

### <u>CITY ENERGY PROJECT</u>: ADVANCING ENERGY EFFICIENCY IN 10 LEADING AMERICAN CITIES

**Funders** 

Bloomberg Philanthropies

THE KRESGE FOUNDATION



**Hub Staff** 





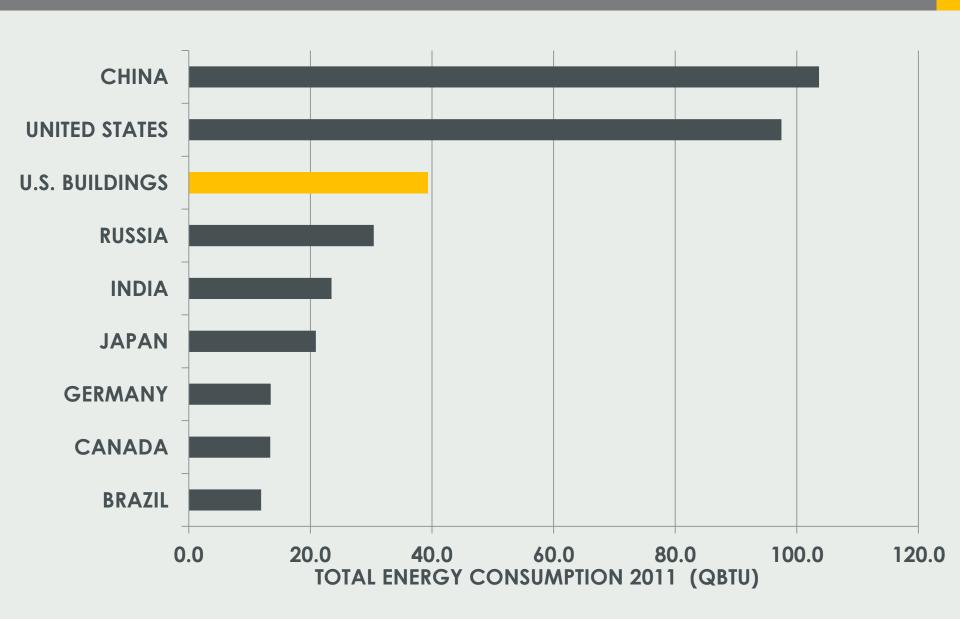
Implementing
Partner



10 Cities

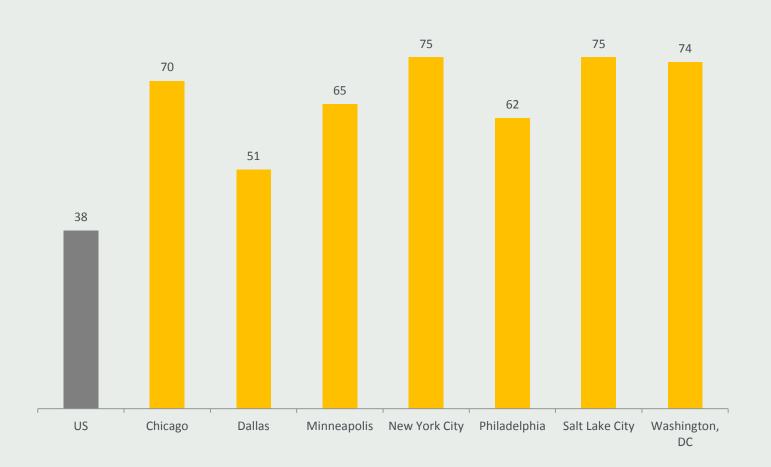


#### **PROBLEM:** U.S. BUILDINGS USE MORE ENERGY THAN MOST COUNTRIES IN THE WORLD



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

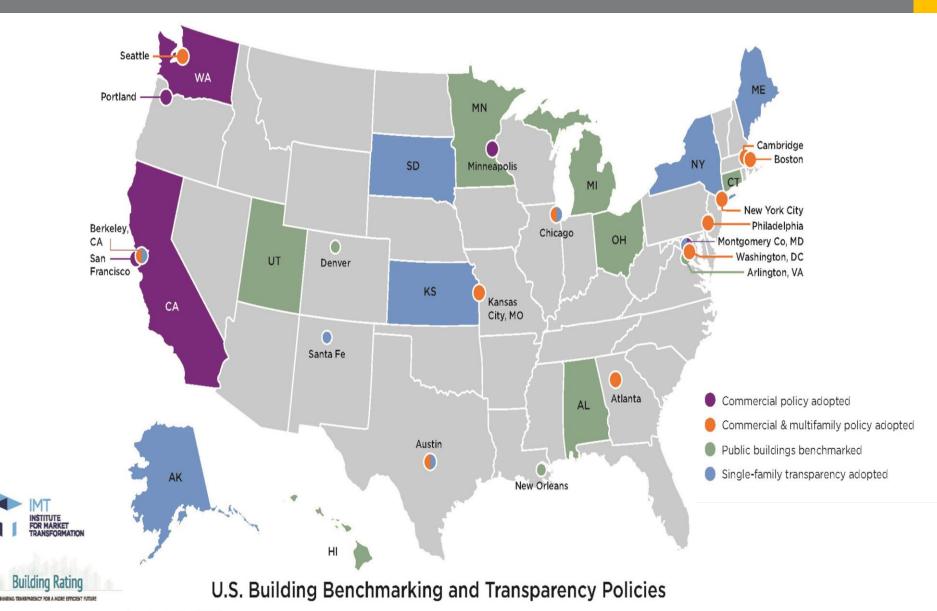
#### Percentage of Total Carbon Emissions from Building Sector



