



TNMP's

Commercial Energy Efficiency Programs

2019 Kick-Off



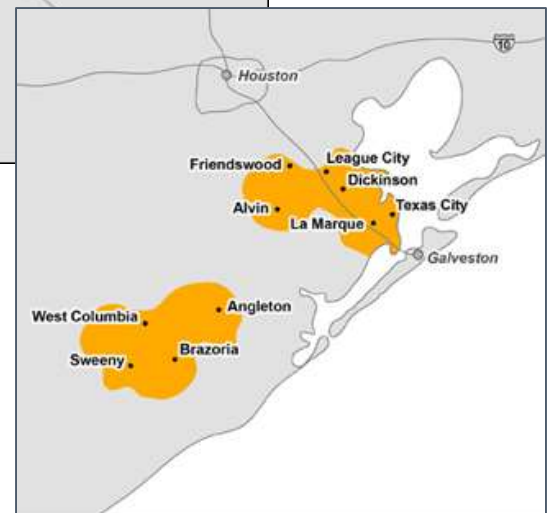
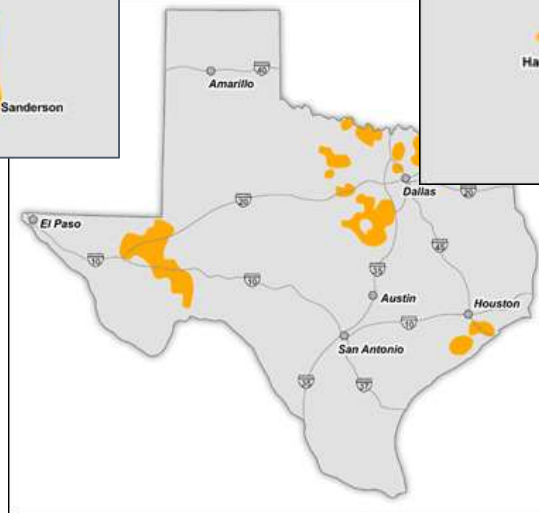
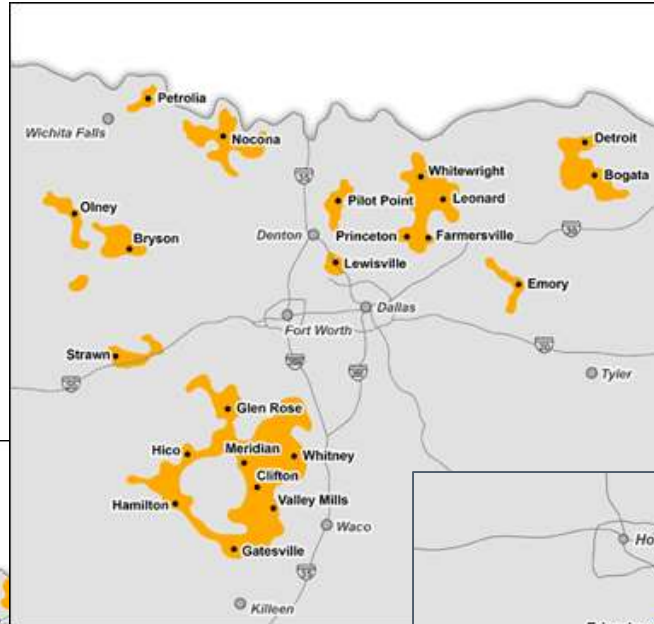
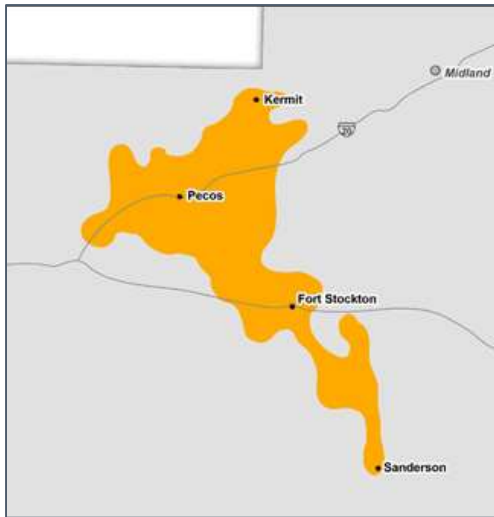
January 17, 2019

Agenda



- ★ Introductions
- ★ Program Overviews
 - Commercial Solutions
 - SCORE/CitySmart
- ★ 2018 Results and Success Stories
- ★ 2019 Updates and Key Changes
- ★ Reminders
- ★ Q&A

Where is TNMP?



