



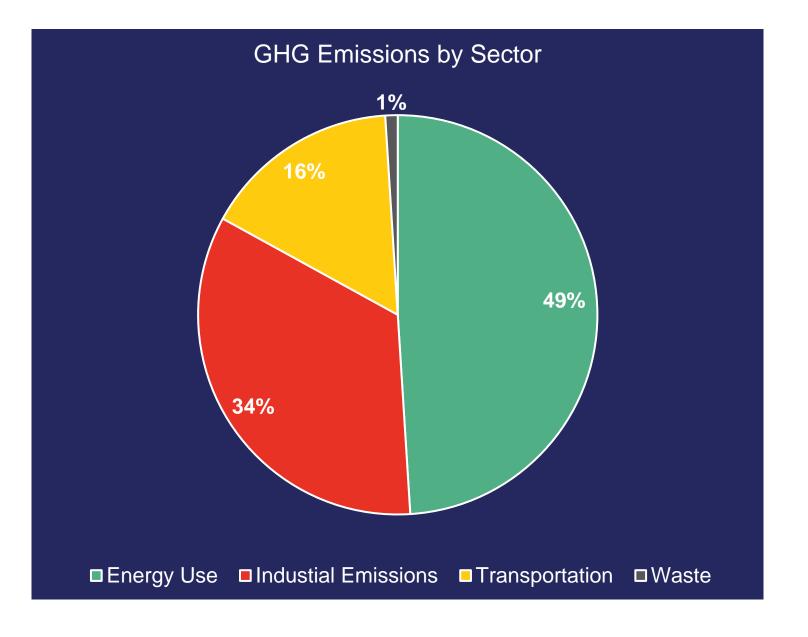
## Cleveland Climate Action Plan

Sets course of action to address challenges associated with climate change

## Cleveland's first CAP completed in 2013

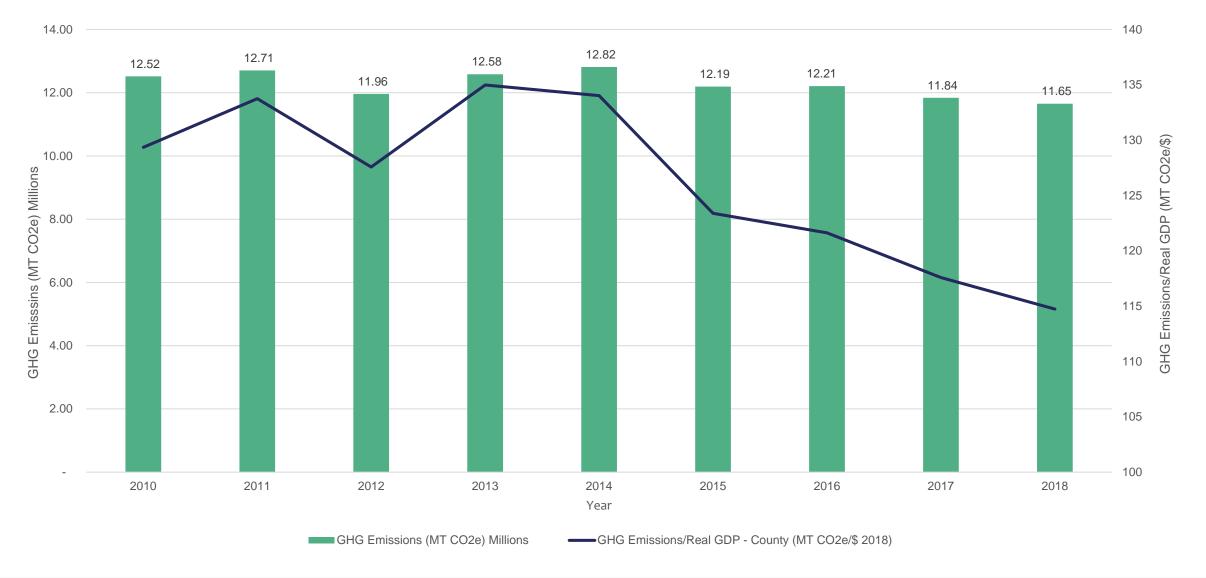
- Goal to reduce emissions 80% by 2050, 40% by 2030 (2010 baseline)
- 2018 update with emphasized equity

