



Green
Building
Alliance

2018

Pittsburgh 2030 District
**PROGRESS
REPORT**

SIEMENS

Ingenuity for life

The background is a solid teal color. It features several abstract, flowing lines. A prominent dark blue line starts from the top center, curves to the right, then down, and then back up towards the right edge. A white line starts from the top right, curves down and left, then down and right, and finally down and left towards the bottom right. There are also several faint, light-colored lines scattered across the background, some forming circular or oval shapes.

Green Building Alliance Overview

Our Vision

**Every building and every
community is sustainable
so every person can thrive**

The background is a solid teal color with several abstract white and light green lines. A prominent white line forms a large, shallow U-shape. A light green line starts from the left edge and curves upwards. Another white line starts from the top left and curves downwards. The text "Our Mission" is written in a white, sans-serif font, following the curve of the white U-shape.

Our Mission

GBA advances innovation in the built environment by empowering people to create environmentally, economically, & socially vibrant places

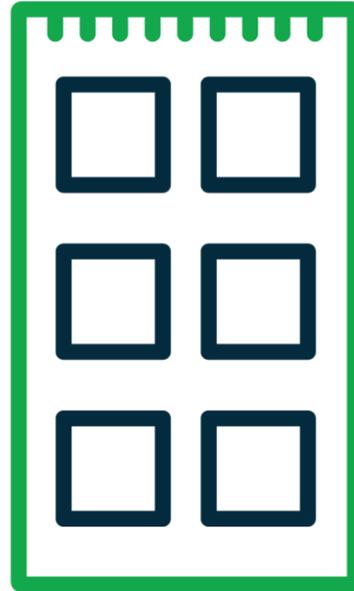
PEOPLE



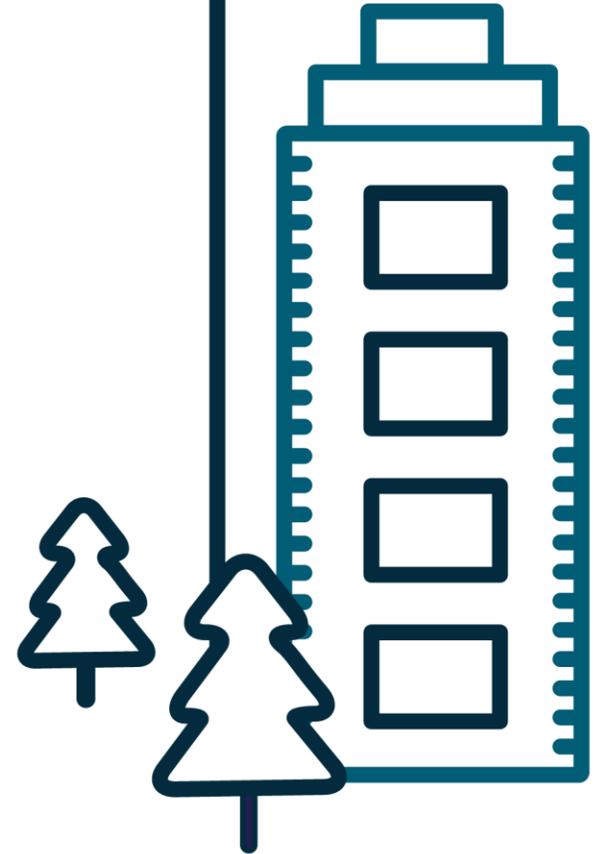
ELEMENTS



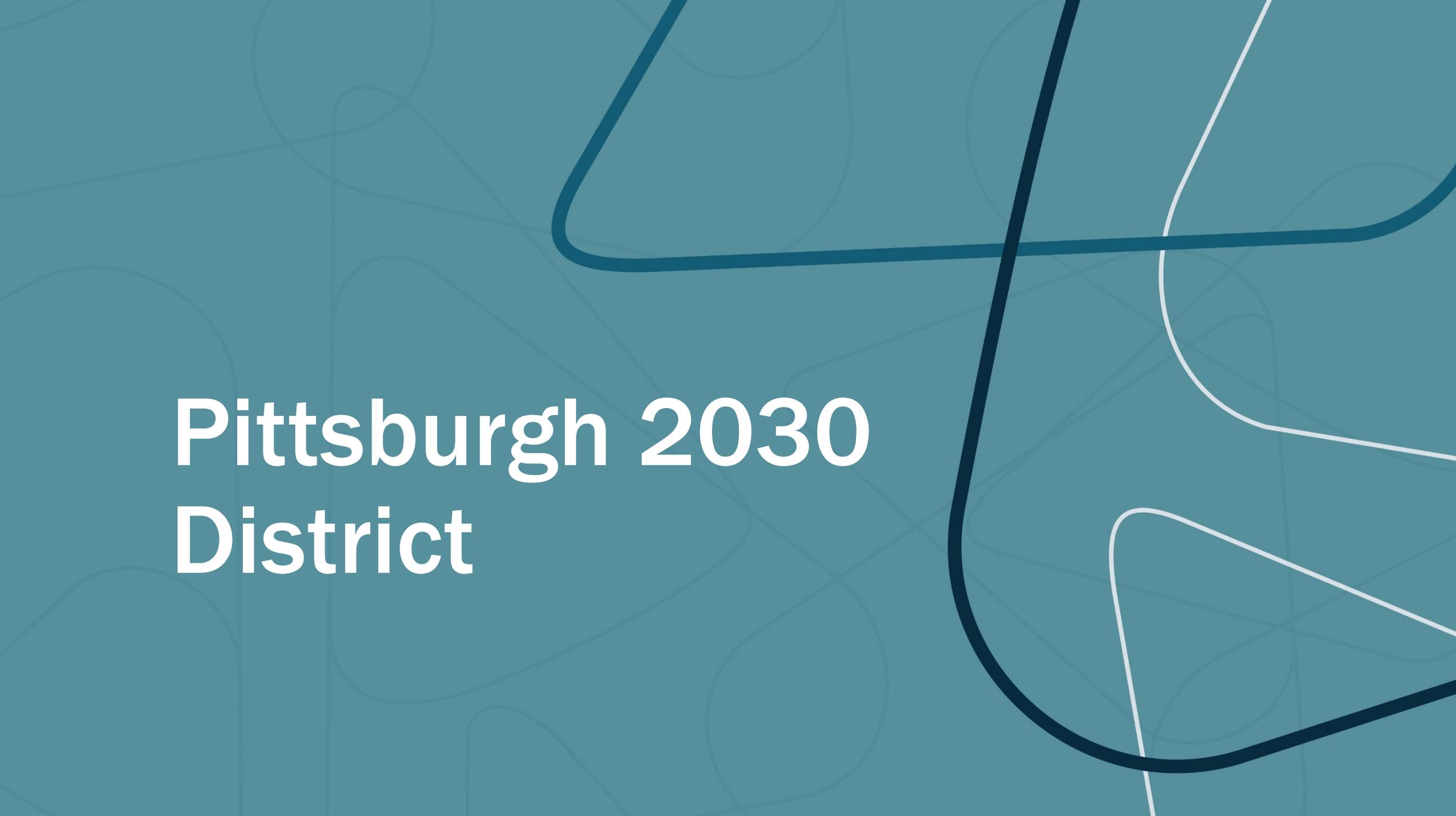
**BUILDING
SYSTEMS**



**WHOLE
BUILDINGS**



COMMUNITIES & INFRASTRUCTURE

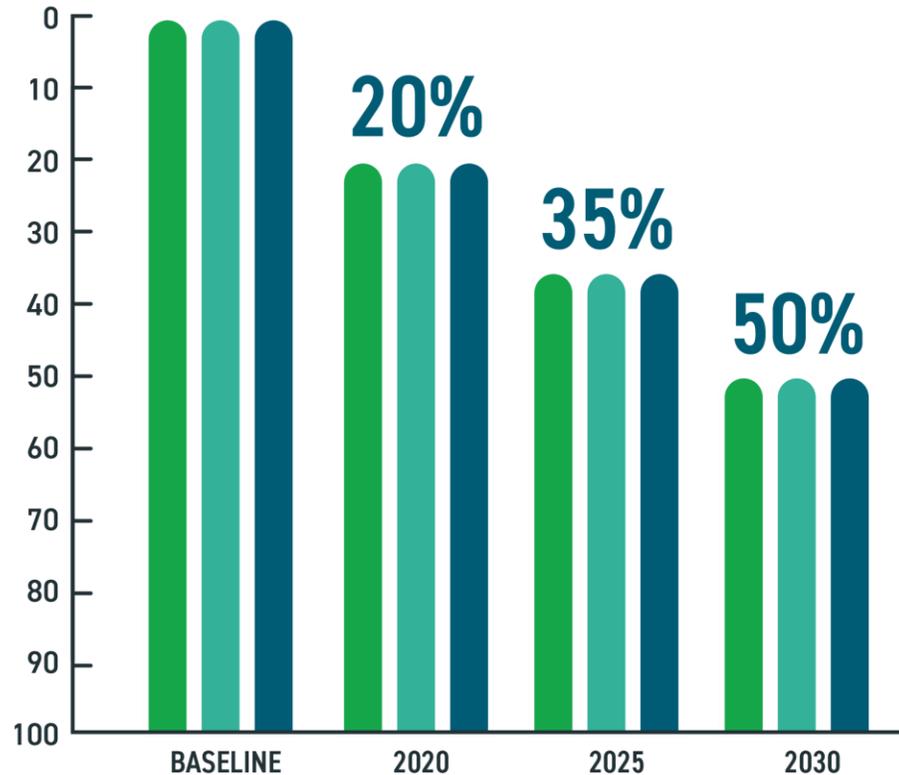


Pittsburgh 2030 District

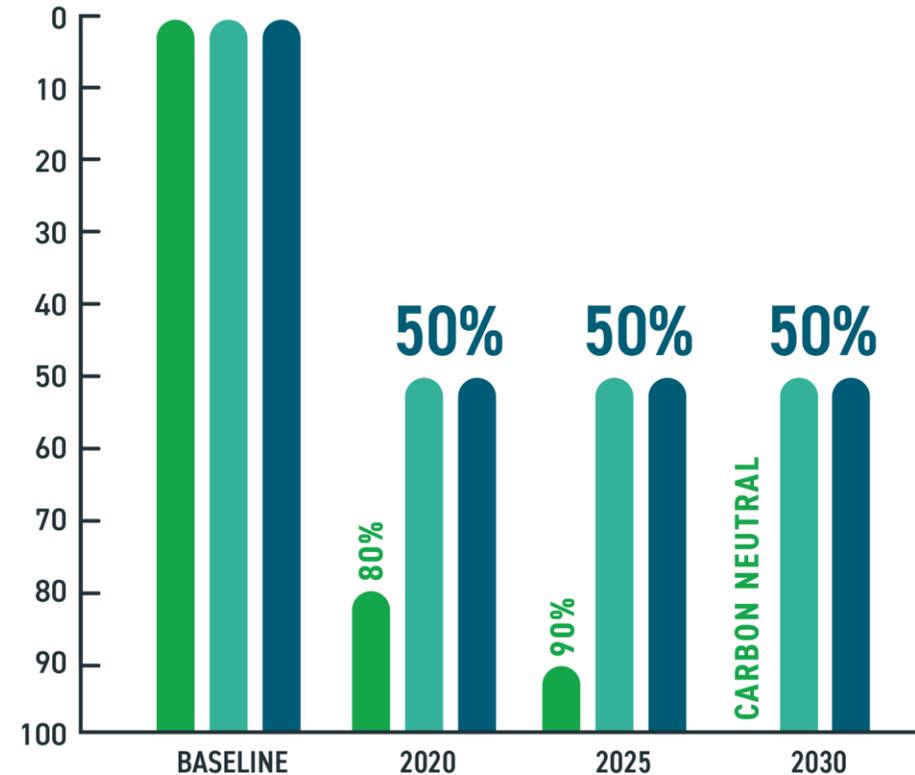


The 2030 Challenge

EXISTING BUILDINGS



NEW BUILDINGS & RENOVATIONS



2030 District Network

● ESTABLISHED DISTRICTS

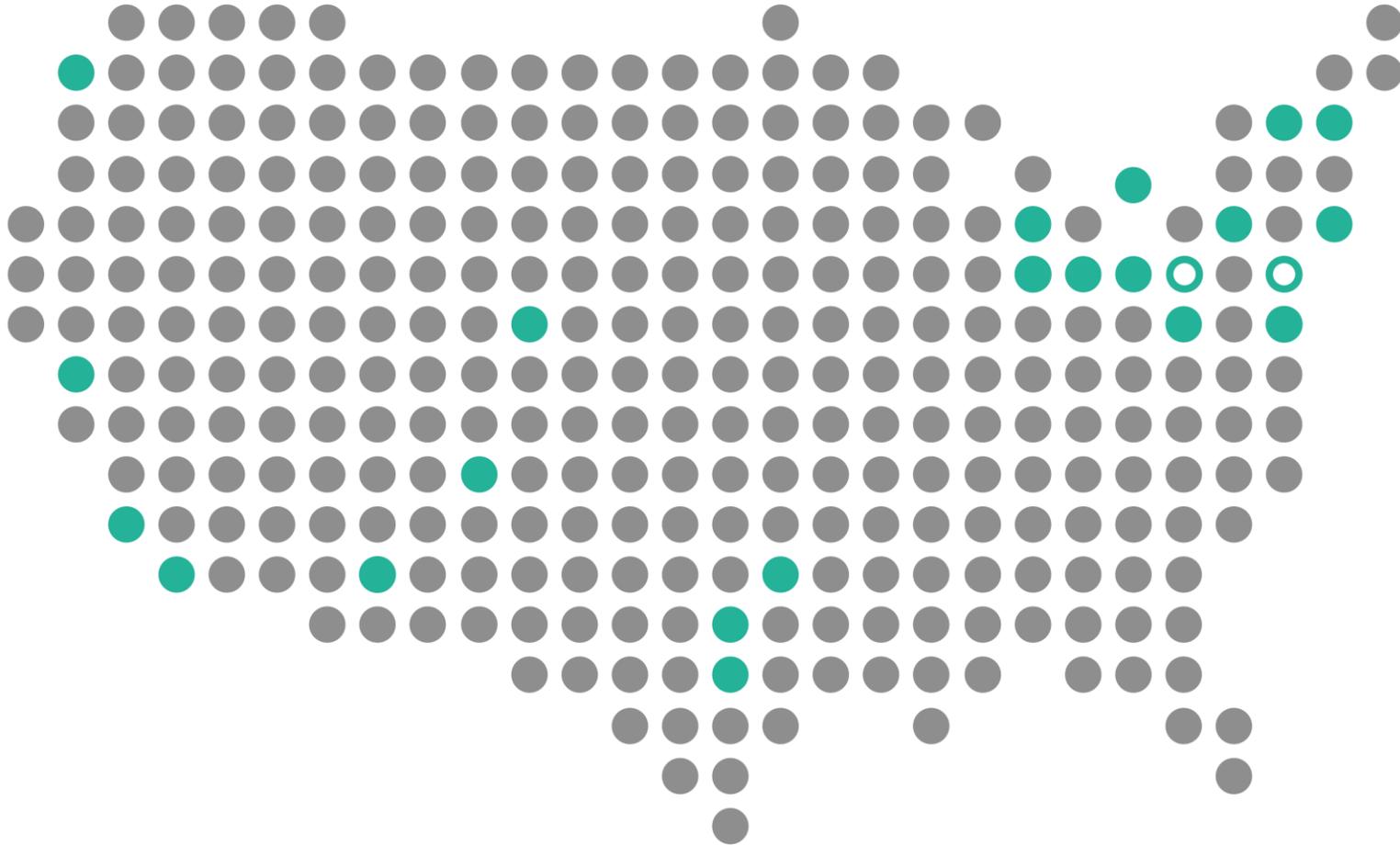
Albuquerque, Ann Arbor, Austin, Burlington, Cincinnati, Cleveland, Dallas, Denver, Detroit, Grand Rapids, Ithaca, Los Angeles, Philadelphia, Pittsburgh, Portland (ME), San Antonio, San Diego, San Francisco, Seattle, Stamford, Toronto, and Tuscon

