



Maryland
Department of
the Environment

Maryland Building Energy Performance Standards (BEPS)

Maryland Clean Energy Summit
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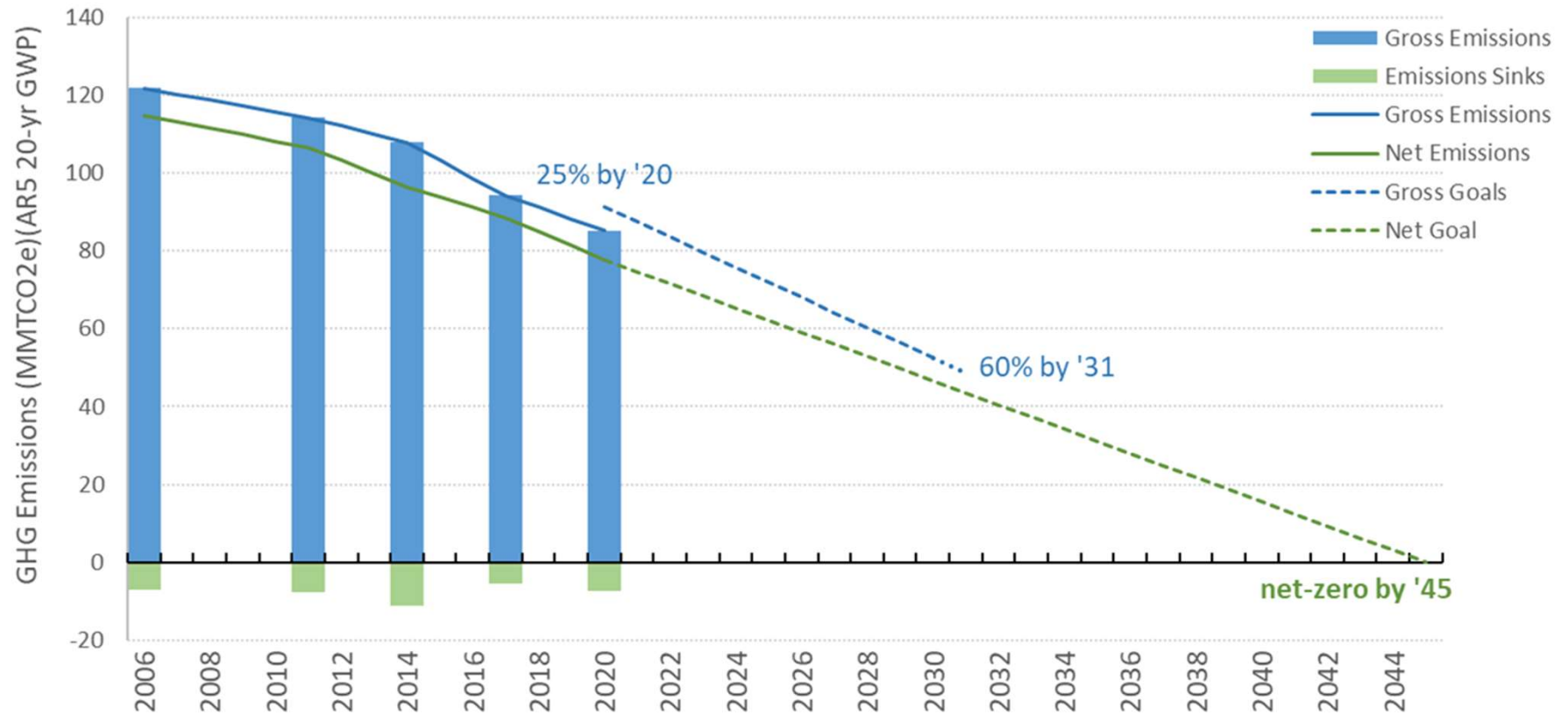
Background

- Building Energy Performance Standards (BEPS) and Building Performance Standards (BPS) are emerging in cities, counties, and states across the nation
- The typical goal of a BEPS/BPS is to guide large buildings to higher levels of energy efficiency and/or lower levels of greenhouse gas emissions
- The Climate Solutions Now Act of 2022 requires the Maryland Department of the Environment (MDE) to develop BEPS regulations that cover most large buildings in the state
- Decarbonizing large buildings is an important step toward achieving Maryland's greenhouse gas reduction goals