Team Roles



Program Administrator

CLEARResult

Program Implementer

Introductions



★ TNMP (Program Administrator)

- Stefani Case, Energy Efficiency Manager
- Ashley Mitchell, Energy Efficiency Specialist

★ CLEAResult (Program Implementer)

- Fred Wu, Program Director
- Michael Skeen, Senior Program Consultant (North/Central/West)
- Josh Campbell, Program Manager (Gulf)
- Boone Drummond, Energy Engineer
- Emmett Ballard, Commercial Energy Auditor

Program Background



- ★ Why does TNMP offer energy efficiency programs?
- ★ How is energy efficiency a resource?
- ★ Who can participate?
- ★ What programs are offered?



Program Overviews

★ For commercial business customers

★ Offers:

- Cash Incentives (varies per measure)
- Opportunity Assessments, Plan, Review, and Engineering Analysis
- Technical Assistance
- Communications Support

★ Updates:

- LED tube lighting will be incentivized again
 - Type B and C only.
- New measures
 - Entrance and Exit Door Air Infiltration
 - Door Gaskets (walk-in, reach-in coolers and freezers)

★ For K-12, higher education, and local government

★ Offers:

- Cash Incentives
- Energy Performance Benchmarking
- Energy Master Planning Workshop
- Opportunity Assessments, Plan Review, and Engineering Analysis
- Technical Assistance
- Communications Support

★ Updates:

- LED tube lighting will be incentivized again (type B and C only)
- New measures: Door Air Infiltration, Cooler/Freezer Gaskets, Sport Arena lighting

Small SCORE



- ★ For specified K-12 school districts in underserved areas of TNMP's service area with <2,000 students enrolled.
- ★ Offers:
 - Higher Cash Incentives: Additional \$100/kW (excluding solar)
 - Please contact your regional program representative for additional details

2019 Incentive Rates



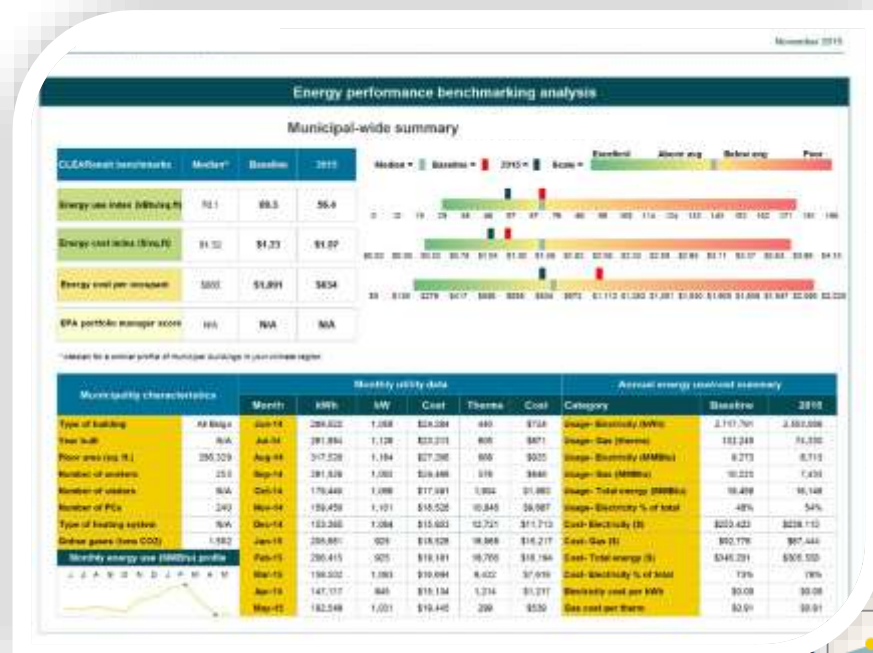
Lighting & LED tubes	\$100/kW	+	\$0.02/kWh
LEDs	\$150/kW	+	\$0.03/kWh
HVAC DX	\$125/kW	+	\$0.03/kWh
Chiller	\$150/kW	+	\$0.03/kWh
Motors	\$150/kW	+	\$0.03/kWh
VFD	\$100/kW	+	\$0.02/kWh
Window Film	\$50/kW	+	\$0.02/kWh
Roofing	\$150/kW	+	\$0.03/kWh
Solar PV	\$200/kW	+	\$0.04/kWh
Other	\$150/kW	+	\$0.03/kWh