○ EMERGING DISTRICTS

Erie and New York City



2030 District Network



**PITTSBURGH
HAS THE
LARGEST 2030
DISTRICT IN
THE WORLD**

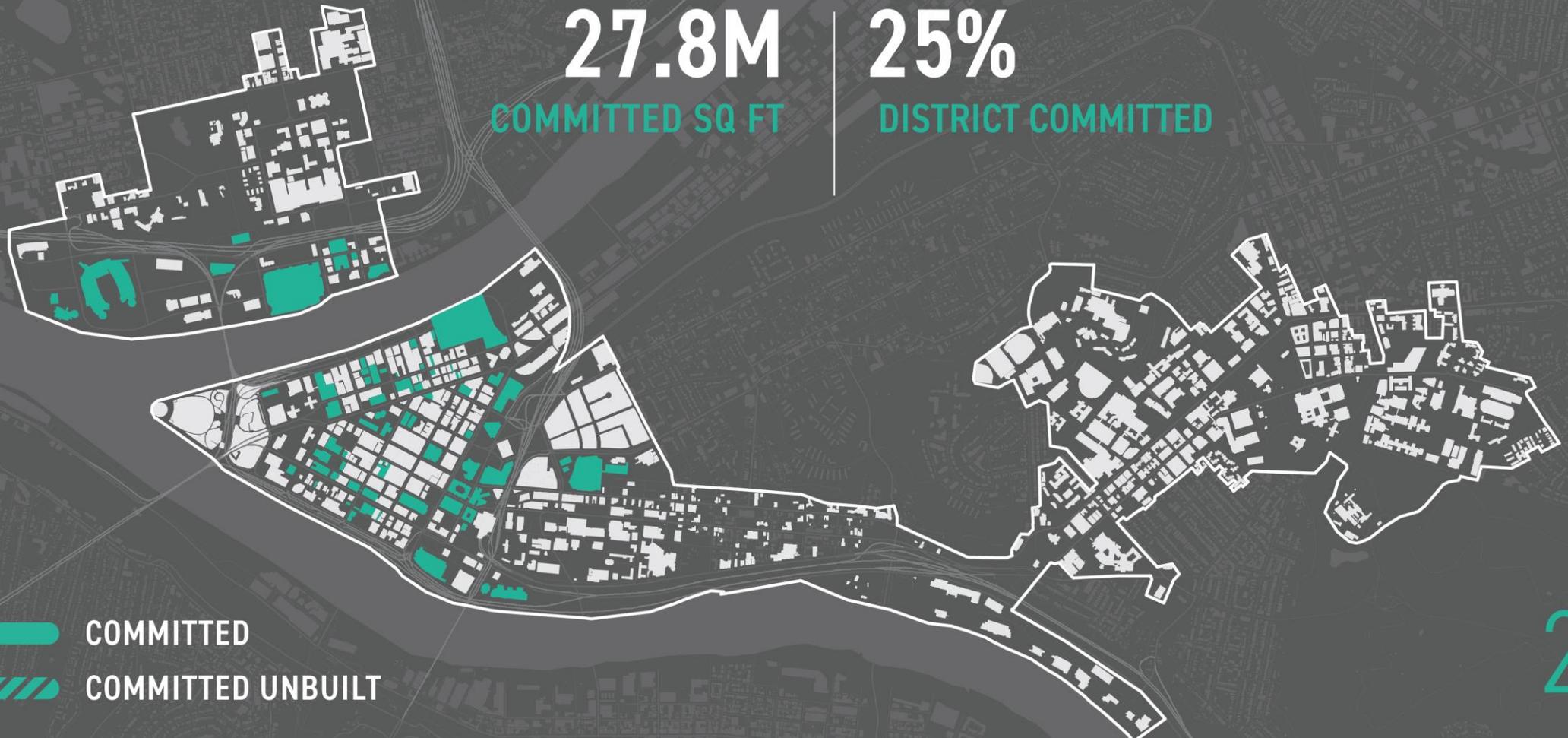
81 BUILDINGS COMMITTED

27.8M
COMMITTED SQ FT

25%
DISTRICT COMMITTED

 COMMITTED
 COMMITTED UNBUILT

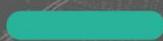
2012



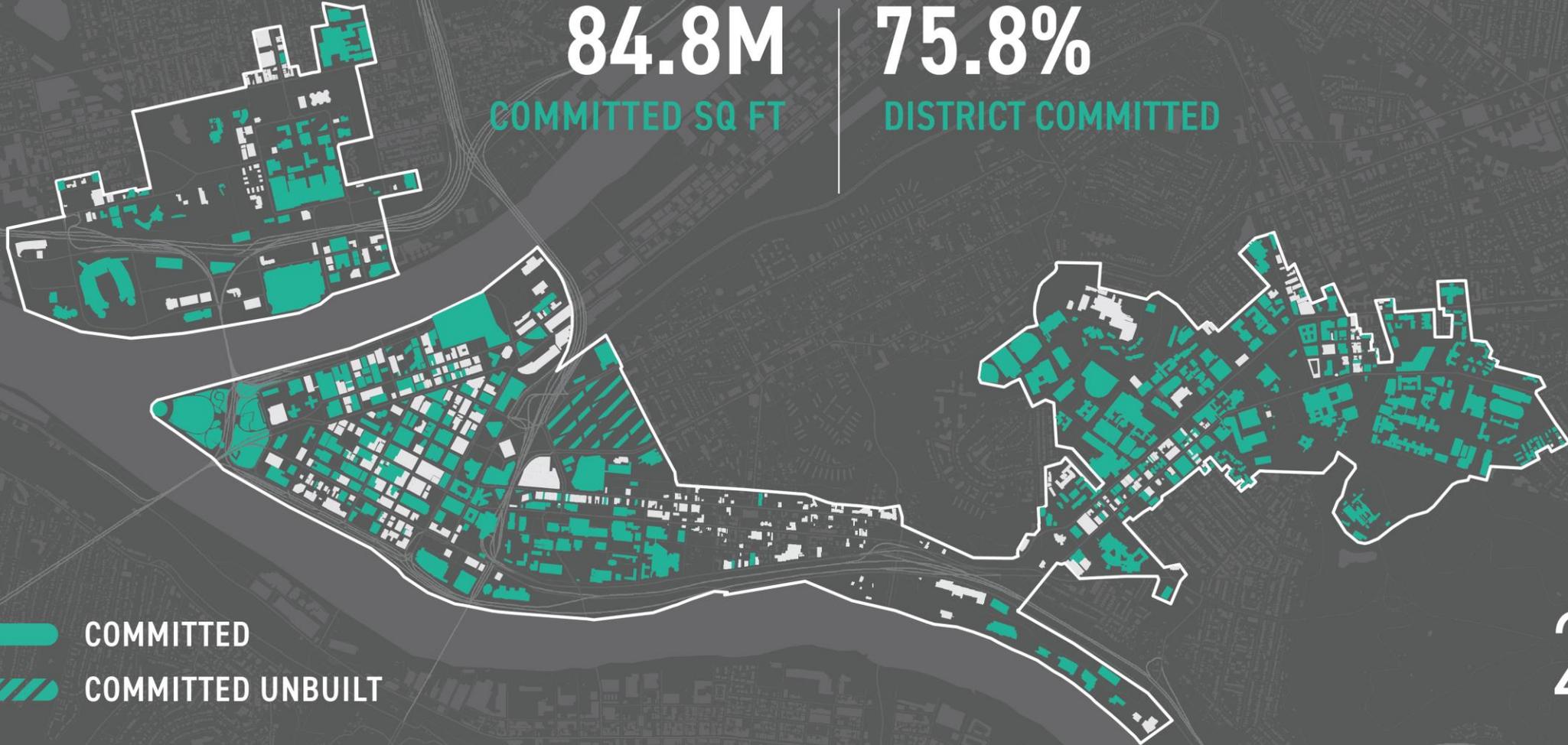
540 BUILDINGS
COMMITTED

84.8M
COMMITTED SQ FT

75.8%
DISTRICT COMMITTED

 COMMITTED
 COMMITTED UNBUILT

2019



106 Property Partners

808 Penn Lofts

ALCO Parking

Allegheny Center Alliance Church

Allegheny County

Allegheny Health Network

ALSAB

Ansaldo STS

Arconic

Avenu

Bellefield Presbyterian Church

Benedum Trees

Blind & Vision Rehabilitation Services

BNY Mellon

Boy Scouts of America

Braskem America

Burns Scalo Real Estate

Carlow University

Carlyle Condominium

Carnegie Library of Pittsburgh

Carnegie Mellon University

Carnegie Museums

Catholic Diocese of Pittsburgh

Central Catholic High School

Children's Museum of Pittsburgh

City of Pittsburgh

Clearway Energy

Community College of Allegheny County

Dollar Bank

Drs. Werrin & Gruendel PC

Duquesne University

Elmhurst Group

Fairmont Pittsburgh

Faros Properties

First Presbyterian Church

Fort Pitt Block House Society

Forwood Group

106 Property Partners

Gateway Towers Condominium

General Nutrition Centers

General Services Administration

Giant Eagle

Gidas Flowers

Healthcare Trust of America

Heinz History Center

Henderson Brothers

Hertz Investment Group

Highmark

Highwoods Properties

Iron City Ventures

JDM Properties + Glenmore Ave.
Associates

JLL

Kossman Development

Life'sWork of Western PA

M&J Wilkow

McKnight Property Management

Meyer's Management

Mike Wu

Millcraft

Murland Associates

National Aviary

NDC Asset Management

Neighborhood Legal Services

Newmark Knight Frank

Nine on Nine

Oakland Planning and Development
Corporation

Oakland Real Estate

O'Loughlin Company

Osterling Business Partners

Oxford Development

Penn Ave Renaissance

Pennsylvania Department of
Conservation and Natural Resources

106 Property Partners

Peoples Gas

Peter's Pub

Phipps Conservatory and Botanical Gardens

Pittsburgh Allegheny County Thermal

Pittsburgh Cultural Trust

Pittsburgh Gateways

Pittsburgh Parking Authority

Pittsburgh Parks Conservancy

Pittsburgh Penguins

Pittsburgh Pirates

Pittsburgh Real Estate Team

Planned Parenthood

PNC Financial Services Group

Point Park University

PSSI/Pittsburgh Steelers

Residences at Wood Street

Rodef Shalom Congregation

Rugby Realty

Shorenstein

Soldiers & Sailors Memorial Hall & Museum Trust

Specialty Luggage

Sports & Exhibition Authority of Pittsburgh and Allegheny County

St. Nicholas Greek Orthodox Cathedral

The Davis Companies

The Ferchill Group

Trek Development Group

University of Pittsburgh

UPMC

Urban Redevelopment Authority of Pittsburgh

Western Pennsylvania School for Blind Children

Westin Hotel

Winghart's Whiskey & Burger Bar

Winthrop Management

WQED Multimedia

Wyndham Pittsburgh University Center

YWCA Greater Pittsburgh

2018-2019 New Property Partners

Avenu

Blind & Vision
Rehabilitation Services

CCAC

Giant Eagle

JLL

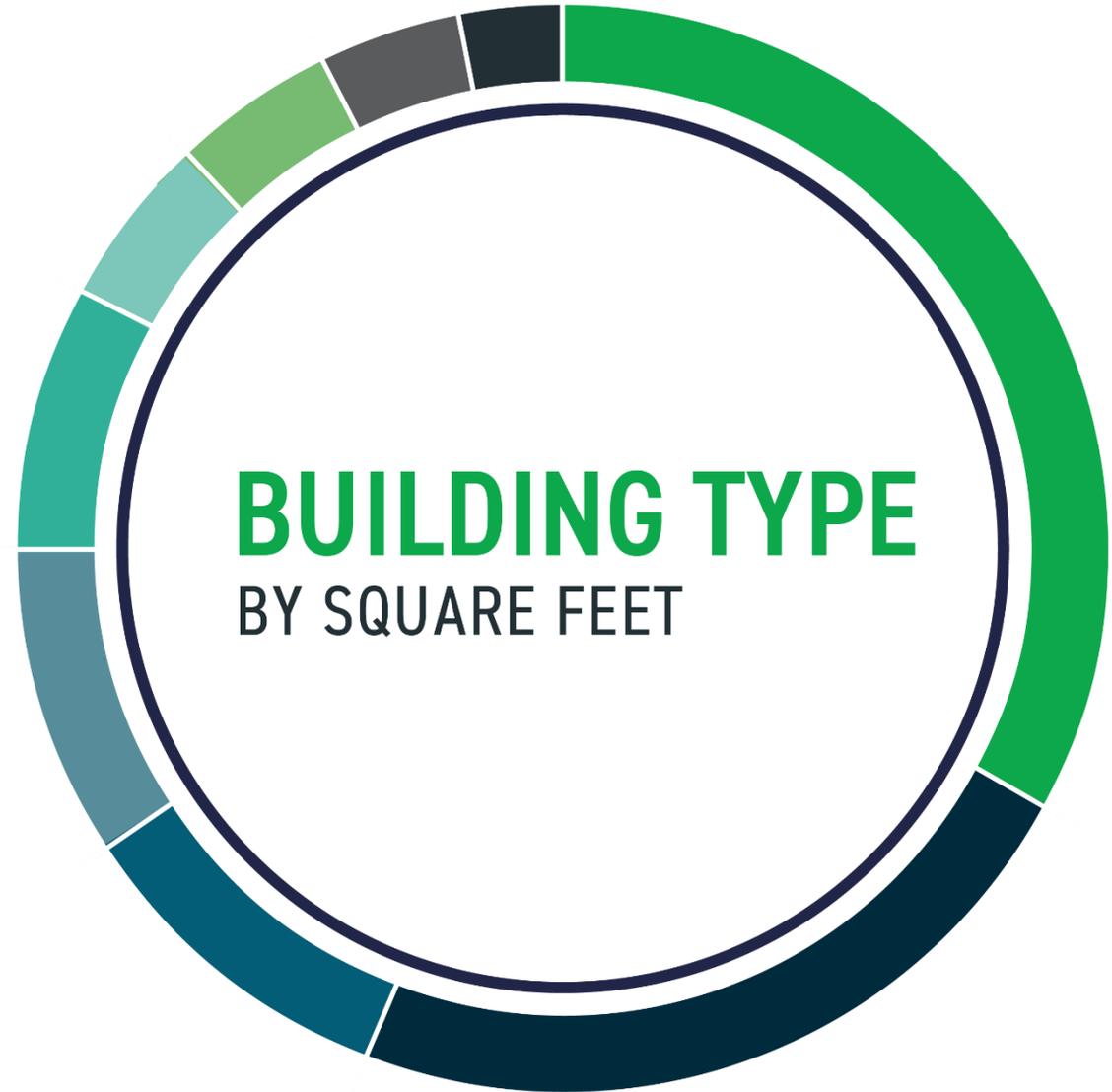
Life'sWork of Western PA

National Aviary

NDC Asset Management

The Davis Companies

- OFFICE
- UNIVERSITY
- PARKING
- MEDICAL
- OTHER
- COURTHOUSE
- ARTS
- LABORATORY
- MULTIFAMILY



32 Community Partners

AIA Pittsburgh

Allegheny Conference on
Community Development

Allegheny County Health
Department

Allegheny County, County
Executive, Rich Fitzgerald

ASHRAE - Pittsburgh

Bike Pittsburgh

Building Owners & Managers
Association of Pittsburgh

Citizens for Pennsylvania's Future

City of Pittsburgh, Office of the
Mayor, William Peduto

Conservation Consultants, Inc.

Group Against Smog and Pollution

32 Community Partners

Healthy Ride

International Facility
Management Association,
Pittsburgh Chapter

International Living Future
Institute

International Union of Operating
Engineers, Local 95

Master Builders' Association of
Western Pennsylvania

NAIOP Pittsburgh

Northside/Northshore Chamber
of Commerce

Oakland Business Improvement
District

Oakland Planning and
Development Corporation

Oakland Task Force

32 Community Partners

Oakland Transportation
Management Association

Pennsylvania Environmental
Council

Pittsburgh Downtown CDC

Pittsburgh Downtown Partnership

Pittsburgh Parks Conservancy

Riverlife

Student Conservation Association

Sustainable Pittsburgh

ULI Pittsburgh

Uptown Partners of Pittsburgh

VisitPittsburgh

12 Resource Partners

Architecture 2030

Bridgeway Capital

Clearway Energy

Direct Energy Business

Duquesne Light

Keystone Energy
Efficiency Alliance

Peoples Gas

Pittsburgh Allegheny County
Thermal

Pittsburgh Water and Sewer
Authority

Port Authority of Allegheny
County

Southwestern Pennsylvania
Commission

Urban Redevelopment Authority
of Pittsburgh

A Network of Influence

35+

SECTORS
ALIGNED

166

DISTRICT
PARTNERS

62

TECHNICAL
CONSULTATIONS

1,178

EVENT PARTICIPANTS



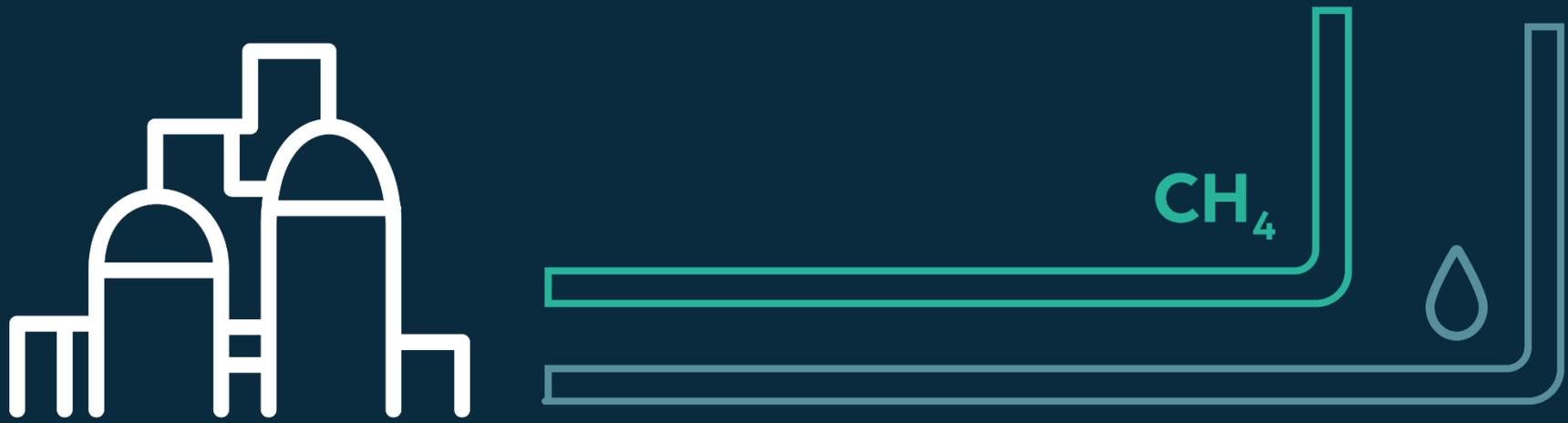
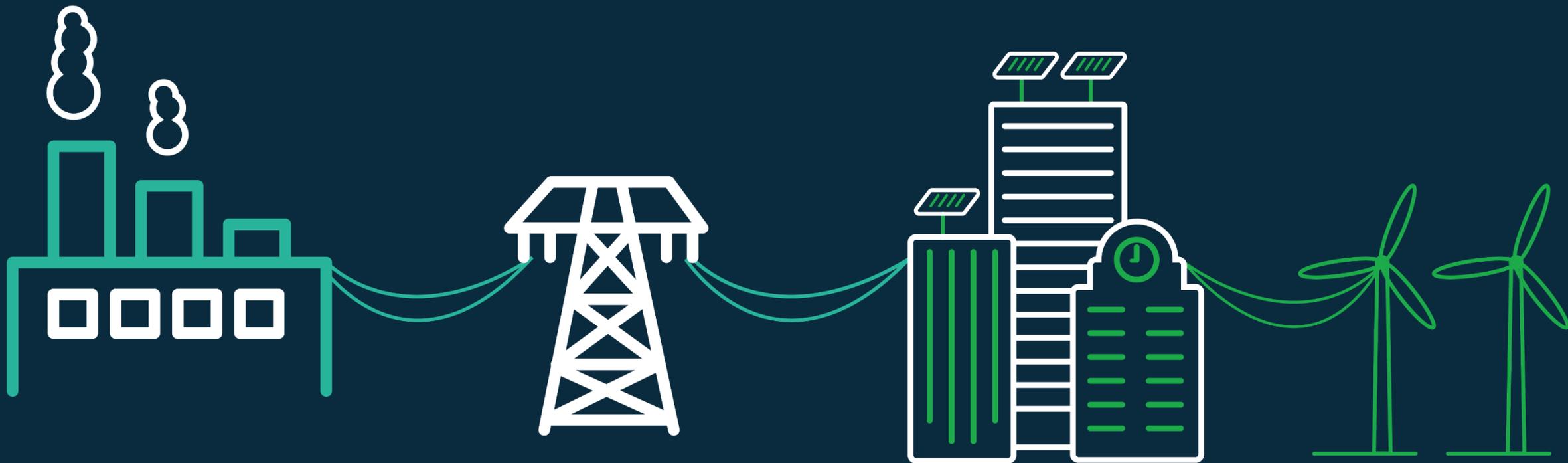


2018

PERFORMANCE

2018

ENERGY PERFORMANCE



What is Energy Use Intensity?



TOTAL ANNUAL ENERGY USE (kBtu)

