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Item Number: 34

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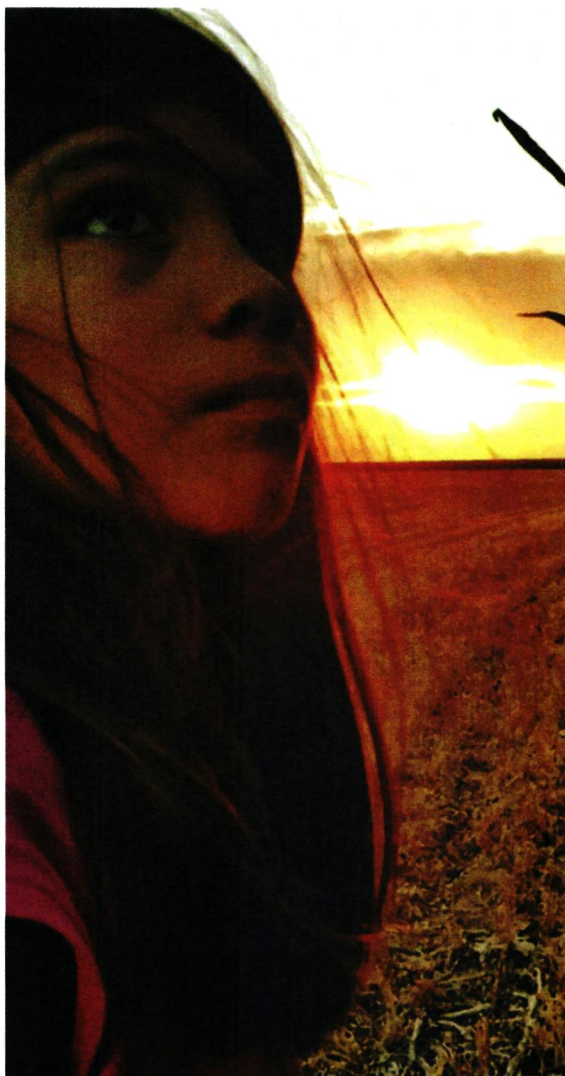
Optimizing Low-Income Energy Efficiency Program Eligibility Verification

Energy Efficiency Implementation Project
March 11, 2021



34

About TEPRI



Mission

Inspire lasting energy solutions

Approach

Link community voices with science, data,
and innovative partnerships

Deliver best available information to
decision-makers

Outcomes

Energy poverty reduction
Economic development
Community well-being

Definitions

Energy Poverty	A household does not have access to essential energy services or it cannot afford the services to maintain a healthy lifestyle.
Energy Insecurity	Taking a wider view of the physical, behavioral, and economic factors that contribute to a household's difficulty maintaining energy services, this concept describes an inability to adequately meet household basic energy needs, including heating, cooling, and lighting, among others.
Energy Burden	The percentage of household income that is needed to cover home energy expenses.

Drivers of Household Energy Insecurity

Physical

- Building envelope
- HVAC
- Appliances
- Extreme weather

Economic

- Chronic hardship
- Sudden hardship
- Inability to invest
- Access to capital

Behavioral

- Limited program awareness
- Lack of energy conservation education
- Increased usage
- Lack of control

Policy

- Insufficient or inaccessible programs
- Certain rate design practices

Adapted from: Lifting the High Energy Burden in America's Largest Cities: How Energy Efficiency Can Improve Low Income and Underserved Communities, by Ariel Dreihobl and Lauren Ross (2020)

When more than 6% of household income goes towards energy costs, it is considered high and unaffordable.

Household Income

Total household income (before taxes) for the same 12 month period



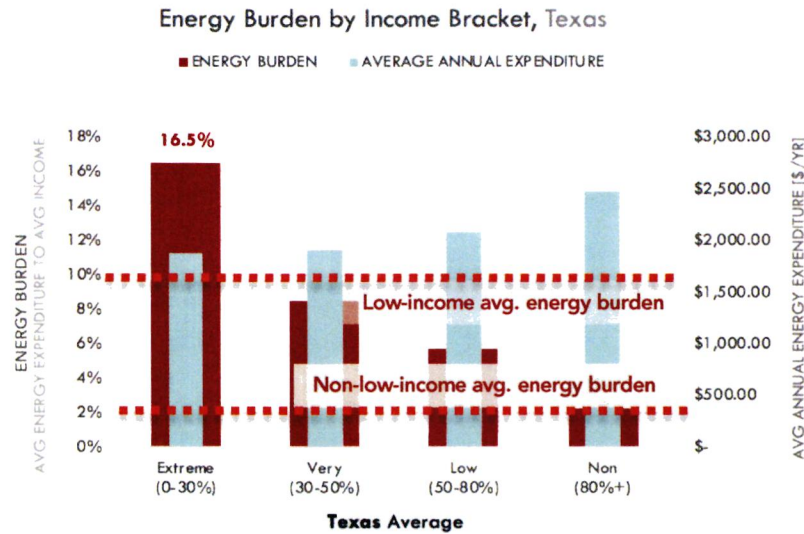
Energy Expenditures

All household energy expenses over a 12 month period, including electricity, utility gas, and bottled fuel

It does not tell us who is going without basic energy services whether because of affordability, awareness, or accessibility.

Energy Burden in Texas

This chart compares the energy burden average for Texas across the income brackets.



41%

Low-income Population

Of the 9+ million households in Texas, 41% are 0-80% AMI (~3.8 million)

10%

Low-income Energy Burden

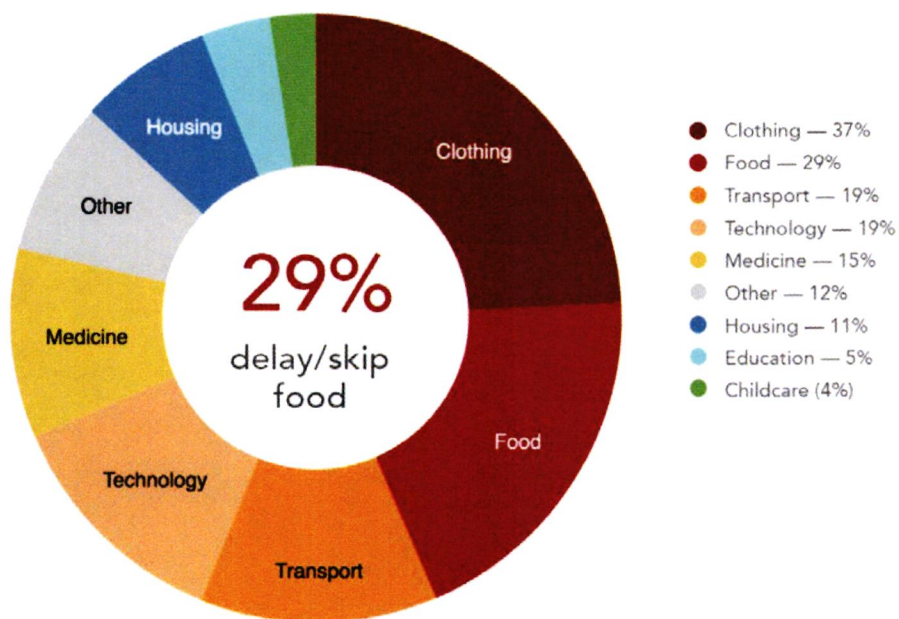
For all low-income households in Texas, the average energy burden is 10%

2%

Non-Low-Income

For non-low-income households in Texas, the average energy burden is 2%.

Trade-offs



36% of the 18- to 24-year-old segment identified that they delay or skip **food** because of their utility bills.



Survey Question

Do your utility bills cause you to delay or skip necessary spending or payments in any of the following categories? Please select all of that apply.

