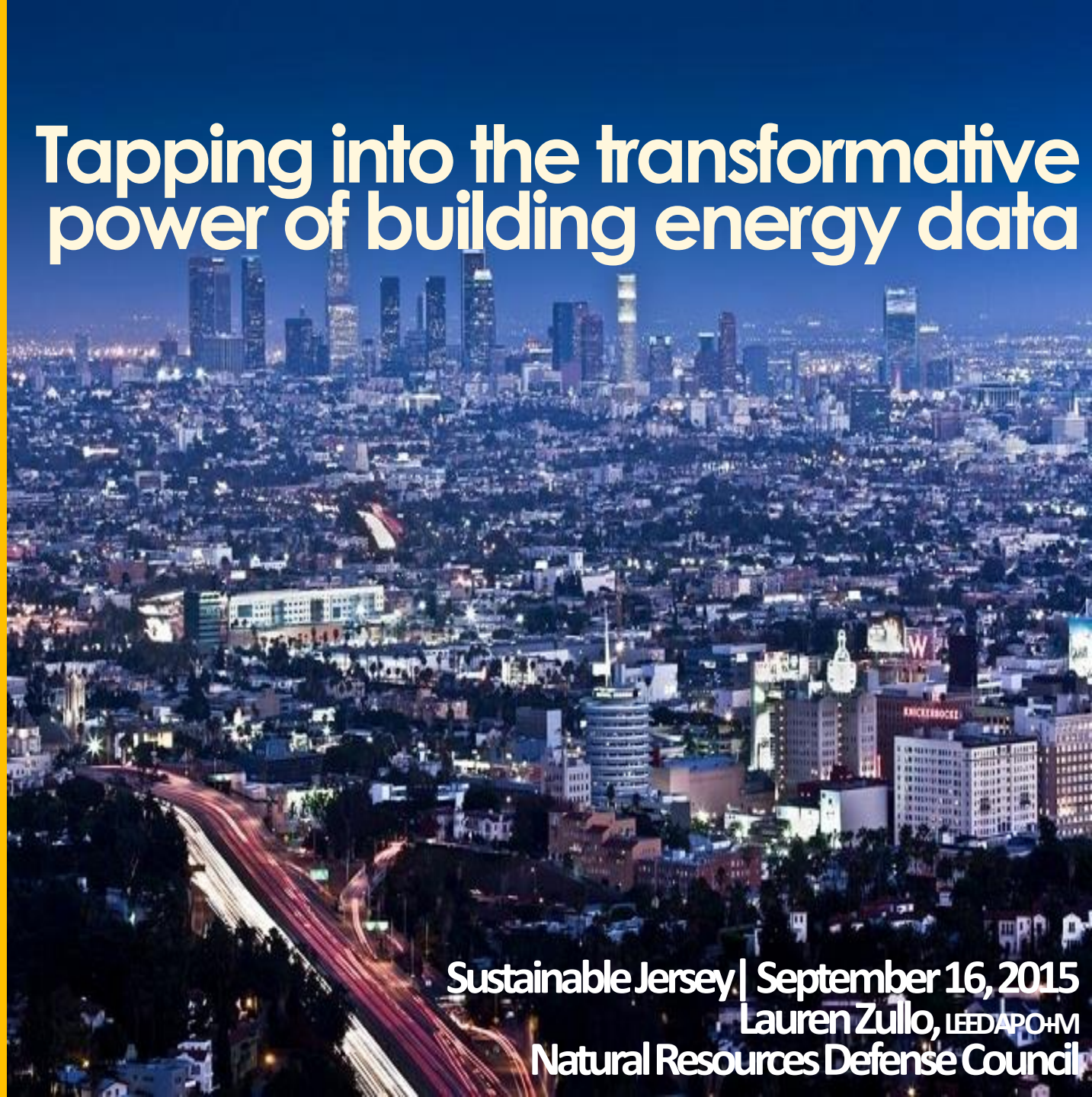
Center for Building Knowledge

