



CITY POWER PLAY

8 Practical Local Energy Policies to Boost the Economy

John Farrell, Director of Democratic Energy

MUNICIPAL UTILITIES

Austin

35% renewable
by 2020

Why a Municipal Utility?

"I think we were created because this new technology was available and the people of Chattanooga needed some organization to master that technology for their benefit. In those days it was electric networks and motors and things like that. But as the technology changes, the same issues are there...if it fits that classification of eventually being a public utility, in the sense of something that everybody needs, then organizations like us have not just a right, but a responsibility to step up and provide that for our community."

Harold DePriest, Chattanooga EPB

Palo Alto

Carbon-free in
2017

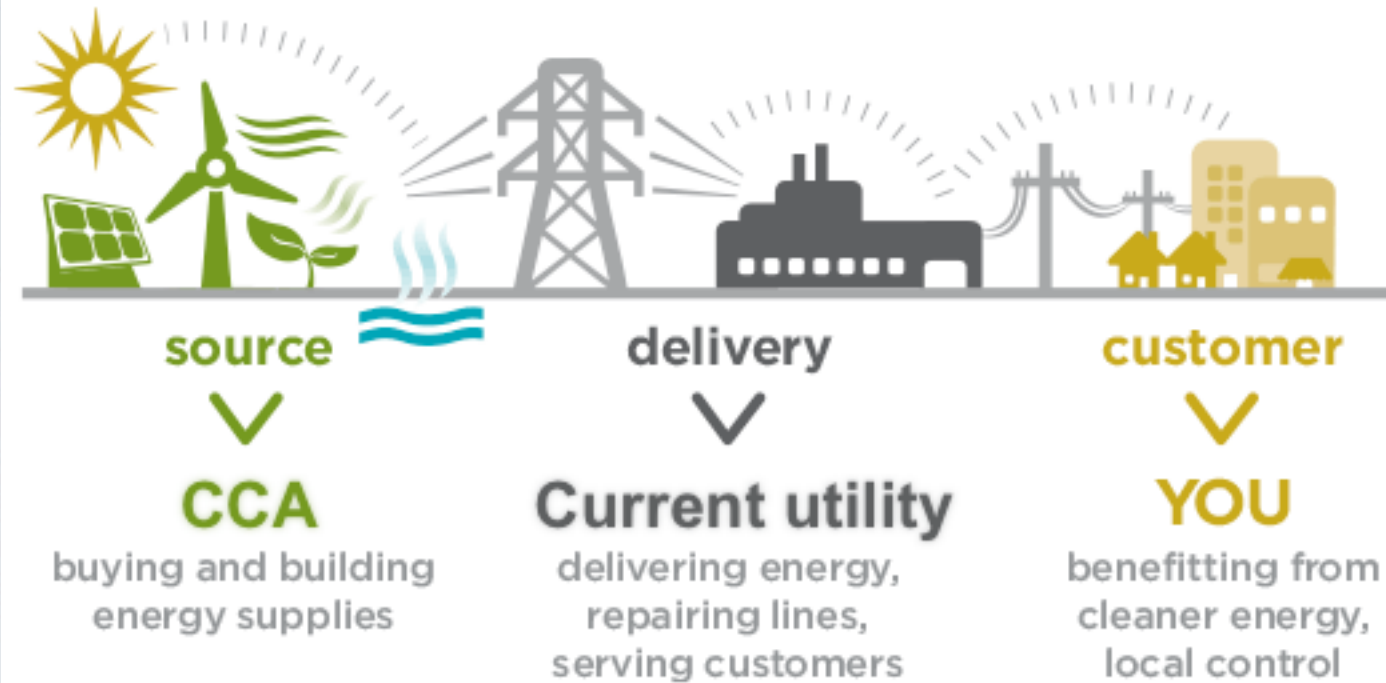
Flat demand
through 2030

Sacramento

90% reduction
in GHG by 2050