“

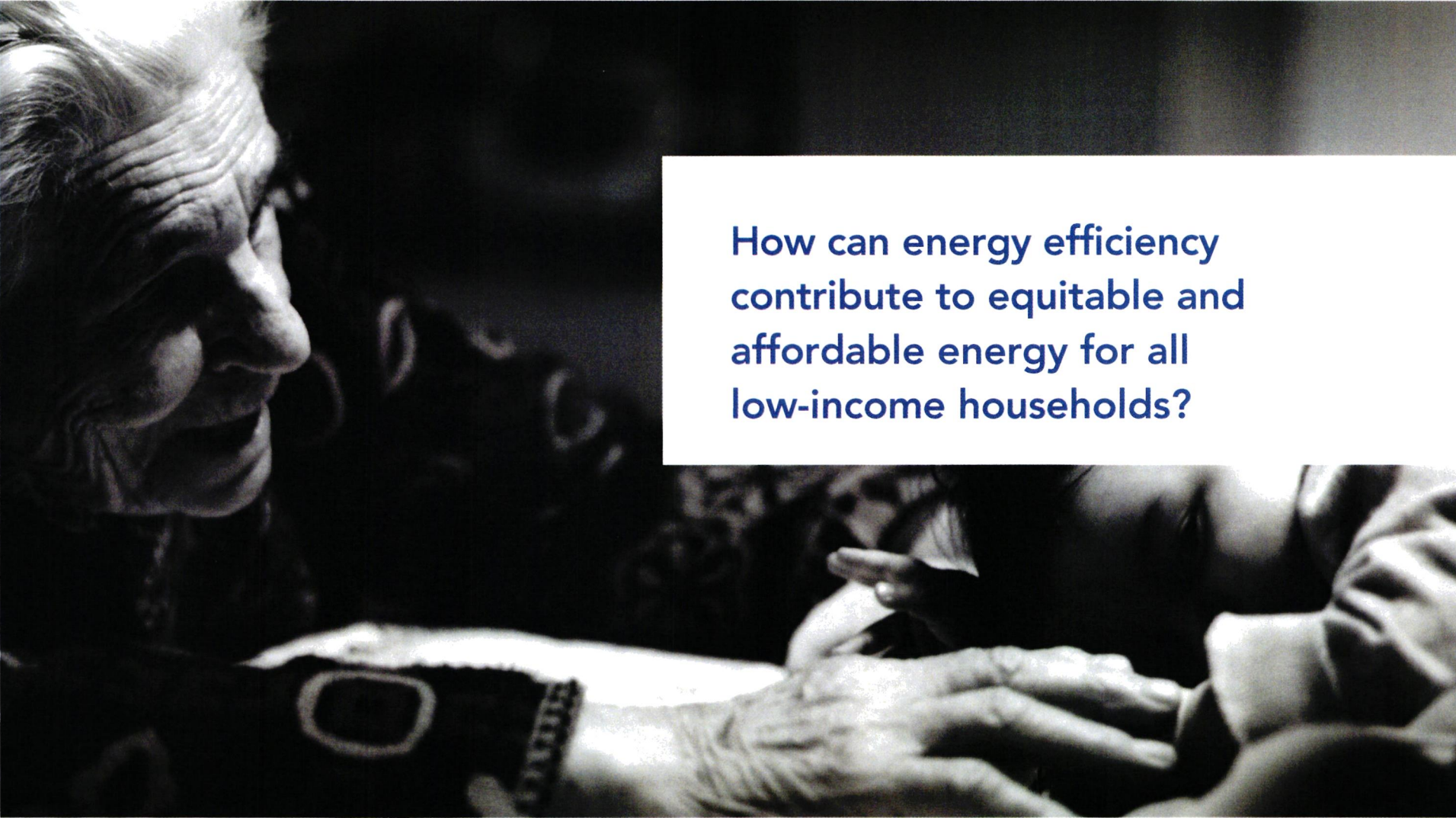
“[We trade off by] buying less food, we have been known to open the windows and go without AC in the summer and just turn on fans, and it does get hot sometimes. And then just cutting corners elsewhere, not going out to movies and doing things with the kids.”

Survey Participant in Waco, Texas



Barriers to Participation for Low-Income Customers

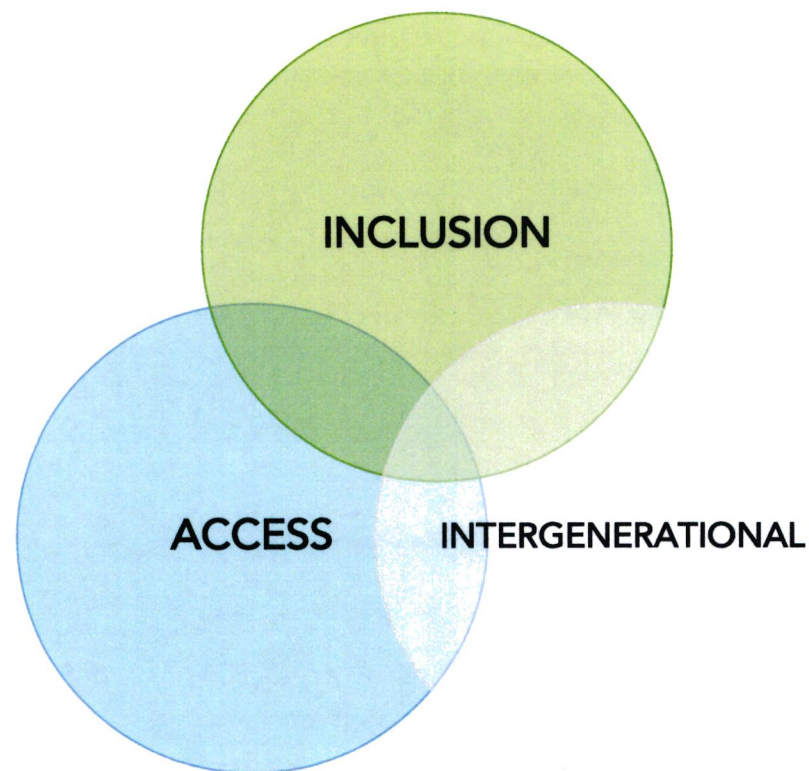
- Upfront Costs
- Low Consumer Credit
- Qualifying for Tax Benefits
- Overall Financial Insecurity
- Energy Literacy
- Internet Access
- Housing Condition (*Rooftop Solar, Weatherization*)
- Renters & Split-Incentives with Landlords
- Trust and Skepticism
- Schedule Irregularity
- Language
- Time and Attention

A black and white photograph showing an elderly woman on the left, looking down at a child's hand on the right. The woman has a watch on her left wrist. The child's hand is holding a small object. The background is dark and out of focus.

How can energy efficiency
contribute to equitable and
affordable energy for all
low-income households?

