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Received - 2022-05-31 02:49:17 PM
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May 31, 2022

Commission Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, TX 78711

RE: Project No. 52949 – *2022 Energy Plans and Reports Pursuant to 16 TAC § 25.181*

To whom it may concern:

On April 1, 2022, AEP Texas filed its 2022 Energy Efficiency Plan and Report (EEPR). AEP Texas has discovered that the following corrections to the EEPR were necessary:

- Page 5 – Revised savings achieved from 45,397 kW and 83,674,251 kWh to 45,311 kW and 83,701,112 kWh.
- Page 18 – Revised Table 8 to correct AEP Texas 2021 savings achieved from 45.4 MW and 83,663 MWh to 45.31 MW and 83,701 MWh.
- Page 18 – Revised 2nd footnote on Table 8 (**) reported savings achieved at the source from 42.17 MW for Central division to 42.61 MW.
- Page 19 – Revised Table 9 to correct 2021 reported and verified savings for Commercial Solutions MTP from 1,655 kW and 7,649,161 kWh to 1,650 kW and 7,631,163 kWh; Commercial SOP from 3,185 kW and 18,424,265 kWh to 3,184 kW and 18,413,777 kWh; Open MTP from 5,120,900 kWh to 5,117,184 kWh; SCORE/CitySmart MTP from 2,364 kW and 9,574,229 kWh to 2,284 kW and 9,645,175 kWh; Residential SOP from 14,095,300 kWh to 14,095,317 kWh; Hard-To-Reach SOP from 4,931,548 kWh to 4,931,719 kWh; TLIEE Program from 1,308 kW and 2,396,578 kWh to 1,309 kW and 2,395,875 kWh.
- Page 23 – Revised Table 11 to include the corrected first column (Total Projected Budget) for every program, instead of the previous first column which was titled the same but had incorrect data.
- Page 24 – Revised section IX to reflect the corrected demand savings achieved for Commercial Solutions MTP from 1,655 kW to 1,650 kW; Open MTP from 1,215 kW to 1,216 kW; SCORE/CitySmart MTP from 2,488 kW to 2,284 kW.
- Page 24 – Revised section IX to reflect the corrected total participation of residential and commercial customers from 2,749 to 3,198.
- Page 27 – Revised Section XI to correct the EECRF amount in the sentence from $20,431,463 to $26,921,197; Revised Section XII to correct AEP Texas expended total from $17,160,336 to $17,163,057; Revised the difference of amount expended versus 2021 projected budget from $794,270 to $791,549.

- Page 28 – Revised Over-Recover of Energy Efficiency Costs paragraph in Section XII to include a small amount of trailing under-recovery of $1,054 from a base rate energy efficiency recovery continued over from the Transmission Class. It was also added that AEP Texas has determined to forego the aforementioned under recovery. Also added was the adjusted PY 2021 over-recovery of $828,106. Included interest was revised from $7,782 to $7,792 and over-recovery was revised from $834,835 to $835,899.
- Page 32 – Revised Appendix A to reflect AEP Texas' corrected savings by county for Commercial Solutions MTP from 1,655 kW and 7,649,161 kWh to 1650 kW and 7,631,163 kWh; and Commercial SOP from 3,185 kW and 18,424,265 kWh to 3,184 kW and 18,413,777 kWh
- Page 32,34 – Revised Appendix A to reflect AEP Texas' corrected savings by county for Hard-To-Reach SOP from 4,931,548 kWh to 4,931,719 kWh.
- Page 33 – Revised Appendix A to reflect AEP Texas' corrected savings by county for SCORE/CitySmart MTP from 2,364 kW and 9,574,229 kWh to 2,284 kW and 9,645,175 kWh.
- Page 33,34 – Revised Appendix A to reflect AEP Texas' corrected savings by county for Open MTP from 5,120,900 kWh to 5,117,184 kWh; and Residential SOP from 14,095,300 kWh to 14,095,317 kWh.
- Page 33, 35 – Revised Appendix A to reflect AEP Texas' corrected savings by county for TLIEE Program from 1,308 kW and 2,396,578 kWh to 1,309 kW and 2,395,875 kWh.

Please find attached a revised copy of the AEP Texas 2022 EEPR which replaces the filing made on April 1, 2022.

If there are any questions regarding this filing of corrected information, please contact me at 361-813-0847.

Respectfully submitted,

Gricelda Calzada
Regulatory Case Manager
Attachment

AEP Texas Inc.

2022 Energy Efficiency Plan and Report

16 Tex. Admin. Code §§ 25.181, 28.182 and 25.183

Amended May 31, 2022

Project No. 52949

AEP TEXAS℠

An AEP Company

BOUNDLESS ENERGY℠

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INTRODUCTION

AEP Texas Inc. (AEP Texas or Company) presents this Energy Efficiency Plan and Report (EEPR) to comply with Public Utility Commission of Texas (Commission) 16 Tex. Admin. Code §§ 25.181, 25.182 and 25.183 (TAC) (EE Rule), which implement the Public Utility Regulatory Act (PURA) § 39.905.

As mandated by PURA § 39.905, the EE Rule requires that each investor-owned electric transmission and distribution utility (TDU) achieve the following demand reduction goals through market-based standard offer programs (SOPs) and targeted market transformation programs (MTPs). 16 TAC § 25.181(e)(1) provides in pertinent part as follows:

(e)(1) An electric utility shall administer a portfolio of energy efficiency programs to acquire, at a minimum, the following:

- (A) Beginning with the 2013 program year, until the trigger described in subparagraph (B) of this paragraph is reached, the utility shall acquire a 30% reduction of its annual growth in demand of residential and commercial customers.
- (B) If the demand reduction goal to be acquired by a utility under subparagraph (A) of this paragraph is equivalent to at least four-tenths of 1% of its summer weather-adjusted peak demand for the combined residential and commercial customers for the previous program year, the utility shall meet the energy efficiency goal described in subparagraph (C) of this paragraph for each subsequent program year.
- (C) Once the trigger described in subparagraph (B) of this paragraph is reached, the utility shall acquire four-tenths of 1% of its summer weather-adjusted peak demand for the combined residential and commercial customers for the previous program year.
- (D) Except as adjusted in accordance with subsection (u) of this section, a utility's demand reduction goal in any year shall not be lower than its goal for the prior year, unless the commission establishes a goal for a utility pursuant to paragraph (2) of this subsection.

The EE Rule includes specific requirements related to the implementation of SOPs and MTPs that control the manner in which TDUs must administer their portfolio of energy efficiency programs in order to achieve their mandated annual demand reduction goals. AEP Texas' plans enable it to meet its statutory goals through implementation of energy efficiency programs in a manner that complies with PURA § 39.905 and the EE Rule. This EEPR covers the periods of time required in the EE Rule. The following section describes the information that is contained in each of the subsequent sections and appendices.

EEPR ORGANIZATION

This EEPR consists of an Executive Summary, thirteen sections, a list of acronyms, and three appendices.

Executive Summary

- Summarizes AEP Texas' plans for achieving its goals and projected energy efficiency savings for program years 2022 and 2023 and highlights AEP Texas' achievements for Program Year (PY) 2021.

