Introducing PACE in Texas







A Webinar Introducing SB 385, Texas' New Property Assessed Clean Energy Act
The First in a Three-part Series

A Primer on the benefits and opportunities created for Counties and Municipalities

August 6, 2013



Creating Economy

Through Long Term, Affordable Financing for Water and Energy Retrofits to Commercial and Industrial Property

PACE in a Box

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PACE in a Box

- SB 385, Sen. John Carona and Rep. Jim Keffer
- The coalition:
 - County Judges and Commissioners Association of Texas
 - Independent Bankers Association of Texas
 - Texas Association of Business
 - Texas Association of Counties
 - Texas Bankers Association
 - Texas Building Owners and Managers Association
 - Texas Combined Heat and Power Initiative
 - Texas Manufactures Association
 - Texas Municipal League
 - Texas Renewable Energy Industry Association
 - US Business Council for Sustainable Development
 - US Green Building Council
 - Dozens of other organizations and companies



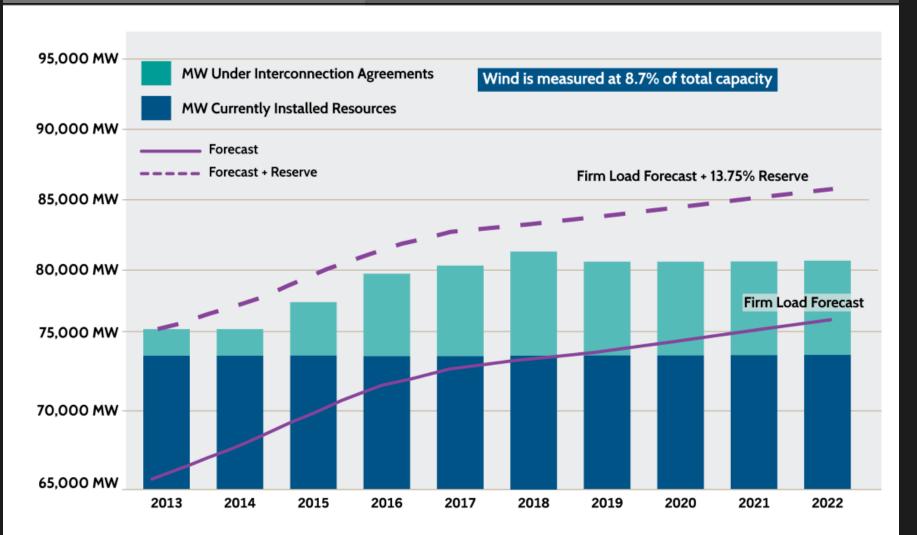
PACE in a Box

PACE Benefits Counties and Municipalities

- Economic Development A US investment Opportunity of nearly \$28 billion over the next 10 years that would translate to:
 - Over \$1 trillion in energy savings,
 - over 3 million jobs, and
 - Over 600 million fewer metric tones of carbon emissions*
- Improved Building Infrastructure
- Voluntary private sector water and energy conservation
- Voluntary private sector support for and progress toward local community goals

*United States Building Energy Efficiency Retrofits: Market Sizing and Financing Models
A 2012 Research Study Collaboration between the Rockefeller Foundation and
DB Climate change Advisors

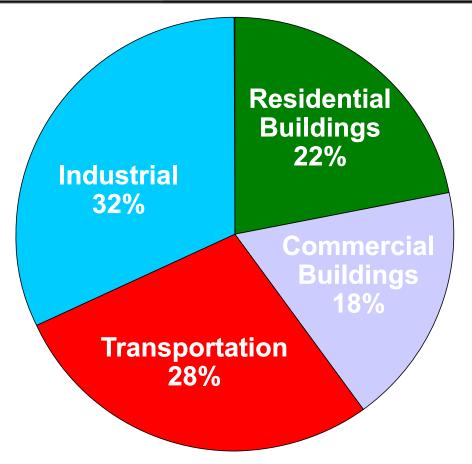
ERCOT Electricity Demand and Supply





Energy Consumption in the U.S.

