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ONCOR ELECTRIC DELIVERY COMPANY LLC

2019 Energy Efficiency Plan and Report

16 Tex. Admin Code §25.181 and §25.183 (TAC)

April 1, 2019

Project No. 49297

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INTRODUCTION

Oncor Electric Delivery Company LLC (Oncor or Company) presents this Energy Efficiency Plan and Report (EEPR) to comply with Public Utility Commission of Texas (Commission) 16 TAC §25.181 and §25.183 (the Energy Efficiency Rule or EE Rule), which implement Public Utility Regulatory Act (PURA) §39.905. PURA §39.905 and the EE Rule require that each investor-owned electric utility achieve the following minimum savings goals through market-based standard offer programs (SOPs), targeted market transformation programs (MTPs), or utility self-delivered programs:

- 30% reduction of the electric utility's five-year average annual growth in demand of residential and commercial customers for the 2013 program year and for subsequent program years until the trigger described in the next paragraph is reached.

Additionally, effective September 1, 2011, PURA §39.905 requires that an electric utility whose amount of energy efficiency to be acquired is equivalent to at least four-tenths of one percent of its summer weather-adjusted peak demand for residential and commercial customers in the previous calendar year, maintain a goal of no less than four-tenths of one percent of that summer weather-adjusted peak demand for residential and commercial customers by December 31 of each subsequent year and that the energy efficiency to be required not be less than the preceding year.

The EE Rule includes specific requirements related to the implementation of SOPs and MTPs by investor-owned electric utilities that control the manner in which they must administer their portfolio of energy efficiency programs in order to achieve their mandated energy efficiency savings goals. Oncor's EEPR is intended to enable the Company to meet its statutory savings goals through implementation of energy efficiency programs in a manner that complies with PURA §39.905 and the EE Rule. As outlined in the EE Rule, this EEPR covers the previous five years of demand savings goals and energy targets, including 2018 achievements, and reports plans for achieving 2019 and 2020 projected energy efficiency savings. The following section provides a description of what information is contained in each of the subsequent sections and appendices.

ENERGY EFFICIENCY PLAN AND REPORT ORGANIZATION

This EEPR consists of the following information:

Executive Summary

- The Executive Summary highlights Oncor's reported achievements for 2018 and Oncor's plans for achieving its 2019 and 2020 projected energy efficiency savings.

Energy Efficiency Plan (EEP)

- Section I describes Oncor's program portfolio. It details how each program will be implemented, discusses related informational and outreach activities, and provides an introduction to any programs not included in Oncor's previous EEP.
- Section II explains Oncor's targeted customer classes, specifying the size of each class and the method for determining those sizes.

- Section III presents Oncor’s projected energy efficiency savings goals for the prescribed planning period broken out by program for each customer class.
- Section IV describes Oncor’s proposed energy efficiency budgets for the prescribed planning period broken out by program for each customer class.

Energy Efficiency Report

- Section V documents Oncor’s actual weather-adjusted demand savings goals and energy targets for the previous five years (2014-2018).
- Section VI compares Oncor’s projected energy and demand savings to its reported and verified savings by program for calendar year 2018.
- Section VII details Oncor’s incentive and administration expenditures for the previous five years (2014-2018) broken out by program for each customer class.
- Section VIII compares Oncor’s actual and budgeted program costs from 2018 broken out by program for each customer class. It also explains any cost increases or decreases of more than 10 percent for Oncor’s overall program budget.
- Section IX describes the results from Oncor’s MTPs and Research & Development activities. It compares existing baselines and existing milestones with actual results, and details any updates to those baselines and milestones.
- Section X provides the revenue billed during 2018 through Oncor’s Energy Efficiency Cost Recovery Factor (EECRF) and describes any over- or under-recovery of energy efficiency costs.

Acronyms

- Abbreviations for a list of common terms.

Glossary

- Definitions for a list of common terms.

Appendices

- Appendix A – 2018 reported kW and kWh savings broken out by county for each program.
- Appendix B – Program templates for any new or newly-modified programs and any programs not included in Oncor’s previous EEPRs.
- Appendix C – 2018 Energy Efficiency Service Providers.

EXECUTIVE SUMMARY

The Energy Efficiency Plan portion of this EEPR details Oncor's plans to achieve a 30% reduction in its five-year average annual growth in demand of residential and commercial customers for the 2019 program year and a similar reduction for the 2020 program year. Oncor will also address the corresponding energy savings goal, which is calculated from its demand savings goal using a 20% conservation load factor. The goals, budgets and implementation plans that are included in this EEPR are highly influenced by requirements of the EE Rule and lessons learned regarding energy efficiency service provider and customer participation in the various energy efficiency programs. A summary of annual goals and budgets is presented in Table 1.

The Energy Efficiency Report portion of this EEPR demonstrates that in 2018 Oncor successfully implemented SOPs and MTPs, as required by PURA §39.905, that met Oncor's 30% energy efficiency savings goal by procuring 172,403 kW in demand savings (subject to any savings adjustments based on the final evaluation results by the Commission's 3rd Party Evaluation, Measurement and Verification (EM&V) Evaluator). These programs included the Home Energy Efficiency SOP, Hard-to-Reach SOP, Targeted Weatherization Low-Income SOP, Residential Solar Photovoltaic Installation SOP, Residential Demand Response SOP, Commercial Solar Photovoltaic Installation SOP, Small Business Direct Install MTP, Commercial SOP, Commercial Load Management SOP, and the Retail Platform MTP.