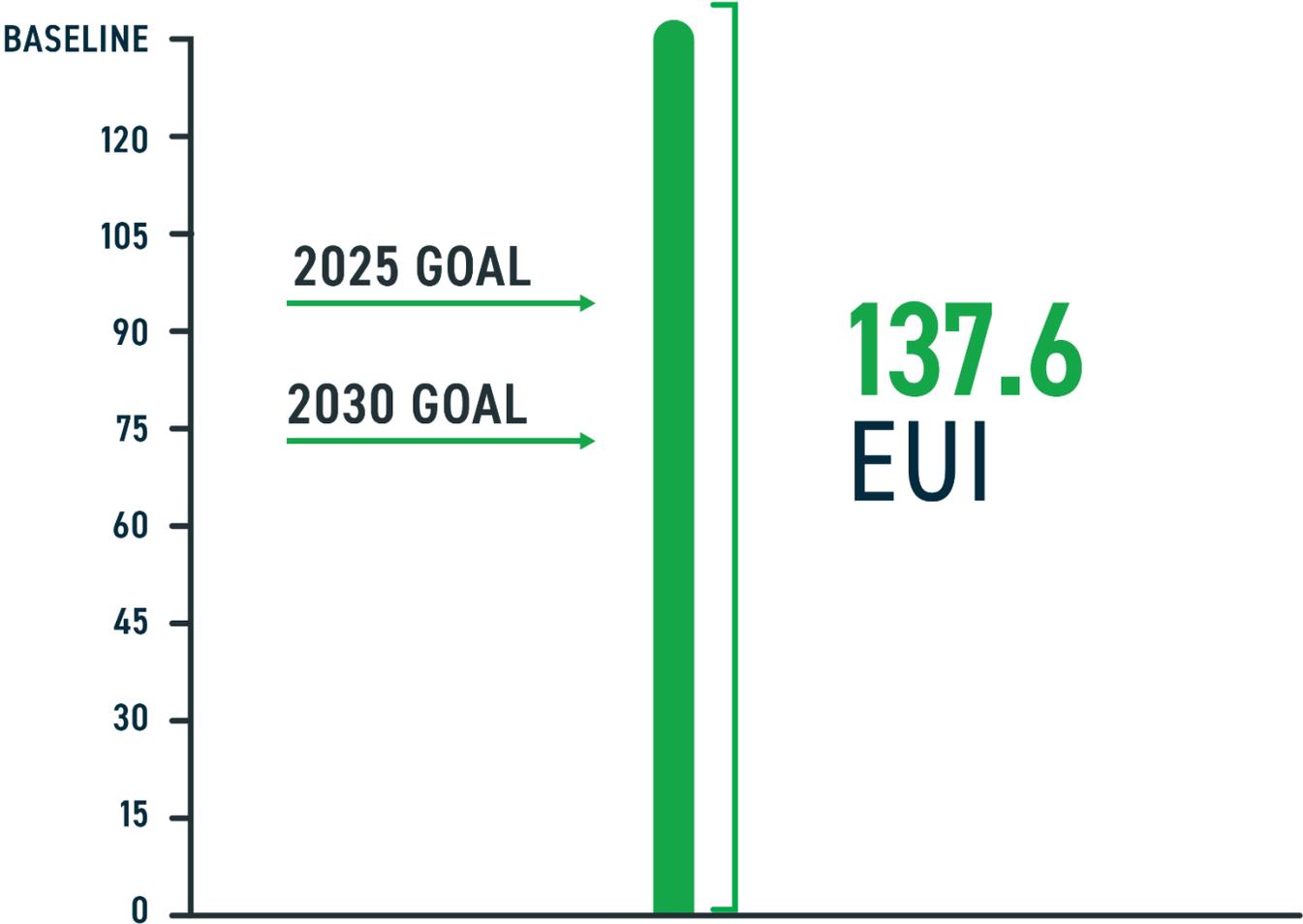
BUILDING AREA SQUARE FEET

= EUI

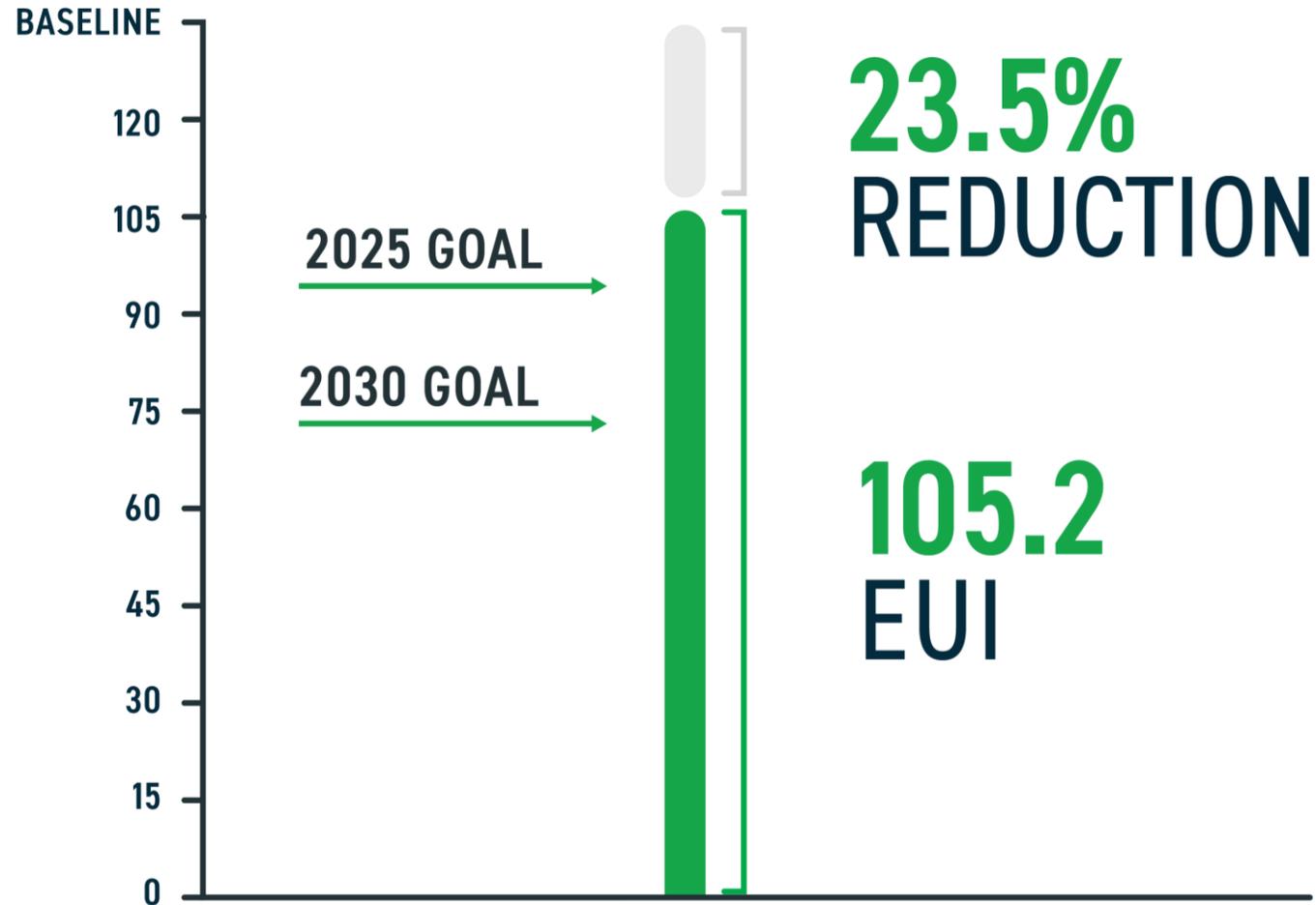
kBtu / sqft PER YEAR

The diagram illustrates the calculation of Energy Use Intensity (EUI). It features a lightbulb icon on the left, representing energy use, with the text '(kBtu)' inside it. To the right of the lightbulb is the text 'TOTAL ANNUAL ENERGY USE' in white, with 'ENERGY USE' in green. A large white division symbol (÷) is positioned to the right of the energy use text. To the right of the division symbol is a grid of 12 squares arranged in three rows and four columns. The top row has two green squares and two white squares. The middle row has two green squares and two white squares. The bottom row has two green squares and two white squares. Below the grid is the text 'BUILDING AREA SQUARE FEET' in white, with 'SQUARE FEET' in green. To the right of the grid is a large white equals sign (=). To the right of the equals sign is the text 'EUI' in large white letters. Below 'EUI' is the text 'kBtu / sqft PER YEAR' in green.

