



Smart Building Technologies

UT Energy Week

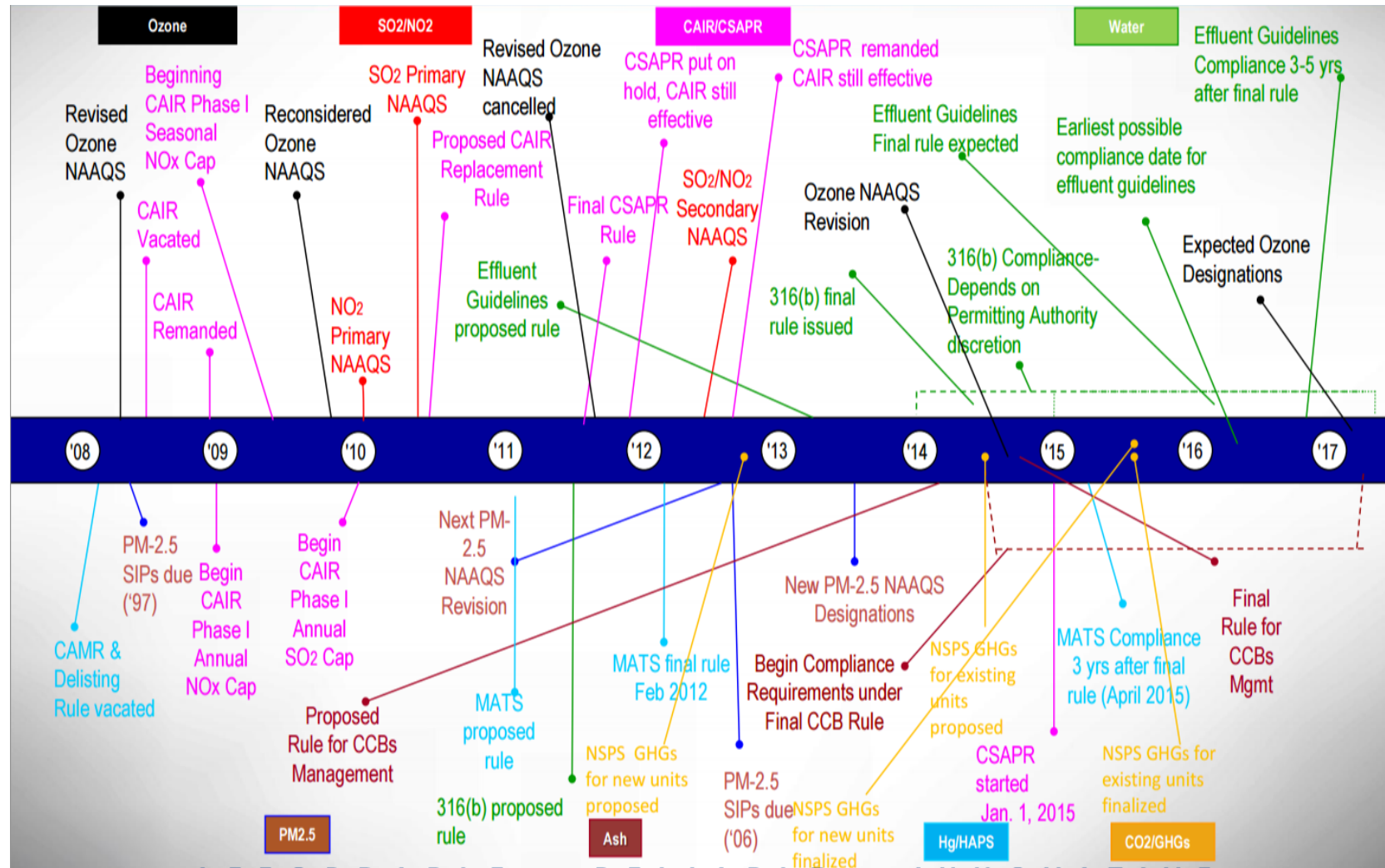
2017



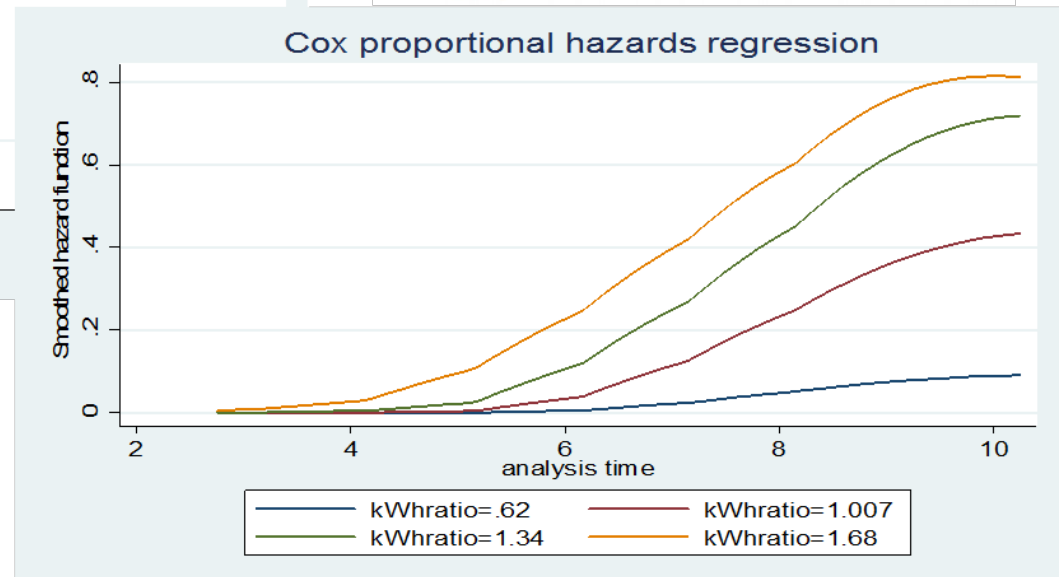