Table 1: Summary of Goals, Projected Savings, and Projected Budgets¹

Calendar Year	Average Growth in Demand (MW at Source)	MW Goal (% of Growth in Demand)	Demand (MW) Goal (at Meter)*	Energy MWh Goal (at Meter)**	Demand (MW) at 0.4% of Peak Demand***	Projected MW Savings (at Meter)	Projected MWh Savings (at Meter)	Projected Budget (000's)
2019	122.4	30%	69.4	121,589	92.1	161.4	218,630	\$50,358
2020	206.3	30%	69.4	121,589	93.0	179.8	245,160	\$50,427

* The 2020 Demand Goal is actually 58.3 MW when calculated per the EE Rule that requires a 30% reduction in the five-year average of annual demand growth (206.3 MW x 30% annual growth in demand reduction) x (1-.05775 line loss). However, under the EE Rule, a utility's demand reduction goal shall not be less than the prior year's goal, thus, the 2020 goal is 69.4. Line loss is the 5-year weighted average of the actual loss factors at the time of Oncor's annual peaks. The 2019 Demand Goal when calculated per the EE Rule is 34.5 MW.

** Calculated using a 20% conservation load factor.

***The Demand Goal at 0.4% of peak demand is calculated according to 16 TAC §25.181(e)(3)(B) and includes line loss.

In order to reach the above projected savings, Oncor proposes to continue implementation of the 2018 programs listed above and add the Retro-commissioning (Commercial Tune-Up) MTP in 2019.

The programs Oncor has chosen to implement target both broad market segments and specific market sub-segments that offer significant opportunities for cost-effective savings. Oncor plans to conduct ongoing informational activities to encourage participation in these SOPs and MTPs. For each program, potential participants will be identified and program information will then be

¹ Projected MW and MWh taken from Table 5 in this document. Budget data is taken from Table 6 in this document.

tailored to the types of specific participants. At a minimum this will include a program website, brochures, and an introductory meeting to explain the program prior to the program start-date. Furthermore, Oncor plans to participate in conferences to provide information related to its Energy Efficiency Program.

Oncor is continuing its effort to increase Retail Electric Provider (REP) participation in the energy efficiency programs it manages. This plan involves multiple activities and approaches that will reflect Oncor's commitment to this effort. This plan includes, but is not limited to, the following activities:

- Invite REPs to program outreach meetings with Energy Efficiency Service Providers.
- Coordinated effort with Oncor's REP Relations group to identify key REP contacts. Through REP Executive and on-site visits, Oncor will conduct energy efficiency discussions while sharing related program information and materials during these visits.
- Make contact with individual REPs at local, regional, and national conferences, trade shows and/or events as the opportunity is available.

Once an energy efficiency program has been initiated, Oncor plans to offer the program on a first-come, first-served basis.

ENERGY EFFICIENCY PLAN

I. 2019 Programs

A. 2019 Program Portfolio

Oncor plans to implement 12 market transformation and standard offer programs that are based upon Commission-approved program templates. One program, the Targeted Weatherization Low-Income SOP, is required by Senate Bill 712, which was passed by the Texas Legislature in 2005. Additional requirements were passed by the Texas Legislature in 2011. Senate Bill 1434 requires that annual expenditures for the Targeted Weatherization Low-Income SOP are not less than 10 percent of the utility's energy efficiency budget for the year.

As discussed below, the Company's programs target both broad market segments and specific market sub-segments that offer significant opportunities for cost-effective savings. Oncor anticipates that outreach to a broad range of service provider types will be necessary in order to meet the savings goals required by PURA §39.905 and the EE Rule on a continuing basis. Table 2 summarizes the programs and target markets.

Table 2: 2019 Energy Efficiency Program Portfolio

Program	Target Market	Application
Commercial SOP	Commercial	Retrofit; New Construction
Hard-to-Reach SOP	Hard-to-Reach Residential	Retrofit
Emergency Load Management SOP	Existing Industrial	Load Management
Commercial Load Management SOP	Large Commercial	Load Management
Small Business Direct Install MTP	Small Commercial	Retrofit
Home Energy Efficiency SOP	Residential	Retrofit
Targeted Weatherization Low-Income SOP	Low-Income Residential	Retrofit
Commercial Solar Photovoltaic Installation SOP	Commercial	Retrofit
Residential Solar Photovoltaic Installation SOP	Residential	Retrofit
Residential Demand Response SOP	Residential	Load Management
Retail Platform MTP	Residential; Commercial	Retrofit; New Construction
Retro-commissioning MTP	Commercial	Retrofit

The programs listed in Table 2 are described in further detail below. Oncor maintains a website containing links to the program manuals of the SOPs, all of the requirements for project participation, the forms required for project submission, and the current available funding at <https://www.oncoreepm.com/>. This website will be the primary method of communication used to provide potential Energy Efficiency Service Providers with program updates and information, including information on future opportunities to bid to be an implementer of an Oncor Market Transformation Program. Additional information to help residential consumers, business owners and government and educational facilities with their energy efficiency efforts can be found at <http://www.takealoadofftexas.com/>.

B. Existing Programs

Commercial Standard Offer Program (CSOP)

Custom - The Custom Component of the Commercial SOP targets large commercial customers with new or retrofit projects that require measurement and verification with an incentive of \$10,000 or larger. Oncor provides incentives to Energy Efficiency Service Providers who install approved energy efficiency measures in business, government, nonprofit, and worship facilities in Oncor's service area. These include, but are not limited to, lighting, motors, variable frequency drives, cooling, and process upgrades as well as new construction that exceeds existing energy code baselines per the Texas Technical Reference Manual (TTRM). These energy-saving projects must be approved by Oncor prior to project start. Once completed, Oncor verifies the savings and the Energy Efficiency Service Providers receive incentive payments based on the project's actual savings. The 2019 budget for the Custom Component of the Commercial SOP is \$3,498,797 with targeted impacts of 3,465 kW and 20,338,921 kWh.