Energy Efficiency Plan

- Section I describes the program portfolio. It details how programs will be implemented, presents related informational and outreach activities, and provides an introduction to any programs not included in the 2021 EEPR.
- Section II describes the targeted customer classes, the estimated size of each class and the method of determining those class sizes.
- Section III presents the energy and demand goals and projected savings for the prescribed planning period detailed by program for each customer class.
- Section IV describes the proposed energy efficiency budgets for the prescribed planning period detailed by program for each customer class.

Energy Efficiency Report

- Section V documents the demand reduction goal for each of the previous five years (2017-2021) based on its weather-adjusted peak demand and actual savings achieved for those years.
- Section VI compares the projected energy and demand savings to its reported and verified savings by program for PY 2020 and 2021.
- Section VII details the incentive and administration expenditures for each of the previous five years (2017-2021) detailed by program for each customer class.
- Section VIII compares the actual 2021 expenditures with the 2021 budget by program for each customer class. It also explains any cost differences of more than 10% from the overall program budget and from each program budget.
- Section IX describes the results from the MTPs.
- Section X describes Administrative costs and Research and Development activities.
- Section XI documents the 2022 EECRF.
- Section XII documents the 2021 EECRF Summary.
- Section XIII documents the Underserved Counties.

Acronyms

- A list of abbreviations for common terms used within this document.

Appendices

- Appendix A – Reported and verified demand and energy reductions by county for each program.
- Appendix B – Program templates for any new or significantly modified programs and programs not included in the previous EEPR.
- Appendix C – Data, explanations, or documents supporting other sections of the EEPR.

EXECUTIVE SUMMARY – ENERGY EFFICIENCY PLAN (PLAN)

AEP Texas plans to achieve its 2022 mandated demand and energy goals of 20.83 MW and 36,494 MWh as shown in Table 1 below through residential and non-residential SOPs and MTPs. AEP Texas will utilize a budget of $17,959,017 to accomplish these goals.

Table 1: Summary of Goals, Projected Savings (at the Meter),[1] and Budgets

Calendar Year	Average Peak Demand at Meter (MW)	Goal Metric: 0.4% Peak Demand (MW)	Peak Demand Goal (MW)	Energy Goal (MWh)	Projected Demand Reduction (MW)	Projected Energy Savings (MWh)	Projected Budget (000's)*
2022	5,207	20.83	20.83	36,494	48	70,488	$17,959
2023	5,271	21.08	21.08	36,932	48	72,434	$18,447

* The Projected Budgets include costs associated with Evaluation, Measurement &Verification activities.

EXECUTIVE SUMMARY – ENERGY EFFICIENCY REPORT (REPORT)

AEP Texas achieved demand and energy reductions of 45,311 kW and 83,701,112 kWh in 2021. The total energy efficiency cost for achieving these savings was $17,163,057. This achievement exceeded the 2021 mandated energy efficiency goals of 20,600 kW and 36,091,000 kWh.

A broad portfolio of residential and non-residential SOPs and MTPs was used to accomplish these savings.

[1] Average Peak Demand figures are from Table 4; Projected Savings from Table 5; Projected Budgets from Tables 6 and 7.

ENERGY EFFICIENCY PLAN

I. 2022 Programs

A. 2022 Program Portfolio

AEP Texas has implemented a variety of programs in 2022 to enable it to meet its goals in a manner that complies with PURA § 39.905 and the EE Rule. These programs target broad market segments and specific market sub-segments with significant opportunities for cost-effective energy savings.

Table 2 summarizes the programs and targeted customer class markets for Program Year 2022. The programs listed in Table 2 are described in further detail in Subsection B. AEP Texas maintains a web site containing information on participation, forms required for project submission, and program manuals at www.AEPTexasEfficiency.com. This site is the primary method of communication used to provide program updates and information to Retail Electric Providers (REPs), potential Energy Efficiency Service Providers (EESPs), and other interested parties.

Implementation Process

MTPs are implemented by third-party implementers. These implementers design, market and execute the applicable MTPs. Based on the specific MTP, the implementer may perform outreach activities to recruit local contractors and provide participating contractors specialized education, training/certification and tools as necessary. Implementers validate proposed measures/projects, perform quality assurance/quality control, and verify and report savings derived from the program.

SOPs are managed in-house with project sponsors providing eligible program measures. Project sponsors are typically EESPs; however, for commercial projects an AEP Texas end-use customer may serve as its own project sponsor. Eligible project sponsors can submit an application(s) for project(s) meeting the minimum SOP requirements.

AEP Texas monitors projects being submitted so as to not accept duplicate enrollments for the same measures in multiple programs.

Outreach Activities

- Promote internet web sites with program information including project eligibility, end-use measures, incentives, procedures, application forms, and in some cases a list of participating project sponsors and the available program budget;
- Utilize mass e-mail notifications to inform and update potential project sponsors on AEP Texas energy efficiency program opportunities;
- Conduct workshops as necessary to explain program elements such as responsibilities of the project participants, program requirements, incentive information and the application and reporting process;
- Conduct specific project sponsor/contractor training sessions as necessary based on the energy efficiency programs being implemented;
- Participate in local, regional, state-wide, and industry-related outreach activities as may be necessary; and
- Facilitate earned media opportunities, spotlighting successful projects and/or interesting stories as applicable.

Table 2: 2022 Energy Efficiency Program Portfolio

Program	Target Market	Application
Commercial Solutions MTP	Commercial	Retrofit & New Construction
Commercial SOP	Commercial	Retrofit & New Construction
CoolSaver℠ A/C Tune-Up MTP	Commercial & Residential	Retrofit
Hard-to-Reach SOP	Residential Hard-to-Reach	Retrofit & New Construction
High-Performance New Homes MTP	Residential	New Construction
Load Management SOP	Commercial	Retrofit
Open MTP	Commercial	Retrofit
Residential SOP	Residential	Retrofit & New Construction
SCORE/CitySmart MTP	Commercial	Retrofit & New Construction
SMART Source℠ Solar PV MTP	Commercial & Residential	Retrofit & New Construction
Targeted Low-Income Energy Efficiency Program	Low-Income Residential	Retrofit

B. Existing Programs

Commercial Solutions Market Transformation Program (CS MTP)

The CS MTP targets commercial customers (other than governmental and educational entities) that do not have the in-house expertise to: 1) identify, evaluate, and undertake energy efficiency improvements; 2) properly evaluate energy efficiency proposals from vendors; and/or 3) understand how to leverage their energy savings to finance projects. Incentives are paid to customers for eligible energy efficiency measures that are installed in new or retrofit applications that result in verifiable demand and energy savings.

Commercial Standard Offer Program (CSOP)

The CSOP targets commercial customers of all sizes. Variable incentives are available to project sponsors based upon verified demand and energy savings for eligible measures installed in new or retrofit applications.