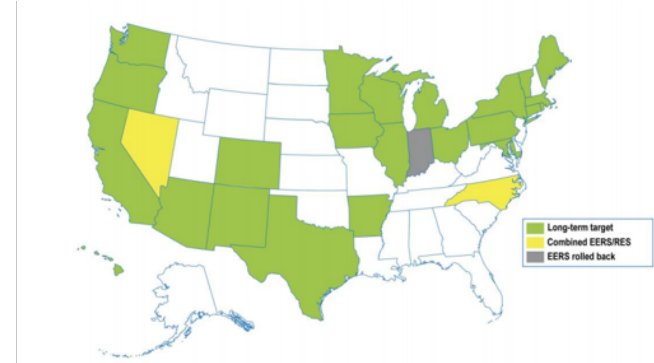
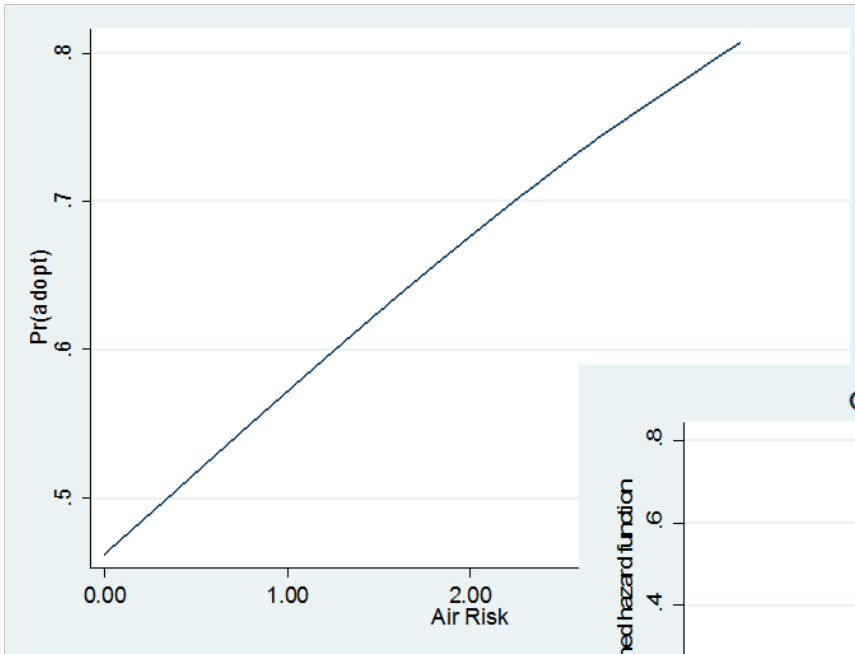
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Federal Level Activity