Basic – The Basic Component of the Commercial SOP targets commercial customers with new or retrofit projects that do not require measurement and verification who install approved energy efficiency measures in business, government, educational, nonprofit, and worship facilities in Oncor's service area. These include, but are not limited to, lighting, air conditioning, ENERGY STAR® roofs and food service equipment, refrigeration measures, and window film as well as new construction that exceeds existing energy code baselines per the TTRM. The energy saving projects must be approved by Oncor prior to project start. Once completed, Oncor verifies the savings and the Energy Efficiency Service Providers receive incentive payments based on the project's actual savings. Also included is the replacement of existing HVAC units using early replacement in master metered multifamily apartment complexes with high efficiency heat pumps. Savings and incentives are based on deemed savings. The 2019 budget for the Basic Component of the Commercial SOP is \$8,509,674 with targeted impacts of 10,557 kW and 55,520,837 kWh.

Home Energy Efficiency Standard Offer Program (HEE SOP)

The HEE SOP targets residential customers with existing homes. This program is designed to achieve energy and demand savings in the residential market with the installation of a wide range of energy-efficiency measures in homes and multi-family residences. Incentives are paid to Energy Efficiency Service Providers to help offset the cost of these energy efficiency measures. Oncor provides the incentive directly to the Service Provider. Charges to customers vary by Service Provider and no incentives for this program are paid directly to the customer by Oncor.

The 2019 budget for this program is \$9,807,389 with targeted impacts of 21,310 kW and 36,706,893 kWh. The most common energy-efficient measures installed in the HEE SOP are attic insulation and caulking/weather-stripping around doors and windows. Energy Efficiency Service Providers must test for air leakage before and after installation when installing caulking/weather-stripping measures. Other eligible energy-efficient measures include replacement of air conditioning units, heat pumps, and installation of ENERGY STAR® windows, refrigerators, dishwashers, and clothes washers, wall insulation, floor insulation, and water heater jackets. Also included is the replacement of existing HVAC units using early replacement in multifamily apartment complexes with high efficiency heat pumps.

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

The HTR SOP targets residences with household incomes at or below 200% of the federal poverty guidelines. This program is designed to achieve energy and demand savings with the installation of a wide range of energy-efficiency measures. Energy Efficiency Service Providers implement energy saving projects in homes located in Oncor's service area. Incentives are paid to these Energy Efficiency Service Providers to help offset the cost of these energy efficiency measures. The most common measures, such as insulation and caulking/weather-stripping are installed at low or no cost to the customer. Energy Efficiency Service Providers must test for air leakage before and after installation when installing caulking/weather-stripping measures. Oncor provides the incentive directly to the Service Provider. Qualifying measures are similar to those described above for the HEE SOP, as well as water-saving devices. Also included is the replacement of existing HVAC units using early replacement in multifamily apartment complexes with high efficiency heat pumps. The same income qualifications (household incomes at or below 200% of current federal poverty level guidelines) apply to this new program option. The 2019 budget for this program is \$6,800,670 with targeted impacts of 12,105 kW and 18,686,710 kWh.

Emergency Load Management Standard Offer Program (ELM SOP)

The ELM SOP targets industrial customers with demands greater than 700 kW. This program is Grandfathered under the provisions of 16 TAC §25.181(t). The program is offered to for-profit transmission voltage level end-use customers, which includes large industrial sites. Participants are requested to reduce load when called for by Oncor. The demand reductions must be verified by Oncor in order for the incentives to be paid. This is accomplished by reviewing data recorded on Interval Data Recorders (IDRs) and calculating the amount of demand savings achieved through the "curtailment" during the summer on-peak season. The incentive is paid directly to the program participant and a ten-year contract is required to participate in the program. No customers have participated in this program since 2007 and no customers are expected to participate in 2019.

Commercial Load Management Standard Offer Program (CLM SOP)

Oncor pays incentives to Energy Efficiency Service Providers and Aggregators who work with local commercial and manufacturing facilities to achieve documented summer, on-peak demand reductions in those facilities. End-use customers may also act as the Energy Efficiency Service Provider. The program is designed to assist businesses reduce their summer on-peak energy demand and help meet the state's energy efficiency goals. The demand reductions must be verified by Oncor in order for the incentives to be paid. This is accomplished by reviewing data recorded by meters and calculating the amount of demand savings achieved through the "curtailment" during the summer on-peak season. The incentive is paid directly to the Service Provider, Aggregator or End-Use Customer. Each project must achieve a total estimated demand savings of

at least 100 kW during the summer on-peak demand period. Participating customer facilities must reduce load when called for by Oncor. The 2019 budget for this program is \$2,576,400 with targeted impacts of 60,000 kW and 180,000 kWh.

Commercial Solar Photovoltaic Installation Standard Offer Program (CSPV SOP)

The Commercial Solar Photovoltaic Installation SOP provides incentives for the installation of Solar Photovoltaic systems that reduce customer energy costs, reduce peak demand and save energy in existing commercial customer structures. Incentives are paid to Energy Efficiency Service Providers on the basis of savings calculations per the Texas Technical Reference Manual. The 2019 budget for the CSPV SOP is \$2,323,820 with targeted impacts of 1,534 kW and 4,979,022 kWh.

Residential Solar Photovoltaic Installation Standard Offer Program (RSPV SOP)

The Residential Solar Photovoltaic Installation SOP provides incentives for the installation of Solar Photovoltaic systems that reduce customer energy costs, reduce peak demand and save energy in existing residential customer structures. Incentives are paid to Energy Efficiency Service Providers on the basis of savings calculations per the Texas Technical Reference Manual. The 2019 budget for the RSPV SOP is \$2,280,370 with targeted impacts of 1,492 kW and 4,827,683 kWh.