CoolSaver^{SM} A/C Tune-Up Market Transformation Program (CoolSaver^{SM} MTP)

The CoolSaver^{SM} MTP is designed to overcome market barriers that prevent residential and small commercial customers from receiving high performance air conditioning (A/C) system tune-ups. The program works through local A/C networks to offer key program components, including:

- Training and certifying A/C technicians on the tune-up and air flow correction services and protocols.
- Paying incentives to A/C contactors for the successful implementation of A/C tune-up and air flow correction services.
- Paying incentives to A/C contractors who replace existing residential air conditioners and/or heat pumps with new high efficiency units of 16 SEER or higher. Additional incentives are paid for early retirement of operational equipment and for "right-sizing" replacement units.

Hard-to-Reach Standard Offer Program (HTR SOP)

The HTR SOP targets residential customers with total annual household incomes at or below 200% of current federal poverty guidelines. Incentives are paid to project sponsors for eligible measures installed in new and retrofit applications that result in verifiable demand and energy savings. Project comprehensiveness is encouraged and customer education materials regarding energy conservation behavior are distributed by project sponsors.

High-Performance New Homes Market Transformation Program (New Homes MTP)

The New Homes MTP targets several market participants, primarily homebuilders and consumers. The program's goal is to create conditions in which consumers demand energy-efficient homes, and homebuilders supply them. Incentives are paid to homebuilders who construct homes to strict energy-efficient building guidelines and that are at least 5% above the Texas Baseline Reference Home and meet all minimum energy code requirements. The program has a tiered design that uses a combination of mandatory, additional elective, and innovative measures to promote market transformation and drive deep energy savings. ENERGY STAR® and complete foam encapsulated homes are offered as alternative pathways to Tiers. Bonus incentives are offered for installed ENERGY STAR connected thermostats and to builders who switch from electric resistance furnaces to heat pumps. Each home results in verifiable demand and energy savings. In addition to homebuilder and consumer outreach, the New Homes MTP targets key market actors in the homebuilding production and sales cycle: home energy raters, homebuilder sales agents, real estate agents, HVAC contractors, mortgage lenders, product manufacturers, homebuilder associations, and media outlets.

Load Management Standard Offer Program (LM SOP)

The LM SOP targets commercial customers with a peak electric demand of 500 kW or more; but any non-residential customer that can deliver at least 50 kW of peak demand savings is eligible to participate. Incentive payments are based on measured and verified load (demand) curtailment reduction during the summer peak period. Load management events are dispatched by AEP Texas, providing a 30 minute advance notification or load reduction periods of one to four hours in duration. Customer, or Market Actors initiate and implement the load curtailments as called upon to do so by AEP Texas.

Open Market Transformation Program (Open MTP)

The Open MTP targets traditionally underserved small commercial customers who may not employ knowledgeable personnel with a focus on energy efficiency, who are limited in the ability to implement energy efficiency measures, and/or who typically do not actively seek the help of a professional EESP. Small commercial customers with a peak demand not exceeding 150 kW in the previous twelve consecutive billing months may qualify to participate in the program. Available incentives are paid directly to the contractor, thereby reducing a portion of the project cost for the customer.

The program is intended to overcome market barriers for participating contractors by providing technical support and incentives to implement energy efficiency upgrades and produce demand and energy savings.

Residential Standard Offer Program (RSOP)

The RSOP targets all residential customers, paying incentives to project sponsors for eligible measures installed in new and retrofit applications that result in verified demand and energy savings. Project comprehensiveness is encouraged.

SCORE/CitySmart Market Transformation Program (SCORE/CS MTP)

The SCORE/CS MTP provides energy efficiency and demand reduction solutions for public and private educational entities grades K-12 as well as colleges and universities. In addition to educational facilities, SCORE/CS MTP provides these same solutions to local, state, county and federal government customers. This program is designed to help educate and assist these customers in lowering their energy use by facilitating the integration of energy efficiency into their short- and long-term planning, budgeting, and operational practices. Incentives are paid to participating customers for eligible energy efficiency measures that are installed in new or retrofit applications that result in verifiable demand and energy savings.

SMART Source℠ Solar PV Market Transformation Program (PV MTP)

The PV MTP offers incentives to residential and commercial customers for the installation of solar photovoltaic (PV) systems interconnected on the customer's side of the meter. The incentives help offset the initial costs of installing solar PV systems, and encourage service providers to seek more installation opportunities. In addition to demand and energy savings achieved from the installations,

the PV MTP aims to transform the solar PV market by increasing the number of qualified technicians and installers and decreasing the average installed cost of PV systems, thereby creating greater market economies of scale.

Targeted Low-Income Energy Efficiency Program (TLIP)

The TLIP is designed to cost-effectively reduce the energy consumption and energy costs for low-income residential customers in the AEP Texas service territory. Weatherization service providers install eligible weatherization and energy efficiency measures in qualified households that meet the Department of Energy (DOE) income-eligibility guidelines of at or below 200% of the federal poverty guidelines. A Savings-to-Investment Ratio of 1.0 or higher is required of each serviced dwelling unit.

C. New Programs for 2022

There are no new programs for 2022.

D. Discontinued Programs

The Residential Pool Pump Program Pilot MTP (Central Division) was discontinued for 2022.

II. Customer Classes

The AEP Texas energy efficiency programs target its Residential and Commercial customer classes. The programs also target customer sub-classes, such as Residential Hard-to-Reach and Low-Income, Schools, Small Businesses, and Local Governments.

The annual projected savings targets are allocated among these customer classes and sub-classes by examining historical program results and by evaluating economic trends, in compliance with 16 TAC § 25.181(e)(3).

Table 3 summarizes the number of customers in each customer class and the Residential Hard-to-Reach sub-class. The numbers listed are the actual number of active electric service accounts by class served for the month of January 2022. These numbers were used to determine goal and budget allocations for each customer class and program. It should be noted, however, that the actual distribution of the annual goal and budget required to achieve the goal must remain flexible based upon the conditions of the marketplace, the potential interest a customer class may have in a specific program, and the overriding objective of meeting the mandated demand and energy reduction goals

in total. AEP Texas offers a varied portfolio of SOPs and MTPs such that all eligible customer classes have access to energy efficiency alternatives.

Table 3: Summary of Customer Classes

Customer Class	Number of Customers
Commercial	202,103
Residential	977,836
Hard-to-Reach [2]	307,041

* Hard-to-Reach customer count is a sub-set of the Residential total.

[2] According to the U.S. Census Bureau's 2020 Current Population Survey, 31.4% of Texas families fell below 200% of the poverty threshold in 2020. Applying that percentage to AEP Texas' residential customer base of 977,836, the number of HTR customers is estimated to be 307,041.

III. Energy Efficiency Goals and Projected Savings

AEP Texas' 2022 annual demand and energy reduction goals to be achieved are 20.83 MW and 36,494 MWh. AEP Texas' 2023 annual goals are 21.08 MW and 36,932 MWh. These goals have been calculated as prescribed by the EE Rule.

The 2022 goal was calculated by applying four-tenths of 1% (0.004) of the summer weather-adjusted peak demand for its residential and commercial customers to the five year average (2016-2020) peak demand at the meter of 5,207 MW. This resulted in a calculated goal of 20.83 MW.