State Policy Adoption

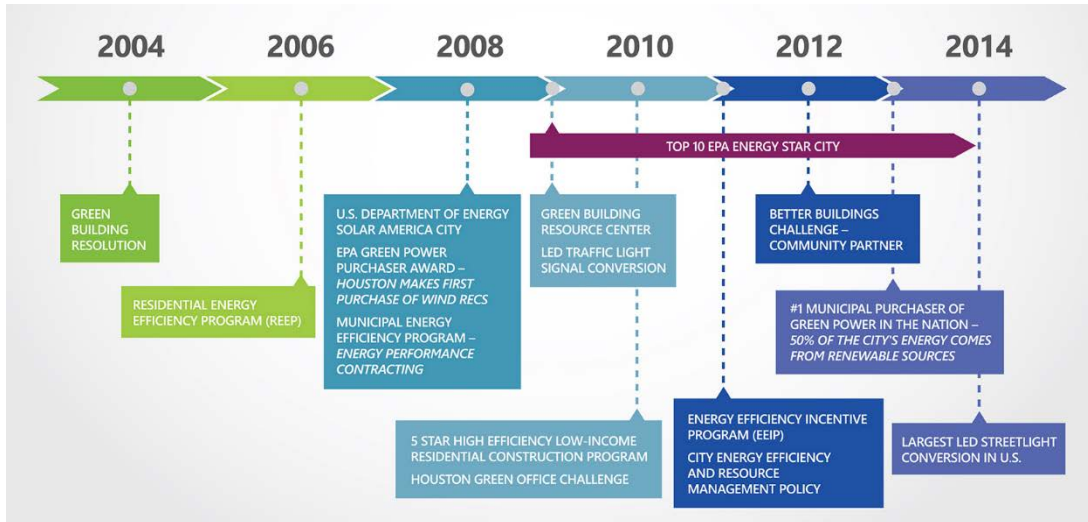


Policy: City Energy Project



CITY ENERGY

A JOINT PROJECT of NRDC + IMT



HOUSTON CITY ENERGY PROJECT

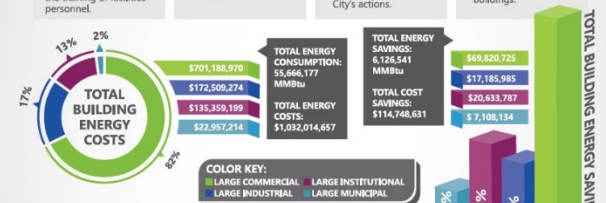
THE HOUSTON CITY ENERGY PROJECT will help unlock the value of building efficiency by working to develop energy efficiency solutions that are unique, flexible, and support the following goals:

PROMOTE EFFICIENT BUILDING OPERATIONS.
Strong building energy performance will be achieved through efficient operations and maintenance and the training of facilities personnel.

ENCOURAGE PRIVATE INVESTMENT.
Common-sense solutions to financial and legal barriers to energy efficiency will increase private investment in building energy improvements.

SHOWCASE CITY LEADERSHIP.
Houston will lead by example and reduce taxpayer-funded energy consumption in municipal buildings, and encourage the private sector to match the City's actions.

PROMOTE TRANSPARENCY.
Building energy performance information will be transparent and accessible to spur market demand and competition for energy-efficient buildings.



INVESTMENT THROUGH ENERGY EFFICIENCY PROJECTS



OPTIMIZING BUILDING PERFORMANCE: 4 COMPONENTS



BENCHMARKING

Measuring building energy and water efficiency. Building owners track and report their energy and water usage annually in ENERGY STAR® Portfolio Manager, a free online tool.



BUILDING AUDIT

Identify and quantify opportunities to reduce energy and water use. Building owners submit a summary audit report that certifies an energy and water audit was completed.