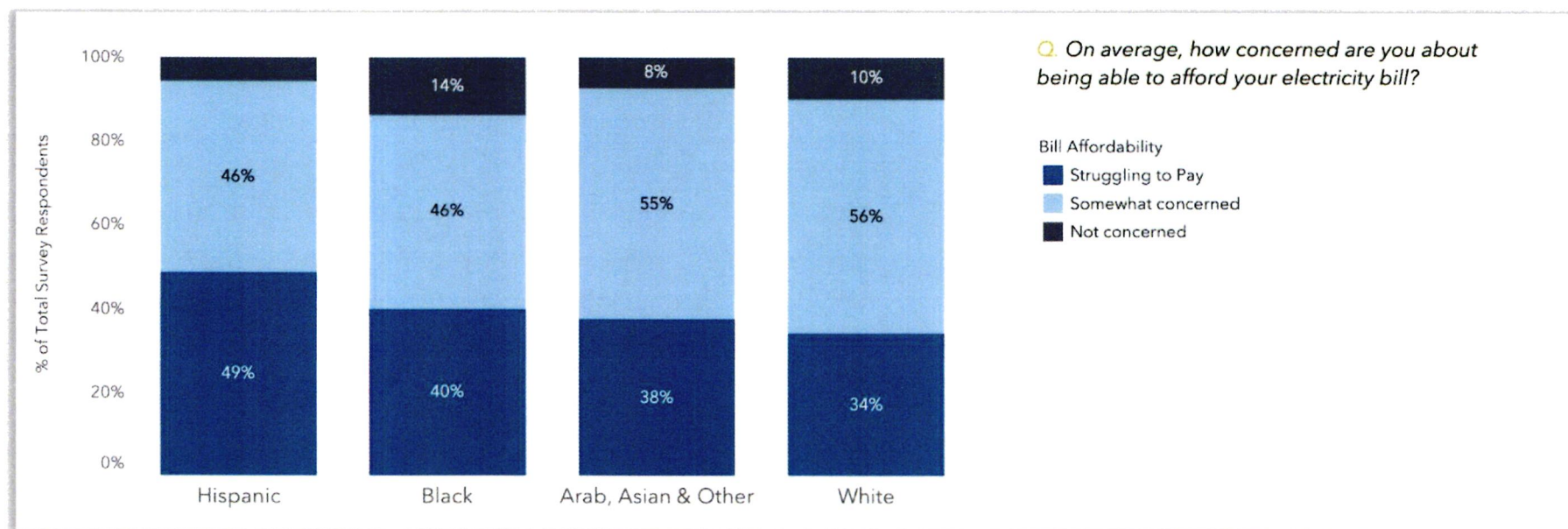
Energy Equity Framework

Energy equity must be achieved by including impacted communities in the decision-making process (**INCLUSION**), by ensuring that the benefits and burdens of the energy sector are evenly distributed (**ACCESS**), and by grappling with the unjust legacies of the past in order to create a more equitable future **INTERGENERATIONAL**.



TEPRI+SEEA Equity Framework

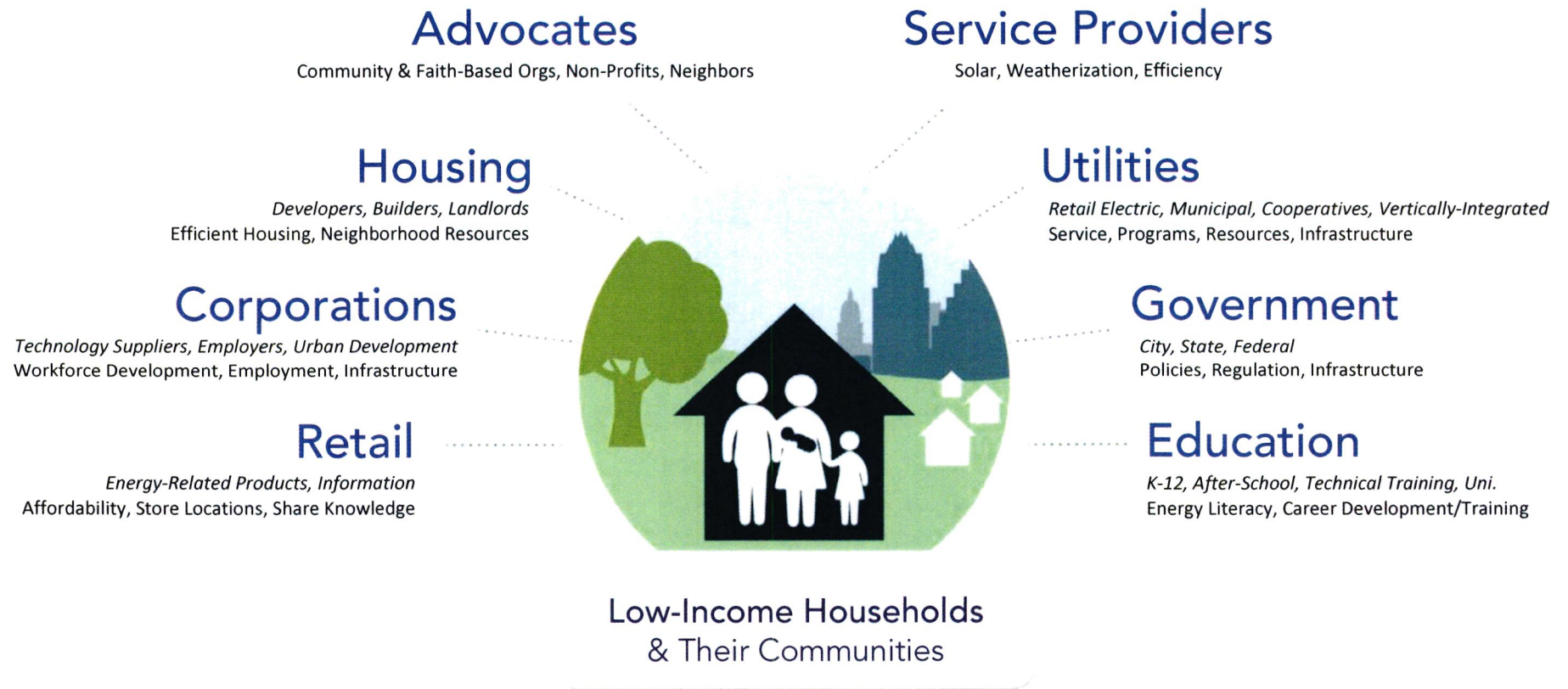
COVID-19: Deepening Energy Insecurity Among Income-Limited Texans



Pollfish survey conducted by TEPRI from **October 18-19, 2020**, n=372. Margin of error: 5%

Respondent Criteria: Live in Texas; over the age of 18; pay an electricity bill; self-identified that they are financially-strained.

Residential Electricity Ecosystem



Optimizing Low-Income Energy Efficiency Program Eligibility Verification

TEPRI will investigate and develop recommendations for program eligibility verification approaches for low-income and hard-to-reach energy efficiency programs.

The objectives of this study are to build on the work done to-date and develop recommendations for approaches that will:

- Provide assurance that the low-income and hard-to-reach energy programs are reaching people they are intended to reach
- Avoid instituting any additional barriers to program participation and encouraging greater participation
- Operate within the existing regulatory framework (require no rule change at the commission)

Research Steps



Discovery

Synthesize Materials
Investigate Other LI Programs
Collect Data
[Gather Input](#)



Analysis

Gaps & Barriers
Customer Surveys
Data Analysis
[Worksession](#)



Recommendations

Final Report
[Presentation](#)

» Blue indicates Stakeholder Participation

Our Work



RESEARCH & EVALUATION

Advance collective knowledge about low-income consumers and their relationships to energy.



DECISION TOOLS

Develop tools to stakeholders make more informed decisions about serving energy needs.



STAKEHOLDER FORUMS

Connect professional peers from power sector, social services, and housing.



OUTREACH & EDUCATION

Reinvent energy consumer engagement for more effective programs.

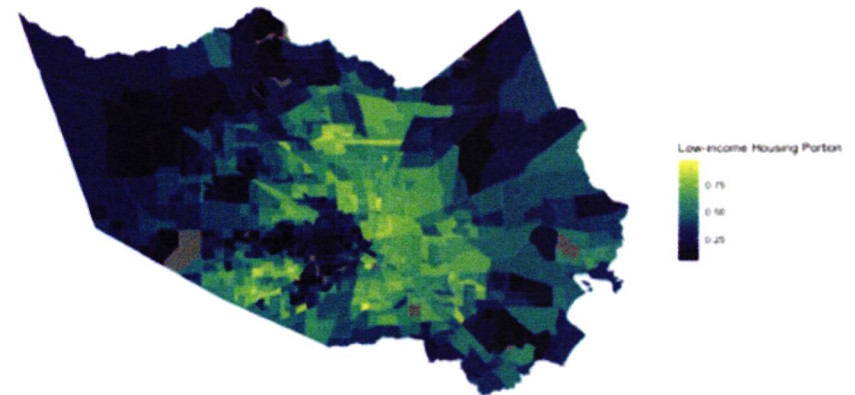
Pathways for DERs to Reduce Energy Burdens in Harris County

Purpose: To identify the pathways for using DERs (rooftop solar and energy efficiency) to address the energy affordability gap in Harris County.

Key Findings:

- Residential energy efficiency has the potential to economically eliminate the energy affordability gap in Harris County, Texas
- Solar has strong technical potential but not yet economic for low-income households.
- Community solar has potential to make solar more affordable to low-income households

Portion of Census Tracts in Harris County that are Low-income



This project was graciously made possible with the support of the Energy Foundation.