The 2023 demand goal is calculated by applying four-tenths of 1% (0.004) of the summer weather-adjusted peak demand for its residential and commercial customers to the five year average (2017-2021) peak demand at the meter of 5,271 MW. This results in a calculated goal of 21.08 MW.
As stated in 16 TAC § 25.181(e)(4), a utility's energy savings goal is calculated from its demand savings goal, using a 20% conservation load factor.

Table 4 presents historical annual growth in demand data for the previous five years that was used to calculate AEP Texas' goals. Table 5 presents the projected demand and energy savings for Program Years 2022 and 2023 by program, for each customer class with fully-deployed program budgets.

Table 4: Annual Growth in Demand and Energy Consumption – AEP Texas

Calendar Year	Peak Demand (MW) @ Source						Energy Consumption (GWh) @ Meter				Energy Efficiency Goal Calculations		
	Total System		Residential & Commercial				Total System		Residential & Commercial				
	Actual	Weather Adjusted	Actual	Weather Adjusted	Opt-Out	Peak Demand at Source Net Opt-outs	Actual	Weather Adjusted	Actual	Weather Adjusted	Peak Demand at Meter*	5 year Average Peak Demand at Meter	Goal Metric: 0.4% Peak Demand at Meter
2016	6,412	6,270	5,910	5,768	-75	5,693	31,604	31,224	25,791	25,411	5,134	NA	NA
2017	6,391	6,234	5,879	5,722	-101	5,621	31,553	31,334	25,072	24,853	5,069	4,956	NA
2018	6,339	6,349	5,817	5,827	-109	5,718	32,020	31,680	25,693	25,353	5,265	5,002	NA
2019	6,501	6,364	5,945	5,807	-106	5,701	31,962	31,564	25,675	25,277	5,248	5,043	NA
2020	6,451	6,417	5,875	5,841	-75	5,766	31,746	31,767	25,194	25,214	5,317	5,112	NA
2021	6,451	6,580	5,814	5,943	-25	5,918	32,975	33,004	26,253	26,282	5,457	5,150	NA
2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,207	20.83
2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,271	21.08

*Line losses are derived from the loss factors determined in the most recent line loss studies for AEP Texas (Central Division and North Division).

Table 5: Projected Demand and Energy Savings by Program for Each Customer Class for 2022 and 2023 (at the Meter) – AEP Texas

Customer Class and Program	Projected Savings 2022		Projected Savings 2023	
	kW	kWh	kW	kWh
Commercial	**38,148**	**43,377,761**	**38,415**	**44,815,960**
Commercial Solutions MTP	1,664	7,458,262	1,664	7,458,262
Commercial SOP	2,554	13,452,356	2,822	14,890,555
CoolSaverSM A/C Tune-Up MTP	3,466	8,047,475	3466	8047475
Load Management SOP	26,507	24,387	26,507	24,387
Open MTP	1,215	5,234,159	1,215	5,234,159
SCORE/CitySmart MTP	2,463	8,259,385	2,463	8,259,385
SMART SourceSM Solar PV MTP	278	901,737	278	901,737
Residential	**6,754**	**21,746,871**	**6,813**	**22,254,798**
CoolSaverSM A/C Tune-Up MTP	1,594	6,250,000	1594	6250000
High-Performance New Homes MTP	2,353	3,917,476	2215	3703316
Residential SOP	2,191	9,477,974	2,389	10,200,061
SMART SourceSM Solar PV MTP	615	2,101,421	615	2,101,421
Hard-to-Reach	**2,896**	**5,362,999**	**2,896**	**5,362,999**
Hard-to-Reach SOP	1,930	3,845,156	1,930	3,845,156
TLI EE Program	966	1,517,843	966	1,517,843
Total Annual Projected Savings	**47,797**	**70,487,631**	**48,124**	**72,433,757**

IV. Program Budgets

Tables 6 and 7 present total proposed budget allocations required to meet AEP Texas' projected demand and energy savings to be achieved for Program Year 2022 and 2023. The budget allocations are defined by the overall projected demand and energy savings, the avoided costs of capacity and energy specified in the EE Rule, allocation of demand goals, and the incentive levels by customer class. The budget allocations are detailed by customer class, program, and in the following budget categories: incentives, administration, research and development (R&D), and evaluation, measurement and verification (EM&V).

Table 6: Projected Annual Budget by Program for Each Customer Class for 2022 AEP Texas

2022	Incentives	Admin	R&D	EM&V	Total Budget
Commercial					
Commercial Solutions MTP	$903,248	$115,485			$1,018,733
Commercial SOP	$1,875,762	$218,467			$2,094,229
CoolSaver℠ A/C Tune-Up MTP	$796,700	$88,522			$885,222
Load Management SOP	$737,700	$85,300			$823,000
Open MTP	$1,213,041	$150,959			$1,364,000
SCORE/CitySmart MTP	$1,192,300	$141,884			$1,334,184
SMART Source℠ Solar PV MTP	$287,310	$35,017			$322,327
Residential					
CoolSaver℠ A/C Tune-Up MTP	$825,000	$91,667			$916,667
High-Performance New Homes MTP	$965,000	$107,222			$1,072,222
Residential SOP	$2,914,657	$343,068			$3,257,725
SMART Source℠ Solar PV MTP	$670,941	$79,059			$750,000
Hard-to-Reach					
Hard-to-Reach SOP	$1,412,560	$156,840			$1,569,400
Targeted Low-Income Energy Efficiency Program	$1,799,159	$187,144			$1,986,304
Research and Development					
R&D			$353,646		$353,646
Evaluation, Measurement & Verification (EM&V)					
EM&V				$211,359	$211,359
Total Budget	**$15,593,378**	**$1,800,634**	**$353,646**	**$211,359**	**$17,959,017**

Table 7: Projected Annual Budget by Program for Each Customer Class for 2023 AEP Texas

2023	Incentives	Admin	R&D	EM&V	Total Budget
Commercial					
Commercial Solutions MTP	$903,248	$115,485			$1,018,733
Commercial SOP	$2,075,762	$218,467			$2,294,229
CoolSaver℠ A/C Tune-Up MTP	$796,700	$88,522			$885,222
Load Management SOP	$737,700	$85,300			$823,000
Open MTP	$1,213,041	$150,959			$1,364,000
SCORE/CitySmart MTP	$1,192,300	$141,884			$1,334,184
SMART Source℠ Solar PV MTP	$287,310	$35,017			$322,327
Residential					
CoolSaver℠ A/C Tune-Up MTP	$825,000	$91,667			$916,667
High-Performance New Homes MTP	$965,000	$107,222			$1,072,222
Residential SOP	$3,164,657	$359,868			$3,524,525
SMART Source℠ Solar PV MTP	$670,941	$79,059			$750,000
Hard-to-Reach					
Hard-to-Reach SOP	$1,412,560	$156,840			$1,569,400
Targeted Low-Income Energy Efficiency Program	$1,799,159	$187,144			$1,986,303
Research and Development					
R&D			$353,646		$353,646
Evaluation, Measurement & Verification (EM&V)					
EM&V				$232,708	$232,708
Total Budget	**$16,043,378**	**$1,817,434**	**$353,646**	**$232,708**	**$18,447,166**

ENERGY EFFICIENCY REPORT

V. Historical Demand and Energy Goals and Savings Achieved for the Previous Five Years

Table 8 contains the demand and energy reduction goals and actual savings achieved for the previous five years (2017-2021) calculated in accordance with the EE Rule.