## **SOLUTION**: ENERGY TRANSPARENCY DRIVES EFFICIENCY IN EXISTING BUILDINGS



### THERE IS MOMENTUM IN THE MARKET FOR BENCHMARKING AND TRANSPARENCY



#### RAPID INCREASE IN DATA ABOUT BUILDING CHARACTERISTICS AND PERFORMANCE

**Tax Assessor Data** 

**Utility Data** 

**Contact Information** 

**Building Use Information** 



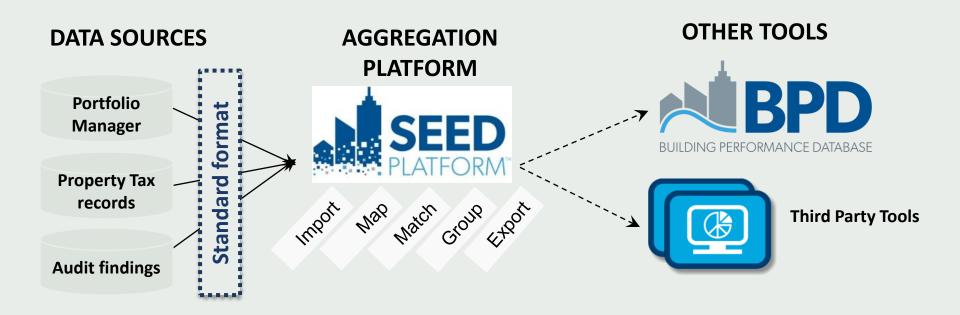
**Audit Data** 

**Benchmarking Results** 

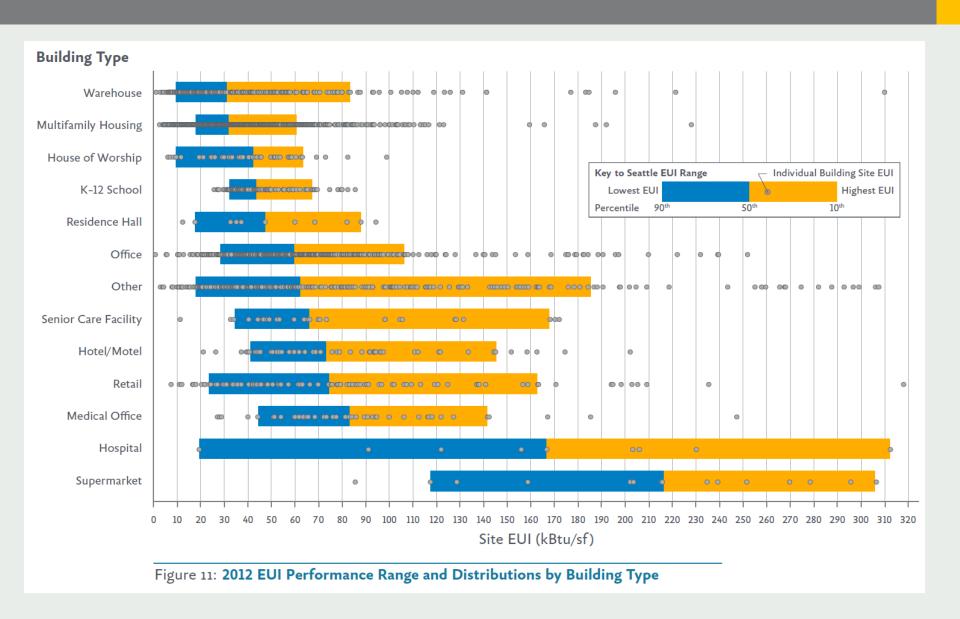
Retrocommissioning

Page 1 of	16.		1				1				Reported	
DC Real Property ID	Address of Record	Owner of Record   ✓	₩ard	Property Name	Address 1	City	Stat e	Posta I Cod 🛫	Primary Property Type	Year Built	Building Gross Floor Area (ft*)	Site (kB
00080806	2500 VIRGINIA AV NW	WATERGATE EAST INC	2	Watergate East, Inc.	2500 Virginia Avenue, N.W.	Washington	DC	20037	Multifamily Housing	1966	400,000	1
00080808	2600 VIRGINIA AV NW	GREENPENZ 2600 VIRGINIA AVENUE LLC	2	Watergate Building	2600 Virginia Avenue	Washington	DC	20037	Office	1963	217,716	3
00080811	0600 NEW HAMPSHIRE AV NW	WATERGATE HOLDINGS I LLC	2	0600 New Hampshire Avenue NW (Watergate)	600 Nev Hampshire Ave NW	Washington	DC	20037	Office	1972	280,21	1
00140068	2550 M ST NW	CARR CRHP DC/VA PROPERTIES LLC	2	Westbridge Office Builds	,	Washington	DC	20037	Office	1978	208,325	5
00160093, 00160863	095025THSTNW	CLARIDGE H COOPERTVE	2	950 25		ashington	DC	20037	Multifamily Housing	1960	373,216	3
0024			-			ton	DC	20006	Multifamily Housing	2010	271,827	<i>i</i> —
0024-					1227 23th see		DC	20037	Office	1988	150,905	$\top$
00240112	1250 24TH ST NW	WORLD WILDLIFE FUND INC			1250 24th Street, Nw		OC.		Office	1985	251,707	7
00240113	2400 N ST NW	AMERICAN COLLEGE OF CARDIOLOGY FOUNDATION		villege of leart House	2400 N Street NW			20037	Office	1985	168,89	1
00240870	2401M ST NW	LHCV HOTEL HOLDING (2002) LLC		ngton, D.C.,	2401M Street, NW	Wash	7	20037	Hotel	1985	386,390	)
00240871	2445MSTNW	WRIT 2445 MLLC			2445 M Street N.W.	Washing		20037	Office	1986	321.803	3
00250808	2400 M ST NW	EQR-JBG 2400	Į.	240	2400 M STREET NW	Washingto		0037		2006	267,750	1
00251646	111125THST NW	ATLAS CONDOMINI	2	Atlas	111125th Street N.W	Washington			Multifamily Housing	2004	237.91	
00251782	2425 L ST NW	THE COLUMBIA RESIDENCES CON	2	The Columb	2425 L Street NW	Washington		17	Multifamily Housing	2006	549,02	DI-s