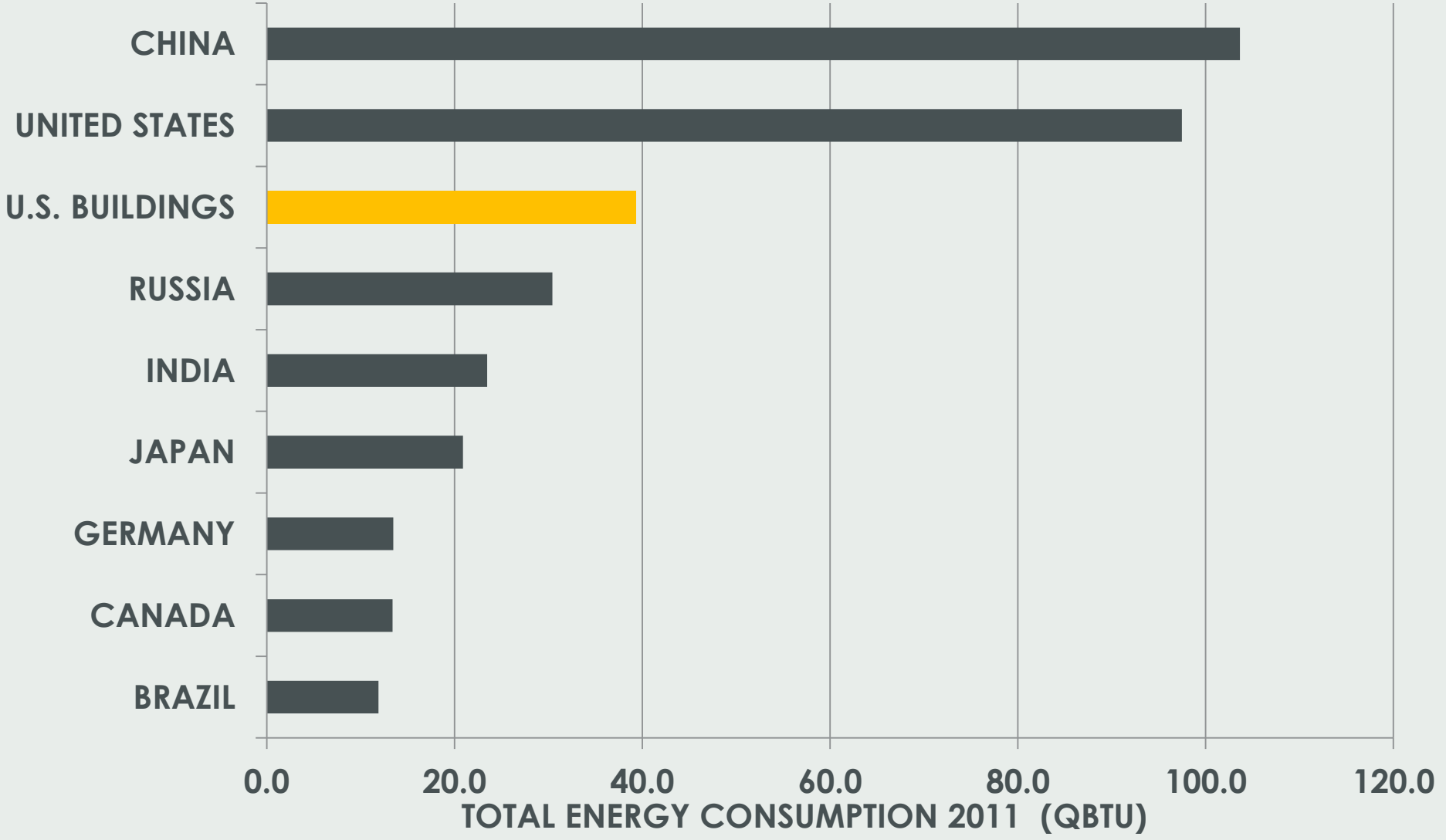
Tapping into the transformative power of building energy data