Solar+Storage Deployment for Low-Income Retail Electric Customers

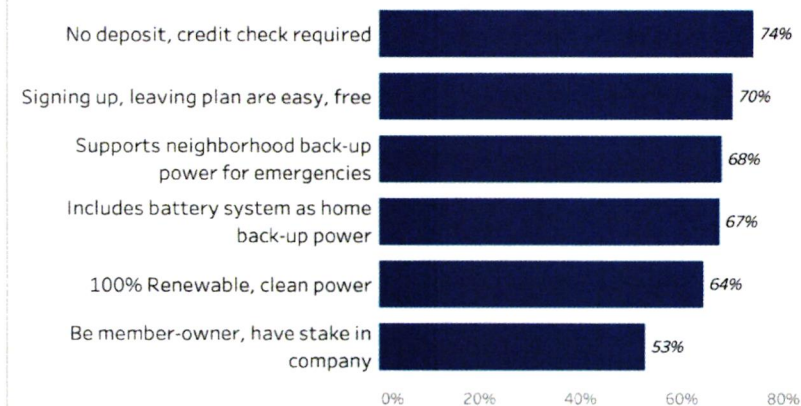
Purpose: Market research for the purpose of implementing a well-grounded engagement and outreach program to ensure successful deployment and use of a new solar+storage product in LMI communities.

Key Findings:

- Primary barriers were increasing customer awareness of provider choice in the Texas retail electric market and instilling trust that the program is authentic and beneficial.
- “No deposit, no credit check required” was the most important feature among financially-limited customers.
- Customers across the CenterPoint service area valued the resilience benefits of battery storage above the perceived benefits of solar.

Switching REPs: Preferences

For People in the **Areas of Focus**



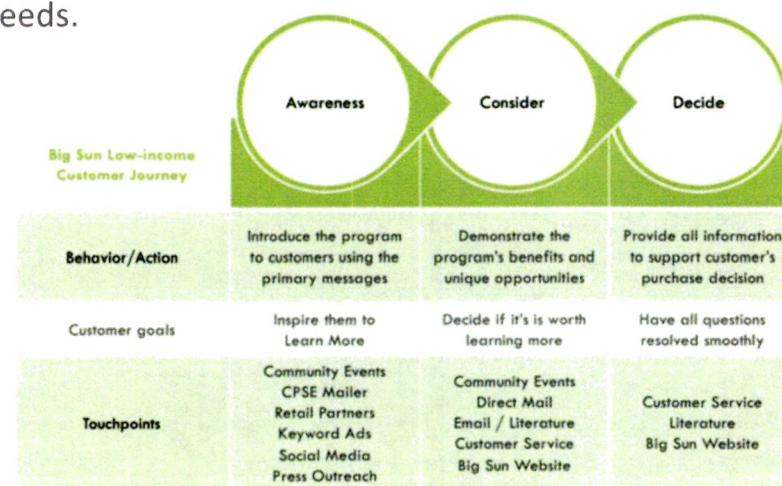
This project was graciously made possible with the support of the Jacob & Terese Hershey Foundation.

Big Sun Community Solar Assistance for Low-Income Customers

Purpose: To identify relevant design parameters to generate recommendations for the Big Sun Low-Income Community Solar initiative, to develop a strategic marketing plan for effective outreach, and to track the success of the program in meeting customer needs.

Key Findings:

- Community partnerships are key to building trust and ensuring the messages resonate authentically within each community
- “Saving money on utility bills” was the top reason to purchase Big Sun CS with “independence to own an energy source” and “reduce carbon emissions” tied for second.



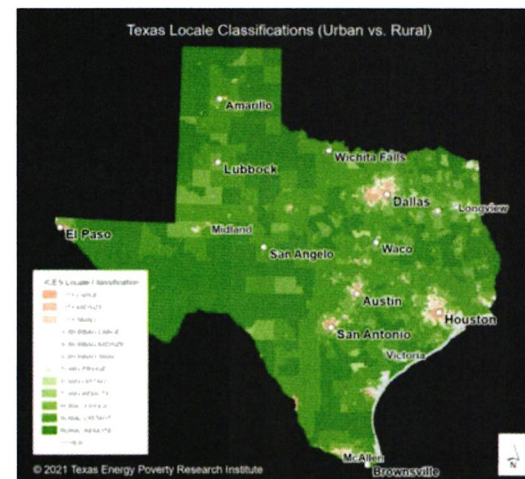
This project was completed on behalf of Go Smart Solar in coordination with CPS Energy.

Addressing High Energy Cost Burdens in Rural Texas through Clean Energy

Purpose: To educate stakeholders on the benefits of clean energy for rural households to inform program design and outreach.

Key Findings:

- The average rural electric cooperative customer consumed 15% more electricity compared to customers served by other utility types and were paying higher rates as well
- Rural Texas households living in deep poverty (0-30% AMI) had a median energy burden of 19% (333,500 households)
- In addition to the economic and environmental benefits that solar development offers rural communities through tax revenues and land leases, there are also savings related to grid and resource management of transmission, distribution, and generation resources

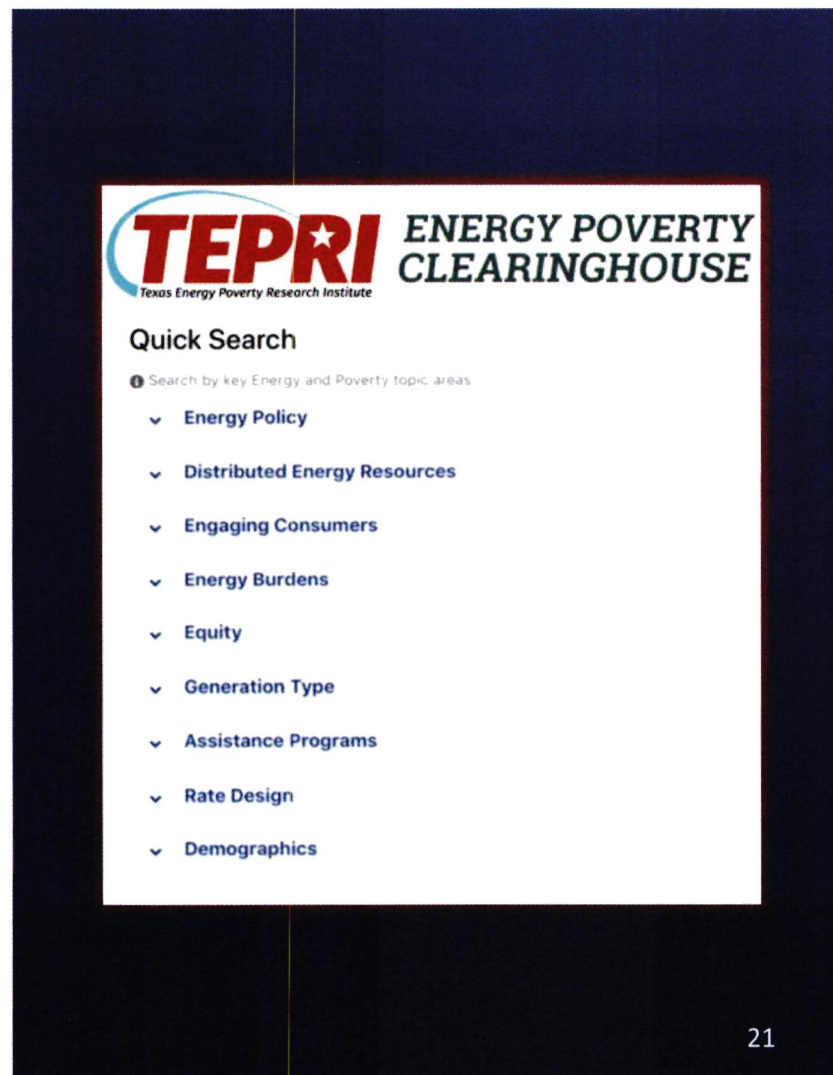


This project was graciously made possible with the support of the Educational Foundation of America.