2018 Energy Baseline



2018 Energy Reduction



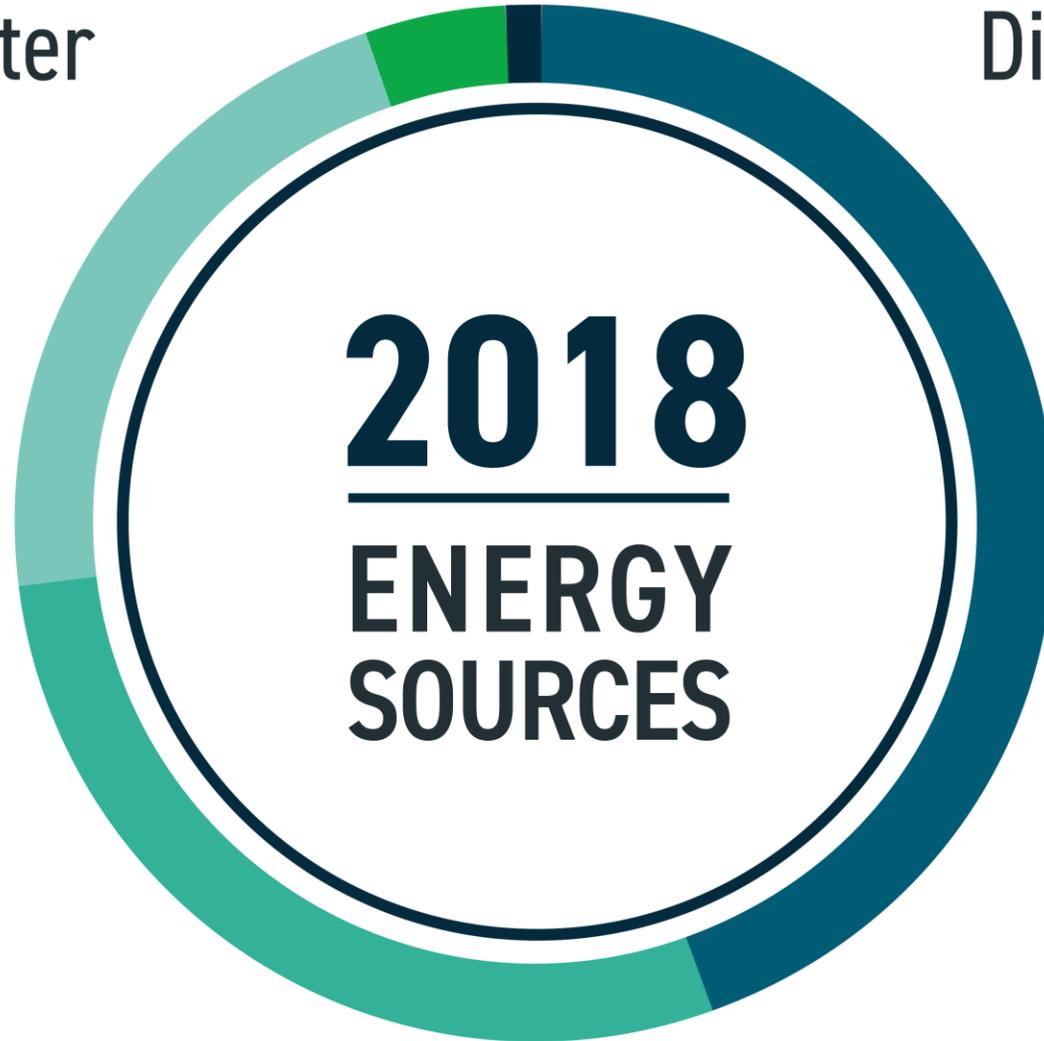
5.4%
District Chilled Water

0.3%
District Hot Water

18.9%
Natural Gas

30.2%
District Steam

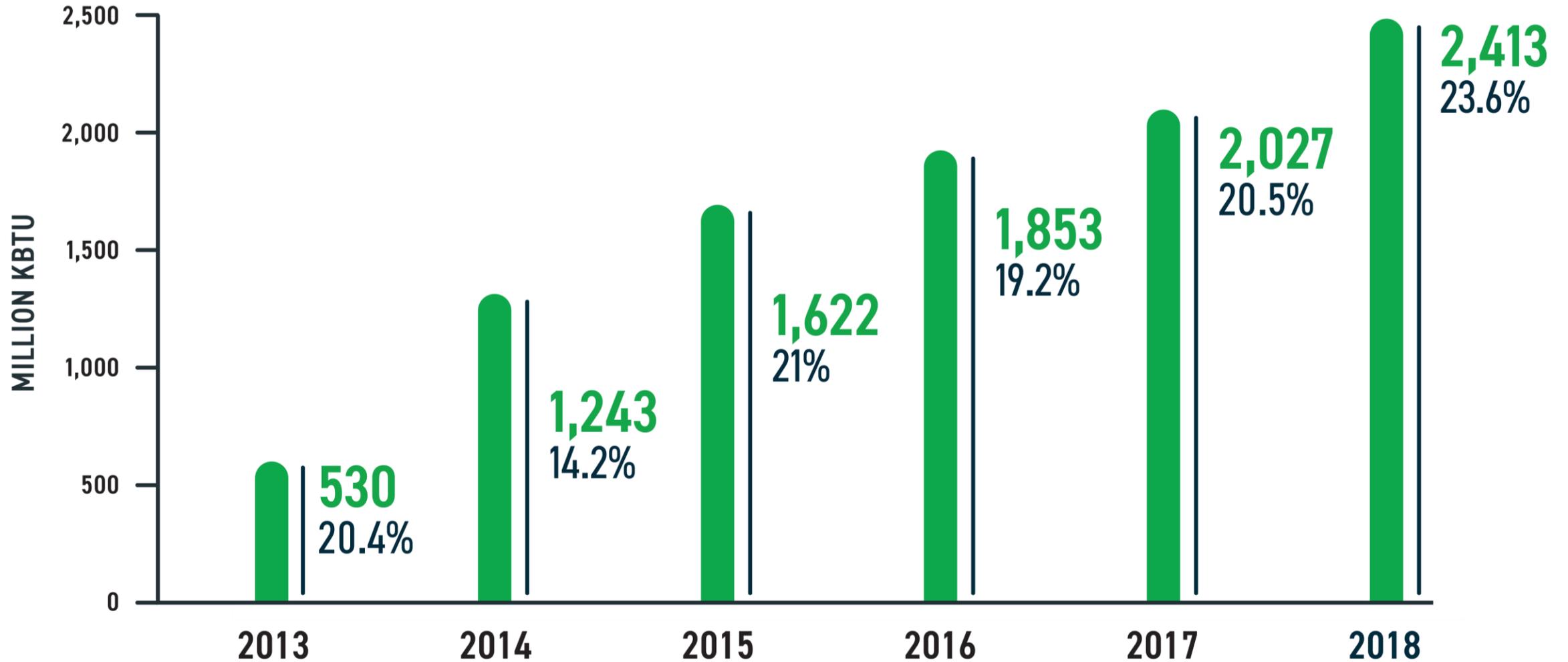
45.2%
Electric





10%
Renewable
Energy

Energy Avoided by Year

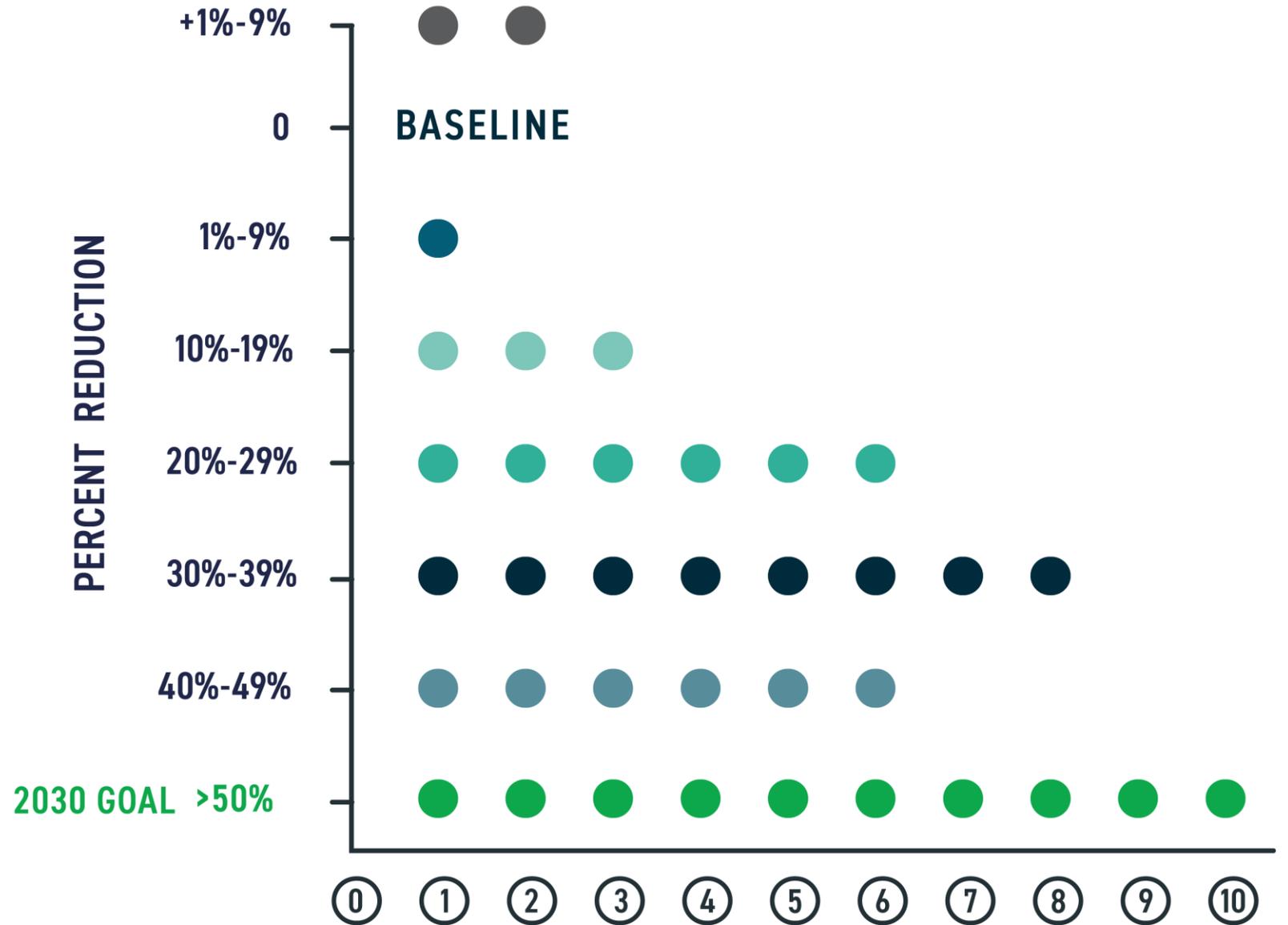




— SINCE 2012 —

\$115 MILLION
DOLLARS SAVED

PITTSBURGH
OFFICE
BUILDINGS
ABOVE
150,000
SQ FT



National Office Comparison

WASHINGTON, DC⁺

70.4

PHILADELPHIA

80.8

CHICAGO⁺

80.9

PITTSBURGH 2030 DISTRICT⁺

80.9

BOSTON

82.1

NEW YORK⁺

85.8

+weather normalized

The background is a solid teal color. It features several abstract, flowing white lines of varying thicknesses that create a sense of movement and depth. A prominent, thick dark blue line curves from the top right towards the bottom right. The overall aesthetic is clean, modern, and professional.

WATER

PERFORMANCE

2018

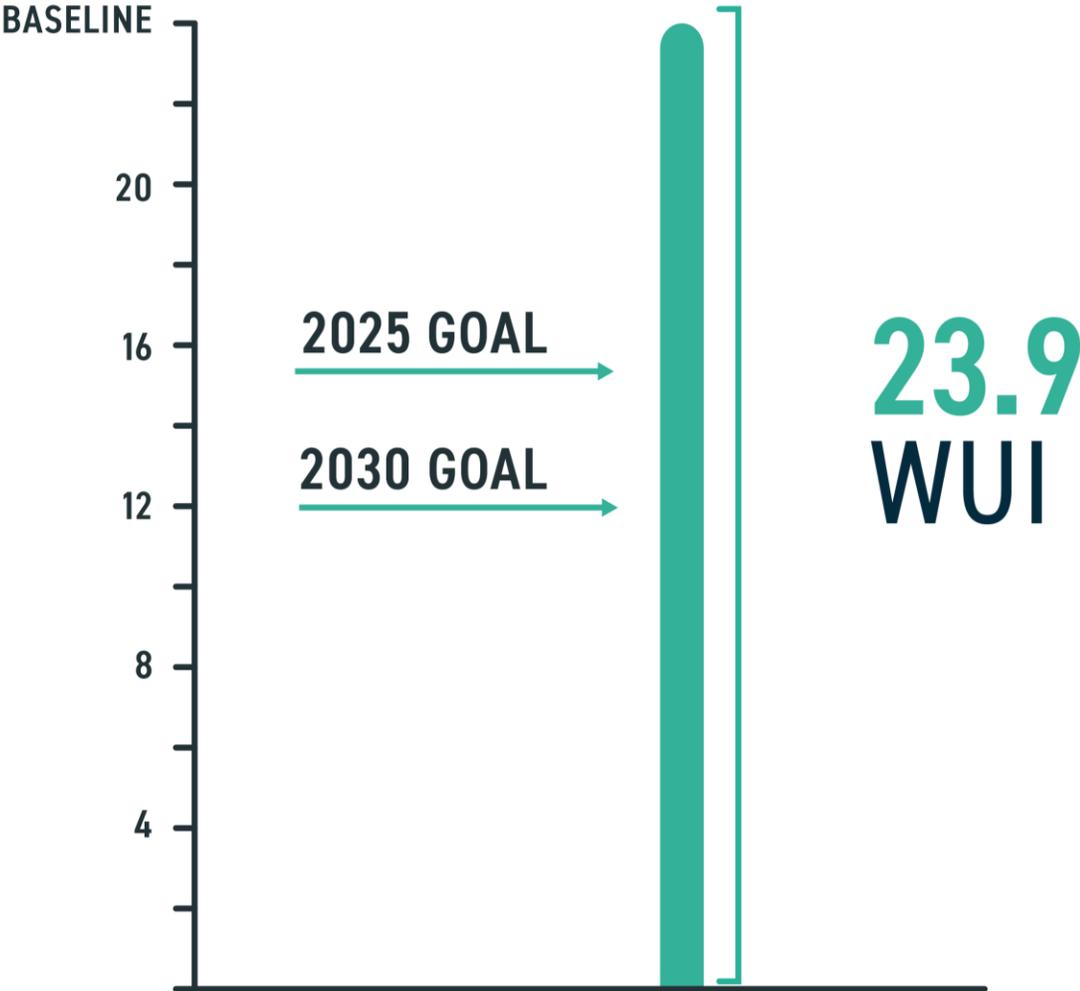
What is Water Use Intensity?


$$\begin{array}{l} \text{TOTAL ANNUAL} \\ \text{WATER} \\ \text{USE} \end{array} \div \begin{array}{l} \square \quad \square \\ \square \quad \square \\ \square \quad \square \quad \square \\ \square \quad \square \end{array} = \text{WUI}$$