Small Business Direct Install MTP (SBDI MTP)

Oncor's Small Business Direct Install MTP is a market transformation program designed to offer contractors and customers education on energy efficiency technologies, equip participating contractors with the tools they need to succeed in installing projects in the small business market, and offer incentives to assist small (≤ 200 kW) and very small (≤ 10 kW) businesses to install energy-efficient products such as high efficiency lighting and refrigeration measures. The program is focused on the non-Metro counties served by Oncor. The 2019 budget for the SBDI MTP is \$3,517,740 with targeted impacts of 2,179 kW and 13,365,283 kWh.

Targeted Weatherization Low-Income SOP

For the 2019 Program year Oncor is implementing the Targeted Low-Income Weatherization Program to comply with the Public Utility Regulatory Act (PURA) §39.905(f) which states, "Unless funding is provided under §39.903, each unbundled transmission and distribution utility shall include in its energy efficiency plan a targeted low-income energy efficiency program as described by Section 39.903(f)(2), and the savings achieved by the program shall count toward the transmission and distribution utility's energy efficiency goal. The commission shall determine the appropriate level of funding to be allocated to both targeted and standard offer low-income energy efficiency programs in each unbundled transmission and distribution utility service area. The level of funding for low-income energy efficiency programs shall be provided from money approved by the commission for the transmission and distribution utility's energy efficiency programs. The commission shall ensure that annual expenditures for the targeted low-income energy efficiency programs of each unbundled transmission and distribution utility are not less than 10 percent of the transmission and distribution utility's energy efficiency budget for the year. A targeted low-income energy efficiency program must comply with the same audit requirements that apply to federal weatherization subrecipients." Section 39.903(f)(2) states that targeted energy efficiency programs are to be administered by the Texas Department of Housing and Community Affairs (TDHCA) in coordination with existing weatherization programs.

16 TAC §25.181(p) states, “Each unbundled transmission and distribution utility shall include in its energy efficiency plan a targeted low-income energy efficiency program. A utility in an area in which customer choice is not offered may include in its energy efficiency plan a targeted low-income energy efficiency program that utilizes the cost-effectiveness methodology provided in paragraph (2) of this subsection. Savings achieved by the program shall count toward the utility’s energy efficiency goal.

- (1) Each utility shall ensure that annual expenditures for the targeted low-income energy efficiency program are not less than 10% of the utility’s energy efficiency budget for the program year.
- (2) The utility’s targeted low-income program shall incorporate a whole-house assessment that will evaluate all applicable energy efficiency measures for which there are commission-approved deemed savings. The cost-effectiveness of measures eligible to be installed and the overall program shall be evaluated using the Savings-to-Investment ratio (SIR).
- (3) Any funds that are not obligated after July of a program year may be made available for use in the hard-to-reach program.”

Oncor is implementing a Program through Texas Association of Community Action Agencies (TACAA) who will provide funds to designated federal Weather Assistance Program (WAP) Subrecipient agencies enabling them to provide weatherization services to residential electric distribution customers of Oncor who have household incomes at or below 200% of current federal poverty level guidelines.

TACAA will be entitled to compensation for materials, labor and program support used by the federally funded Sub recipient to install weatherization measures for up to \$6,500 per weatherized Dwelling Unit. TACAA may reimburse the federally funded Subrecipient for program support costs and up to 10% of the invoice amount for administration, which amounts are not part of the 8% program administration fee paid to TACAA. Federally funded Sub recipient program support costs shall be included in the calculation of the \$6,500 per Dwelling Unit cap, but shall not be included in calculating the Whole House SIR.

Energy-efficient measures installed include aerators, ceiling insulation, air infiltration, central air conditioning units, central heat pumps, floor insulation, ENERGY STAR® refrigerators, dishwashers, clothes washers and windows, showerheads, window air conditioning units, wall insulation, water heater jackets and water heater pipe insulation.

In 2017, Oncor added EnerChoice as a Program Implementer. EnerChoice uses program incentives to replace existing HVAC units in multifamily apartment complexes with high efficiency heat pumps and earns an administration fee of up to 10% for their services. The same income qualifications (household incomes at or below 200% of current federal poverty level guidelines) apply to this new program option.

The 2019 budget for this program is \$5,005,900 with targeted impacts of 2,750 kW and 4,075,304 kWh.

Program History - This program targeted Oncor’s low-income residential customers who met DOE’s income eligibility guidelines which are at or below 200% of the federal poverty level

guidelines and are connected to Oncor's electric system. Incentive funds were provided to the TDHCA sub-recipient agencies and other not-for-profit or local government agencies, enabling them to provide weatherization services to qualifying customers. Participating agencies provided outreach, eligibility verification, assessments, and could either install or contract for the installation of cost-effective energy-efficient measures. Agencies received reimbursement for conducting assessments and installing the measures, plus an administrative fee equal to eight percent of the measure installation costs. The maximum expenditure per home was \$6,500.

Energy-efficient measures installed included attic insulation, duct sealing and caulking/weather-stripping around doors and windows, central air conditioning units, central heat pumps, window air conditioning units, replacement of electric water heaters, installation of ENERGY STAR® refrigerators, solar window screens, wall insulation, CFLs, water heater jackets and ENERGY STAR® ceiling fans with a light kit.

Prior to 2005, the TDHCA administered a targeted energy efficiency program that was funded through the System Benefit Fund (SBF). When appropriations from the SBF were discontinued for TDHCA's program in 2005, the Texas Legislature enacted SB 712. SB 712 amended PURA §39.905(f), requiring unbundled utilities like Oncor to fund through rates a targeted low-income energy efficiency program that would be administered by TDHCA. In the summer of 2006, the Commission approved (in Docket No. 32103) an agreement among TLSC/Texas ROSE, the Commission Staff, Oncor (then TXU Electric Delivery Company), AEP Texas Central Company, AEP Texas North Company, CenterPoint Energy Houston Electric, LLC, and Texas-New Mexico Power Company, that reflected a plan for implementing SB 712's requirements in calendar years 2006 and 2007 (the Docket No. 32103 Agreement). Oncor agreed to provide \$3,412,941 annually to TDHCA for the Company's SB 712 obligation. Among other terms, the Docket No. 32103 Agreement provided that the program would be targeted to households with income at or below 125% of the federal poverty guidelines.