*includes load factor cap

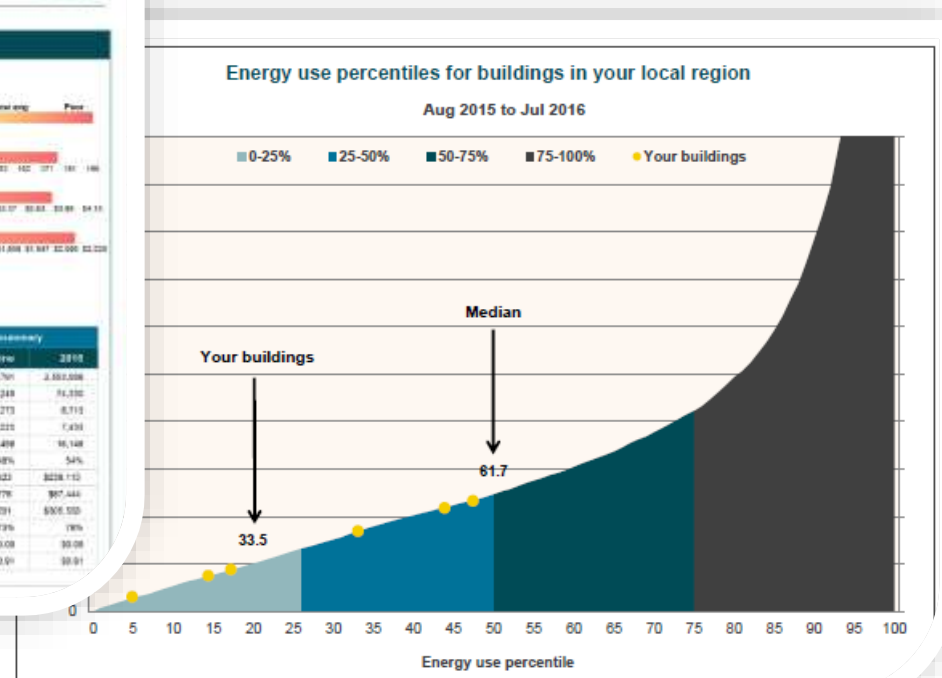
Benchmarking



- ★ Compare facility energy usage by square footage, type, vintage, etc.
- ★ Provides a starting point (if needed) to set energy management goals



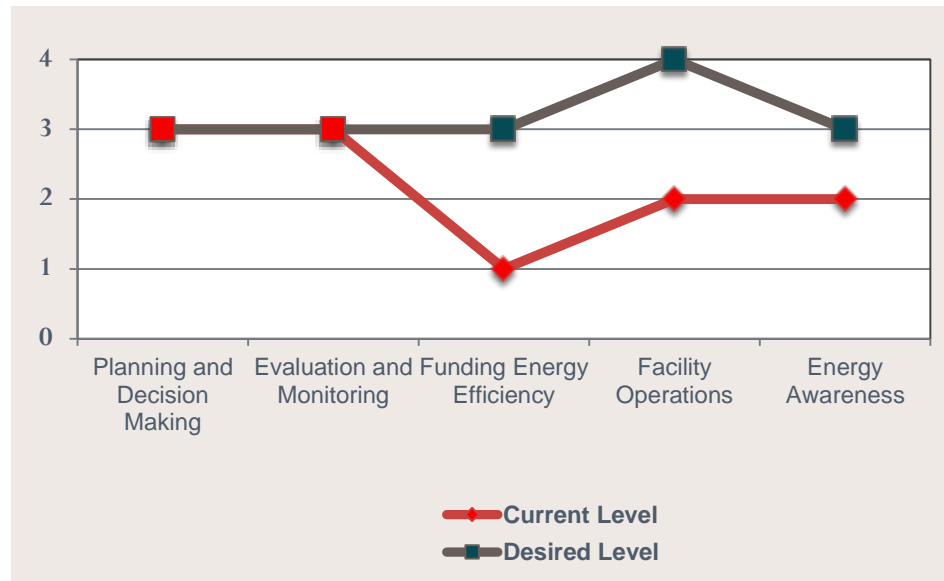
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Energy Master Planning