Maryland's Greenhouse Gas Reduction Goals

Maryland GHG Emissions & Goals



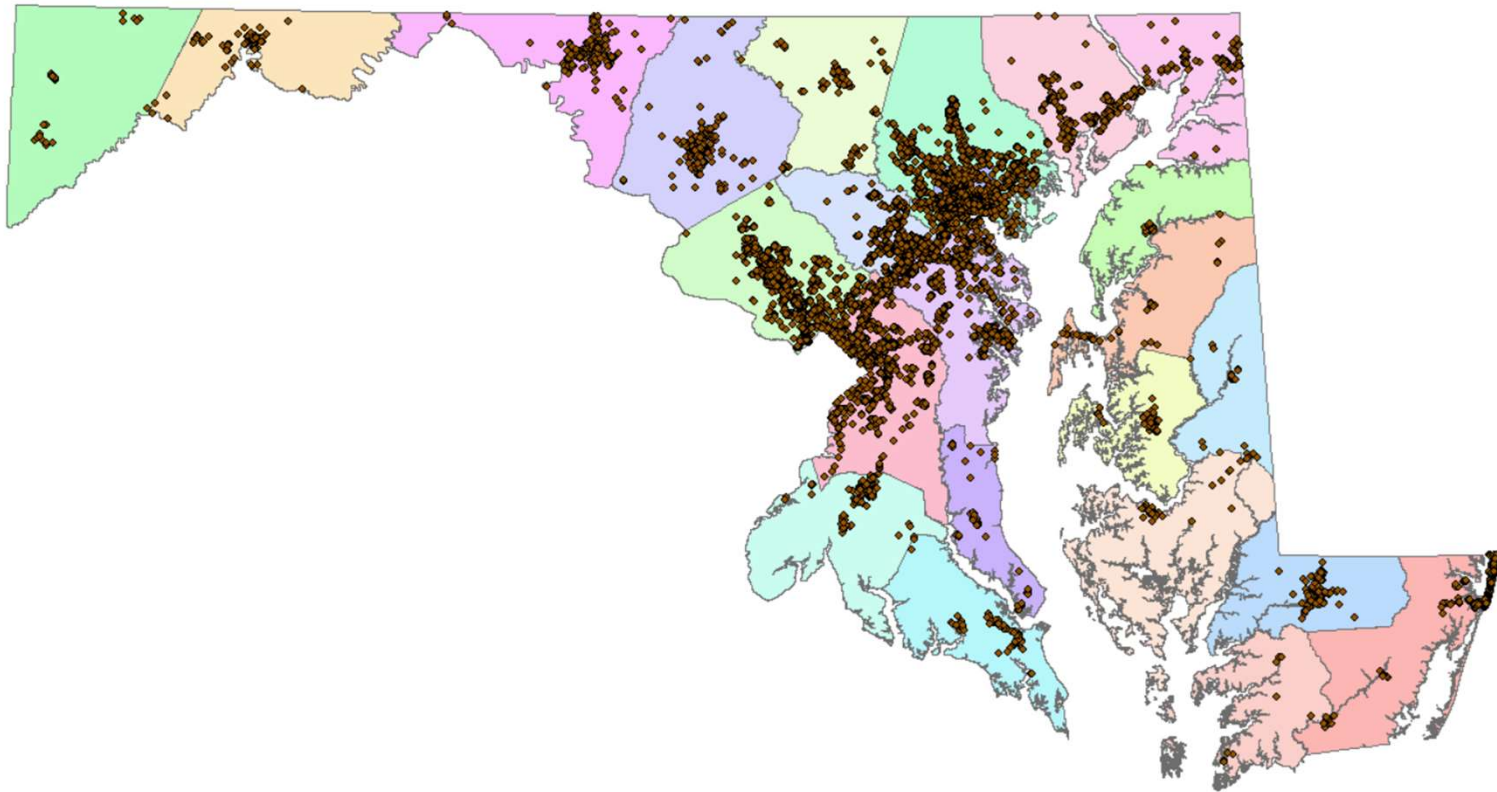


MD Covered Buildings

- A covered building is a building in Maryland that has a gross floor area of 35,000 square feet or more excluding the parking garage area
- Exempt buildings:
 - Buildings smaller than 35,000 square feet;
 - Historic buildings (designated as historic property under law);
 - Public or nonpublic elementary and secondary school buildings;
 - Manufacturing buildings; and
 - Agricultural buildings.