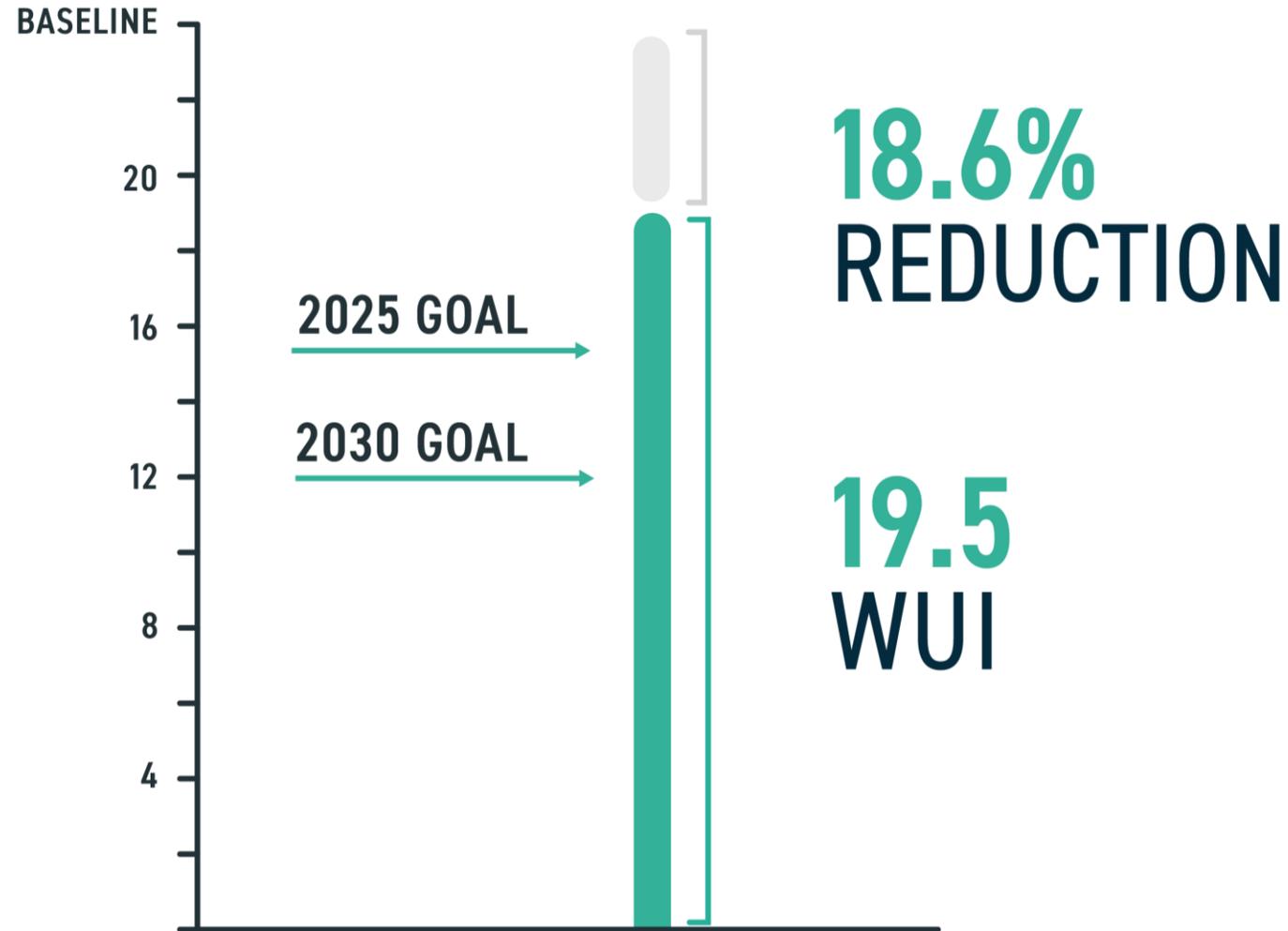
**BUILDING
AREA
SQUARE FEET**

**gallons / sqft
PER YEAR**

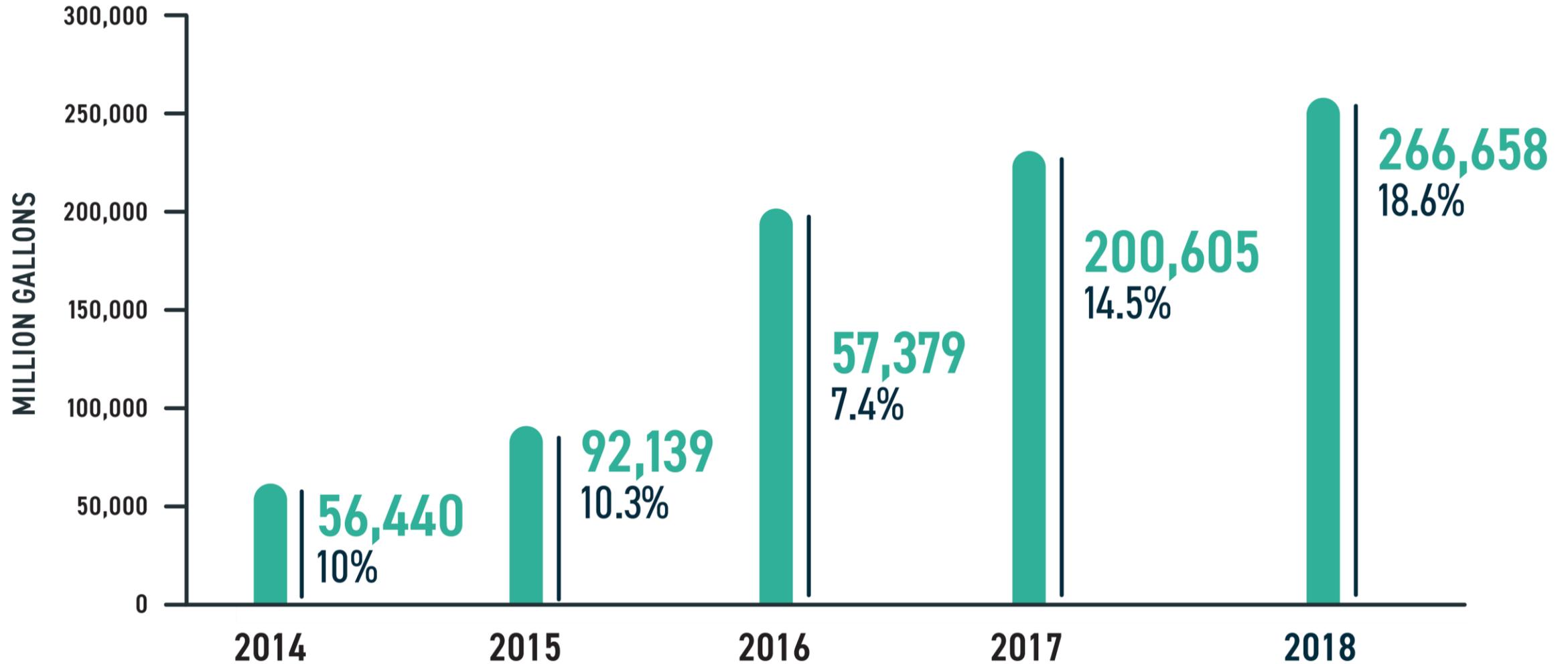
2018 Water Baseline



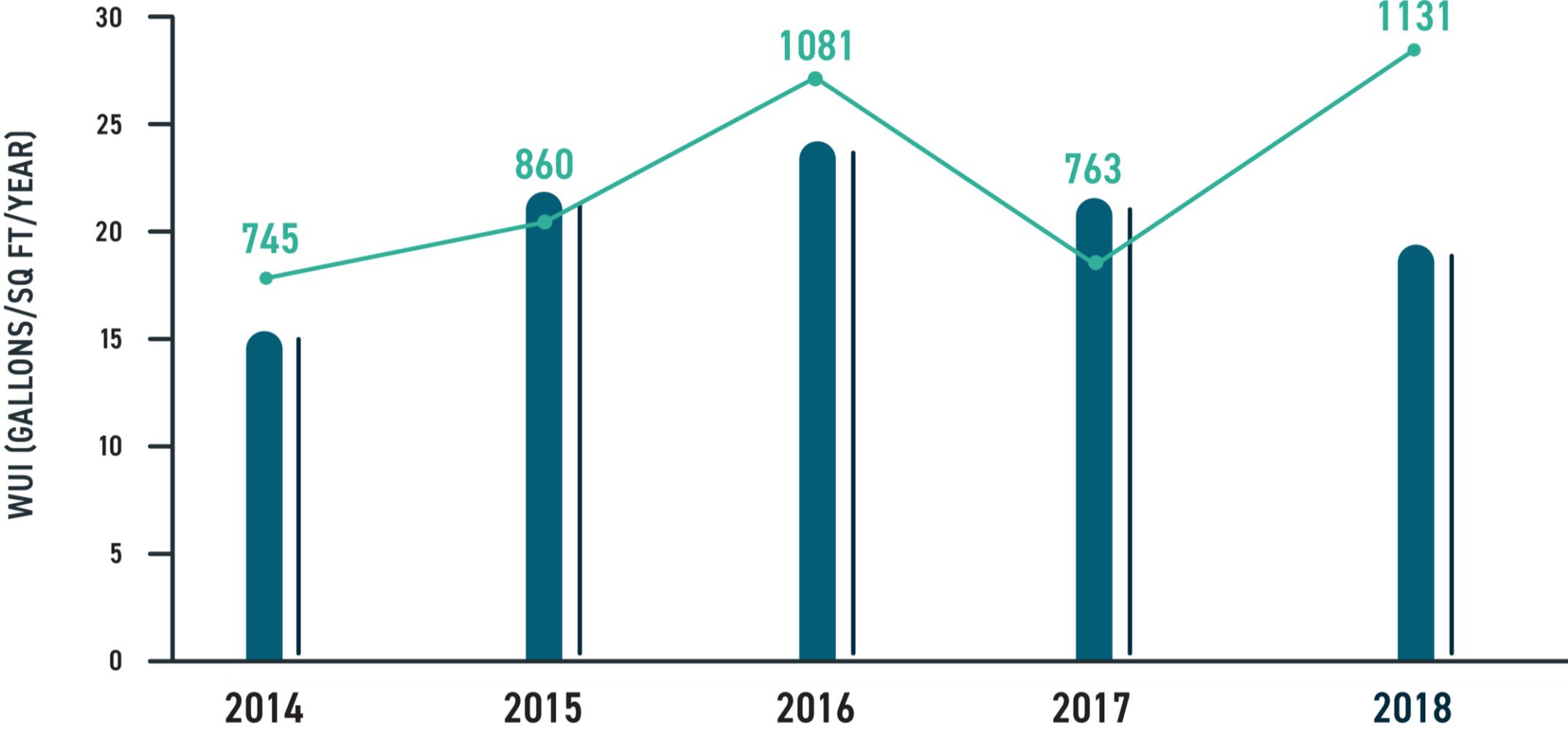
2018 Water Reduction



Water Avoided by Year



Water Use vs. Cooling Degree Days





— SINCE 2012 —

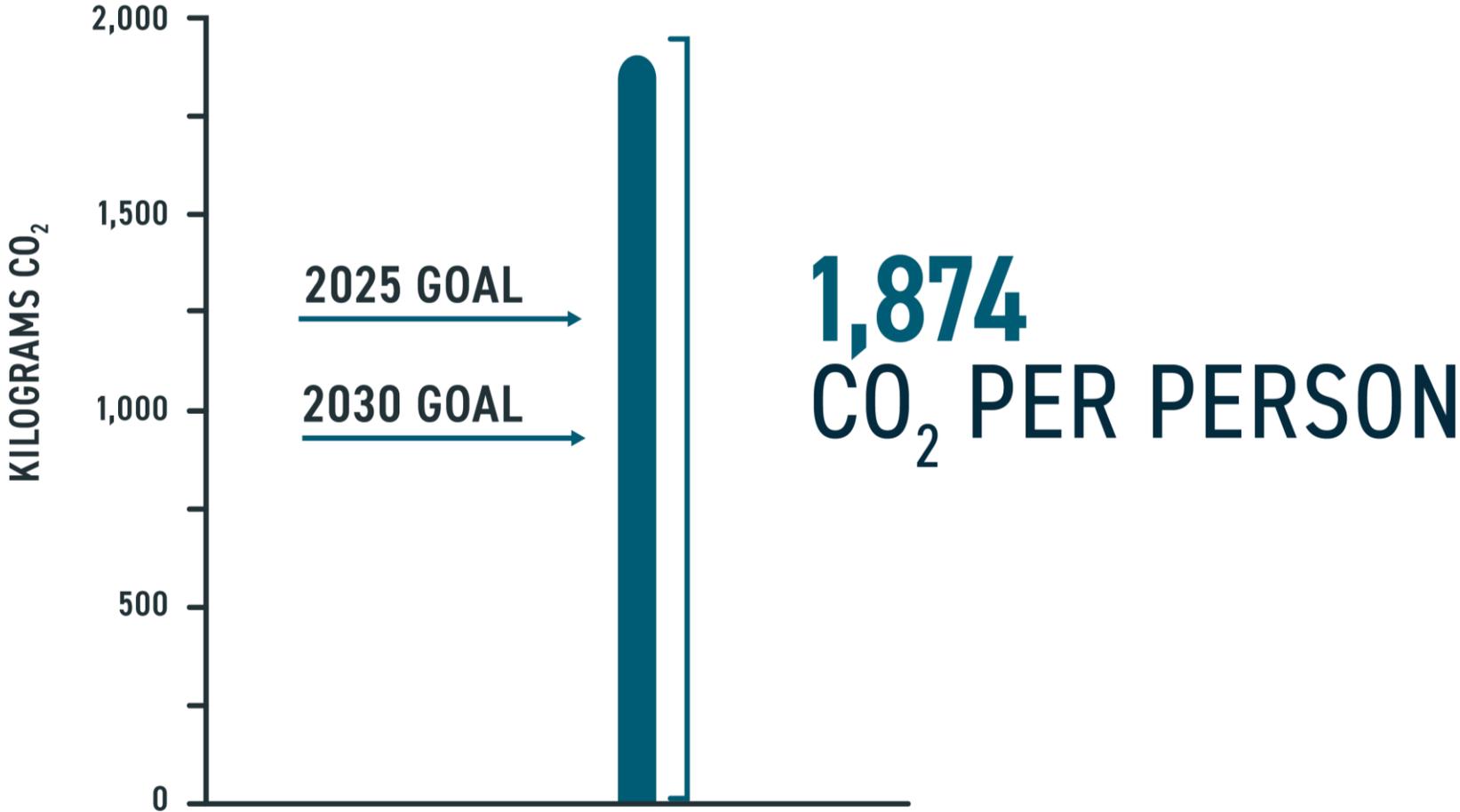
\$20 MILLION

DOLLARS SAVED

The background is a dark teal color with several abstract, overlapping lines in a lighter teal and white. These lines form various shapes, including loops and curves, creating a dynamic and modern aesthetic. The text is centered and consists of two lines: 'TRANSPORTATION' in white and 'PERFORMANCE' in a lighter teal color.