- ★ Assemble decision makers to set energy management criteria and goals
- ★ Set the path and take control of your own energy destiny



Technical Assistance



- Move projects forward by helping participants identify, develop, and procure cost-effective EE investments
- Provide vendor neutral recommendations and/or design guidelines



Vendor Neutrality



- ★ We are connectors in the markets we serve
 - No ties to manufacturers or installation firms
 - Program **does not** sell products or charge for services
 - These are no-cost Programs

- ★ We want projects to happen efficiently

Communications/PR Support



Energy Efficiency Programs Bulletin

Volume 8, Issue 1 | Winter 2018



Recently Completed Projects

EUGENE KRANZ JUNIOR HIGH SCHOOL

Dickinson ISD recently completed construction of its newest campus, Kranz Junior High School, which opened to students for the 2018/2019 school year. Named after NASA flight director Eugene Kranz, the campus is equipped with LEDs, high-efficiency air-cooled chillers and other energy-saving features. The emphasis on energy-efficient design complements the NASA theme that is present throughout the campus, including a miniature version of the Space Shuttle Endeavour. In total, the energy-efficient HVAC and lighting design strategies will help the district save over 750,500 kWh annually.



TRUE CROSS CATHOLIC SCHOOL

The True Cross Catholic School in Dickinson, Texas recently completed a campus-wide interior lighting retrofit to LEDs. Following severe flooding from Hurricane Harvey, the campus was forced to undergo major interior renovation to get the facility back up and running. New floors, walls and electrical infrastructure were all required, giving the campus an excellent opportunity to replace aged fluorescent lighting with new LED fixtures. The lighting measure alone is estimated to save the school over 88 MWh annually.



GLEN ROSE ISD

Following this year's upgrades, the bright, lowered lighting is helping to the classroom upgrades. TNMP awarded the district with \$28,608.

MARY KAY INC.

In partnership with TNMP, Mary Kay Inc recently presented a \$50,000 check to Denton County Friends of the Family, the county's only shelter and outreach provider for those impacted by domestic violence and sexual abuse. The presentation came during the grand opening of their Lewisville-based manufacturing and research and development facility, which received over \$40,000 in TNMP incentives for high-efficiency LEDs and HVAC equipment.





2018 Results

2018 Program Results



Demand Savings (kW)	Annual Energy Savings (kWh)	Cash Incentives
1,281	6,282,967	\$383,001

- ★ 80 energy efficiency projects completed
- ★ 44 different partners (customers) participated
- ★ \$5.6M in lifetime energy savings (based on 2019 impacts)

Success Story: North Texas



- ★ New construction lighting and HVAC - (Mary Kay, Lewisville)
 - High efficiency LEDs throughout warehouse, manufacturing plant, and office.
- ★ Savings: 155 kW / 678,654 kWh / \$63,298 saved annually.
- ★ Incentive: \$40,456



Success Story: Central Texas



- ★ Districtwide interior lighting retrofit– (Glen Rose ISD)
 - Completed upgrades of inside and remaining outside lighting to LED.
- ★ Savings: 93.87 kW / 511,842 kWh / \$46,460 saved annually
- ★ Incentives: \$28,608



Success Story: Gulf Coast



- ★ New Kranz Junior High School– (Dickinson ISD)
 - LED lighting
 - Lighting controls
 - High efficiency air cooled chillers and DX units
- ★ Savings: 195 kW / 750,500 kWh / \$70,000 saved annually
- ★ Incentives: \$50,100



Historical Program Results



Program Name	Demand Savings (kW)	Energy Savings (kWh/yr)	Cash Incentives (\$)
SCORE/ CitySmart	10,775	33,058,000	\$2,053,000
Comm. Solutions	6,522	31,361,000	\$1,490,000
TOTAL	17,297	64,419,000	\$3,543,000

- ★ Over 1,100 projects completed since 2008
- ★ Annual energy savings from installed measures =
\$5,797,710 !