Energy Poverty Clearinghouse

TEPRI's Energy Poverty Clearinghouse is a research tool for topics surrounding energy and poverty. It acts as a portal that holds over 600 resources that are relevant to energy poverty and low-income energy burdens in the U.S. New resources are regularly added to the Clearinghouse as they become available.

www.energy-poverty.info



Our Supporting Members



BOUNDLESS ENERGY™



Thank you.

FOR MORE INFORMATION PLEASE CONTACT:

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Austin, TX 78704

Email: dana@txenergy-poverty.org
Website: www.txenergy-poverty.org
Tel. (512) 707-1009

ENERGY EFFICIENCY PROGRAMS

Energy Efficiency Implementation
Project (EEIP)

March 11, 2021



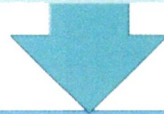


9:00 – 9:10	Welcome and Introductions (Commission staff)
9:10 – 9:40	Evaluation, Measurement and Verification Overview (Tetra Tech, the Commission's EM&V contractor)
9:40 – 10:00	Texas Energy Poverty Research Institute (TEPRI)
10:00 – 10:30	ERCOT Utilities Program Plans: Oncor, CenterPoint
10:30 – 10:45	Break
10:45 – 11:15	ERCOT Utilities Program Plans continued: AEP, TNMP
11:15 – 12:15	Non-ERCOT Utilities Program Plans: El Paso Electric, Entergy, SWEPCO, Xcel SPS (15 minutes per utility)
12:15 – 12:30	Call for 2022 TRM Updates and Wrap-up (Commission Staff)

EM&V OVERVIEW

Senate Bill 1125 2011

Established the requirement for an EM&V framework



Rulemaking 2012

Commission Energy Efficiency Rule 25.181



Commission Staff select contractor and manage EM&V

Annual EM&V since 2013, 2021 is the start of the third four-year contract

EM&V SCOPE

Claimed savings verification through program tracking data for all programs with additional activities prioritized by program

- Verify gross energy and demand savings for all energy efficiency and load management programs
- Estimate net savings through net-to-gross (NTG) research updated at least once every four years by program-type
- Calculate program and portfolio cost-effectiveness
- Provide feedback to improve program performance
- Provide ongoing technical assistance for M&V plans and savings calculations upon request
- Prepare and maintain a statewide Technical Reference Manual (TRM) annually

engineering desk reviews, on-site or remote M&V of measure installation, interval meter data analysis, consumption analyses, participant and energy efficiency service provider surveys, other in-depth interviews and benchmarking research

COMMERCIAL PRIORITIZATION

Program type	Commercial SOP	Commercial MTPs, excluding small business	Small business MTPs	Other MTPs, pilots
Percentage of PY2019 savings statewide (kW/kWh)	7 percent of statewide demand reductions and 27 percent of statewide energy savings	6 percent of statewide demand reductions and 23 percent of statewide energy savings	1 percent of statewide demand reductions and 3 percent of statewide energy savings	Medium/TBD
PY2020 evaluation priority and activity	High: desk reviews, telephone verification of measures, process and NTG participant surveys, targeted consumption analyses		Low: tracking system review and verification	
PY2021 evaluation priority and activity	Medium: desk reviews and on-site M&V, targeted consumption analyses		Medium: desk reviews and on-site M&V	
PY2022 evaluation priority and activity	Medium: desk reviews and on-site M&V, targeted consumption analyses		Low: tracking system review and verification	
PY2023 evaluation priority and activity	Medium: desk reviews, on-site M&V, targeted consumption analyses		Medium: desk reviews and on-site M&V	

RESIDENTIAL PRIORITIZATION

Program type	Residential SOP	Hard-to-reach/Low-income	New homes MTP
Percentage of PY2019 savings statewide (kW/kWh)	8 percent of statewide demand reductions and 10 percent of statewide energy savings	7 percent of statewide demand reductions and 8 percent of statewide energy savings	4 percent of statewide demand reductions and 6 percent of statewide energy savings
PY2020 evaluation priority and activity	Medium: telephone verification of measures, process and NTG participant surveys	Low: tracking system review	Low: tracking system review
PY2021 evaluation priority and activity	High: desk reviews and on-site M&V, targeted consumption analyses of updated measures		Low: tracking system review and verification
PY2022 evaluation priority and activity	Medium: desk reviews and on-site M&V	Medium: desk reviews and on-site M&V	High: builder and rater interviews
PY2023 evaluation priority and activity	High: consumption analyses of updated measures		Medium: desk reviews

UPSTREAM, MIDSTREAM, PILOT, OTHER PRIORITIZATION

Program type	Upstream or midstream MTPs	Other MTPs, pilots
Percentage of PY 2019 savings statewide (kW/kWh)	6 percent of statewide demand reductions and 16 percent of statewide energy savings	1 percent of statewide demand reductions and 1 percent of statewide energy savings
PY2020 evaluation priority and activity	Low: tracking system review	Low or Medium/TBD
PY2021 evaluation priority and activity	Low: tracking system review	Low or Medium/TBD
PY2022 evaluation priority and activity	Low: tracking system review	Low or Medium/TBD
PY2023 evaluation priority and activity	High: in-depth interviews, benchmarking research, consumption analyses for high-impact measures	Low or Medium/TBD

CROSS-SECTOR PRIORITIZATION

Program type	Load management programs (residential and nonresidential)	AC tune-ups (residential and nonresidential)	PV
Percentage of PY 2019 savings statewide (kW/kWh)	60 percent of statewide demand reductions and <1 percent of statewide energy savings	2 percent of statewide demand reductions and 3 percent of statewide energy savings	<1 percent of statewide demand reductions and 2 percent of statewide energy savings
PY2020 evaluation priority and activity	Medium: census interval meter data analysis	Low: tracking system review and verification	Medium: review of M&V calculations
PY2021 evaluation priority and activity	Medium: census interval meter data analysis	Low: tracking system review and verification	Low: tracking system review
PY2022 evaluation priority and activity	Medium: census interval meter data analysis	Medium: census review of M&V data and desk reviews	Low: tracking system review
PY2023 evaluation priority and activity	Medium: census interval meter data analysis	Low: tracking system review and verification	Medium: review of M&V calculations

LOW-INCOME/HARD-TO-REACH PROCESS IMPROVEMENT

Objective

Revise low-income/hard-to-reach eligibility verification to increase the confidence program services are going to intended customers, improve program outreach and address participation barriers, and develop efficient administration processes.

PY2021 TRM

Volumes 1-4

Distributed for EEIP review in October 2020

Filed by Commission Staff November 2020

Approved December 2020 for use in 2021

Volume 5: Implementation Guidance

will be distributed for EEIP review February 2021

Updates include guidance or clarifications on:

- Residential program tracking data, qualifying mismatched HVAC units, 40/60 M&V guidance, peak demand guidance, upstream lighting