Energy use is primary driver of emissions





## **Decoupling Emissions and Real GDP**





## 2018 Climate Action Plan Focus Areas and Objectives

AREAS



**ENERGY EFFICIENCY** & GREEN BUILDING





CLEAN ENERGY Projected CO2e Reductions 2.5 million MT



SUSTAINABLE TRANSPORTATION Projected CO2e Reduction: 4 million MT



CLEAN WATER AND VIBRANT GREEN SPACE Projected CO2e Reduction: < 0.1 million MT



MORE LOCAL FOOD, LESS WASTE Projected CO2e Reduction: < 0.1 million MT





CROSS-CUTTING PRIORITIES Projected COZe Reduction: 0.6 million MT

◆ The size of the icons indicates how much the Focus Area supports these priorities







Generate more solar

Improve access to

affordable clean energy

for residents and small

energy locally

organizations



11

12



Drive cleaner, more

Build transportation

systems that prioritize

Increase use of public

regional collaboration

efficient vehicles

safety for all

transit through

Make Cleveland a

Continue to green

Cleveland's ports

premier cycling city













Update land use policy to foster health, equity and sustainability

Reduce dumping through vacant land reuse and education

18

Implement the Cleveland Tree Plan to grow and maintain a healthy urban forest

Improve access to clean and safe public parks

Scale up stormwater management

Improve water quality and conservation

Encourage waste reduction and diversion in homes and businesses

23

Reduce food waste and hunger

Enhance the local food system and resident access to high quality, affordable, healthy food

25 Engage residents to advance equity in climate action

Advance green jobs development

dimate action

28 Improve resilience to climate change and other impacts

Make more homes affordable, comfortable, healthy, and energy efficient

Prioritize energy efficiency in small and mid-size businesses

Support community hubs to be more efficient and resilient

4

Promote new construction and major renovations that meet high green building standards

Reduce commerical and industrial emissions with advanced technologies

Establish an offshore wind industry in Northeast Ohio

Use advanced technology to build a deaner, safer, smarter city

Support clean energy policy

\*THE OBJECTIVE NUMBER IS NOT INDICATIVE OF RELATIVE IMPORTANCE.





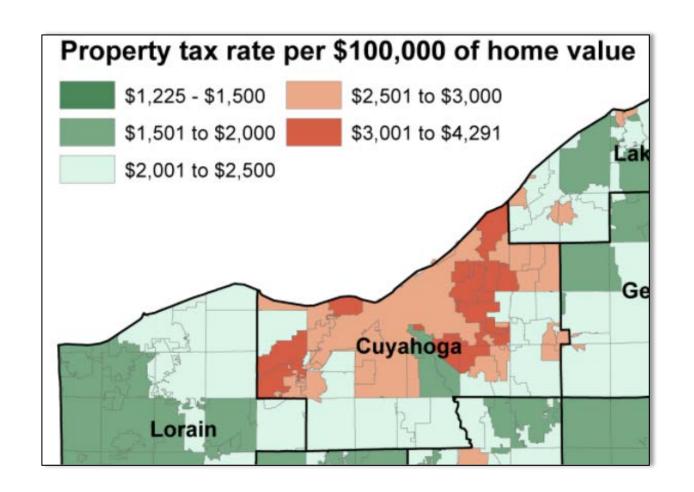
# Residential Tax Abatement & Green Building Standards

#### Requirements

- Enterprise Green
   Community (EGC) LEED/
   National Green Building
   Standard Silver or
   Advanced programs
   (Passive House, Living
   Building Challenge)
- Covers 8 criteria

#### **Benefits**

- Green Certification
- 15 year Tax Abatement





## Cleveland Residential Tax Abatement & Green Building Standards

Table 1: Eligible Rating Systems by Building Type			
Building Category*	New Construction	Substantial Rehab	Moderate Rehab
Single Family and Multifamily Low-Rise (Affordable)	A: EGC certified through Enterprise C: LEED Silver D: NGBS Silver	A: EGC certified through Enterprise C: LEED Silver D: NGBS Silver	A: EGC certified through Enterprise D: NGBS Silver
Single Family and Multifamily Low-Rise (Market Rate)**	B: EGC compliant & energy req'ts C: LEED Silver D: NGBS Silver	B: EGC compliant & energy req'ts C: LEED Silver D: NGBS Silver	B: EGC compliant & energy req'ts D: NGBS Silver
Multifamily Mid/High Rise (Affordable)	A: EGC certified through Enterprise C: LEED Silver D: NGBS Silver	A: EGC certified through Enterprise C: LEED Silver D: NGBS Silver	A: EGC certified through Enterprise D: NGBS Silver
Multifamily Mid/High Rise (Market Rate)**	B: EGC compliant & energy req'ts C: LEED Silver D: NGBS Silver	B: EGC compliant & energy req'ts C: LEED Silver D: NGBS Silver	B: EGC compliant & energy req'ts D: NGBS Silver

<sup>\*</sup>The definitions in each rating system determine if a multifamily building is classified as low-rise, mid-rise, or high-rise. Use Enterprise Green Communities definitions to determine affordable vs. market rate.