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2019 Updates / Changes

2019 Program Goals



Program Name	Demand Savings (kW)	Energy Savings (kWh/yr)	Cash Incentives (\$)
SCORE / CitySmart	685	2,580,972	\$170,477
Comm. Solutions	865	4,093,868	\$248,970
TOTAL	1,550	6,674,840	\$419,446

2019 Important Updates



- New Measures
 - Entrance/Exit Door Air infiltration
 - Door Gaskets for Walk-In and Reach-In Coolers and Freezers
 - Sport Arena Lighting: Deemed Measure
- LED tubes do qualify for incentives
 - Only type B and C tubes
 - All LEDs must be currently listed on an acceptable rating agency's website at time of project application.
 - DLC, ENERGY STAR, Lighting Facts, CEE
- Incentive caps:

2019 goals	kW	kWh	Incentive budget	20% Partner cap	Solar cap
Commercial Solutions	865	4,093,868	\$ 248,970	\$ 49,794	\$ 83,889
SCORE/CitySmart	685	2,580,972	\$ 170,477	\$ 34,095	

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Reminders

Ineligible Measures



- ★ Removable measures (e.g. most plug loads)
- ★ Cogeneration or self generation (except renewable)
- ★ Measures that require no capital investment
- ★ Thermal energy storage

Typical Project Process



Memorandum of Understanding or Project Agreement & Project Application Form

Pre-Inspection for retrofit projects

Construction

Post-Inspection

Engineering Verification & Incentive Payment

Project Timelines



★ Program Year

- January 1, 2019 – November 30, 2019
- Projects completing in December may be eligible to participate in the following year's program, subject to program design modifications

Key Points



★ Incentive reservations are critical:

- Programs review details and conduct any necessary pre-installation inspections.
- Program representatives will confirm project funding, scope, and timeline before reserving incentives.

★ All projects and measures must meet eligibility requirements set out in TRM 6.0 (<http://www.texasefficiency.com/>)

Program Website



Energy Efficiency Programs



Now is the time to reduce your energy usage and increase your savings. We have customized incentive programs for every customer, whether you are interested in residential or commercial programs. With something for everybody, TNMP puts the power to save in your hands.



Find a Contractor

Find a Contractor
(Residential Customers - Existing Homes)

Find a Homebuilder
(Residential Customers - New Homes)

Find a Contractor
(Small Business Customers)



Homes



Business



Government



Education



Nonprofit

[FAQs & Resources](#)

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Program Website



Details	Eligibility	Process	Resources
<p>The 2019 Commercial Solutions Program is offered to any TNMP non-residential distribution customer (retail, real estate, healthcare, hospitality & food service, manufacturing). Educational and government facilities should check out the TNMP SCORE or CitySmart Programs instead.</p> <p>The Commercial Solutions Program provides cash incentives for energy savings based on the rates below. Participants can also access financing resources and public relations support through the Program.</p> <p>Executive Summary (Coming Soon) Download the Program Manual (Coming Soon)</p>			

The incentive for eligible energy efficiency measures are as follows:

Measure	\$/kW	\$/kWh
Lighting	\$100	\$0.02
LEDs ¹	\$150	\$0.03
HVAC DX	\$125	\$0.03
Type B & C LED Tubes	\$100	\$0.02
Chiller	\$150	\$0.03
Motors ²	\$150	\$0.03
VFD ²	\$100	\$0.02
Window Film ²	\$50	\$0.02
Roofing ²	\$150	\$0.03

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Details	Eligibility	Process	Resources
<p>The Program Agreements, Equipment Survey Forms and other relevant forms are available for downloading from the following links. Please note that these files are available for viewing and printing as Microsoft® Excel® files or Adobe® PDF documents (which are available for viewing and printing only with Adobe Acrobat Reader®.)</p> <ul style="list-style-type: none"> • Participation Agreement • Project Application Form • New Lighting Specifications • HVAC Savings Form (Coming Soon) • Lighting Savings Form (Coming Soon) 			

Available Resources



- ★ Texas Energy Managers Meeting (TEMA)
 - <http://www.texasema.org/>
- ★ Texas Technical Reference Manual (TRM)
 - <http://www.texasefficiency.com/>
- ★ Consortium for Energy Efficiency (QPL)
 - <http://cee1.org>
- ★ Design Light Consortium (QPL)
 - <http://www.designlights.org>
- ★ ENERGY STAR[®] Approved LEDs (QPL)
 - <http://www.energystar.gov/>

Available Resources

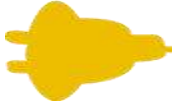


★ Department of Energy

- <http://www.energy.gov/science-innovation/energy-efficiency>

★ Amer. Council for an Energy-Efficient Economy (ACEEE)

- <http://aceee.org/portal/programs>



Questions?

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