Commercial and industrial sectors account for 50%

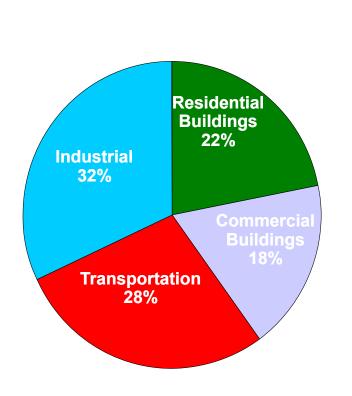


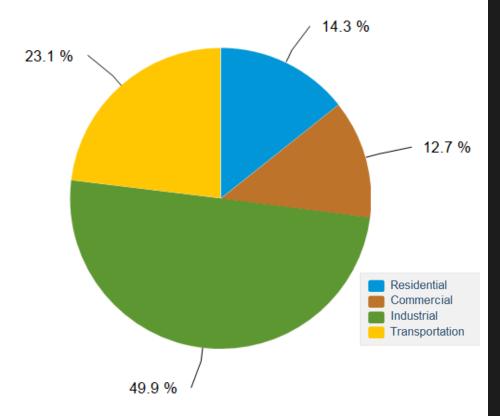
Sources: U.S. Dept. of Energy (2009) Building Energy Data Book; World Resources Institute (2006) U.S. Greenhouse Gas Emissions Flowchart; U.S. Energy Information Administration (2008) "2003 CBECS" Table B9; Marnay, C and M. Stadler et al. (2008) "A Buildings Module for the Stochastic Energy Deployment System." LBNL

Energy Consumption in Texas

Commercial and industrial sectors account for 63%

Texas Energy Consumption by End-Use Sector, 2011



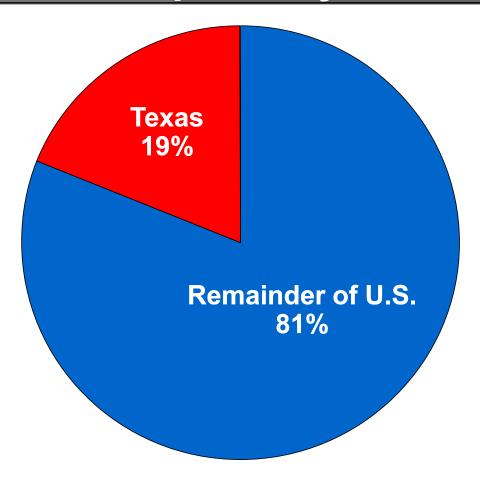




Source: Energy Information Administration, State Energy Data System



Texas vs. Nationwide Energy Consumption By Industry



Texas' industrial sector is a huge, untapped market for energy saving retrofits.

Deloitte reSources 2012 Study:

Insights into Corporate Energy Management Trends

Insights into Texas' Corporate Energy Management

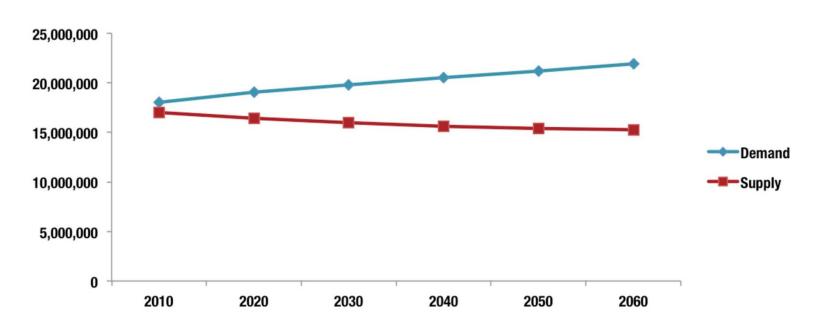
90% of Texas companies surveyed have specific electricity and energy management goals in place:

- 90% View reducing electricity costs as essential to staying competitive from a financial perspective
- 73% view reducing electricity costs as essential to staying competitive from an image perspective
- 57% have customers demanding more environmentally considerate solutions