TEXAS ENERGY POVERTY RESEARCH PRESENTATION

UTILITY PRESENTATIONS

CALL FOR 2022 TRM UPDATES

TEXAS TECHNICAL REFERENCE MANUAL— ANNUAL UPDATES

Improve

Improve accuracy of deemed savings estimates

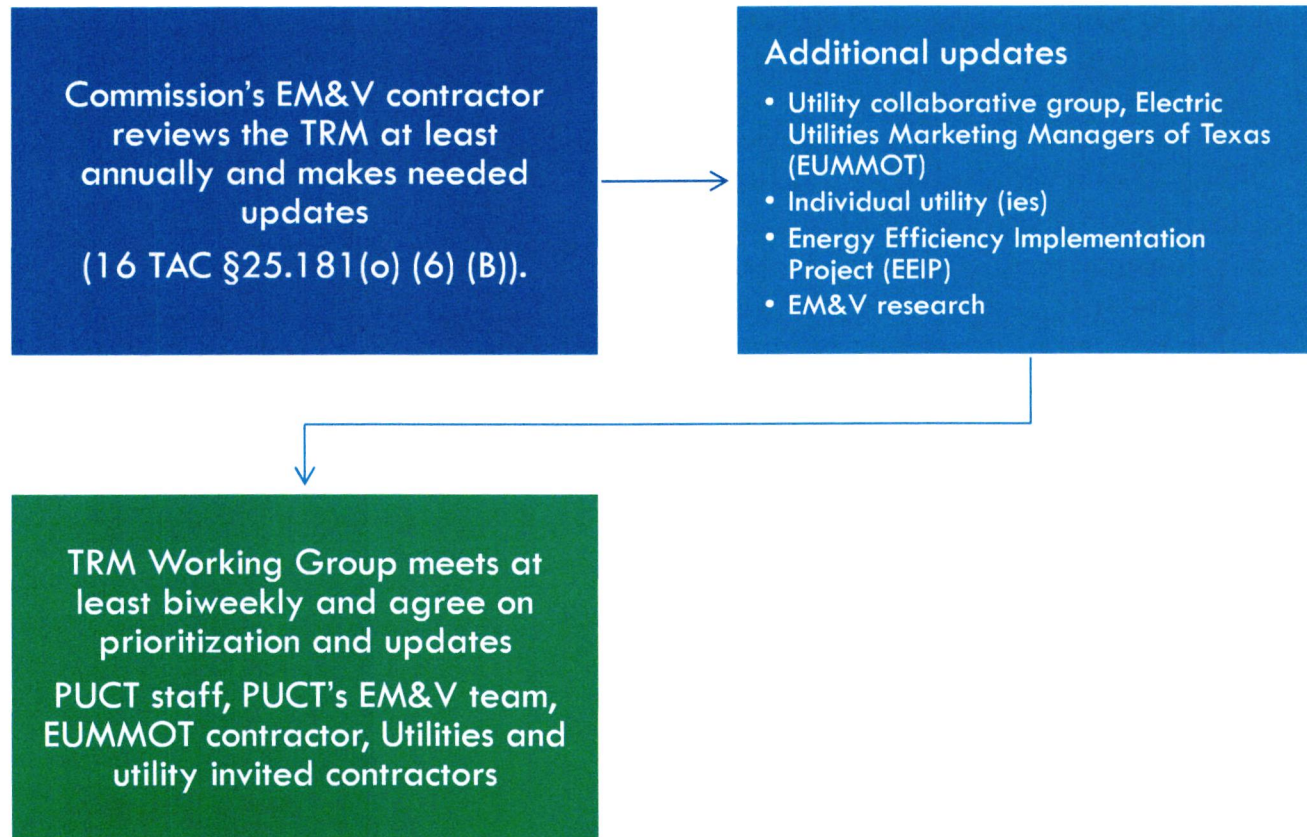
Expand

Expand savings opportunities for electric customers

Clarify

Clarify program delivery, documentation and tracking requirements

COLLABORATIVE UPDATE APPROACH



TRM FORMAT

Volume 1: TRM Overview and User Guide covers the process for TRM updates and version rollouts, weather zones, peak demand definitions, TRM structure and the format of the TRM measures

Volume 2: Residential Deemed Measures contains the measure descriptions and deemed savings estimates and algorithms for measures installed in residential dwellings.

Volume 3: Nonresidential Deemed Measures contains the measure descriptions and deemed savings estimates and algorithms for measures installed in nonresidential businesses.

Volume 4: M&V Protocols contains protocols to estimate claimed savings for measures that are not good candidates for deemed savings across both sectors

Volume 5: Implementation Guidance contains the PUCT's EM&V team recommendations regarding program implementation that may affect claimed savings

Commission's EM&V contractor is tasked with updating the TRM at least annually

Commission Staff review and file approval of the updated TRM

Following staff approval there is a 45-day period to file a petition to challenge changes approved by staff.

Staff-approved updates to the TRM that are not challenged via the petition process are considered approved by the Commission.

TECHNICAL REFERENCE MANUAL APPROVAL PROCESS



Call for TRM Updates



Staff solicits
stakeholder input
through the EEIP



February EEIP
meeting requests TRM
updates for 2022 to
be submitted by May
1, 2021



EEIP list-serve request
for TRM updates
following this meeting



Fall 2021 EEIP
meeting will discuss
2022 updates and
provide 2 weeks for
EEIP review of
updated, redlined
TRM



Staff will file the TRM
October or November
after the 2 weeks EEIP
review

TRM UPDATE TIMELINE

TRM UPDATE SUBMISSIONS

Submit requests for 2022 TRM updates to:

Therese Harris,

Therese.Harris@puc.texas.gov

Lark Lee,

Lark.Lee@tetratech.com

Rob McKay,

Rob.McKay@tetratech.com



ELECTRIC UTILITY
MARKETING MANAGERS
OF TEXAS



EEIP Program Summary

MARCH 11, 2021



ONCOR

PROGRAM PLAN SUMMARY



2021 Projections			
Programs	Budget	kW	kWh
Commercial	\$19,479,096	78,536	110,618,913
Commercial SOP	\$ 8,405,181	12,562	67,009,760
Emergency Load Management SOP	-	-	-
Commercial Load Management SOP	\$ 2,394,000	60,000	180,000
Solar PV SOP	\$ 2,323,820	1,534	4,979,022
Small Business Direct Install MTP	\$ 3,453,630	2,610	15,698,285
Retail Platform MTP	\$ 240,845	891	4,003,671
Commercial HVAC Distributor MTP	\$ 1,496,820	939	5,748,175
Retro-Commissioning MTP	\$ 1,164,800	0	13,000,000
Residential	\$19,237,075	69,709	119,271,763
Home Energy Efficiency SOP	\$ 10,434,600	20,873	35,602,085
Solar PV SOP	\$ 1,539,920	1,015	3,409,927
Residential Load Management SOP	\$ 1,186,500	30,000	90,000
Retail Platform MTP	\$ 4,576,055	16,921	76,069,751
Residential New Home Construction MTP	\$ 1,500,000	900	4,100,000
Hard-to-Reach	\$12,754,350	16,733	24,642,075
Hard-to-Reach SOP	\$ 7,554,350	14,021	20,631,773
Targeted Weatherization Low-Income SOP	\$ 5,200,000	2,712	4,010,302
R&D	\$ 150,000		
Total	\$51,470,521	164,978	254,532,751
EM&V	\$ 735,989		
Total	\$52,356,510		

2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Commercial SOP	Home Energy Efficiency SOP	Hard-to-Reach SOP
Emergency Load Management SOP	Solar PV SOP	Targeted Weatherization Low-Income SOP
Commercial Load Management SOP	Residential Load Management SOP	
Small Business Direct Install MTP	Retail Products Program MTP	
Solar PV SOP	Residential New Home Construction MTP	
Retail Products Program MTP		
Commercial Midstream Program MTP		
Energy Concierge Program MTP (Pilot)		

2020/21 COVID-19 IMPACTS

Programs

- Small Business Direct Install Program shutdown from March to May 2020
- All other Energy Efficiency Programs continued to be operational
- No forecasted shutdown of programs in 2021

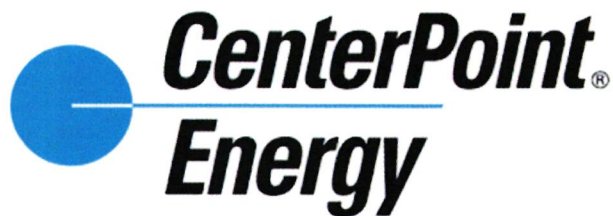
Processes

- Implementation of Desk Review Processes in 2020 and will continue on for 2021
- Oncor Staff working remotely
- Lower utility administrative cost due to travel restrictions and remote work