Table 2: List of Qualified Raters / Verifiers				
Rating System	Raters / Verifiers	Link to Qualified Raters / Professionals		
Enterprise Green Communities	Cleveland Green Verifier As applicable: HERS Certified Rater, Other Qualified Professionals	www.city.cleveland.oh.us/CommunityDevelopment/Ta xAbatement (Click on 'Cleveland Green Communities Green Verifiers' link)		
LEED	LEED for Homes Verification Team (Green Rater and Provider)	www.usgbc.org/people/green-raters  www.usgbc.org/organizations/members/homes- providers		
NGBS Green	NGBS accredited Verifier	www.homeinnovation.com/services/certification/green homes/resources/find a verifier		

<sup>\*\*</sup> See Appendices for EGC Compliance and energy efficiency requirements

As noted above, regardless of compliance path selected, all projects must meet the mandatory requirements set forth in Criterion 2, Location + Neighborhood Fabric, of the 2015 Enterprise Green Communities Criteria.



## Community Partners – Energy Efficiency Cleveland 2030 District

60 MILLION square feet participating

257

energy use

district-wide reduction in

district-wide reduction in transportation emissions

20%

water use

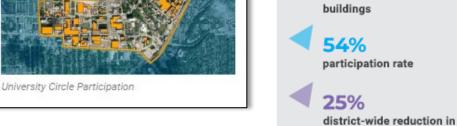
25%

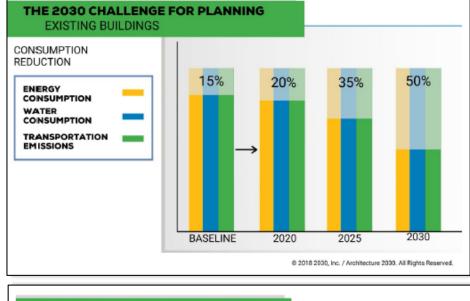
### **PARTICIPATION**

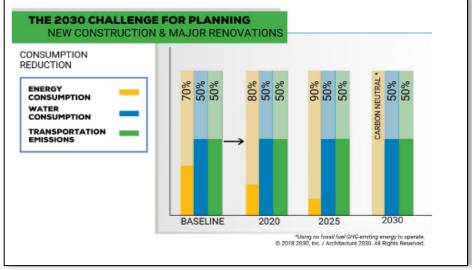
The Cleveland 2030 District includes two footprints, one in the downtown business district and one in University Circle, the education, medical and cultural center of the city.





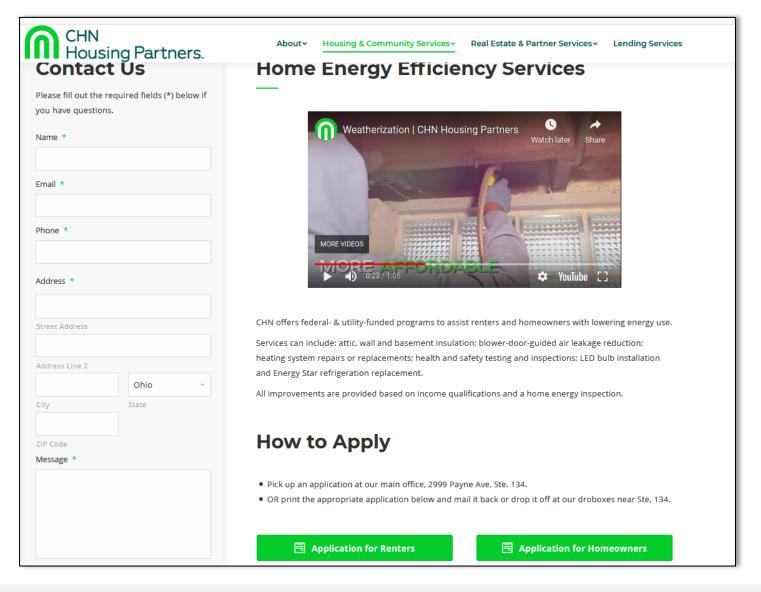








## Community Partners – Energy Efficiency CHN Housing Partners





# 100% RE Demand by 2050

We secured a Partners for Places grant to develop a community-wide transition plan

- Comprehensive approach
- Heavy focus on equity
- Collaborative effort
- Energy Efficiency integral to plan

Report will be complete later this month

- Economic model
- Policy toolkit