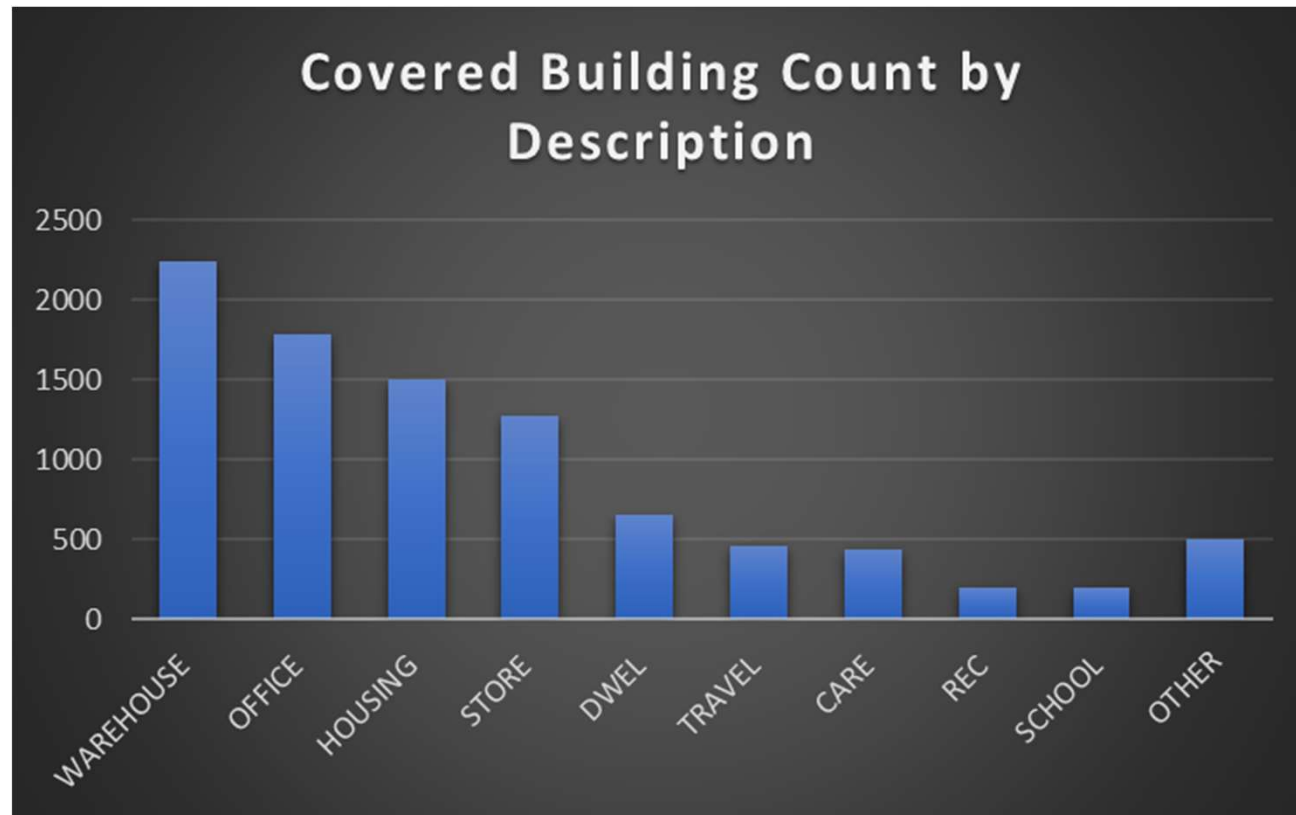
Location of Covered Buildings



Preliminary analysis



Distribution of Covered Building Types



Preliminary analysis



Process for a Covered Building Owner

Benchmark

Assess

Alternative Compliance

Achieve Standards

Annually beginning in 2025

Use an online benchmarking tool (EPA's ENERGY STAR Portfolio Manager) to track annual energy use and greenhouse gas emissions

Annually beginning in 2025

Determine if changes are needed to improve site energy use intensity (EUI) and/or reduce net direct greenhouse gas (GHG) emissions to achieve the standards

Annually beginning in 2030

Achieve specified levels of site EUI and net direct GHG emissions. If the building does not achieve the standards, then the owner will owe a fee or penalty



Performance Standards

Net Direct Greenhouse Gas Emissions Standards (“emissions standards”):

- By 2030, achieve a 20% reduction compared with 2025 levels for average buildings of similar construction
- By 2035, achieve a 60% reduction compared with 2025 levels for average buildings of similar construction
- By 2040, achieve net-zero direct greenhouse gas emissions

Site Energy Use Intensity Standards (“site EUI standards”):

- By 2030, achieve progress on a straight line trajectory between the covered building’s baseline and final standards
- By 2035, achieve additional progress on a straight line trajectory between the covered building’s baseline and final standards
- By 2040, achieve the final site EUI standards



Performance Standards (cont)

MDE will conduct an updated analysis after the 2025 benchmarking data are submitted in 2026 to determine if the interim and/or final standards need to be modified based on actual 2025 benchmarked building energy performance