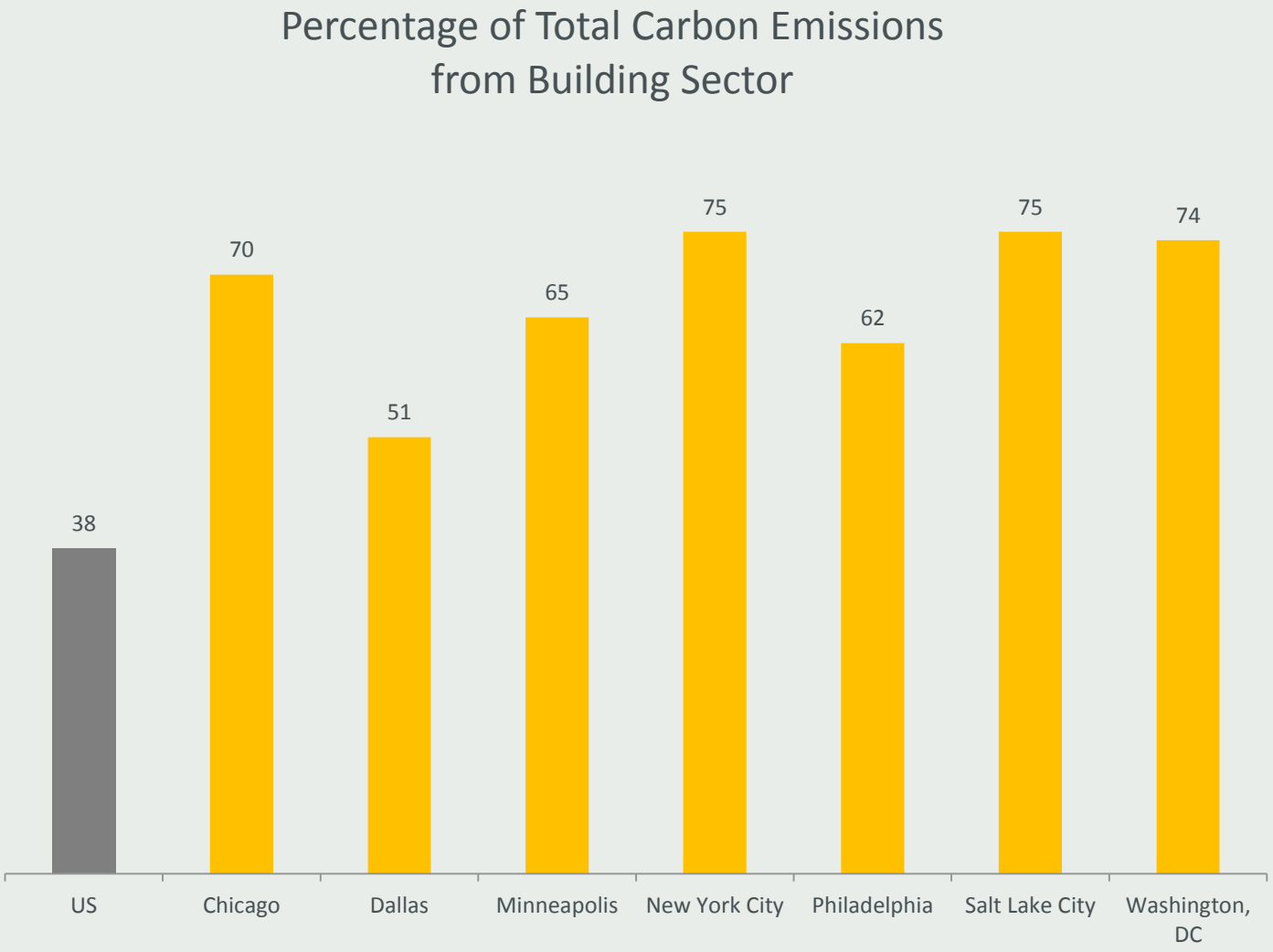
Sustainable Jersey | September 16, 2015

Lauren Zullo, LEED AP O+M
Natural Resources Defense Council

PROBLEM: U.S. BUILDINGS USE MORE ENERGY THAN MOST COUNTRIES IN THE WORLD



IN CITIES, BUILDINGS CONTRIBUTE ABOUT 50-75% OF POLLUTING GHG EMISSIONS



SOLUTION: ADVANCE ENERGY EFFICIENCY IN EXISTING BUILDINGS

YOU CAN'T MANAGE WHAT YOU DON'T MEASURE

Nutrition Facts

Serving Size 1 cup (228g)
Servings per Container 2

Amount Per Serving

Calories 280	**Calories from Fat** 120
	% Daily Value*
Total Fat 13g	20%
Saturated Fat 5g	25%
Trans Fat 2g	
Cholesterol 2mg	10%
Sodium 660mg	28%
Total Carbohydrate 31g	10%
Dietary Fiber 3g	0%
Sugars 5g	
Protein 5g	

Vitamin A 4% • Vitamin C 2%
Calcium 15% • Iron 4%

*Percent Daily Values are based on a 2,000-calorie diet. Your daily values may be higher or lower depending on your calorie needs.

