> proposed rulemaking published   |
| August 19, 2012                             | 30-day comment period ends  |
| September 2012                              | Final rulemaking published  |
| November 2012<br>(60 days after final rule) | 2010 & 2011 reports due for buildings<br>over 200k sq ft<br>2011 report due for buildings 150k-200k |
| January 2013                                | Publication of 2011 Data for buildings over 200k  |
| April 1, 2013                               | 2012 reports due for buildings over 100k  |
| April 1, 2014                               | 2013 reports due for buildings over 50k   |

## **2<sup>nd</sup> Proposed Rulemaking Package**



- Second Notice of Proposed Rulemaking
- Second Notice of Proposed Rulemaking (with all changes tracked since last proposed rulemaking)
- Summaries of all comments & DDOE's responses
- Guidance Documents:
  - Frequently Asked Questions (F.A.Q.)
  - Compliance Checklist
  - District Data Collection Worksheet
  - Non-Residential Tenant Information Form
  - Utility Data Release Form
  - District Benchmark Reporting Template Field Summary



## What Is NOT Changing

#### **Basic District Benchmark Process**

- Use ENERGY STAR Portfolio Manager for both benchmarking and data submission
- Applies to both Non-Residential and Residential buildings over 50,000 sq. ft.
- 1-100 score not required
- Includes water utility data
- No financial data or other confidential business information will be collected
- Failure to meet deadlines or submission of inaccurate data subject to fines of up to \$100/day



- Simplified Data Collection for Multi-family Residential
- Aggregate Data Option
- 3. Increased Reporting Flexibility
- 4. Official Warning Period
- 5. Multiple Buildings on a Tax Lot
- 6. Updating Submitted Data
- 7. Delegation for Single-Tenant Buildings
- 8. Reporting Non-Compliant Tenants
- 9. Deadlines for 2010 and 2011 Data
- 10. New and Clarified Definitions



#### 1. Multifamily Building Data Collection

- § 3513.5 & § 3513.7
- Until aggregate utility data is available...
- Multifamily owners/managers not required to request data from any residential tenants; benchmark using:
  - Master meters
  - Common area meters
  - Data from non-residential tenants
- Extrapolated benchmarking method eliminated



## 2. Aggregate Data

- § 3513.5 & § 3513.7
- Once a utility company has made whole-building aggregate data available, the building owner must use aggregate data for that utility
- IF the utility company has made the service available prior to February 1<sup>st</sup> of that calendar year
- Space use information must still be collected from non-residential tenants



## 3. Increased Reporting Flexibility

- § 3513.5, § 3513.6, & § 3513.12
- Previously, owners would have been required to collect data from tenants using specific DDOEprovided forms
- Forms now optional as a convenience
- Owners will be able to collect needed data with or without forms, or from tenants or third parties (e.g. utility companies)
- Tenants moving out must give data to landlord prior to moving out or as soon as practical thereafter



#### 4. Official Warning Period

- § 3513.14
- Building owners or non-residential tenants who do not comply will get notice by mail
- 30-day warning period to collect & submit data
- No fines imposed until after end of warning period
- After warning period, fines accrue at rate of up to \$100/day



## 5. Multiple Buildings on a Tax Lot

- § 3513.2(c) and § 3513.3(d)
- If buildings share utilities or systems <u>without separate</u> or <u>sub-metering</u>, benchmarking buildings independently not possible
- Size threshold will apply to combined gross floor area of all spaces that share master meters
- Must be benchmarked and submitted to DDOE as a single building or campus
- If buildings are metered separately, contact DDOE and provide documentation of meter configuration to be exempted



#### 6. Updating Submitted Data

- § 3513.9
- If a building owner receives updated data, must update Portfolio Manager account and re-submit within 30 days
- Examples:
  - Data from previously non-compliant tenant
  - Correct, non-estimated data from utility company
  - Revised building floor area measurement



#### 7. Delegation for single-tenant buildings

- § 3513.10
- If a tenant has leased the entire building and manages the entire building, the building owner can, with the consent of the tenant, formally delegate responsibility for benchmarking to the tenant



## 8. Reporting Non-Compliant Tenants

- § 3513.4(b)
- Building owners are required to report in <u>Notes field</u> any non-residential tenants who did not provide data despite the owner making reasonable efforts to request it
- Information is needed for full enforcement



#### 9. Deadlines for 2010 and 2011 Data

- § 3513.15
- Deadline: 60 days after finalization
  - (Estimate: November 15, 2012)
- Buildings over 200,000 gsf: 2010 & 2011 data
- Buildings 150,000-200,000 gsf: 2011 data



#### 10. New & Clarified Definitions

#### **New Definitions**

- Building (from GBA)
- Aggregate Utility Data
- Utility Data
- Utility Company

#### Clarified Definitions

- Building Owner
- Tenant
- Director of DDOE

#### **Other Issues**



#### **Inclusion of Ground-Floor Retail Spaces**

- Green Building Act applies to whole buildings
- ENERGY STAR does allow exclusion of certain spaces if they represent <10% of gross building area and the data isn't available...
- ...DC law requires non-residential tenants to make data available, so the regulations cover retail space
- With aggregate data, retail spaces included by default
- EPA's voluntary ENERGY STAR building certification is a separate program based on its own criteria

#### Other Issues



#### **Exemption Process**

- Existing GBA exemption process (20 DCMR 3511.2(b)) for a public interest exemption may be used to address national security concerns or other unique situations
- No change made to benchmarking regulation

#### **Confidential Business Information**

- DDOE will not collect confidential financial data or information on energy efficiency upgrades
- No change made to benchmarking regulation

#### **Data Submission**



#### Standard Electronic submission process

- 1. Download *District Reporting Template* for applicable year(s) into ESPM via link on DDOE website
- 2. Select template in ESPM's Custom Reporting Tool, and it will populate with all needed data
- 3. Verify accuracy and click "Release Data"
- 4. EPA sends email to confirm submission

#### **Campus Submission**

 For 2012 and 2013, click "Request Campus Report" on Portfolio Manager main page, download spreadsheet(s), e-mail to <u>info.benchmark@dc.gov</u>



#### **Publication of Results**

- Benchmark results will be made public in 2<sup>nd</sup> year of reporting for a building
- Results will be reported on the DDOE website
- Whole vs. Partial building data will be distinguished
- Data stored in secure US DoE database
- Data fields in public database:

| Address                           | Year Built                |
|-----------------------------------|---------------------------|
| Energy Performance Rating (1-100) | Energy Intensity          |
| Electricity Use                   | Natural Gas Use           |
| Water Use                         | CO <sub>2</sub> Emissions |
| Space Type                        | Gross Building Area       |

#### Resources



- Free Webinars from U.S. EPA
  - www.energystar.gov/benchmark
- Speakers Bureau
- DC SEU Benchmarking Help Center
  - Technical assistance with ENERGY STAR Portfolio Manager and DC benchmarking requirements
  - FREE
  - Hotline: 202-525-7036
  - Email: benchmarking@dcseu.com



#### **Upcoming Events**



#### **In-Person training sessions in August – November:**

- September 12, 1pm 4pm
  - EPA-sponsored ESPM training for Service Providers
- September 29, 10am 1pm
  - ESPM Training for Condos and Co-ops
- October 11, 9am 3pm
  - "Benchmarking & Beyond: Tools and Approaches for Improving the Energy Efficiency of DC's Affordable Housing Properties," October 11, 9am-3pm
- More to be scheduled...check DDOE's benchmarking web page for information



#### **Questions? Comments?**

#### **Contact DDOE:**

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