CENTERPOINT ENERGY

PROGRAM PLAN SUMMARY



2021 Projections			
Programs	Budget	kW	kWh
Large Commercial	\$ 19,207,600	128,077	140,455,616
Commercial Standard Offer Program (SOP)	\$ 5,703,264	11,700	75,000,000
Commercial MTP (SCORE, Healthcare, Data Center)	\$ 7,482,324	7,300	47,500,000
Commercial Load Management (SOP)	\$ 3,623,112	104,761	628,566
Retro-Commissioning MTP	\$ 1,358,109	3,100	10,800,000
REP (Commercial CoolSaver)	\$ 107,568	550	1,400,000
Advanced Lighting Commercial	\$ 56,923	196	1,044,835
Mid-Stream MTP (Commercial Kitchen Equipment Pilot)	\$ 876,300	470	4,082,215
Residential and Small Commercial	\$ 12,692,725	37,975	62,358,700
REP (Residential CoolSaver and Efficiency Connection)	\$ 1,403,812	2,600	7,000,000
Residential Load Management SOP	\$ 972,800	17,550	105,300
Residential & Small Commercial (SC) SOP	\$ 356,591	600	1,000,000
Smart Thermostat Program	\$ 595,000	-	3,800,000
Advanced Lighting Residential	\$ 1,081,528	3,725	19,851,862
Mid-Stream MTP (A/C and Pool Pump Distributor)	\$ 2,840,553	3,500	9,855,000
Multi-Family MTP Market Rate	\$ 1,051,903	2,000	3,200,000
CenterPoint Energy High Efficiency Homes MTP	\$ 4,052,706	8,000	17,500,000
Smart Home Energy Management System (Pilot)	\$ 337,832	-	46,538
Hard-to-Reach	\$ 5,852,260	5,578	9,088,598
Hard-to-Reach SOP	\$ 627,769	876	915,251
Multi-Family MTP Hard-to-Reach	\$ 331,142	325	645,000
Targeted Low Income MTP (Agencies in Action)	\$ 4,893,350	4,377	7,528,347
R&D	\$ 500,000		
Total	\$ 38,252,585	171,630	211,902,914
EM&V	\$ 541,294		
Total	\$ 38,793,879	171,630	211,902,914

2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Large Commercial SOP	REP (CoolSaver & Efficiency Connection)	Hard-to-Reach SOP
Commercial MTP (SCORE, Healthcare, Data Center)	Residential DR	Multi-Family MTP
Large Comm Load Management MTP	CenterPoint Energy High Efficiency Homes MTP	Targeted LI MTP (Agencies in Action)
Retro-Commissioning MTP	Residential & SC SOP	
REP (Commercial CoolSaver)	Advanced Lighting Residential	
Advanced Lighting Commercial	Mid-Stream MTP (A/C and Pool Pump Distributor)	
Commercial Mid-Stream (CHEF)	Multi-Family MTP	
	Smart Thermostat	

NEW PROGRAM HIGHLIGHT: CHEF

CHEF Program Overview

- CHEF is a Commercial Market Transformation Program designed to encourage the adoption of efficient kitchen equipment and utilizes commercial foodservice measures available in the TRM.
- CHEF targets small and mid-sized business segments, which include restaurants, schools, quick service restaurants, government facilities, and more.
- The program will use a midstream model to connect to this commercial segment; first, by encouraging the adoption of higher efficiency food service equipment, and second, by further expanding CNPs reach to this customer segment through the introduction and adoption of additional measures included in the Technical Reference Manual.

Commercial
High
Efficiency
Foodservice



AEP TEXAS

PROGRAM PLAN SUMMARY



2021 Projections			
Programs	Budget	kW	kWh
Commercial	\$ 7,760,667	31,566	41,968,599
Commercial Solutions MTP	\$ 1,018,733	1,433	8,709,280
Commercial SOP	\$ 2,302,657	3,257	13,635,785
CoolSaver SM A/C Tune-Up MTP	\$ 663,000	1,393	4,376,124
Load Management SOP	\$ 823,000	21,697	119,126
Open MTP	\$ 1,364,000	1,184	4,660,806
SCORE/CitySmart MTP	\$ 1,267,610	2,061	9,680,000
SMART Source SM Solar PV MTP	\$ 321,667	541	787,477
Residential	\$ 5,866,163	8,249	16,341,619
CoolSaver SM A/C Tune-Up MTP	\$ 750,000	1,017	3,223,609
High-Performance New Homes MTP	\$ 850,000	539	1,631,874
Residential Pool Pump MTP	\$ 167,000	127	1,017,810
Residential SOP	\$ 3,754,496	6,301	9,772,250
SMART Source SM Solar PV MTP	\$ 344,667	265	696,076
Hard-to-Reach	\$ 3,555,704	3,146	4,607,721
Hard-to-Reach SOP	\$ 1,569,400	2,236	3,293,212
Targeted Low-Income Energy Efficiency Program	\$ 1,986,304	910	1,314,508
R&D	\$ 565,125		
Total	\$ 17,747,659	42,961	62,917,939
EM&V	\$ 211,988		
Total	\$ 17,959,647		

2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Commercial Solutions MTP	CoolSaver A/C Tune-up MTP	Hard-to-Reach SOP
Commercial SOP	High Performance New Homes MTP	Targeted LI Energy Efficiency
CoolSaver A/C Tune-up MTP	Residential Pool Pump Pilot MTP	
Load Management MTP	Residential SOP	
Open MTP	SMART Source Solar PV MTP	
SCORE/CitySmart MTP		
SMART Source Solar PV MTP		

2020/2021 COVID-19 Impacts



- EE employees worked remotely in 2020; will continue in 2021
- COVID-19 slowed our Commercial Programs (i.e. CSOP, LM & Solar)
- 2020 desk audits will continue until mid-2021
- 2021 Program off to a slow start



Texas-New Mexico Power

TNMP

PROGRAM PLAN SUMMARY

2021 Projections

Programs	Budget	kW	kWh
Commercial	\$ 2,032,423	6,185	6,731,163
Open for Small Business MTP	\$ 591,129	646	1,816,196
SCORE/CitySmart MTP	\$ 596,478	634	1,982,931
Commercial Solutions MTP	\$ 618,470	643	2,919,188
Load Management SOP	\$ 226,345	4,263	12,848
Residential	\$ 2,253,894	3,388	5,979,493
High-Performance Homes MTP	\$ 496,762	638	1,443,640
Residential SOP	\$ 1,757,133	2,751	4,535,853
Hard-to-Reach	\$ 1,177,097	900	1,491,212
Hard-to-Reach SOP	\$ 694,510	517	862,262
Low Income Weatherization	\$ 482,587	382	628,950
Total	\$ 5,463,415	10,473	14,201,868
EM&V	\$ 57,346		
Total	\$ 5,520,761		



2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Open for Small Business MTP	High-Performance Homes MTP	Hard-to-Reach SOP
SCORE/CitySmart MTP	Residential SOP	Low-Income Weatherization
Commercial Solutions MTP		
Load Management SOP		

Program Updates



Residential and Hard-to-Reach SOPs

COVID-19 Impacts

- ❖ Shutdowns March-April
- ❖ Cities not giving permits to work
- ❖ Customers not giving access to homes

2021 Applications

- ❖ Remain fluid
- ❖ Add direct install measures
- ❖ Increase communication with Project Sponsors
- ❖ Add focus on HVAC and “no cost” a/c tune-up

Open for Small Business and SCORE/CitySmart

COVID-19 Impacts

- ❖ Small business closures & lack of funds for projects
=
- ❖ School closures allowed for increased participation

2021 Applications

- ❖ Add “no cost” a/c tune-up
- ❖ Add Small CitySmart qualification to compliment existing Small SCORE opportunities for smaller communities



El Paso Electric

PROGRAM PLAN SUMMARY

2021 Projections

Programs	Budget	kW	kWh
Commercial	\$ 2,446,413	10,491	18,058,716
Small Commercial Solutions MTP	\$ 461,115	730	3,197,400
Large C&I Solutions MTP	\$ 1,005,396	2,011	10,569,816
Texas SCORE MTP	\$ 519,902	750	4,270,500
Commercial Load Management SOP	\$ 460,000	7,000	21,000
Residential	\$ 1,526,346	5,400	4,369,277
Residential Solutions MTP	\$ 315,000	545	954,840
LivingWise [®] MTP	\$ 346,346	200	727,600
Texas Appliance Recycling MTP	\$ 255,000	195	1,579,200
Residential Marketplace Pilot MTP	\$ 300,000	500	917,557
Residential Load Management MTP	\$ 310,000	3,960	190,080
Hard-to-Reach	\$ 600,000	800	1,051,200
Hard-to-Reach Solutions MTP	\$ 600,000	800	1,051,200
Admin	\$ 87,793		
R&D	\$ 25,000		
Total	\$ 4,685,552	16,691	23,479,193
EM&V	\$ 57,378		
Total*	\$ 4,742,930		