	Calories:	**2,000**	**2,500**
Total Fat	Less than	65g	80g
Sat Fat	Less than	20g	25g
Cholesterol	Less than	300mg	300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbohydrate		300g	375g
Fiber		25g	30g

Calories per gram:
Fat 9 • Carbohydrate 4 • Protein 4

U.S. Government — Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Refrigerator-Freezer
- Automatic Defrost
- Side-Mounted Freezer
- Through-the-Door Ice

XYZ Corporation
Model ABC-L
Capacity: 23 Cubic Feet

Estimated Yearly Operating Cost

$67

$57 — $74

Cost Range of Similar Models

630 kWh
Estimated Yearly Electricity Use

Your cost will depend on your utility rates and use.

- Cost range based only on models of similar capacity with automatic defrost, side-mounted freezer, and through-the-door ice.
- Estimated operating cost based on a 2007 national average electricity cost of 10.65 cents per kWh.
- For more information, visit www.ftc.gov/appliances.

EPA Fuel Economy Estimates

These estimates reflect new EPA methods beginning with 2008 models.

CITY MPG
18
Expected range for most drivers **15** to **21** MPG

Estimated Annual Fuel Cost
$2,039
based on 15,000 miles at $2.80 per gallon

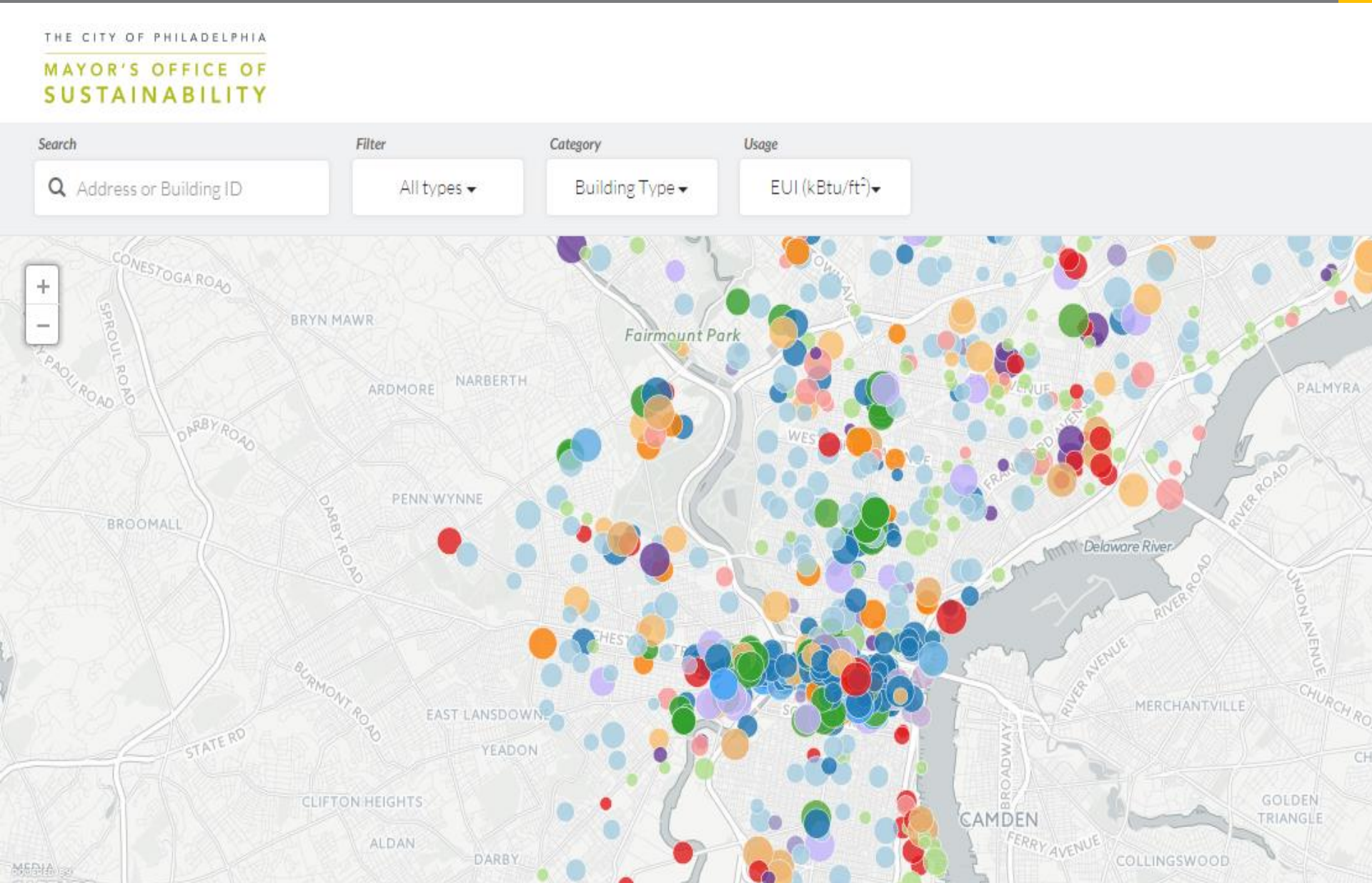
Combined Fuel Economy
This Vehicle
21
10 — 31
All **SUVs**