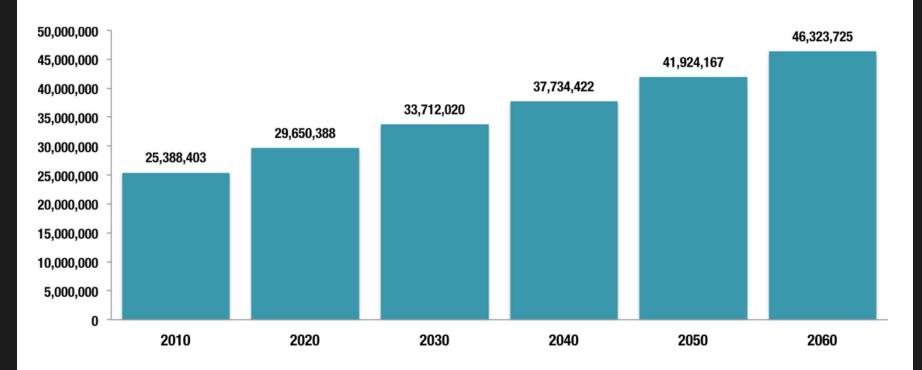


Texas' Projected Water Demands and Existing Supplies





Projected Texas Population



"More than 1,000 people...move to Texas every day." Gov. Rick Perry, 12/29/2012.



STOP: talking about the problem. **START**: talking about the solution!

- Texas Leadership is investing in water and power infrastructure – Water, Energy, Roads
- Investing in Building infrastructure part IV of the solution
- By far the cheapest and most affordable supply we find will be the existing supply we can reallocate because of conservation
- Old approaches called for mandates or tax and incentive policies that distorted the market and reduced revenues to local governments
- New approach...



Why Not Capitalize the Energy Savings?

- "U.S. Businesses Waste \$60 Billion Annually on Energy."
- "Scaling up energy efficiency retrofits offers a \$279 billion investment opportunity with potential for energy savings totaling more than \$1 trillion over a period of 10 years."

If there is so much pent-up demand for energy & water efficiency retrofits for commercial and industrial buildings, then why is this untapped sector of the economy laying fallow?

Answer: The ROI for energy retrofits is too long to justify capital expenditures using existing financing tools.

Sources: Beth Hartman, E Source Research Brief, September 2012; Report conducted by The Brookings Institute 'Renewing the Economy' November 2012



Example: Typical Private Sector Retrofit Bid - 5 Star Hotel



Overview of Financial Summary

Item No.	Building	ECM Description	Annual Dollar Savings							
			Electric	Gas	Water	O&M	Total	Project Cost	Simple Payback	Detailed Audit Cost (\$)
1		Replace two 350 ton Chillers	\$5,000			\$5,000	\$10,000	\$720,000	72.0	\$10,800
2		Add Cooling Tower Isolation Valves	\$3,000				\$3,000	\$7,500	2.5	
3		BAS for Central Plant (EMCS)	\$1,000			\$4,000	\$6,000	\$65,000	10.8	
4	(884)	Convert penthouse DX systems to CHW	\$15,500			\$4,000	\$19,500	\$97,500	5.0	\$1,463
5		VFDs on 4 AHUs, Economizer	\$750			\$3,000	\$3,750	\$50,000	13.3	
6	The same	Water Conservation Retrofits	1000	\$5,000	\$25,000	\$0	\$31,000	\$255,000	8.2	
7	E Maasur 1	Convert PIB/VAV boxes to EMCS Control	\$20,000				\$20,000	\$80,000	4.0	
8	a deposition	Add DDC Controls to AHUs in Penthouse	\$3,000			\$1,500	\$4,500	\$60,000	13.3	
9	WCI-archy.	Lighting Retrofits	\$92,000			\$1,500	\$93,500	\$221,000	2.4	
10	E Special Control	Chiller Plant Optimization	\$85,000			\$1,500	\$86,500	\$250,000	2.9	\$12,825
11	C/GL46/07	BAS Night Setback for Meeting Rooms	\$4,000				\$4,000		0.0	6
		Totals	\$230,250	\$5,000	\$25,000	\$20,500	\$280,750	\$1,806,000	6.4	\$25,088



The secret to PACE in a Box

- The keys to PACE are the assessment and the senior lien.
- Assessments are economic development tools used successfully in Texas for decades (Property Improvement Districts, PIDs).
- Think of PACE as "a one building PID."
- Since the cost of the PACE program overhead can be folded into the assessment, PACE programs can operate without local tax dollars.
- The assessments stay with the land and do not accelerate.



So What's the PACE Process?