00280000	950 24TH STREET NW	COMMERCIAL CO	2	City Hall	th St, NW	Washington			Residence Hall/Dormitory	1989	157,672	_
00310837	2475 VIRGINIA AV NW	POTOMAC PLAZ APARTMENTS IN	2	Potomac Plaza	Avenue, N.W.	Washington			Multifamily Housing	1957	316,550	,
00330087	2400 VIRGINIA AV NW	COLUMBIA PLAZ	- 2	Columbia Plaza All Bldgs	WW	Washington	1		Multifamily Housing	1968	988,819	1
00360048	2300 N ST NW	TR 2300 N STREE		2300 N Street		Washington	7	- 1	Office	1986	304,484	
00360859	120124THST	HYATT EQUITIES (		Park Huatt Washington	TZ.	Washington	7	- R	Hotel	1986	361,400	
00370853	2300 - 2330 M ST NW	MEDICAL FACULT ASSOCIATES INC		2300-2330 M ST	2300-2	Washington	1	37	Office	1984	161,222	
00400036	900 23RD ST	GEORGE WASHING	2	George Washington University	1900 23rd St	shington		37	Hospital (General Medic	2002	465,000	_
00410040	23001STNW	GEORGE WASHINGTO		Ross Hall	2300 I St, NW	7		.0052	College/University (Campus-Level)	1973	420,653	
00420055	2301G ST	GEORGE WASHINGTON UNIVERSITY		th and Wellness Center	2301G St, NW			20052	Recreation	2001	167,964	1
00430026	616 23RD ST	GEORGE WASHINGTON UNIVERSITY			616 23rd St, NW			20052	Residence Hall/Dormitory	2004	283,53	1
00500085	1250 22ND ST NW	EMBASSY/SHAVIDIC		le le	1250 22nd street N		10C	20037	Hotel	1987	306.123	1
00500086	1255 23RD ST	CAPITOL 50 ASSOCIATES		_	The state of the s		DC	20037	Office	1983	353,382	
00510079*	200201201	CHI II CE SOFICIOCENTES		Carito		ington	DC	20037	Hotel	1990	269,000	
00540841	2200 PENNSYLVANIA AV	GEORGE WASHINGTON UNIVERSITY	2	2200 Pennsylva	nuo	Washington	ОС	20052	Office	2011	541,360	
00560030	2201G ST NW	GEORGE WASHINGTON UNIVERSITY	2	Funger, Duques, & Tompkins Halls	2201G St and 725 23rd St, NV	Washington	DC	20052	College/University (Campus-Level)	1970	344,663	3
00670059	2100 MASSACHUSETTS	NORO SOUTHLLC	2	Fairfax at Embassy Roy	2100 Massachusetts Ave	Washington	DC	20008	Hotel	1927	217.504	4
00680088	142121ST ST NW	2130 P STREET		WestPark Apartments	2130 P Street NW	Washington	DC		Multifamily Housing	1975	184.259	
00700195	1200 NEW HAMPSHIRE AV NW	NHSTREET PARTNERS HOLDINGSLLC		1200 Nev Hampshire	1200 New Hampshire Avenue	Washington	DC	20036		1979	386,378	_
00700881*				33770-Washington West END Marriott	1221 22nd St Nv	Washington	DC	20037	Hotel	1981	304,053	T
00713159	1177 22ND ST NW	22 WEST CONDO	-	22 West A Condominium	1177 22nd St. NW	Washington	DC	20027	Multifamily Housing	2008	225,414	4