TRANSPARENCY

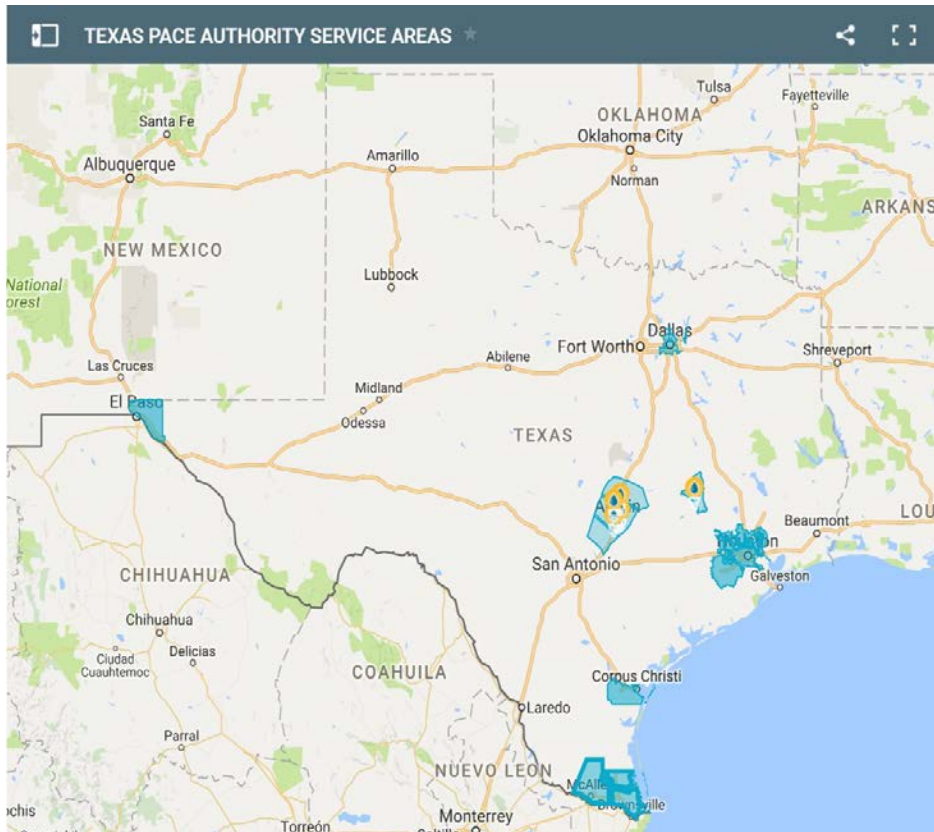
Track use trends to drive improvements in building efficiency. Building owners share energy and water use data with the City utilizing the ENERGY STAR® Portfolio Manager system.



TRAINING

Workforce Development: Increase capacity of operators through training. Building owners document that the facility is operated by a qualified individual.

Financing: PACE in Houston



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Monday, October 19th, 2015

Annis Parker, Mayor
Brenda Stardig, City Council Member – District A
Jerry Davis, City Council Member – District B
Ellen Cohen, City Council Member – District C
Dwight Boykins, City Council Member – District D
Dave Martin, City Council Member – District E
Richard Nguyen, City Council Member – District F
Oliver Pennington, City Council Member – District G
Ed Gonzalez, City Council Member – District H
Robert Gallegos, City Council Member – District I
Mike Laster, City Council Member – District J
Larry Green, City Council Member – District K
Stephen Costello, City Council Member – At Large 1
David Robinson, City Council Member – At Large 2
Michael Kubosh, City Council Member – At Large 3
C.O. "Brad" Bradford, City Council Member – At Large 4
Jack Christie, City Council Member – At Large 5

City of Houston
900 Bagby Street
Houston, Texas 77002

Dear Mayor Parker and City Council Members,

We encourage you to create a Property Assessed Clean Energy Program (PACE) region, which will be among the first in Texas. The authority to create such a district was provided in 2013 through the Texas PACE statute, SB 385. With this new program, the City of Houston will create jobs, promote business retention and expansion, upgrade building stock, promote energy and water conservation, and serve as a model for the rest of the state. The program is entirely voluntary and does not rely on taxpayer funding.

The proposed PACE region is being developed with the guidance of Keeping PACE in Texas' PACE in a Box. This is the nation's first PACE model designed by volunteer stakeholders to be user-friendly, uniform, sustainable and scalable. Using a uniform, Texas-designed model, PACE in a Box decreases costs and increases the likelihood of greater participation by local firms. This market-based approach will assist City of Houston businesses to address deferred maintenance by investing in energy and water conservation-based improvements to their properties without the risk of over-investment. PACE enables commercial, industrial and multifamily real estate property owners to overcome the steep upfront costs for water and energy efficiency improvements by utilizing private sector financing for up to 100% of the capital improvements. This is done through a voluntary contractual PACE property assessment secured by a senior lien on the property. Businesses will benefit by saving more on their monthly utility bills than the costs of the financed improvements. If the

WWW.KEEPINGPACEINTEXAS.ORG

Local Capacity Building



Energy Efficiency

IN BUILDINGS
HOUSTON

Private Sector Leadership for Energy Efficiency in Houston

The Energy Efficiency in Buildings Houston initiative was launched 2014 to support the development of ambitious and practical strategies for reducing building energy consumption by 30% or more in the Houston market.