Table 8: Historical Demand and Energy Goals* and Savings Achieved (at the Meter)

Calendar Year	Actual Weather Adjusted Demand Goal (MW)	Actual Weather Adjusted Energy Goal (MWh)	Savings Achieved (MW)	Savings Achieved (MWh)
AEP Texas				
2021	20.60	36,091	45.31**	83,701
Central				
2020	16.38	28,698	50.45	59,259
2019	16.14	28,277	39.70	58,398
2018	15.99	28,014	43.81	62,417
2017	15.83	27,734	45.87	64,971
North				
2020	4.26	7,464	5.79	12,768
2019	4.26	7,464	6.58	11,968
2018	4.26	7,464	8.95	12,669
2017	4.26	7,464	6.79	12,038

* Actual Weather Adjusted MW and MWh Goals as reported in the EEPRs filed in years 2017-2020.
**Central and North divisions are combined. Reported savings achieved at the source are 39.51 MW (39.51 x 1/(1-7.284%)) = 42.61 MW for Central division and 5.8 MW (5.8 x 1/(1-9.957%)) = 6.44 MW for North division.

VI. Projected, Reported and Verified Demand and Energy Savings

Table 9: Projected versus Reported and Verified Savings for 2021 and 2020 (at the Meter)

2021	Projected Savings		Reported and Verified Savings	
Customer Class and Program	kW	kWh	kW	kWh
Commercial				
Commercial Solutions MTP	1,433	8,709,280	1,650	7,631,163
Commercial SOP	3,067	13,639,318	3,184	18,413,777
CoolSaverSM A/C Tune-Up MTP	1,393	4,376,124	4,497	9,015,723
Load Management SOP	22,261	20,480	21,647	21,647
Open MTP	1,184	4,660,806	1,216	5,117,184
SCORE/CitySmart MTP	2,061	9,680,000	2,284	9,645,175
SMART SourceSM Solar PV MTP	380	1,187,409	237	862,214
Residential				
CoolSaverSM A/C Tune-Up MTP	1,017	3,223,609	1,299	6,540,544
High-Performance New Homes MTP	3,394	4,366,339	2,266	3,248,011
Residential SOP	2,134	3,520,650	2,963	14,095,317
Residential Pool Pump Pilot MTP	173	1,203,872	14	180,186
SMART SourceSM Solar PV MTP	301	925,735	468	1,602,578
Hard-to-Reach				
Hard-to-Reach SOP	1,551	2,418,835	2,277	4,931,719
TLI EE Program	917	1,392,896	1,309	2,395,875
Total Annual Savings	**41,267**	**59,325,352**	**45,311**	**83,701,112**
2020	**Projected Savings**		**Reported and Verified Savings**	
Customer Class and Program	kW	kWh	kW	kWh
Commercial				
Commercial Solutions MTP	1,433	8,709,280	1,606	7,172,233
Commercial SOP	3,256	13,635,785	3,173	15,226,742
CoolSaverSM A/C Tune-Up MTP	1,393	4,376,124	3,025	6,017,714
Load Management SOP	21,697	119,126	29,651	29,651
Open MTP	1,184	4,660,806	1,207	5,196,221
SCORE/CitySmart MTP	2,061	9,680,000	2,318	7,745,432
SMART SourceSM Solar PV MTP	541	787,477	353	1,203,055
Residential				
CoolSaverSM A/C Tune-Up MTP	1,017	3,223,609	1,511	5,082,376
High-Performance New Homes MTP	539	1,631,874	1,936	2,706,448
Residential Pool Pump Pilot MTP	127	1,017,810	22	162,577
Residential SOP	6,301	9,772,251	7,242	12,916,672
SMART SourceSM Solar PV MTP	265	696,076	298	995,914
Hard-to-Reach				
Hard-to-Reach SOP	2,236	3,293,212	2,927	4,986,366
Targeted Low-Income Energy Efficiency Program	910	1,314,508	972	1,604,664
Total Annual Savings	**42,960**	**62,917,938**	**56,240**	**71,046,066**

VII. Historical Program Expenditures

This section documents the Central and North Division's incentive and administration expenditures for the previous five years (2017-2021) detailed by program for each customer class.

Table 10: Historical Program Incentive and Administrative Expenditures for 2017 through 2021 (000's) – AEP Texas

	2021		2020		2019		2018		2017	
	Incent.	Admin	Incent.	Admin	Incent.	Admin	Incent.	Admin	Incent.	Admin
Commercial										
Commercial Solutions MTP	$900.63	$103.88	$869.07	$97.15	$900.31	$107.09	$946.24	$89.56	$795.36	$80.64
Commercial SOP	$2,000.12	$230.86	$1,798.52	$216.04	$1,974.48	$232.53	$2,143.87	$247.80	$1,930.52	$257.17
CoolSaver℠ A/C Tune-Up MTP	$595.48	$49.88	$595.50	$49.42	$647.82	$53.34	$604.06	$45.81	$597.57	$41.72
Load Management SOP	$573.38	$64.45	$828.41	$61.74	$584.63	$50.03	$689.19	$86.07	$698.07	$94.98
Open MTP	$1,199.15	$124.51	$1,205.48	$134.37	$1,195.60	$144.59	$1,211.80	$108.26	$1,211.84	$93.50
SCORE/CitySmart MTP	$1,127.97	$110.45	$1,121.97	$106.35	$1,111.64	$113.42	$1,075.94	$108.22	$1,163.57	$97.44
SMART Source℠ Solar PV MTP	$197.02	$19.66	$254.47	$27.80	$284.99	$22.66	$274.76	$20.29	$120.82	$9.06

(Table continued on next page)

Table 10: Historical Program Incentive and Administrative Expenditures for 2017 through 2021 (000's) – AEP Texas (Continued)