HIGHWAY MPG
25
Expected range for most drivers **21** to **29** MPG

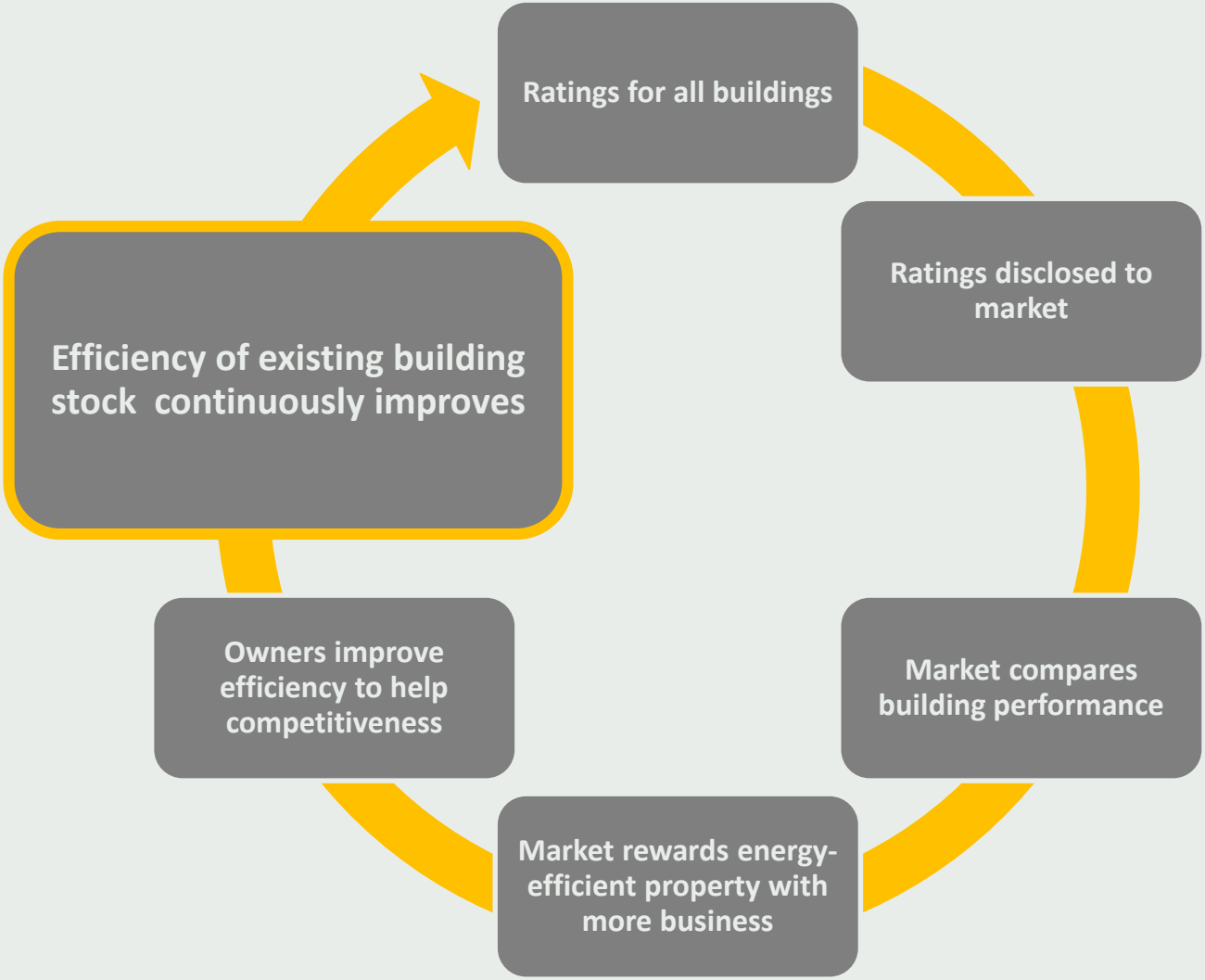
Your actual mileage will vary depending on how you drive and maintain your vehicle.