TRANSPORTATION PERFORMANCE

2018 Transportation Baseline



make **My**
trip **count**



Transportation Partners

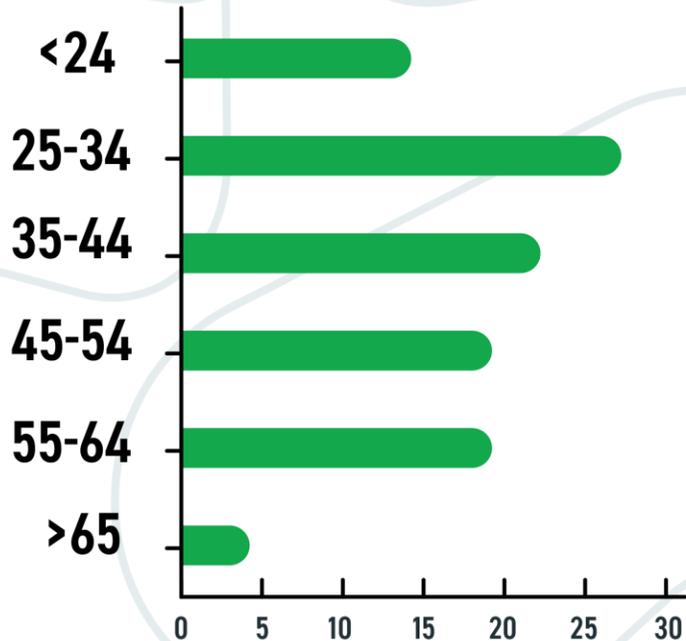


146,240,400

TOTAL MILES TRAVELED

MAKE MY TRIP COUNT

AGE BREAKDOWN



20,310

RESPONDENTS

10%

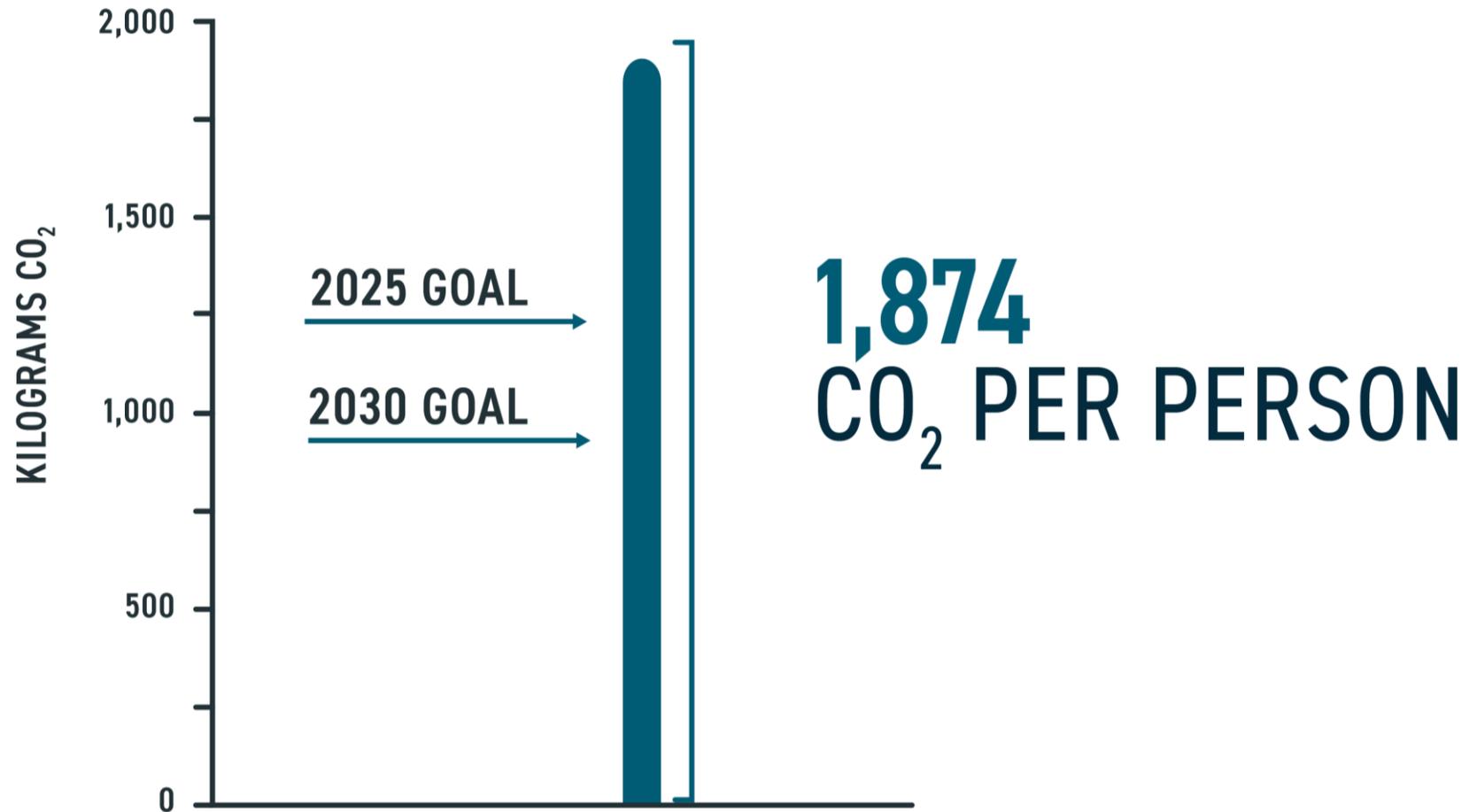