- A building owner (office building, store, factory, barn, church, apt. complex, etc.):
 - Finds a contractor,
 - Selects projects,
 - Identifies a lender, and
 - Applies to the PACE program
- If the owner, building, and project all meet PACE requirements:
 - ► The owners signs a contract with the PACE program, which places a senior lien on the property
 - The lender provides funding,
 - The contractor completes the project, and
 - ► The PACE program bills assessments to the owner and forwards the payments to the lender

The fine print

- If there is an existing mortgage, the written consent of the mortgagee is required
- PACE projects must be permanent improvements to existing facilities
- PACE projects must conserve water, increase energy efficiency, and/or add renewables or other onsite power generation like CHP.
- SB 385 requires an independent review of the projected savings to provide confidence in the project's utility savings for the building owner, lender and community
- A PACE annual assessment is less than the annual water and energy savings of the project
- The loan/assessment is spread over the number of years necessary for the annual utility savings to pay for the assessments (<20)



SB 385 - PACE Offers Solutions

Barriers

Scarce internal capital budget

No access to, aversion to financing

- No investment-grade <u>credit</u> <u>rating</u>
- Lack of <u>collateral</u> assets that don't fall under first mortgage

Uncertain holding period

Owner / tenant split incentives

Skepticism savings/ROI will be realized

PACE Solutions

No down payment and costs spread over time w/ savings

- Repayment security through senior lien position
- Backed by property, not by owner or equipment collateral

PACE obligation transfers to the new owner upon sale

Qualifies as NNN pass-thru cost

ESCO/contractor <u>quarantees</u> or third party insures performance



PACE in a Box

- A PACE tool kit of recommendations and templates for counties and municipalities to:
 - Create viable, cost effective, user friendly, scalable, and sustainable PACE programs
 - Encourage and support local discussions about forming regional or multi-jurisdictional programs
- Assist in the implementation of PACE in a Box through education, marketing and training
- Provide continuing feedback and improvement



Keeping PACE in Texas is coordinating five PACE in a Box coalition working groups:

- The Program Design working group will make recommendations on:
 - PACE program creation and templates for municipal resolutions, county minutes and the accompanying report
 - The Application Process
 - The Application Review Process
 - ► The process for establishing and recording the lien
 - ► The collection process
 - ► The templates for related documents
 - The PACE in a Box tool kit workbook



- The Program Underwriting Working Group is making recommendations on requirements for:
 - Building owner qualifications
 - Building qualifications
 - Project Qualifications
 - Savings to Investment Ratio >1
 - Lender consent
 - Sector Specific issues: non-profit, rural, agriculture, water
 - Document templates



- The Program Technical Standards Working Group is establishing protocols for:
 - Energy saving measurement and verification (M&V)
 - Water saving M & V
 - Third party review
 - Methods for improving deliverables (insurance, guarantees, etc.)
 - Transparency



- The Funding Platform Working Group is establishing recommendations for:
 - Providing building owner access to all funding sources
 - Responsible loan making
 - Working closely with Texas Banks
 - Attracting large, affordable sources of capital
 - Joint projects in multiple regions
 - Lender PACE program interaction
 - Bonding
 - Risk reduction: Cash-flow/Reserves/Credit enhancements

- The Education, Marketing and Training Working Group is:
 - Reaching out to municipalities and counties with articles, this webinar, etc. to inform about PACE in a Box
 - Working with the coalition to design a state-wide education campaign for local communities, building owners, lenders and contractors
 - Working with the coalition to develop a state-wide marketing campaign for local communities, building owners, lenders and contractors
 - Working with the coalition to create state-wide training programs for local officials, third party reviewers, etc.



PACE in a Box

SB 385 Creates Good things for Texas Communities:

- All authority is local and voluntary
- Taxpayer dollars are not necessary
- No mandates, no picking winners and losers
- Free market at work (building manager CAN invest in retrofits with the CFO's blessing & lender consent)
- Keep the Texas economic engine primed by creating economy & jobs; money now burned in utility bills is capitalized and contributes to the local economy!



Anticipating PACE in a Box

- Interested in PACE? Here's what you can do now:
 - Join the Texas PACE Coalition and help create PACE in a Box. Sign up on the "Contact Us" page at www.KeepingPACEinTexas.org
 - Begin conversations about why PACE and its economic development outcomes are good for your community and your businesses
 - Begin conversations with your neighbors about the best way to consider a regional or multi-county program
 - Resources:
 - www.KeepingPACEinTexas.org
 - www.PACENow.org







Introducing PACE in Texas Doug Lewin Executive Director, SPEER

What is SPEER?