On May 23, 2007, TDHCA informed Oncor that it was not authorized to spend the funds paid by Oncor due to a ruling by the Office of Comptroller of Public Accounts, and that Oncor should make alternative arrangements to complete the program that did not involve TDHCA. Thus, Oncor promptly entered into talks with Frontier Associates LLC (Frontier) and ultimately reached an agreement with Frontier for it to administer the SB 712 program in Oncor's service area, *i.e.*, the Pilot Targeted Weatherization Low-Income Program.

On July 27, 2007, TLSC/Texas ROSE filed a petition with the Commission seeking to have Texas Association of Community Action Agencies (TACAA) designated as the sole administrator for the SB 712 programs of all the unbundled utilities, including Oncor. TLSC/Texas ROSE's petition was litigated in Docket No. 34630, *Petition of Texas Legal Services Center and Texas Ratepayers' Organization to Save Energy to Modify the Commission's Final Order in Docket No. 32103 and to Reform the Agreement to Implement Weatherization Programs*. The Commission found that the utilities should have the flexibility to contract with a provider of their choice, as Oncor did with Frontier, to implement SB 712 programs.

During the 2011 Texas Legislative session SB 1434 was passed and signed into law by the Governor of Texas. Contained in the 2011 legislation is the following language related to the Targeted LIW Program:

Unless funding is provided under Section 39.903, each unbundled transmission and distribution utility shall include in its energy efficiency plan a targeted low-income energy efficiency program as described by Section 39.903(f)(2), and the savings achieved by the program shall count toward the transmission and distribution utility's energy efficiency goal. The commission shall determine the appropriate level of funding to be allocated to both targeted and standard offer low-income energy efficiency programs in each unbundled transmission and distribution utility service area. The level of funding for low-income energy efficiency programs shall be provided from money approved by the commission for the transmission and distribution utility's energy efficiency programs. The commission shall ensure that annual expenditures for the targeted low-income energy efficiency programs of each unbundled transmission and distribution utility are not less than 10 percent of the transmission and distribution utility's energy efficiency budget for the year. A targeted low-income energy efficiency program must comply with the same audit requirements that apply to federal weatherization subrecipients. In an energy efficiency cost recovery factor proceeding related to expenditures under this subsection, the commission shall make findings of fact regarding whether the utility meets requirements imposed under this subsection.....

In 2012 Oncor implemented the program to provide funds to TDHCA sub-recipient agencies and other not-for-profit or local government agencies, enabling them to provide weatherization services to residential electric distribution end-use consumers of Oncor who had household incomes at or below 200% of the current federal poverty guidelines. Participating agencies provided outreach, eligibility verification, assessments, and either installed or contracted for the installation of cost-effective measures. Agencies received reimbursement for conducting assessments and installing the measures, plus an administrative fee equal to 8 percent of the measure installation costs. The maximum expenditure per home was \$6,500. The \$6,500 per home cap included assessment and/or testing fees from homes that did not qualify for installed measures based on the assessment.

Residential Demand Response SOP (RDRSOP)

Oncor's Residential Demand Response SOP is an expansion of the 2015-2016 pilots, which provided incentives to participating providers for reducing peak electric demand at residential premises. In 2019, the program will engage providers to provide demand response capability using remotely controlled load control devices in homes. The providers will use various control strategies, such as pre-cooling and cycling to reduce overall demand during the peak period. Implementation will occur in the Oncor service territory and target residential homes. The participating providers are responsible for ensuring the presence of load control devices in participating residences. The actual demand savings will be determined by Oncor using advanced meter data. The 2019 Program budget is \$1,412,730, with targeted impacts of 32,900 kW and 197,400 kWh.

Retail Platform MTP

The Retail Platform MTP provides incentives directly to Residential Customers through in-store point of sale discounts for the purchase of qualifying ENERGY STAR-rated LED lighting products and consumer appliances. The Program is partnership-based and delivers qualified product measures by contracting with major market manufacturers and through cooperation with their retail alliance partners. Slated to continue through 2020, the program has a budget of \$3,360,520 in 2019 with targeted impacts of 13,126 kW and 56,751,812 kWh. Based on the Texas

Technical Reference Manual Version 5.0 recommendation, claimed savings will be attributed based on five percent of upstream lighting program benefits and costs allocated to commercial customers with the remaining 95 percent allocated to residential customers.

In November 2018 select ENERGY STAR rated Nest and Ecobee smart thermostats were made available as part of this program, giving customers the ability to monitor and adjust their home's temperature even when away from home. Oncor customers can obtain a coupon to purchase a smart thermostat by visiting www.smartsavingstx.com.

Research and Development

During 2019, Oncor will continue collaboration with the General Services Administration Green Proving Ground (GSA). Annually, the GSA issues an RFI for vendors to submit new energy efficient technologies into the program for evaluation. The GSA, Oncor, and national laboratories review the submittals and select several for installation on Federal facilities. Technologies are evaluated for equipment performance, as well as energy and demand savings for up to one year. The collaboration allows utilities to recommend technologies for inclusion in the program. The technologies may be installed and evaluated on Federal facilities within ERCOT, or other areas with similar weather zones.