TOTAL COMMUTERS



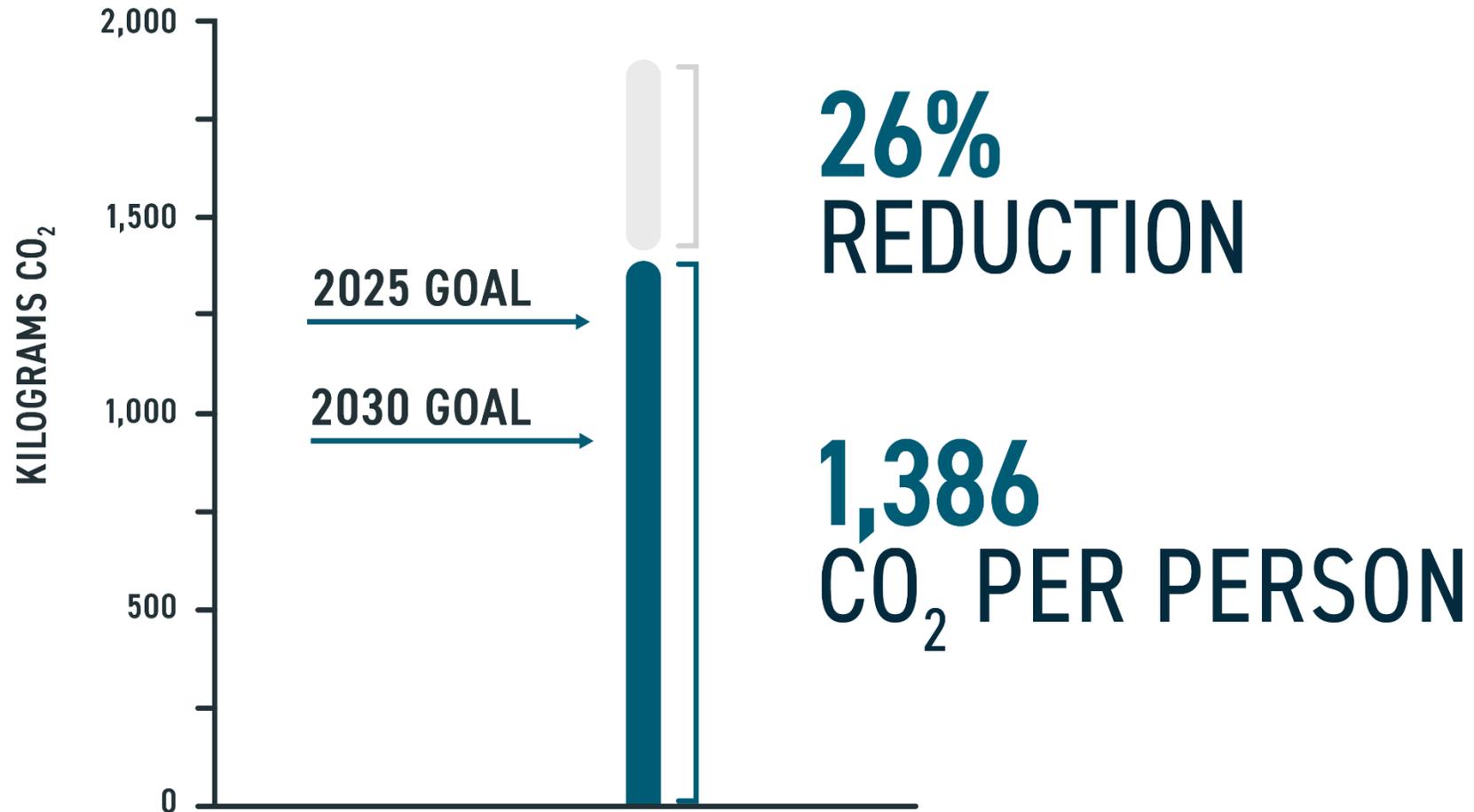
48%
Female

51%
Male

2018 Transportation Baseline

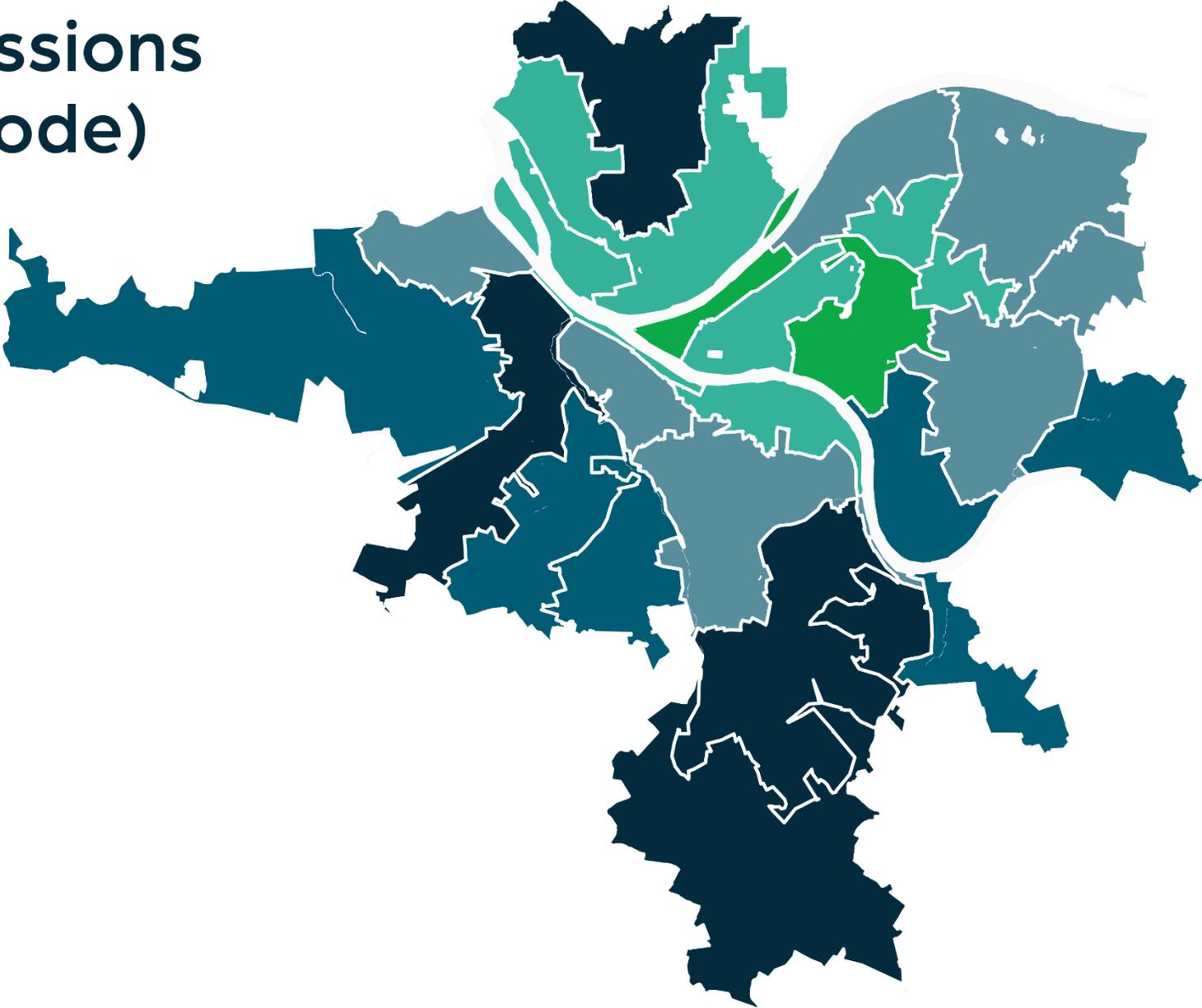
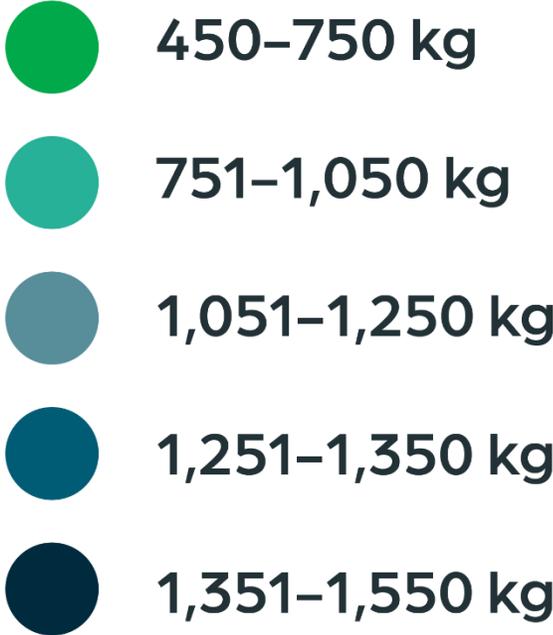


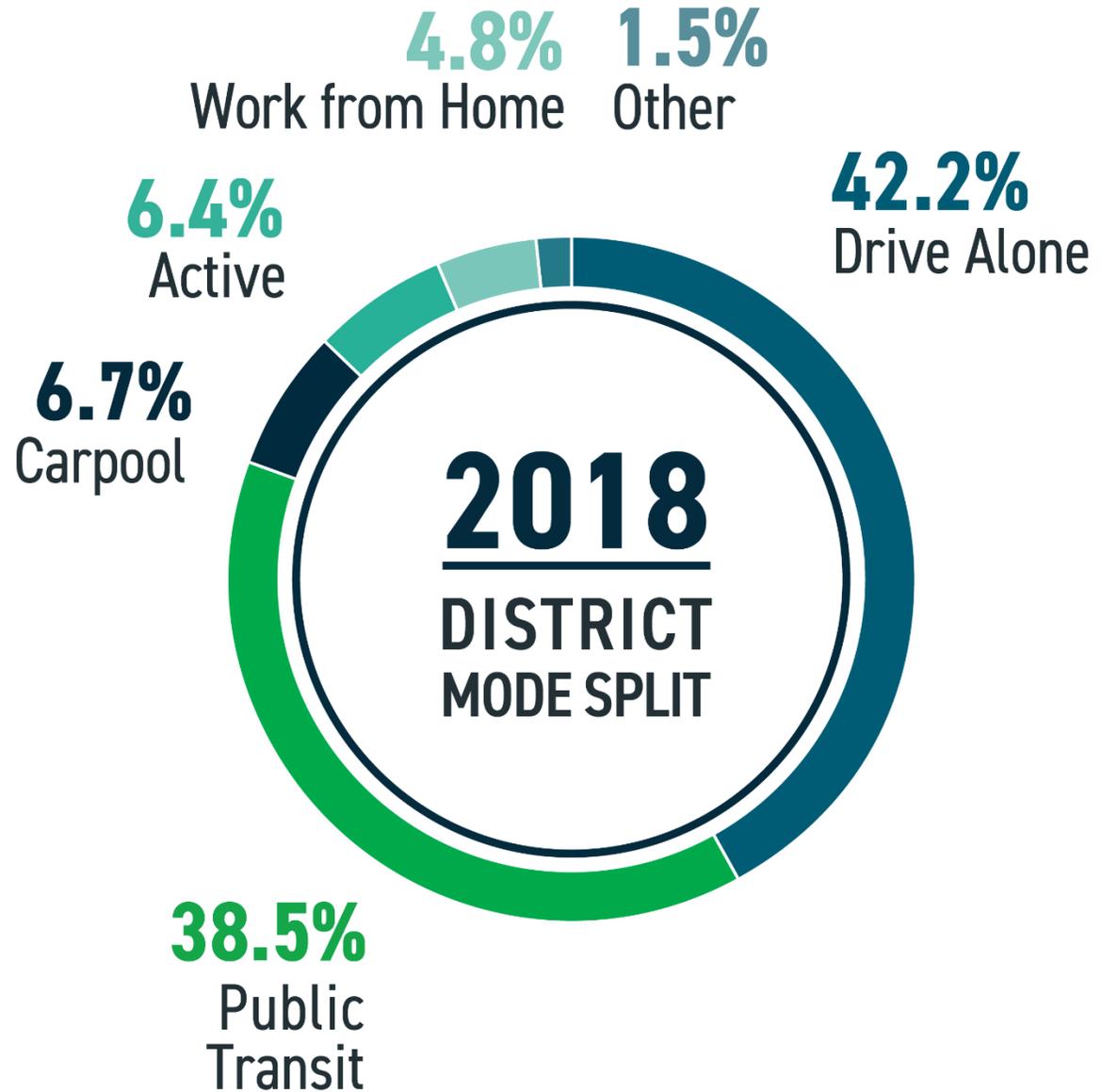
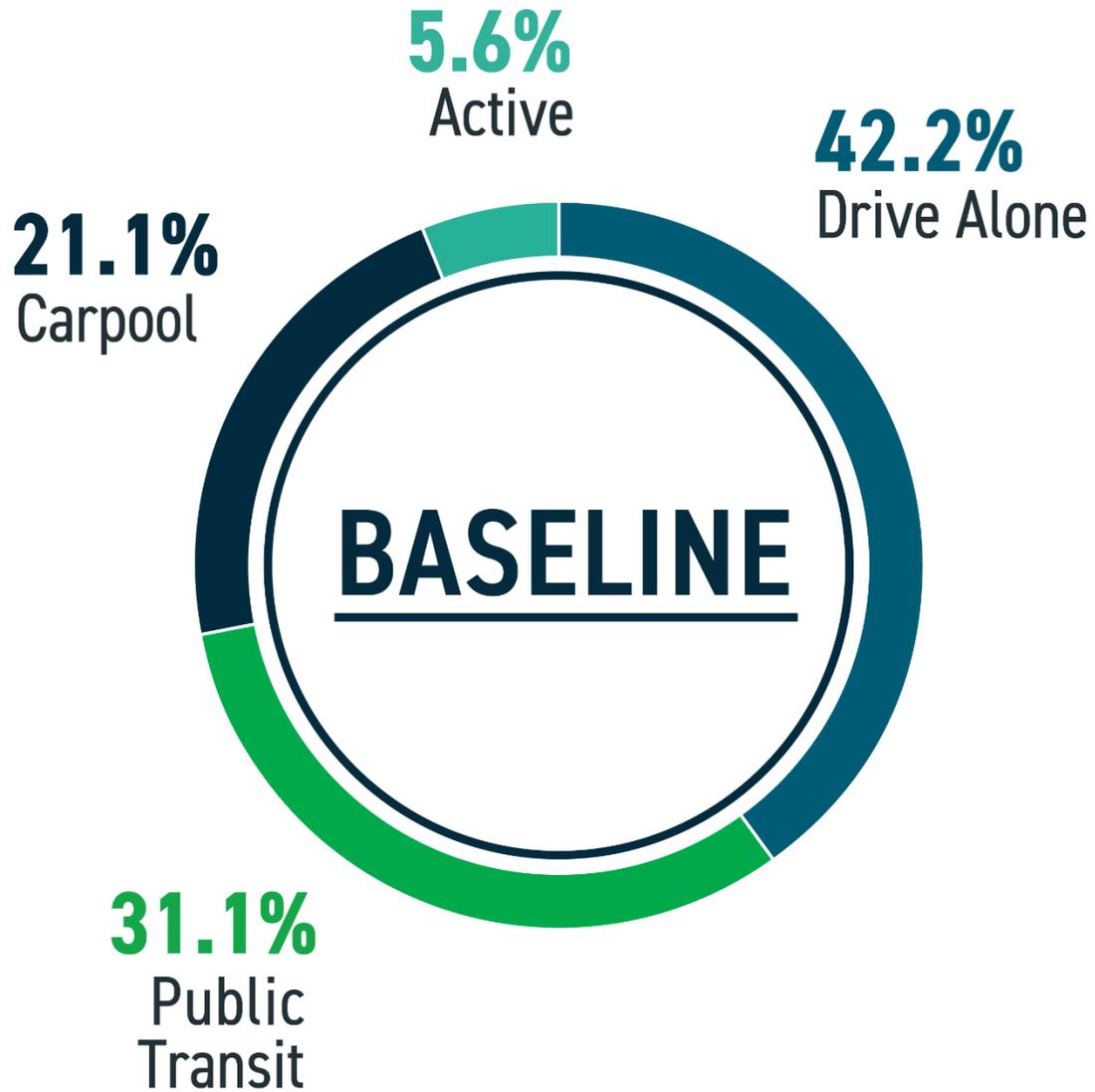
2018 Transportation Reduction