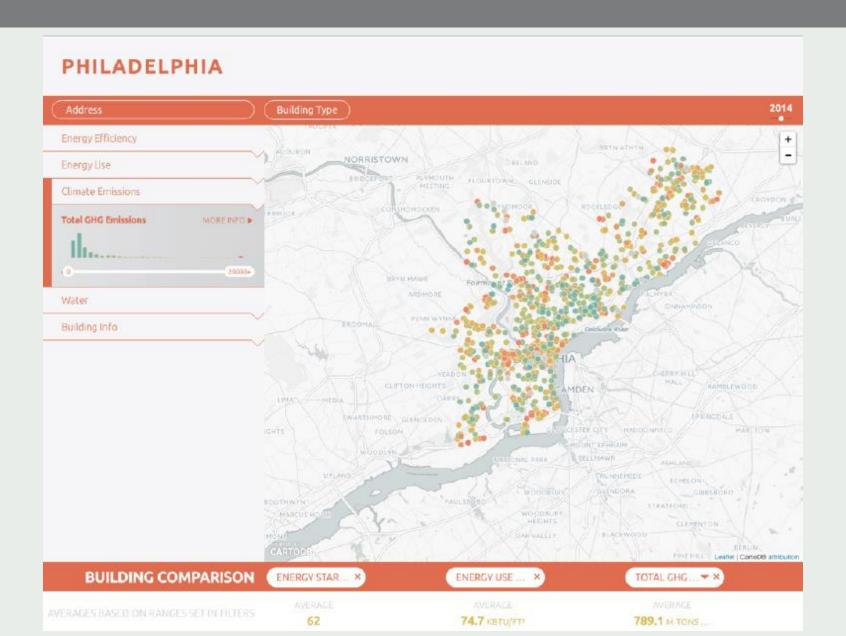
### STANDARD ENERGY EFFICIENCY DATA PLATFORM: DOE TOOL FOR BUILDING DATA MANAGEMENT



#### ASSESSING SEATTLE'S CITYWIDE INFORMATION



#### LOOKING AT INDIVIDUAL BUILDINGS IN PHILLY



### OPPORTUNITY FOR SYSTEMATIC DATA COLLECTION BEYOND BENCHMARKING

Program	Who/ How often?	Performance & Use Metrics	Energy systems inventory	Recommended ECMs & est'd costs, impacts	Implemented ECMs & costs	Actual impacts (M+V)
Benchmark & Transparency		✓				
Audits	Some/ Every 5-10 yrs	√ √	<b>√</b>	**		Programs may or may not have M+V
RCx	Some/ Every 5-10 yrs	✓	<b>√</b> *	<b>√</b> **	<b>√</b>	TIOCTIAVE INTV
Leading by Example	Some /Once	<b>√</b>	<b>√</b>	<b>√</b> **	<b>✓</b>	
Challenges	Some /Once	✓	<b>√</b>	**	<b>√</b>	<b>/</b>
Financing	Some /Once	✓	<b>✓</b>	<b>\</b> **	<b>\</b> ***	

<sup>\*</sup> If a city doesn't require audits, it could require energy systems data to be collected as part of RCx

<sup>\*\*</sup> Cost data may or may not be included

<sup>\*\*\*</sup> Plus amount of incentive and/or financing applied

#### FINAL THOUGHTS

 Building performance, use, and efficiency data is expanding rapidly

 Local governments, especially cities, are on forefront of data collection

 Opportunity for data-driven program design, assessment, and investment

#### THANK YOU

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