See the FREE Fuel Economy Guide at dealers or www.fueleconomy.gov

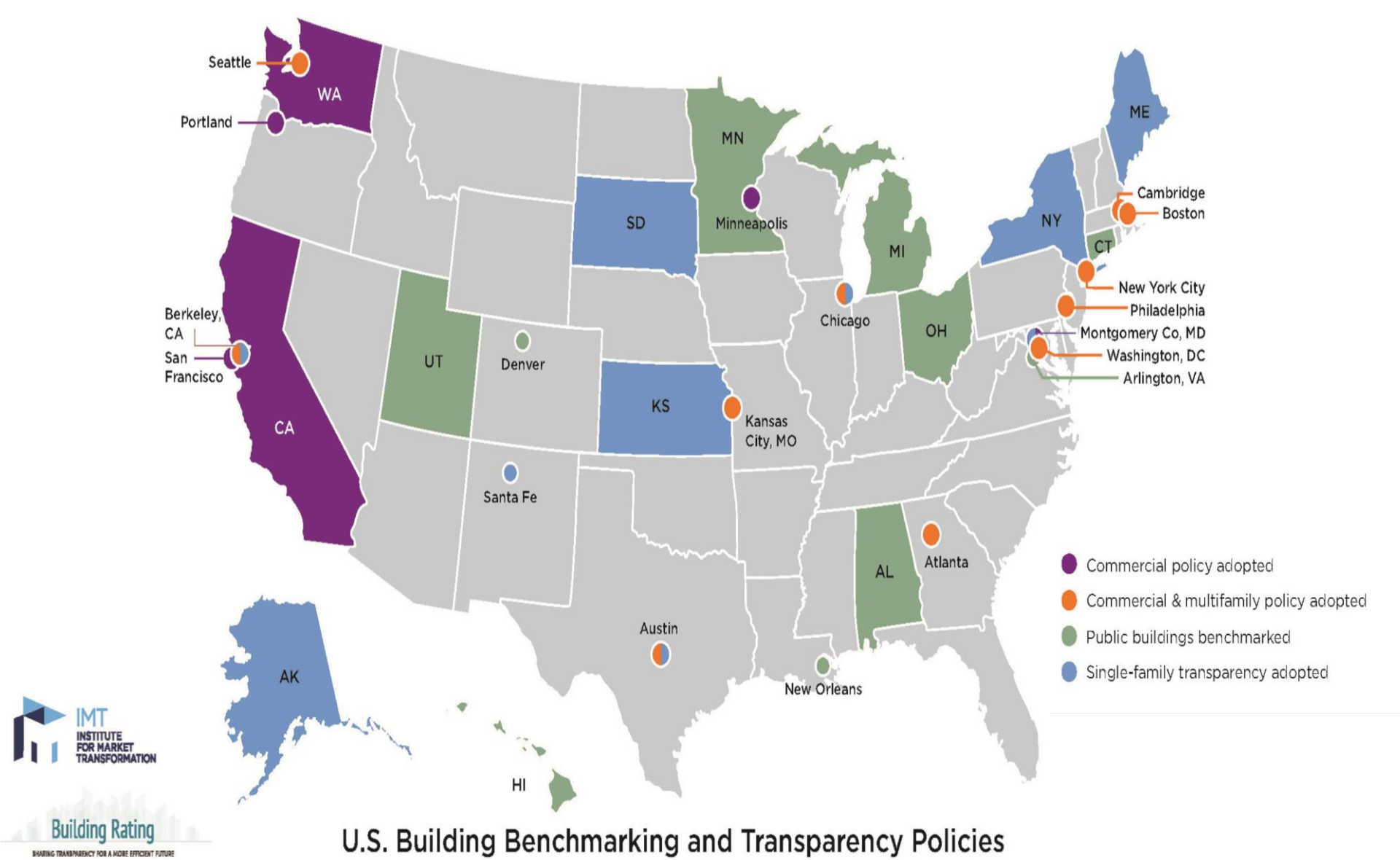
LEAD BY EXAMPLE WITH MUNICIPAL BUILDINGS