- Member-based, non-profit organization
- The Newest Regional Energy Efficiency Organization (REEO)
- Established 2011
- 32 members



Why PACE is important

What are the most difficult obstacles to your organization's implementation of smart energy infrastructure?

Initial cost 46%

Lack of staff to evaluate 13% new technology

Doubt about whether a project will deliver expected 12% value/benefits

Lack of support from organization's leadership

9%

Confusion about tax incentives, rebates, credits, etc

7%

Technical complexity 6%

Confusion about 5% financing options

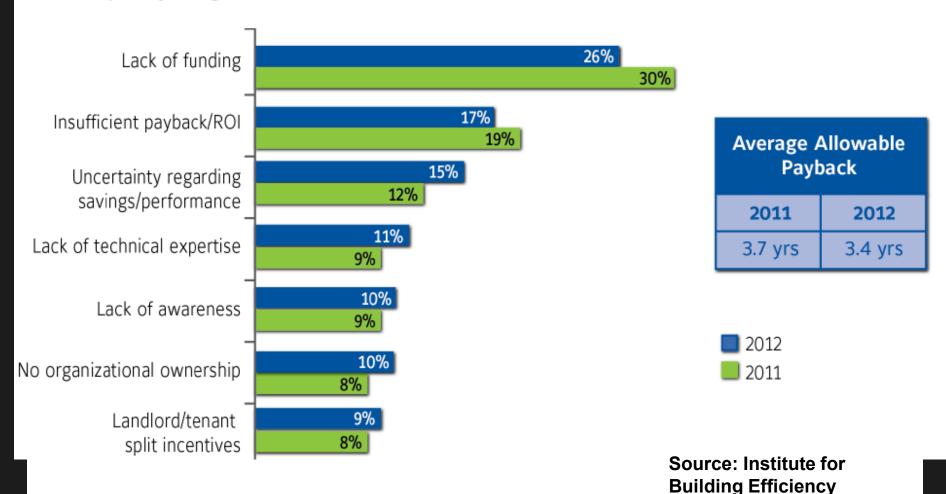
Lack of understanding about smart technology options

Initial Cost Cited as the Most Difficult Obstacle to Implementing Smart Technology							
Organizations that own and occupy							
Organizations that lease as tenants	52%						
Organizations that own and lease to others	66%						

Source: Stamats Building Media November 2011

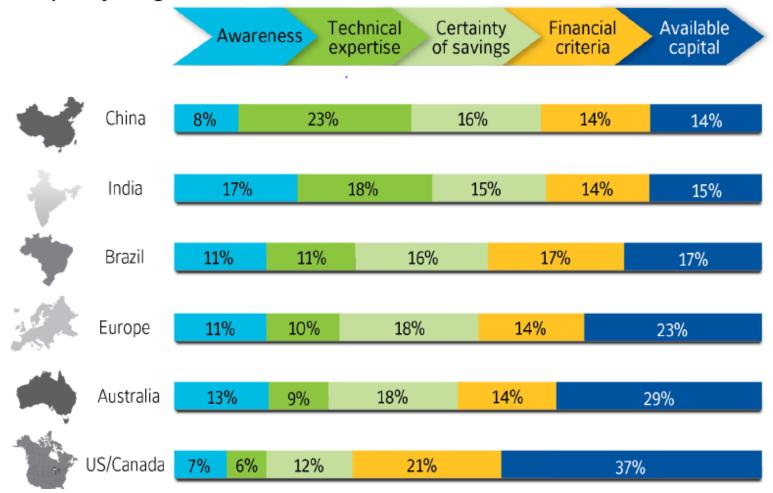
PACE tackles key barriers

What is the top barrier to pursuing energy efficiency for your company/organization?



PACE tackles key barriers

What is the top barrier to pursuing energy efficiency for your company/organization?