COMMUNITY CHOICE

How CCA Works



Oak Park

100% Illinois
wind power

Marin Clean Energy

50% renewable
plan for 20% local

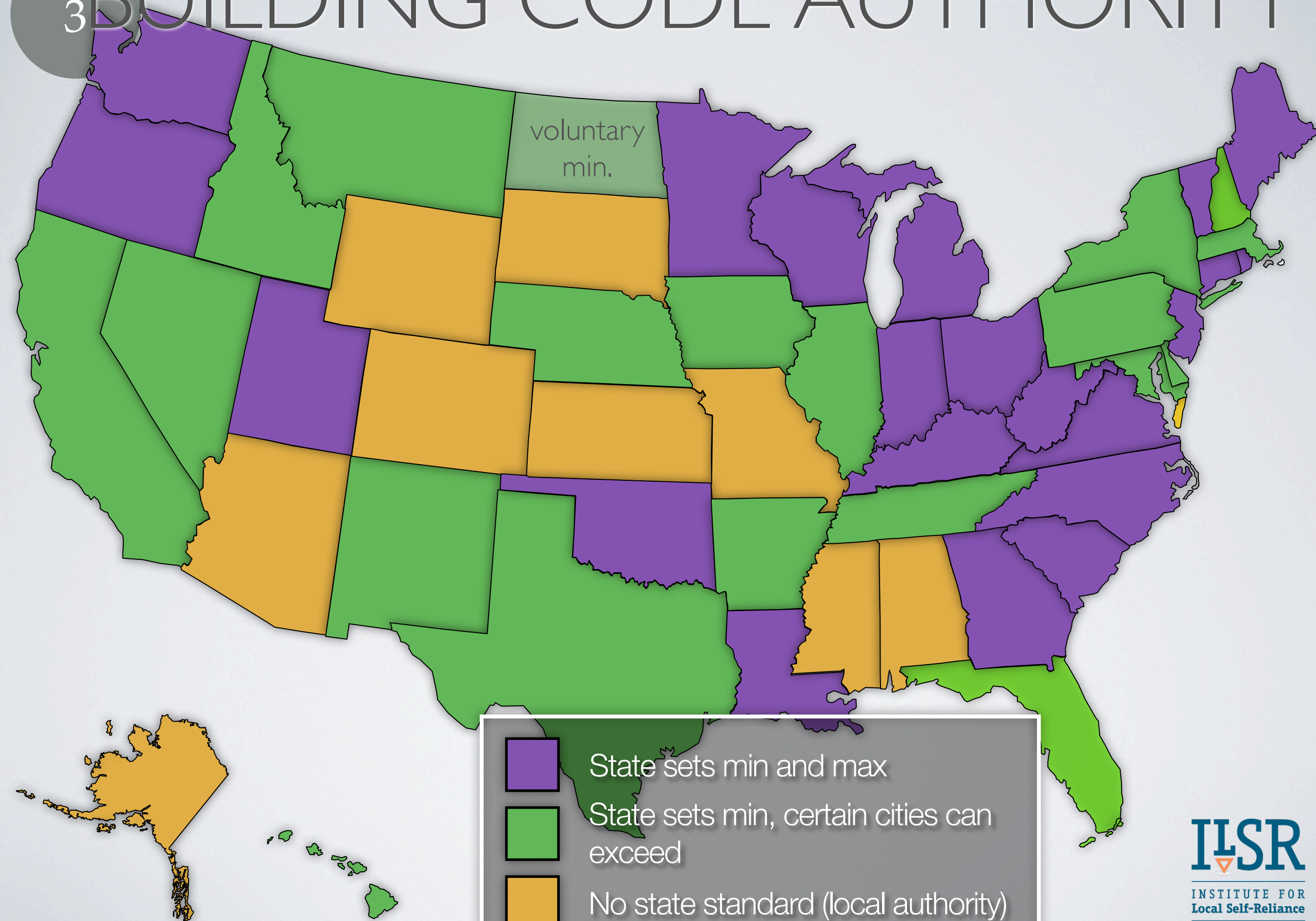
BUILDING CODES

Municipalities Exceeding State Standard Codes

Municipality	State Code	Sectors	Model Policy
Austin, TX	IECC 2009	R+C	IECC 2012; all new homes net zero energy capable by 2015
Boulder County, Parker, Thornton, & Westminster, CO	IECC 2001/03	R+C	IECC 2012
Babylon, NY	IECC 2007/09	R+C	Score of 70 or less on Home Energy Rating System (30% more efficient than 'reference home'). All buildings over 4,000 s.f. must achieve LEED v2.2
Blaine County, ID	IECC 2007/09	R	State code and score \leq 70 on Home Energy Rating System (30% more efficient than 'reference home').
Kansas City, MO	none	R+C	IECC 2012
Over 100 cities in Mass.	IECC 2012	R+C	"Stretch code" requires 20-35% better efficiency in residential structures and 20% in commercial buildings
Phoenix, Tucson, Pima County, Avondale, Chandler, El Mirage, Peoria, & Scottsdale, AZ	none	R+C	IECC 2012
Jackson/Teton County, WY	none	R+C	IECC 2012
Santa Monica, CA	IECC 2009*	R+C	15% less energy than state code
Boulder, CO	IECC 2001/03	R+C	30% less energy than IECC 2006, higher savings for larger residential buildings
Marin County, CA		R	New residential and remodels over 1500 SF must use 15% less energy than standard design.

*California's 2008 code is slightly more efficient than IECC 2009. Their 2013 code (in force 1/1/2014) is better than the 2012 IECC.

BUILDING CODE AUTHORITY



LOCAL TAXING AUTHORITY

Babylon, NY

Repurposed solid waste
fund to home energy
efficiency loans

Reached 2% of homes,
\$1,300 annual savings

Boulder, CO

\$2 million per year
Local energy efficiency

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NEW HOME SOLAR REQ.