Average Annual Emissions per Person (by Zip Code)

CO₂ Emissions





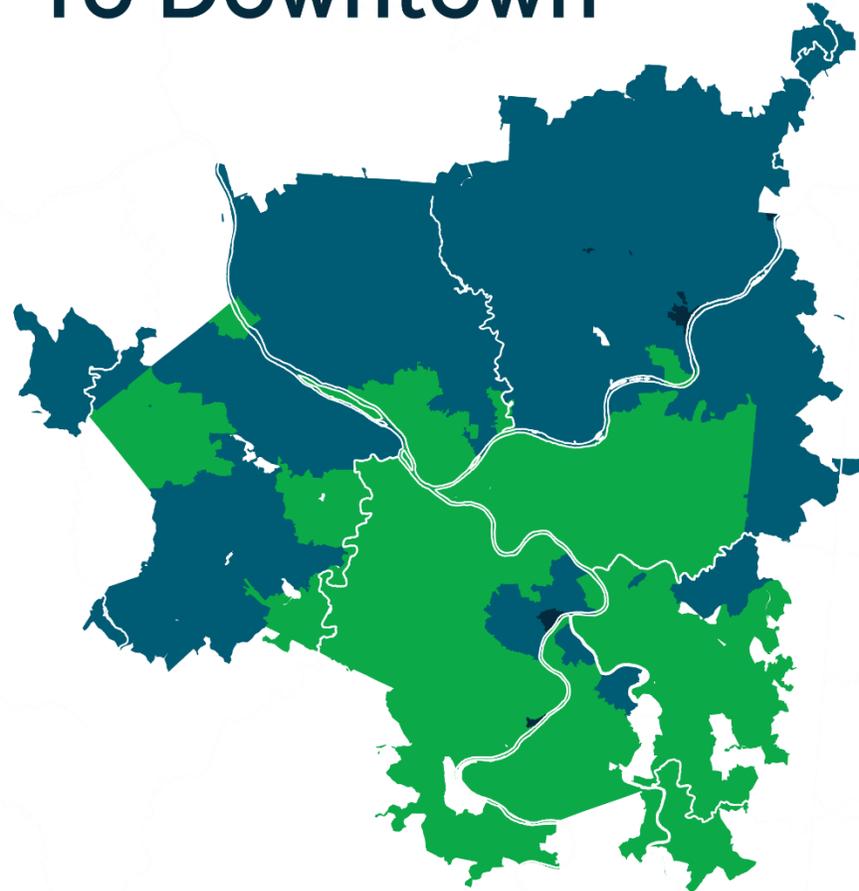
Commuter Choices

● NEARLY ALL TRIPS ● MORE THAN HALF ● LESS THAN HALF ● LESS THAN A QUARTER ● FEW TRIPS

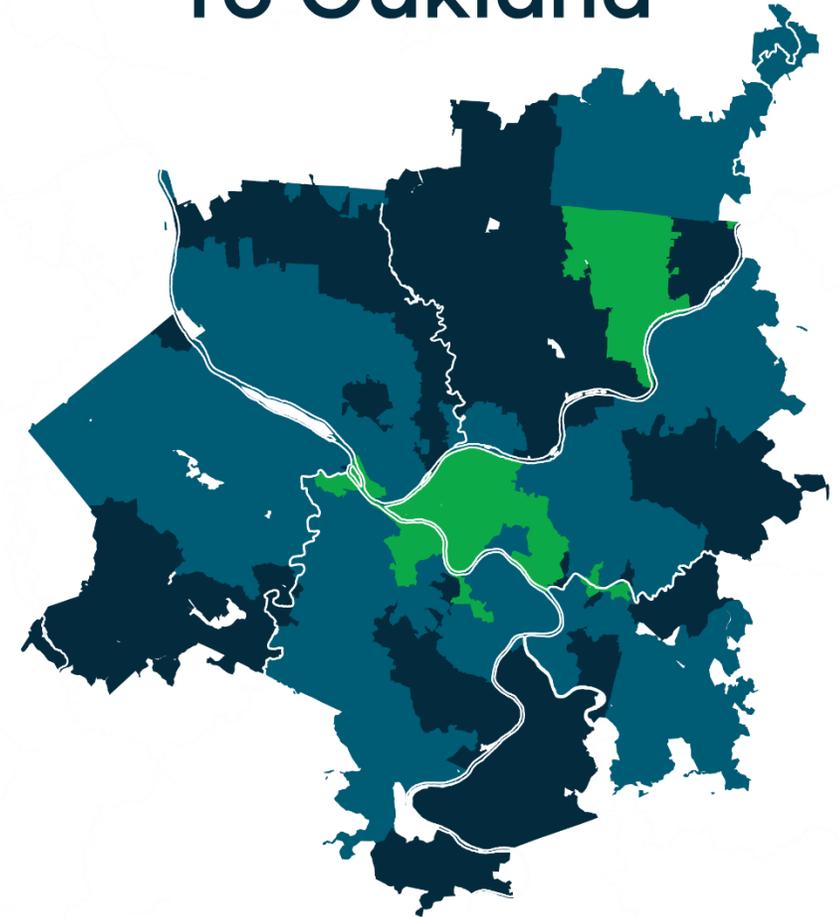


Single Occupancy Vehicle Use

To Downtown



To Oakland



SOV Trips

-  Less than 50%
-  50%-75%
-  More than 75%



AIR QUALITY PERFORMANCE

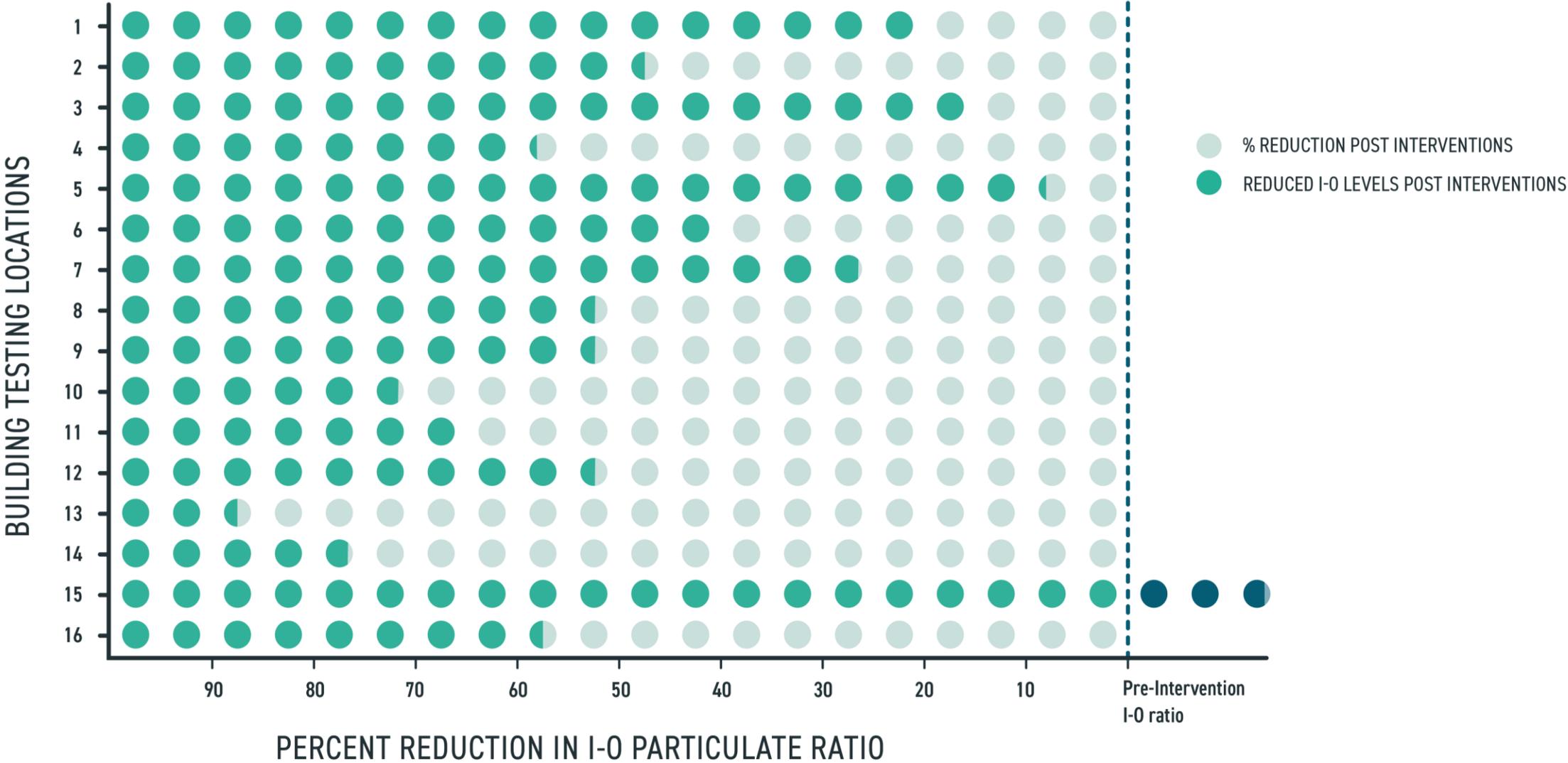
2018

EMPLOYERS SPEND
92% OF THEIR ANNUAL
OPERATING COSTS
ON PEOPLE





Air Quality Interventions



Air Quality Interventions

Walk-off mats

Green cleaning program

Standalone air filters

Window opening restrictions

No idling zones

Smoking ban at air intakes and entrances

2018 PERFORMANCE

23.5%

ENERGY REDUCTION

18.6%

WATER REDUCTION

26%

CO₂ REDUCTION

The background is a solid teal color. It features several abstract, hand-drawn style lines. A prominent dark blue line starts at the top left, curves down, and then goes back up towards the top right. A white line starts at the top left, curves down, and then goes back up towards the top right, following a similar path to the dark blue line but at a lower level. There are also many thin, light-colored lines scattered across the background, some forming loops and others being straight or slightly curved.

BUILDING IMPACT

CITYWIDE IMPACT



DISTRICT AFFILIATES

219

**BUILDINGS
COMMITTED**

7M

**COMMITTED
SQ FT**

20

**AFFILIATE
PARTNERS**

Pittsburgh 2030 District Affiliates

Allegheny County

A.W. Beattie Career Center

ASCEND Pittsburgh

Butler Area School District

CCAC

Chatham University

City of Pittsburgh

DMI International

Environmental Charter
School

Forest Hills Borough

Hazelwood Green

Hill House Association

Huth Technologies

Oxford Development

Pittsburgh Parking
Authority

Protohaven

Resurrection Church

Shady Side Academy

Waldorf School of
Pittsburgh

Walnut Capital

YWCA

ERIE
EMERGING
2030
DISTRICT[®]

ERIE 2030 DISTRICT

51

**BUILDINGS
COMMITTED**

2.4M

**COMMITTED
SQ FT**

10

**PROPERTY
PARTNERS**

Erie Property Partners

Benedictine Sisters of Erie

City of Erie

Emmaus Ministries

Erie Art Museum

Erie City Mission

Erie County

First Presbyterian Church of
the Covenant

Mercyhurst University

Sisters of St. Joseph of
Northwestern Pennsylvania

UPMC Hamot

Read more in the report





Green
Building
Alliance

2018

Pittsburgh 2030 District
**PROGRESS
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SIEMENS
Ingenuity for life