PACE solves a variety of problems

Reason for not spending on energy efficiency

Lack of capital

Banks won't lend

- Takes too long to receive ROI
- Lose money if property sold before ROI realized

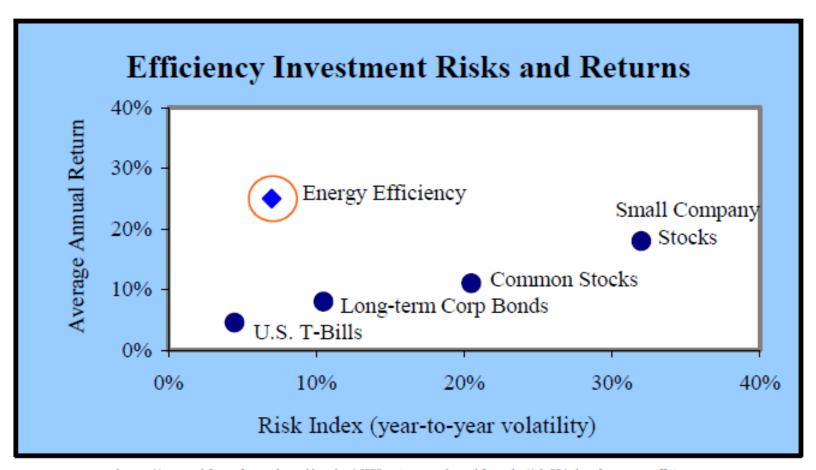
How PACE fixes it

- Capital available from private sector
- Banks like certainty of PACE loans paid back with senior lien
- PACE projects are cash flow positive on day one

Debt transfers to new

Efficiency Investments

Figure 2. Efficiency Investments: High Returns, Low Risk.



Source: Vanguard Group for stocks and bonds. ACEEE estimates adapted from the U.S. EPA data for energy efficiency.

Where is PACE happening already?

- Connecticut
- California
- Minnesota
- Michigan
- Florida
- New York
- Ohio
- And soon: TEXAS

For a complete list of programs, see

http://pacenow.or g/resources/allprograms/

There is no easy button for PACE

- But SECO, Keeping PACE in Texas, SPEER, and other organizations are working to make it as easy as possible.
- You can get involved with that process.
- Or let us know if you'd rather wait and be notified as we produce results which you might want use (model resolutions, standard documents, etc).
- Consistency is essential for PACE to work throughout the state.

Work Ahead

- Working to provide PACE Toolkit with consistent/standard:
 - Model resolution
 - Consent document
 - Underwriting criteria
 - Measurement and verification of savings
- This will take several months. Many details to work through.
- We want to do this right the first time!

So, what's a local government to do?

- Get involved with working groups. Sign up at: http://www.keepingpaceintexas.org/contact-us/
- Read through resources to familiarize yourself with various models for how to implement PACE: www.eepartnership.org/financing-clean-energy/)
- Provide input for model resolutions, standards, implementation methods, etc., which can be applied consistently

City/County Program Team

- After consistent resolutions, forms, etc. are distributed, local governments may want to convene program teams including:
 - Sr. Staff from Mayor/City Manager/County Judge/County Administrator's office
 - Legal Counsel and/or bond counsel
 - Sustainability office (if applicable)
 - Local water/energy utility (if public/municipal)
 - Tax Collector or staff
- Local Elected official(s) to champion PACE is also needed

Key Decisions

Working groups will be working through these, and many other, questions to arrive at recommendations for consistent implementation:

- Individual projects only, or portfolio of projects?
- List of approved measures or case-by case (or hybrid approach)?
- Which standards for contractors?
- What type/level of energy audit to require?

Collaboration

- Our goals are to make it as easy as possible for local governments and to enable consistent implementation of PACE programs.
- SECO, Keeping PACE in Texas, SPEER, and many other organizations and companies will be collaborating to achieve these goals.
- Local governments are welcome and invited to participate in collaborative working group efforts.
- Participation in working groups is not required to benefit from their results: We are happy to keep you apprised of working groups' progress and share finished products (templates, toolkits, model policies, etc.)

Key Takeaways

- Very important that first PACE districts in Texas work very well.
- If you want to act quickly, please participate in working groups. Sign up at http://www.keepingpaceintexas.org/contact-us/
- If you don't want to, or can't participate, we will have more webinars to update you on progress of toolkits, model policies, etc.
- Your city/county can make a big difference for constituents and businesses by adopting PACE.

Contact Information

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Sign up for working groups at:

http://www.keepingpaceintexas.org/contact-us/

Webinar Q&A

http://seco.cpa.state.tx.us/PACE/