	2021		2020		2019		2018		2017	
	Incent.	**Admin**	**Incent.**	**Admin**	**Incent.**	**Admin**	**Incent.**	**Admin**	**Incent.**	**Admin**
Residential										
CoolSaver℠ A/C Tune-Up MTP	$677.93	$56.78	$673.00	$55.85	$696.41	$57.31	$667.18	$50.61	$638.96	$44.83
High-Performance New Homes MTP	$947.26	$90.06	$909.56	$78.92	$807.36	$73.92	$750.25	$88.73	$753.15	$94.84
Residential Pool Pump Pilot MTP	$73.66	$10.88	$65.90	$13.11	$76.70	$9.68	NAP	NAP	NAP	NAP
Residential SOP	$3,365.28	$329.41	$3,445.80	$326.30	$3,260.74	$363.80	$3,284.20	$355.40	$3,029.28	$338.85
SMART Source℠ Solar PV MTP	$307.75	$32.77	$293.18	$31.04	$300.25	$24.11	$316.97	$23.23	$308.55	$23.75
Whisker Labs* Res DR Pilot MTP	NAP	NAP	NAP	NAP	NAP	NAP	NAP	NAP	$164.56	$9.83
Hard-to-Reach										
Hard-to-Reach SOP	$1,412.44	$176.68	$1,624.91	$175.96	$1,453.44	$127.71	$1,456.26	$160.66	$1,284.69	$146.25
Targeted Low-Income Energy Efficiency Program	$1,826.49	$173.45	$1,771.13	$142.18	$1,813.52	$183.16	$1,596.78	$141.97	$1,687.61	$148.16
Research and Development (R&D)	NAP	$177.82	NAP	$280.10	NAP	$386.96	NAP	$235.76	NAP	$187.50
Evaluation and Measurement Verification (EM&V)	NAP	$206.95	NAP	$215.60	NAP	$211.99	NAP	$208.09	NAP	$208.09
Total Expenditures	$15,204.57	$1,958.49	$15,456.90	$2,011.93	$15,107.89	$2,162.30	$15,017.50	$1,970.46	$14,384.55	$1,876.61

*Previously Earth Networks

VIII. Program Funding for Program Year 2021

Throughout the year AEP Texas monitors each program's success status and transfers funds as necessary to maximize participation in each of our programs. Programs were monitored even more closely in 2021 due to the ongoing impacts of the COVID-19 pandemic. Funding was reallocated as necessary to ensure overall energy efficiency savings goals were achieved.

As shown in Table 11 the total projected budget for AEP Texas in 2021 was $17,954,606 and the actual total funds expended were $17,163,067. This is an overall total program expenditure difference of less than 3% from the amount budgeted.

The following individual program expenditures differed from their respective proposed budgets by more than 10% as explained below.

The AEP Texas Load Management Program was under budget by more than 10% because fewer participants enrolled in the program this year. Furthermore, some participants overestimated their project load reduction. They were only able to reduce a portion of their projected load since the time of the curtailment event coincided with necessary business operations.

The High Performance New Homes MTP budget was increased as funding was reallocated to gain additional residential savings and ensure overall energy efficiency savings goals were met. The home construction industry was not impacted by the COVID-19 pandemic as much as other trades; and due to a strong environment for building energy efficient homes, builders were able to increase their participation in this program.

The Residential Pool Pump Pilot MTP was under budget due to supply chain impacts caused by the COVID-19 pandemic. The unavailability and backlog of pumps and parts resulted in fewer installations than projected.

The SMART Source℠ Solar PV MTP commercial class was under budget due to a smaller volume of projects participating in the program.

The combined 2021 expenditures for the TLIP and the HTR SOP constituted 20% of the energy efficiency budget. The 2021 expenditure for the TLIP constituted 11% of the energy efficiency budget.

Table 11: Program Funding for Program Year 2021– AEP Texas

	Total Projected Budget [3]	Numbers of Customers Participating	Actual Funds Expended (Incentives)	Actual Funds Expended (Admin)	Research and Development (R&D)	Evaluation and Measurement Verification (EM&V)	Total Funds Expended
Commercial							
Commercial Solutions MTP	$1,018,733	148	$900,631	$103,879			$1,004,510
Commercial SOP	$2,302,657	105	$2,000,120	$230,863			$2,230,983
CoolSaver℠ A/C Tune-Up MTP	$663,000	449	$595,480	$49,876			$645,356
Load Management SOP	$823,000	89	$573,383	$64,448			$637,831
Open MTP	$1,364,000	216	$1,199,150	$124,511			$1,323,661
SCORE/CitySmart MTP	$1,267,610	101	$1,127,973	$110,452			$1,238,425
SMART Source℠ Solar PV MTP	$322,327	10	$197,024	$19,658			$216,682
Residential							
CoolSaver℠ A/C Tune-Up MTP	$750,000	2,749	$677,927	$56,781			$734,708
High-Performance New Homes MTP	$850,000	943	$947,262	$90,059			$1,037,321
Residential Pool Pump Pilot MTP	$167,000	27	$73,663	$10,881			$84,544
Residential SOP	$3,754,496	5,229	$3,365,278	$329,413			$3,694,691
SMART Source℠ Solar PV MTP	$364,007	90	$307,751	$32,765			$340,516
Hard-to-Reach							
Hard-to-Reach SOP	$1,569,400	2,715	$1,412,439	$176,684			$1,589,123
Targeted Low-Income Energy Efficiency	$1,986,303	522	$1,826,488	$173,448			$1,999,936
Research and Development	$545,125				$177,822		$177,822
EM&V							
Statewide EM&V Contractor	$206,948					$206,948	$206,948
Total	**$17,954,606**	**13,393**	**$15,204,570**	**$1,573,717**	**$177,822**	**$206,948**	**$17,163,057**

[3] Projected Budget from the revised EEPR filed May 2021 Project No. 51672.

IX. Market Transformation Program Results 2021

Commercial Solutions MTP

The Commercial Solutions MTP goal was to acquire 1,433 kW demand savings. A total of 1,650 kW was achieved by participation of 148 customers.

CoolSaver℠ MTP (Central Division Only)

The CoolSaver℠ MTP verified and reported 5,796 kW. This included participation by 3,198 residential and commercial customers.

High-Performance New Homes MTP (New Homes) (Central Division Only)

In 2021, 943 high-performance homes were constructed in the New Homes program with a savings of 2,266 kW. The favorable home construction environment in 2021 increased the number of program homes and customers learning about and benefiting from energy efficient homes. The program provided continuing education courses and other training opportunities for contractors, homebuilders, home energy raters, HVAC contractors and other market actors on the advantages of High-Performance and ENERGY STAR homes and building practices. Training for HVAC market actors focused on Manual J training to re-emphasize the importance of performing load calculations for correctly sizing HVAC systems. AEP Texas continued their partnership with the Environmental Protection Agency's (EPA) ENERGY STAR program and received the ENERGY STAR Partner of the Year Sustained Excellence award.

Open MTP

The Open MTP goal was to acquire 1,184 kW demand savings. A total of 1,216 kW was achieved with 216 small commercial customers and 10 participating contractors.

Residential Pool Pump Pilot MTP

The Residential Pool Pump Pilot MTP was projected to acquire 127 kW demand savings for Central Division. A total of 14 kW was achieved. This included participation by 27 customers.

SCORE/CitySmart MTP

The SCORE/CitySmart MTP was projected to acquire 2,364 kW demand savings A total of 2,284 kW was achieved. This included participation by 101 customers.

SMART Source^{SM} Solar PV MTP

The PV MTP projected to acquire 806 kW in demand savings and 1,483,553 kWh in energy savings from the residential and non-residential components. A total of 100 residential and non-residential solar PV projects were completed within the program, resulting in a peak demand reduction of 705 kW and 2,464,792 kWh of energy savings.

X. Administrative Costs and Research and Development

Administrative Costs

Administrative costs incurred to meet the energy efficiency goals and objectives include, but may not be limited to, energy efficiency employees' payroll, costs associated with regulatory filings, and EM&V costs outside of the actual cost associated with the EM&V contractor. Any portion of these costs that are not directly assignable to a specific program are allocated among the programs in proportion to the program incentive costs.