Oncor and the GSA are currently working on an advanced lighting controls project at the A. Maceo Smith Federal Building in Dallas. The objective of the project is to identify and quantify energy savings from advanced lighting controls in buildings where day lighting contributes to ambient light levels. Project measurement and verification will be completed in early 2019. Using the measurement and verification results as a basis, Oncor expects to propose savings calculations for advanced lighting controls for inclusion in the 2020 Texas Technical Reference Manual.

Additionally, Oncor will continue its membership in the Texas Energy Poverty Research Institute (TEPRI) for 2019. TEPRI is a 501(c) (3) whose mission is to research the root causes of energy and fuel poverty and provide data for solutions that have an impact on low-income households. In 2019, TEPRI will continue compiling Best Practices of Low-Income Services, Programs, and Technologies. Additionally, TEPRI will update their portal of information on publications, websites, and other resources that are specific to the topic of energy and poverty in Texas and the nation.

For more details on these programs, please see Section IX.

C. New Programs for 2019

Retro-commissioning (Commercial Tune-Up) MTP (RC MTP)

The RC MTP program is designed to assist building owners with a low cost, low resource commitment opportunity that offers quick energy savings. The program features a pre-defined measure list, fixed project fees, clear reimbursement schedule and short project cycle times. This leads to quick collection of impacts for our utility partners.

It is common for a building's energy management system to be overridden over time, resulting in wasted energy. These customers can benefit from assistance through a controls program that will identify energy waste and improve the management of the building's systems. The program

offers a controls tune-up to capture savings in small- to medium-sized commercial buildings and focuses on capturing savings that are available but may be ignored in utility program portfolios because the measures typically have a payback of less than a year. Primary measures include the following:

- Schedule refinement or optimal start/stop
- Zone level airflow control
- Static pressure settings
- Supply temperature settings

The following list describes the target market that would both benefit and yield savings as a participant in the program.

- Participating facilities must have a modern Building Automation System (BAS), Direct Digital Control System (DDC) or Energy Management System (EMS)
- Smaller and medium commercial properties under 200,000 square feet (e.g. office, medical centers, public facilities)
- A facility that has had building or operational changes
- A facility containing multiple HVAC systems
- The facility is not under construction or planning construction in the next few months (participant requirement)

The 2019 budget for the RCMTP is \$218,400 with targeted impacts of 3,000,000 kWh.

II. Customer Classes

Customer classes targeted by Oncor's energy efficiency programs are the Hard-to-Reach, Residential, and Commercial customer classes. The annual demand goal will be allocated to customer classes by examining historical program results, evaluating economic trends, and complying with 16 TAC §25.181(e)(3)(F), which states that no less than 5% of the utility's total demand reduction savings goal should be achieved through programs for hard-to-reach customers. Also factored into the allocation is the PURA §39.905 requirement that annual expenditures for the targeted low-income energy efficiency programs are not less than 10 percent of the annual energy efficiency budget for the year. Table 3 summarizes the number of customers in each of the customer classes, which was used to determine budget allocations for those classes. Oncor used year-end 2018 Customer Information System (CIS) premise-level data to estimate the number of customers in each class. The Hard-to-Reach class was estimated by multiplying the total number of residential customers by 27.8%. According to the U.S. Census Bureau's 2018 Current Population Survey (CPS), 27.8% of Texas families fall below 200% of the poverty threshold (2017 CPS was 27.5%). Applying that percentage to Oncor's residential customer totals, the number of HTR customers is estimated at 853,814 compared to 827,834 in 2017. This calculation is only an estimate. Oncor does not have access to its residential customers' income levels. The actual percentage may be higher or lower.

It should be noted, however, that the actual distribution of the goal and budget must remain flexible based upon the response of the marketplace, the potential interest that a customer class may have toward a specific program and the overriding objective of meeting the legislative goal. Oncor will offer a portfolio of Standard Offer and Market Transformation Programs that will be available to all customer classes.

Table 3: Summary of Customer Classes

Program	Number of Customers
Commercial	479,698*
Residential	2,217,461
Hard-to-Reach	853,814
Total	3,550,973

* Customer count takes into account 11,280 qualifying for-profit industrial customers who have elected to exclude themselves from participation in Oncor's energy efficiency programs per 16 TAC 25.181(u), as well as lighting premises.

III. Projected Energy Efficiency Savings and Goals

As prescribed by 16 TAC §25.181, Oncor's demand goal is specified as a percent of its historical five-year average rate of growth in demand. As an example, the annual growth in demand defined for the 2019 goal reflects the average annual growth in peak demand for the years 2014 through 2018. The demand goals are based on meeting 30% of the electric utility's annual growth in demand of eligible residential and commercial customers for the 2018, 2019 and 2020 program years. The corresponding energy savings goals are determined by applying a 20% conservation load factor to the applicable demand savings goals.

Table 4 presents historical annual growth in demand for the previous five years. Total System numbers include all customers (including transmission voltage and qualifying for-profit industrial customers who elected to exclude themselves from participation in Oncor's energy efficiency programs) while Residential and Commercial totals include eligible residential and non-residential customers taking delivery at a distribution voltage and non-profit customers and government entities, including educational institutions. Table 5 presents the projected demand and energy savings broken out by program for each customer class for 2019 and 2020. The program-level goals presented in Table 5 are at the meter and take into account transmission and distribution line losses.