*Does not include EECRF Proceeding Expenses





2022/23 POTENTIAL PROGRAMS

COMMERCIAL	RESIDENTIAL	LOW INCOME
Small Commercial Solutions MTP	Residential Solutions MTP	Hard-to-Reach Solutions MTP
Large C&I Solutions MTP	LivingWise MTP	
Texas SCORE MTP	Texas Appliance Recycling MTP	
Commercial LM SOP	Residential LM MTP	
	Residential Marketplace Pilot MTP	

EPE'S RESIDENTIAL MARKETPLACE*



- Uplight Inc., selected to implement the "Residential Marketplace MTP"
- Launched: July 28, 2020
- Benefits:
 - Online Residential Customer Validation (TX Accounts Only)
 - Point of Purchase Rebates
 - Customer may elect to automatically enroll in Residential LM Program for additional incentives.
- Fraud Prevention
 - Rebate Limitations
 - Shipping address cannot be modified, product is shipped to service address tied to EPE TX account.

It's first year was a Success!

626 kW and 2,152,245 kWh

** Program results pending EM&V verification*

LEDs

- 6,832 LED Lamps
- 605 kW and 1,613,980 kWh

Smart Thermostats

- 351 Devices Purchased
- 409,266 kWh

Advanced Power Strips

- 572 Units
- 13 kW and 102,417 kWh

Energy Saving Kits

- 37 Kits
- (1) APS, (4 A19) LEDs, (1) FA, (1) LFSH
- 8 kW and 26,582 kWh



Entergy Texas

PROGRAM PLAN SUMMARY



2021 Projections			
Programs	Budget	kW	kWh
Commercial	\$ 3,368,223	10,460	15,608,000
Commercial Solutions MTP	\$ 2,940,186	3,750	15,568,000
Load Management SOP	\$ 428,037	6,710	40,000
Residential	\$ 2,966,623	3,940	8,060,000
Residential SOP	\$ 1,929,521	2,140	5,836,000
Residential Solutions MTP	\$ 1,037,102	1,800	2,224,000
Hard-To-Reach	\$ 1,151,826	1,100	3,488,000
Hard-To-Reach SOP	\$ 1,151,826	1,100	3,488,000
R&D	\$ 122,000		
Total	\$ 7,608,672	15,500	27,156,000
EM&V	\$ 104,402		
Total	\$ 7,713,074		

2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Commercial Solutions MTP	Residential SOP	Hard-to-Reach SOP
Load Management SOP	Residential Solutions MTP	

Residential/Hard-to-Reach Focus



- Fully implemented in-house by Entergy staff
- Due to COVID-19, all inspections conducted remotely



An **AEP** Company

BOUNDLESS ENERGY™

AEP SWEPCO

PROGRAM PLAN SUMMARY



An **AEP** Company

BOUNDLESS ENERGY™

2021 Projections			
Programs	Budget	kW	kWh
Commercial	\$ 2,066,014	7,173	10,228,233
Commercial Solutions MTP	\$ 364,706	490	2,112,275
Commercial SOP	\$ 764,706	942	4,909,354
Load Management SOP	\$ 294,118	5,000	65,229
Open MTP	\$ 277,778	251	1,029,100
SCORE MTP	\$ 364,706	490	2,112,275
Residential	\$ 1,352,941	2,122	3,237,760
Residential SOP	\$ 1,352,941	2,122	3,237,760
Hard-to-Reach	\$ 823,529	1,057	1,545,630
Hard-to-Reach SOP	\$ 823,529	1,057	1,545,630
R&D	\$ 125,000		
Total	\$ 4,367,484	10,352	15,011,623
EM&V	\$ 64,446		
Total	\$ 4,431,930		

2022/23 POTENTIAL PROGRAMS

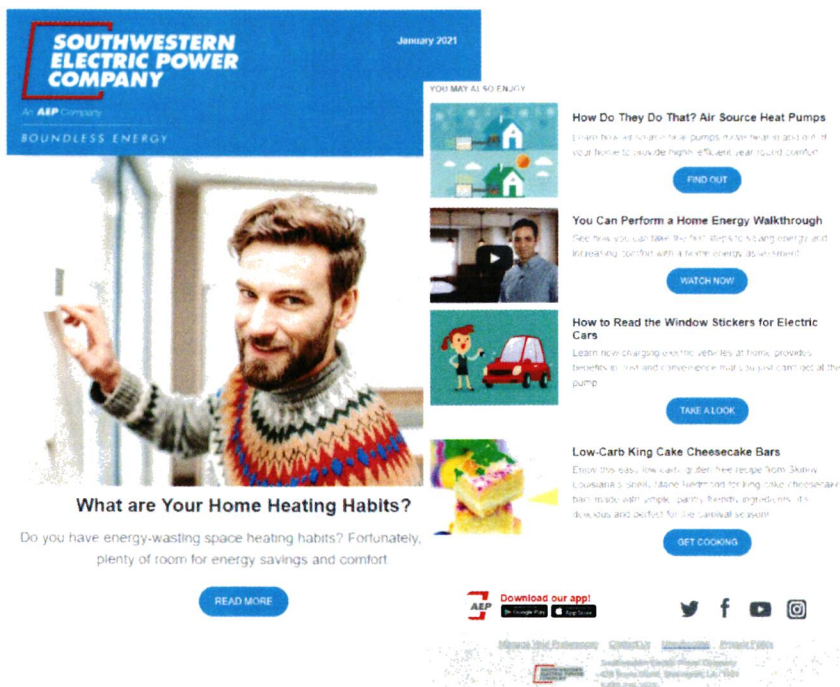


An AEP Company

BOUNDLESS ENERGY™

COMMERCIAL	RESIDENTIAL	LOW INCOME
Commercial Solutions MTP	Residential SOP	Hard-to-Reach SOP
Commercial SOP		
Load Management SOP		
Open MTP		
SCORE MTP		

Monthly Residential Energy Efficiency Newsletters



GOAL: Keep energy efficiency top of mind, particularly during the ongoing pandemic

- Launched January 2019
- Sent to all residential customers with an email address tied to their account
- Provides customers with EE information and tips
- Valuable outreach and informational tool



Xcel Energy

PROGRAM PLAN SUMMARY

2021 Projections			
Programs	Budget	kW	kWh
Commercial	\$ 2,030,775	6,420	11,759,000
Commercial SOP	\$ 434,930	1,020	3,826,000
Retro-Commissioning MTP	\$ 977,600	1,100	4,850,000
Load Management SOP	\$ 194,405	3,500	14,000
Small Commercial MTP	\$ 405,460	220	1,000,000
Home Lighting MTP	\$ 18,380	590	2,069,000
Residential	\$ 1,201,575	2,920	10,459,000
Residential SOP	\$ 634,965	900	2,300,000
Home Lighting MTP	\$ 349,220	1,970	6,926,000
Smart Thermostat MTP Pilot	\$ 33,675	-	838,000
Refrigerator Recycling MTP	\$ 183,715	50	395,000
Hard-to-Reach	\$ 969,110	900	2,465,000
Hard-to-Reach SOP	\$ 519,110	650	1,700,000
Low-Income Weatherization	\$ 450,000	250	765,000
R&D	\$ 40,000		
General Admin	\$ 205,100		
Total	\$ 4,446,560	10,240	24,682,000
EM&V	\$ 34,265		
Total	\$ 4,480,825		



2022/23 POTENTIAL PROGRAMS



COMMERCIAL	RESIDENTIAL	LOW INCOME
Commercial SOP	Residential SOP	Hard-to-Reach SOP
Retro-Commissioning MTP	Home Lighting MTP	Low-Income Weatherization
Load Management SOP	Smart Thermostat MTP Pilot	
Small Commercial MTP	Refrigerator Recycling MTP	
Home Lighting MTP		