TRANSPARENCY DRIVES CYCLE OF IMPROVEMENT



THERE IS MOMENTUM IN THE MARKET FOR BENCHMARKING AND TRANSPARENCY



IMT INSTITUTE FOR MARKET TRANSFORMATION

Building Rating
SHARING TRANSPARENCY FOR A MORE EFFICIENT FUTURE

U.S. Building Benchmarking and Transparency Policies

CITY ENERGY PROJECT: ADVANCING ENERGY EFFICIENCY IN 10 LEADING AMERICAN CITIES

Funders

Bloomberg Philanthropies

THE KRESGE FOUNDATION

DORIS DUKE CHARITABLE FOUNDATION

Hub Staff

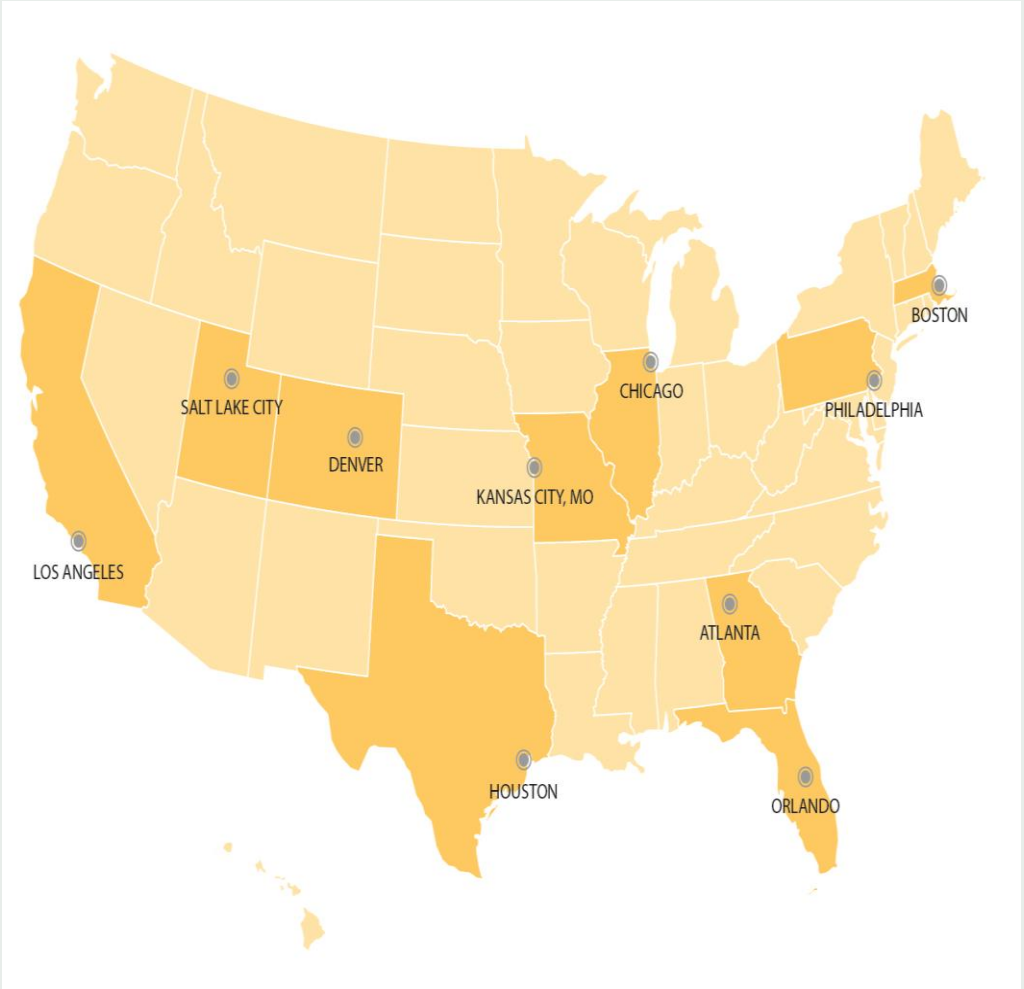
NRDC

IMT INSTITUTE FOR MARKET TRANSFORMATION

Implementing Partner

ENERGY FOUNDATION
building a new energy future

10 Cities



PATH FORWARD FOR LARGE SCALE ENERGY EFFICIENCY IN THE BUILT ENVIRONMENT

THANK YOU

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