Table 4: Annual Growth in Demand and Energy Consumption *

Calendar Year	Peak Demand (MW) (at Source) **					Energy Consumption (MWh) (at Meter)				Residential & Commercial	
	Total System		Opt-Out	Residential & Commercial		Total System		Residential & Commercial		Growth (MW)	Avg 5 Yr (MW) Growth
	Actual	Actual Weather Adjusted ²	Secondary/ Primary, & Transmission Voltage***	Actual	Actual Weather Adjusted ²	Actual	Actual Weather Adjusted ²	Actual	Actual Weather Adjusted ²	Actual Weather Adjusted ²	Actual Weather Adjusted ²
2013	24,792	25,383	1,246	23,545	24,136	112,312,279	111,791,813	101,919,737	99,104,671		
2014	24,122	26,054	1,589	22,534	24,466	114,905,829	113,939,185	101,640,875	100,674,230	329	
2015	25,531	26,179	1,646	23,885	24,533	116,594,625	116,554,605	102,634,272	102,594,252	67	
2016	25,787	26,620	1,755	24,032	24,865	115,791,379	117,927,439	100,977,674	103,113,734	332	
2017	25,170	26,267	1,879	23,290	24,387	117,017,075	119,776,460	100,971,312	103,730,697	-477	
2018	27,493	27,223	2,055	25,438	25,168	130,007,690	128,631,337	111,336,170	109,959,816	780	206.3
2019³	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2020³	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

* Table 4 values can differ from prior years due to restatement of historic demands from ERCOT Settlement interval data. Additional variance is due to changing the weather adjustment process to better match the ERCOT Settlement method. Values may not add due to rounding.

** Peak Demand values have been revised to reflect the combined Oncor and former Sharyland MW values for 2013-2017.

*** Includes the peak demand of qualifying for-profit industrial customers who receive service at primary/secondary voltage and have elected to exclude themselves from participation in Oncor's energy efficiency programs in the following amounts: Year 2013 – 128 MW, Year 2014 - 393 MW, Year 2015 - 414 MW, Year 2016 – 429 MW, Year 2017 – 486, and Year 2018 – 539.

² "Actual Weather Adjusted" Peak Demand and "Energy Consumption" are adjusted for weather fluctuations using weather data for the most recent ten years.

³ "NA" = Not Applicable. Energy efficiency goals are calculated based upon the actual weather-adjusted growth in demand; so peak demand and energy consumption forecasts for 2019 and 2020 are not applicable.

Table 5: Projected Demand and Energy Savings Broken Out by Program for Each Customer Class (at Meter)

Customer Class and Program	2019 Projected Savings		2020 Projected Savings	
	(kW)	(kWh)	(kW)	(kWh)
Commercial	78,391	100,221,654	89,812	102,351,124
Commercial SOP (Custom)	3,465	20,338,921	-	-
Commercial SOP (Basic)	10,557	55,520,837	-	-
Commercial SOP	-	-	12,711	69,142,575
Emergency Load Management SOP	0	0	0	0
Commercial Load Management SOP	60,000	180,000	72,000	216,000
Small Business Direct Install MTP	2,179	13,365,283	2,610	15,711,041
Solar PV SOP	1,534	4,979,022	1,534	4,979,022
Retail Platform MTP	656	2,837,591	957	4,302,486
Retro-commissioning MTP	0	3,000,000	0	8,000,000
Residential	68,172	95,646,197	75,084	120,042,819
Home Energy Efficiency SOP	21,310	36,706,893	20,899	35,709,065
Solar PV SOP	1,492	4,827,683	1,001	2,481,514
Residential Demand Response SOP	32,900	197,400	35,000	105,000
Retail Platform MTP	12,470	53,914,221	18,184	81,747,240
Hard-to-Reach	14,855	22,762,014	14,866	22,765,611
Hard-to-Reach SOP	12,105	18,686,710	12,108	18,688,666
Targeted Weatherization Low-Income SOP	2,750	4,075,304	2,758	4,076,945
Total Annual Savings Goals	161,418	218,629,865	179,762	245,159,554

IV. Program Budgets

Table 6 represents total proposed budget allocations required to achieve the projected demand and energy savings shown in Table 5. The budget allocations are defined by the overall demand and energy savings presented above, allocation of demand savings goals among customer classes, and SB 712 and SB 1434 Targeted Low-Income mandates. The budget allocations presented in Table 6 below are first broken down by customer class and program, and are then further subdivided into the incentive payments and administration categories.

Administration costs include labor and loading, evaluation, outreach, Energy Efficiency Program Management (tracking and reporting system), program development, program implementation, regulatory reporting, and any costs incurred associated with the EECRF filing by the company. Costs associated with specific programs are charged directly to those programs, while costs not associated with specific programs are allocated among all programs.

While Oncor has estimated budgets by customer class, Oncor plans to track and report budgets by program, since individual programs may serve multiple customer classes.

Table 6: Proposed Annual Budget Broken Out by Program for Each Customer Class

2019 Customer Class & Program	Incentives	Administration	Total Budget
Commercial	\$18,399,735	\$2,413,822	\$20,813,557
Commercial SOP (Custom)	\$3,069,120	\$429,677	\$3,498,797
Commercial SOP (Basic)	\$7,525,687	\$983,987	\$8,509,674
Emergency Load Management SOP	\$0	\$0	\$0
Commercial Load Management SOP	\$2,280,000	\$296,400	\$2,576,400
Solar PV SOP	\$2,038,440	\$285,380	\$2,323,820
Small Business Direct Install MTP	\$3,140,840	\$376,900	\$3,517,740
Retail Platform MTP	\$150,648	\$18,078	\$168,726
Retro-commissioning MTP	\$195,000	\$23,400	\$218,400
Residential	\$14,646,635	\$2,045,648	\$16,692,283
Home Energy Efficiency SOP	\$8,514,319	\$1,293,070	\$9,807,389
Solar PV SOP	\$2,019,810	\$260,560	\$2,280,370
Residential Demand Response SOP	\$1,250,200	\$162,530	\$1,412,730
Retail Platform MTP	\$2,862,306	\$329,488	\$3,191,794
Hard-to-Reach	\$10,356,640	\$1,449,930	\$11,806,570
Hard-to-Reach SOP	\$5,965,500	\$835,170	\$6,800,670
Targeted Weatherization Low-Income SOP	\$4,391,140	\$614,760	\$5,005,900
Research & Development*	\$0	\$310,000	\$310,000
Evaluation, Measurement & Verification**	\$0	\$735,989	\$735,989
Total Budgets by Category	\$43,403,010	\$6,955,389	\$50,358,399