Lancaster, CA

1 kW per new home

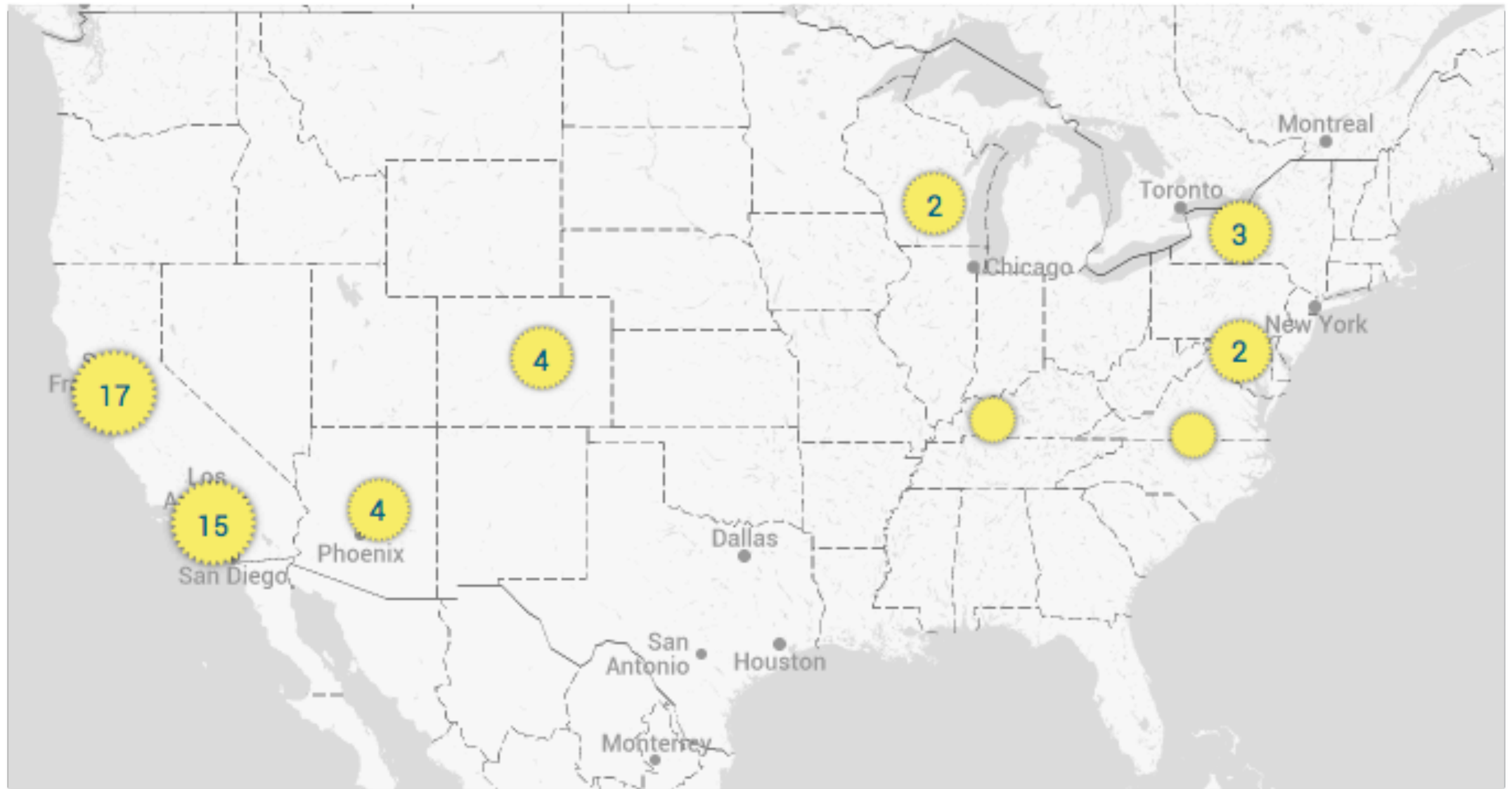
Sebastopol, CA

2 Watts per s.f.



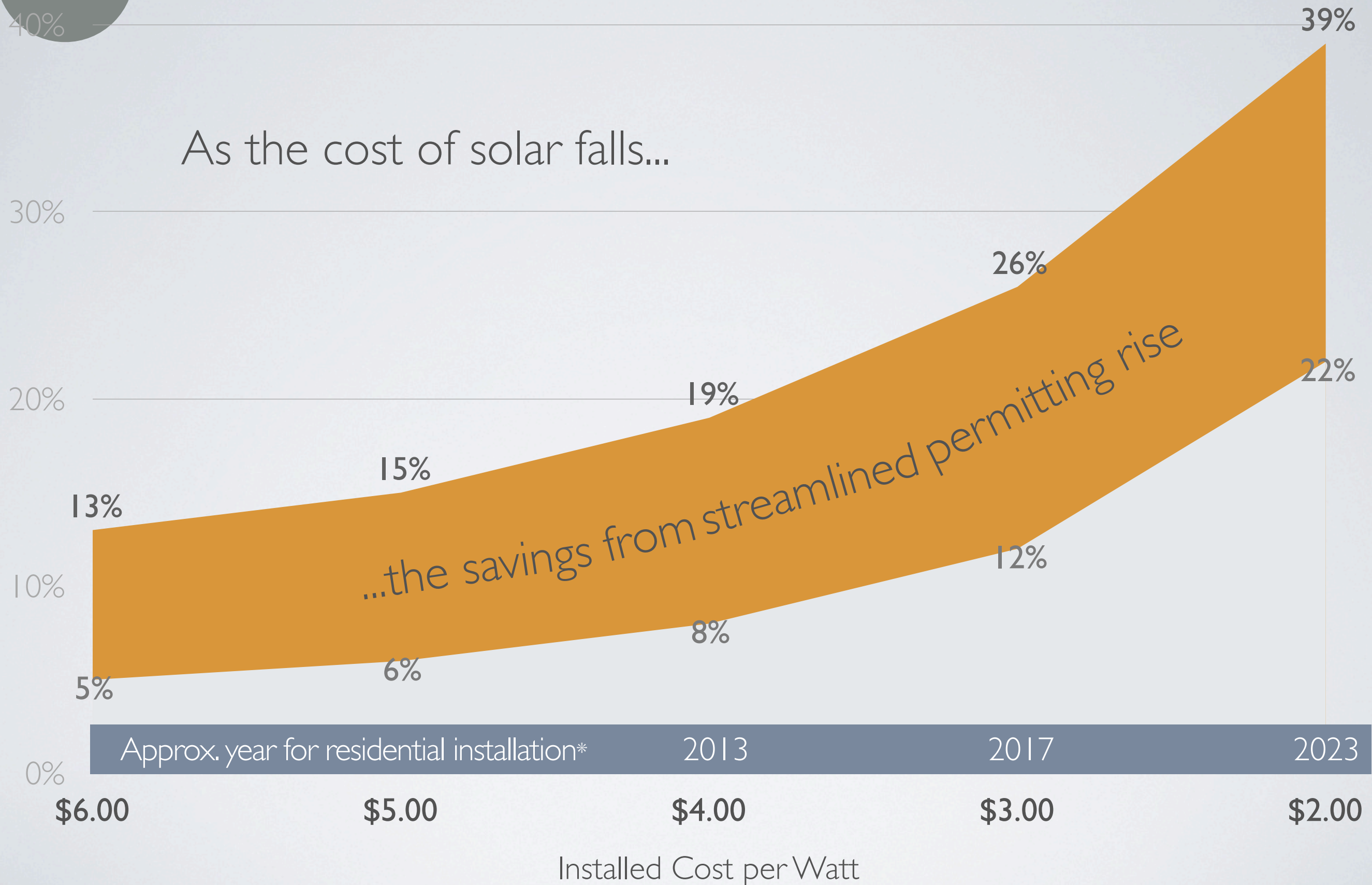
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BEST SOLAR PERMITTING CITIES



Better Local Permitting Means Big Solar Savings

As the cost of solar falls...



Data from *The Impact of City-level Permitting Processes on Residential Photovoltaic Installation Prices and Development Times* (LBNL, 2013)

*From ILSR's Rooftop Revolution reports: <http://www.ilsr.org/rooftop-revolution/>

BUILDING ENERGY DISCLOSURE

Municipality	C-Size	Public Bldg?	Multi-family?	Disclosure	Requirement
Austin, TX	10,000 SF	Y	Y	Buyers/sellers	Audits/upgrades for multifamily
Boston, MA	35,000 SF	Y	Y	Public (2015)	Audit for low performers
Minneapolis, MN	50,000 SF	Y	N	Public	N/A
New York, NY	50,000 SF	Y	Y	Public	Energy audit
Philadelphia, PA	50,000 SF	Y	N	Buyers/sellers	N/A
San Francisco, CA	10,000 SF	Y	N	Public	Energy audit
Seattle, WA	10,000 SF	Y	Y	Buyers/sellers	N/A
Washington, DC	50,000 SF	Y	Y	Public	N/A

LOCAL ENERGY FINANCING

Sonoma PACE

Babylon PACE

PROJECTS FUNDED

Residential

1,902

Commercial

61

Total Contracts Funded

\$64,235,836

Jobs Created/Retained

778

Percent of Projects Completed by Local Contractors

80%

3% interest, 2% of homes,
\$1.4 million annual savings

LEARN MORE

Read the report



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ILSR's John Farrell visualizes a distributed renewable energy future



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