Program Research and Development

R&D activities are intended to help AEP Texas meet future energy efficiency goals by researching new technologies and program options and developing better, more efficient ways to administer current programs. In 2021 AEP Texas dedicated resources to enhance data collection and management systems for current programs. In addition, AEP Texas participated with Electric Utility Marketing Managers of Texas (EUMMOT) in researching potentially new deemed savings measures for various programs.

Informational Activities

AEP Texas continues its best effort to encourage and facilitate the involvement of REPs and EESPs in the delivery of its programs to customers.

XI. 2022 Energy Efficiency Cost Recovery Factor (EECRF)

AEP Texas' 2022 EECRF was approved by the Commission in Docket No. 52199 and includes $26,921,197 for AEP Texas as shown in Table 12. The adjusted factors are shown in Table 13.

Table 12: 2022 EECRF

2022 Projected Costs	$17,647,659
Performance Bonus for 2020 results	$8,673,275
Under-recovery, collected from customers with interest	$361,935
EECRF proceeding expenses	$37,822
Projected EM&V costs	$211,359
Total EECRF	$26,921,197

Table 13: 2022 EECRF Factors

Customer Class	AEP Texas
Residential Service	$0.001201 per kWh
Secondary Service (less than or equal to 10 kW)	$0.001042 per kWh
Secondary Service (greater than 10 kW)	$0.001142 per kWh
Primary Service	$0.000255 per kWh
Transmission Service	$0.000323 per kW

XII. 2021 EECRF Summary

2021 Collections for Energy Efficiency

AEP Texas collected $19,813,832 through its 2021 EECRF. A performance bonus of $3,475,676 for exceeding its 2019 energy efficiency goals and $948,163 returned to customers are reflected in the total amount collected for energy efficiency in 2021.

Energy Efficiency Program Costs Expended

AEP Texas expended a total of $17,163,057 for its 2021 energy efficiency programs. The amount expended is $791,549 less than the 2021 projected budget of $17,954,606 for energy efficiency programs.

Over-Recovery of Energy Efficiency Costs

AEP Texas' actual 2021 energy efficiency program costs (including EM&V costs) less municipal rate case expenses are $16,516,076. AEP Texas also removed financially based incentives of $56,809 for a total program cost for the determination of the over/under-recovery of $16,459,267;

and actual energy efficiency program revenues are $17,286,319. These associated 2021 costs and revenues result in a total over-recovery of energy efficiency costs of $827,052. Included in that number is a small amount of trailing under-recovery, $1,054, from the Transmission Class that has continued since base rate energy efficiency recovery existed for that class. AEP Texas has determined to forego the recovery of this small amount. The adjusted PY 2021 over-recovery is $828,106. Including interest of $7,792 the over-recovery is $835,899. This is the amount that the AEP Texas will request be returned to customers within its 2023 EECRF.

XIII. Underserved Counties

AEP Texas has defined Underserved Counties as any county in the service territory for which no demand or energy savings were reported through any of its 2021 SOPs or MTPs. Per 16 TAC § 25.181(l)(2)(U), a list of the Underserved Counties is shown in Table 14:

Table 14: Underserved Counties

Atascosa	Donley	Kenedy	Motley
Baylor	Edwards	Kent	Nolan
Briscoe	Foard	Kimble	Pecos
Brown	Gillespie	King	Real
Caldwell	Goliad	Kinney	Stephens
Collingsworth	Guadalupe	Knox	Throckmorton
Crane	Irion	Mason	Upton
DeWitt	Jeff Davis	McCulloch	Wheeler
Dickens	Jim Hogg	McMullen	Wilson

ACRONYMS

COMMISSION	Public Utility Commission of Texas
CSOP	Commercial Standard Offer Program
CS MTP	Commercial Solutions Market Transformation Program
DR	Demand Response
DSM	Demand Side Management
EECRF	Energy Efficiency Cost Recovery Factor
EEPR	Energy Efficiency Plan and Report
EE Rule	Energy Efficiency Rule, 16 TAC §§ 25.181, 25.182 and 25.183
EESP	Energy Efficiency Service Providers
EPA	Environmental Protection Agency
EUMMOT	Electric Utility Marketing Managers of Texas
HTR	Hard-To-Reach
HTR SOP	Hard-to-Reach Standard Offer Program
LM SOP	Load Management Standard Offer Program
MTP	Market Transformation Program
NAP	Not Applicable
New Homes	High-Performance New Home Market Transformation Program
Open MTP	Open Market Transformation Program

Acronyms (Continued)

PURA	Public Utility Regulatory Act
PV	Photovoltaic
PV MTP	SMART Source^{SM} Solar PV Market Transformation Program
R&D	Research and Development
REP	Retail Electric Provider
RES	Residential
RSOP	Residential Standard Offer Program
SCORE	Schools Conserving Resources
SCORE/CS MTP	SCORE/CitySmart Market Transformation Program
SOP	Standard Offer Program
TCC	AEP Texas Central Company (now the Central Division of AEP Texas)
TDU	Transmission and Distribution Utility
TLIP	Targeted Low-Income Energy Efficiency Program
TRM	Texas Technical Reference Manual

APPENDIX A:

REPORTED AND VERIFIED DEMAND AND ENERGY REDUCTION BY COUNTY

Reported and Verified Demand and Energy Reduction by County: AEP Texas

Reported and Verified Demand and Energy Reduction by County: Central														
County	Commercial Solutions MTP		Commercial SOP		CoolSaverSM A/C Tune-Up MTP (Commercial)		CoolSaverSM A/C Tune-Up MTP (Residential)		Hard-to-Reach SOP		High Performance New Homes MTP		Load Management SOP	
	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Aransas									0.8	1,243	121.7	170,003		
Bee			3.4	17,908			0.3	1,193	1.2	2,654	1.3	2,668		
Brooks									5.7	12,592				
Calhoun	8.6	47,494									10.4	17,873	118.0	118
Cameron	118.6	409,446	398.8	1,857,282	690.1	1,341,111	43.8	222,280	104.8	216,874			3,823.5	3,824
Coleman														
Colorado											1.3	3,464	22.2	22
Dimmit			23.4	119,007									29.1	29
Duval														
Frio													35.5	35
Gonzales														
Hidalgo	391.8	1,665,613	1,141.5	5,992,737	2,153.2	4,303,724	501.5	2,407,386	1,232.0	3,061,537	393.8	555,869	2,584.7	2,585
Jackson	8.6	47,494												
Jim Wells									6.5	16,205	3.8	4,882	106.1	106
Karnes													80.7	81
Kleberg									15.9	42,819	1.8	2,109	104.9	105
La Salle	5.3	36,669												
Live Oak			2.5	13,341					2.5	3,619				
Matagorda									1.0	1,283			0.0	0
Maverick			112.7	550,625									159.2	159
Medina													112.4	112
Nueces	207.3	903,517	797.8	4,264,540	1,446.6	2,968,679	522.2	2,710,871	240.7	487,038	1,366.7	1,910,026	2,225.6	2,226
Refugio											18.2	21,709	0.8	1
San Patricio	15.3	59,515	399.8	4,033,214	34.2	71,004	30.0	155,655	20.1	42,749	255.2	379,499	5,922.5	5,923
Starr	14.2	57,245			173.4	331,205	4.7	24,345	76.3	180,676			193.8	194
Uvalde	9.1	35,460											165.1	165
Val Verde			12.9	50,261					1.1	1,964			102.3	102
Victoria	7.9	30,896	5.6	34,854					45.0	58,172	11.8	27,021	154.7	155
Webb	113.4	591,010	52.3	290,248			151.6	786,953	30.3	52,893	79.7	152,888	2,217.5	2,217
Wharton	71.1	359,955											101.5	101
Willacy							44.7	231,861	1.2	2,240			1,094.2	1,094
Zapata														
Zavala														