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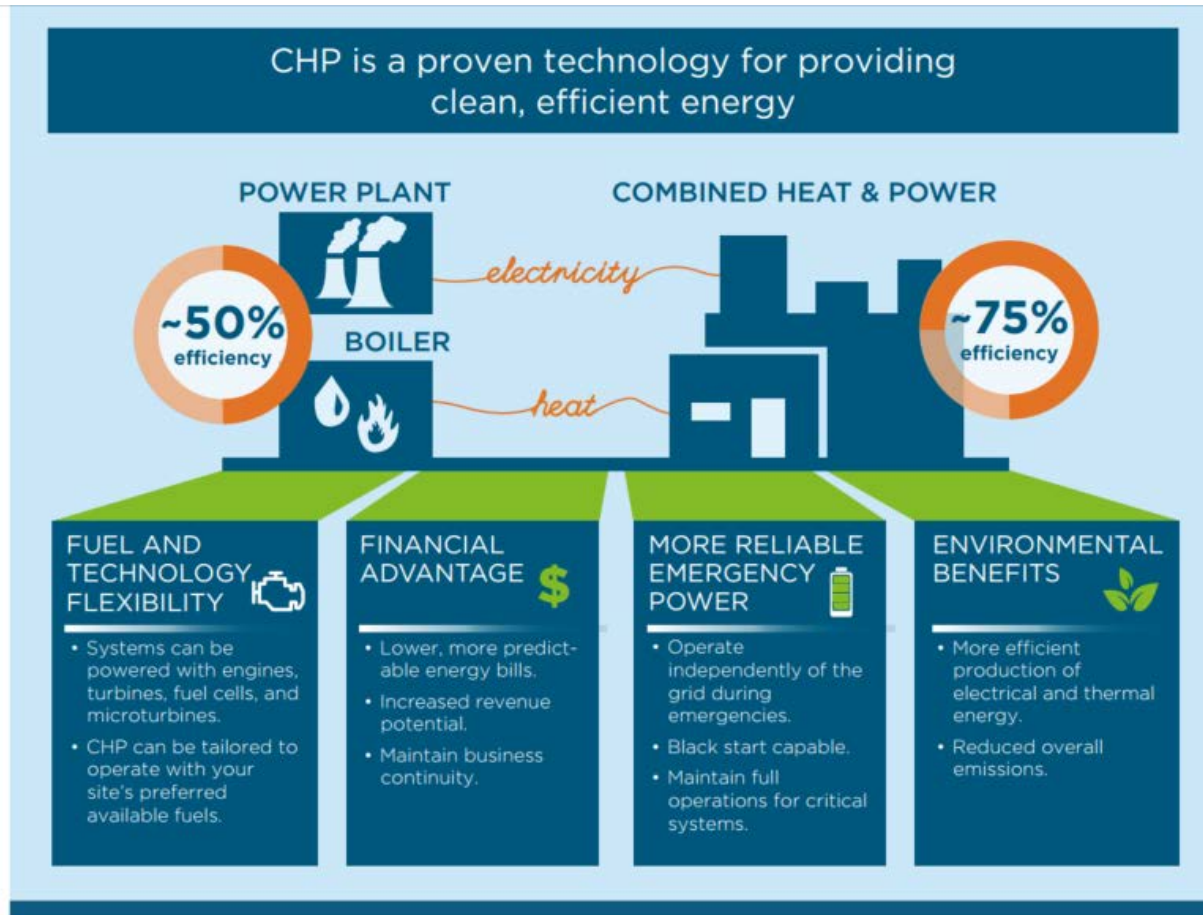
United States Business Council
for Sustainable Development



wbcsd



Power Resilience



U.S. DEPARTMENT OF ENERGY

CHP Technical Assistance Partnerships

SOUTHWEST



HARCresearch.org

HARC (härk), *n.*
an independent research
hub helping people thrive
and nature flourish.