Reported and Verified Demand and Energy Reduction by County: AEP Texas (Continued)

Reported and Verified Demand and Energy Reduction by County: Central (Continued)																
County	Open MTP		Residential SOP		Residential Pool Pump Pilot MTP		SCORE/CitySmart MTP		SMART SourceSM Solar PV MTP (Commercial)		SMART SourceSM Solar PV MTP (Residential)		Targeted Low-Income Energy Efficiency Program		Total	
	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Aransas			7.4	17,647	8.7	108,318									138.5	297,211
Bee			1.8	8,445											8.0	32,868
Brooks	4.2	18,932	10.6	29,126											20.5	60,650
Calhoun															137.0	65,485
Cameron	91.8	359,446	478.0	2,990,833	0.6	7,317			140.0	465,530			59.9	102,359	5,949.9	7,976,301
Coleman							13.9	52,819							13.9	52,819
Colorado															23.6	3,486
Dimmit													83.6	134,490	136.1	253,526
Duval			0.4	2,901			74.5	304,925							74.9	307,826
Frio							0.6	2,219							36.0	2,254
Gonzales											3.6	10,175			3.6	10,175
Hidalgo	417.1	1,683,805	1,314.5	6,638,874			253.7	1,100,863	41.6	229,893	99.2	348,725	252.8	421,691	10,777.3	28,413,301
Jackson															8.6	47,494
Jim Wells			31.6	215,705											148.0	236,898
Karnes															80.7	81
Kleberg			11.0	61,756							7.1	22,224			140.7	129,014
La Salle											15.0	40,761	10.0	14,542	30.2	91,972
Live Oak															5.0	16,960
Matagorda							127.1	374,344							128.1	375,627
Maverick											6.7	23,847	67.1	115,892	345.8	690,523
Medina															112.4	112
Nueces	207.5	974,738	187.6	1,129,177	1.7	20,649	493.6	2,223,876			53.7	202,074	82.5	194,066	7,833.3	17,991,476
Refugio											8.8	23,293			27.8	45,003
San Patricio			21.8	108,593	3.5	43,902	317.9	1,453,605			4.0	13,135			7,024.3	6,366,794
Starr			271.2	1,526,130							15.4	46,150			749.0	2,165,945
Uvalde													42.0	71,563	216.2	107,188
Val Verde													125.7	175,041	242.1	227,369
Victoria			2.8	6,382			43.0	154,038							270.8	311,518
Webb	105.5	454,457					21.9	69,914			116.6	409,430	80.1	117,978	2,968.8	2,927,988
Wharton							120.9	1,076,414							293.4	1,436,470
Willacy			3.6	7,818			383.1	1,259,400							1,526.9	1,502,413
Zapata	16.7	83,291													16.7	83,291
Zavala											5.9	21,503	15.3	26,777	21.2	48,281

Reported and Verified Demand and Energy Reduction by County: AEP Texas (Continued)

Reported and Verified Demand and Energy Reduction by County: North												
County	Commercial Solutions MTP		Commercial SOP		Hard-to-Reach SOP		Load Management SOP		Open MTP		Residential SOP	
	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Brewster												
Callahan					1.1	1,135			8.7	50,487	9.9	15,596
Childress			1.6	6,590	14.3	22,974			3.9	16,292	4.0	6,709
Coke	3.9	18,077										
Concho									9.1	42,889	0.4	870
Cottle												
Crockett	59.4	307,762	0.9	4,775								
Eastland												
Fisher	1.7	7,236										
Hall											5.7	16,394
Hardeman					9.5	12,988					6.3	8,944
Haskell	17.0	87,932					14.9	15				
Jones	1.2	5,325			1.9	3,496					7.6	12,953
Menard									1.2	4,672		
Presidio					1.1	3,365					71.8	341,227
Reagan			0.9	4,775								
Reeves												
Runnels	1.0	5,810					33.2	33	7.1	30,056		
Schleicher									2.3	8,143		
Shackelford											4.5	10,420
Sterling	4.4	19,772							1.4	5,627		
Stonewall	17.0	87,932										
Sutton	2.9	13,255	1.7	9,550								
Taylor	438.7	2,228,227	164.8	836,258	151.1	264,754	1,799.5	1,800	202.3	794,911	364.6	624,886
Tom Green	131.4	605,521	63.5	327,812	312.9	438,449	357.9	358	137.1	589,441	111.0	213,420
Wilbarger							87.6	88			34.7	100,513

Reported and Verified Demand and Energy Reduction by County: AEP Texas (Continued)

Reported and Verified Demand and Energy Reduction by County: North (Continued)										
County	SCORE/CitySmart MTP		SMART SourceSM Solar PV MTP (Commercial)		SMART SourceSM Solar PV MTP (Residential)		Targeted Low-Income Energy Efficiency Program		Total	
	kW	kWh	kW	kWh	kW	kWh	kW	kWh	kW	kWh
Brewster					3.8	12,363			3.8	12,363
Callahan	28.6	218,072							48.3	285,289
Childress									23.9	52,565
Coke	11.7	45,449							15.6	63,526
Concho									9.5	43,759
Cottle							0.3	239	0.3	239
Crockett									60.2	312,537
Eastland							42.9	89,704	42.9	89,704
Fisher									1.7	7,236
Hall									5.7	16,394
Hardeman									15.9	21,932
Haskell									31.9	87,947
Jones	6.5	18,495							17.2	40,268
Menard									1.2	4,672
Presidio					9.9	36,847			82.9	381,438
Reagan									0.9	4,775
Reeves					5.0	17,742			5.0	17,742
Runnels	102.5	504,321							143.8	540,221
Schleicher									2.3	8,143
Shackelford									4.5	10,420
Sterling									5.8	25,399
Stonewall									17.0	87,932
Sutton									4.6	22,805
Taylor	31.8	174,905			44.8	155,033	446.3	931,532	3,643.9	6,012,304
Tom Green	252.6	611,516	19.9	55,725	64.2	201,548			1,450.5	3,043,789
Wilbarger			35.7	111,066	4.6	17,728			162.5	229,394

APPENDIX B:

PROGRAM TEMPLATES

AEP Texas does not have any Program Templates to report this year.

APPENDIX C:
OPTIONAL SUPPORTING DOCUMENTATION