2020 Customer Class and Program	Incentives	Administration	Total Budget
Commercial	\$16,836,594	\$2,279,727	\$19,116,321
Commercial SOP	\$8,236,653	\$1,284,918	\$9,521,571
Emergency Load Management SOP	\$0	\$0	\$0
Commercial Load Management SOP	\$2,664,000	\$319,680	\$2,983,680
Solar PV SOP	\$2,038,440	\$285,380	\$2,323,820
Small Business Direct Install MTP	\$3,142,210	\$314,220	\$3,456,430
Retail Platform MTP	\$235,291	\$23,529	\$258,820
Retro-commissioning MTP	\$520,000	\$52,000	\$572,000
Residential	\$16,232,237	\$2,217,804	\$18,450,041
Home Energy Efficiency SOP	\$9,302,750	\$1,446,580	\$10,749,330
Solar PV SOP	\$1,163,950	\$168,770	\$1,332,720
Residential Demand Response SOP	\$1,295,000	\$155,400	\$1,450,400
Retail Platform MTP	\$4,470,537	\$447,054	\$4,917,591
Hard-to-Reach	\$10,399,620	\$1,402,730	\$11,802,350
Hard-to-Reach SOP	\$5,965,150	\$835,120	\$6,800,270
Targeted Weatherization Low-Income SOP	\$4,434,470	\$567,610	\$5,002,080
Research & Development*	\$0	\$310,000	\$310,000
Evaluation, Measurement & Verification**	\$0	\$748,525	\$748,525
Total Budgets by Category	\$43,468,451	\$6,958,786	\$50,427,237

* Research & Development costs will be split into Residential and Commercial classes and then allocated among the programs (by class) in proportion to the program incentives in Oncor's EECRF filings.

** EM&V costs shown for 2019 are projected expenditures Oncor will incur in 2019 for completing review of Program Year 2018. EM&V costs shown for 2020 are projected expenditures Oncor will incur in 2020 for EM&V of 2019 programs.

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

Table 7 documents Oncor's projected demand savings, actual demand goals and projected energy savings for the previous five years (2014-2018) calculated in accordance with 16 TAC §25.181.

Table 7: Historical Demand Savings Goals and Energy Targets

Calendar Year	Actual Demand Goal (MW at Meter)*	Projected Savings (MW at Meter)	Projected Energy Savings (MWh at Meter)	Reported & Verified Savings (MW at Meter)*	Reported & Verified Energy Savings (MWh at Meter)
2018 ⁴	69.4	155.3	206,072	172.4	218,383
2017 ⁵	69.4	145.8	208,513	155.2	170,124
2016 ⁶	69.4	138.1	225,783	128.8	198,743
2015 ⁷	69.4	110.3	197,436	115.8	178,908
2014 ⁸	69.4	120.9	209,595	125.3	202,105

* The 2018 MW savings at the Source is 184.7 (172.4 MW / (1 - .06655 line loss)). The 2018 demand goal MW at the source is 74.3 (69.4 MW / (1 - .06655 line loss)). The line loss was reported in Oncor's 2018 EECRF (Docket No. 47235 – WP/JMS/4).

⁴ Projected MW Savings and Projected Energy Savings as reported in the 2018 Energy Efficiency Plan & Report (EEPR) filed in March of 2018 under Project No. 48146. Actual Demand Goal as discussed in Tables 1 & 4.

⁵ Projected MW Savings and Projected Energy Savings as reported in the 2017 Energy Efficiency Plan & Report (EEPR) filed in April of 2017 under Project No. 46907. Actual Demand Goal as discussed in Tables 1 & 4.

⁶ Projected MW Savings and Projected Energy Savings as reported in the 2016 Energy Efficiency Plan & Report (EEPR) filed in April of 2016 under Project No. 45675. Actual Demand Goal as discussed in Tables 1 & 4.

⁷ Projected MW Savings and Projected Energy Savings as reported in the 2015 Energy Efficiency Plan & Report (EEPR) filed in April of 2015 under Project No. 44480. Actual Demand Goal as discussed in Table 2 1 & 4.

⁸ Projected MW Savings and Projected Energy Savings as reported in the 2014 Energy Efficiency Plan & Report (EEPR) filed in April of 2014 under Project No. 42264. Actual Demand Goal as discussed in Tables 1 & 4.

VI. Projected, Reported and Verified Demand and Energy Savings

Table 8: Projected versus Reported and Verified Savings for 2018 and 2017⁹ (at Meter)

2018	Projected Savings		Reported and Verified Savings	
Customer Class and Program	kW	kWh	kW	kWh
Commercial	82,888	121,300,632	90,366	119,797,476
Commercial SOP (Custom)	4,074	27,547,542	1,417	12,571,703
Commercial SOP (Basic)	13,477	67,549,695	13,766	73,230,061
Emergency Load Management SOP	0	0	0	0
Commercial Load Management SOP	60,000	180,000	67,658	202,974
Solar PV SOP	2,840	11,632,080	2,512	8,212,970
Small Business Direct Install MTP	2,294	13,367,902	2,572	14,238,972
Retail Platform MTP	203	1,023,413	2,440	11,340,797
Residential	63,117	63,416,134	67,874	77,468,606
Home Energy Efficiency SOP	25,257	39,127,496	24,388	40,914,271
Solar PV SOP	1,096	4,646,400	1,113	3,730,231
Residential Demand Response SOP	32,900	197,400	34,756	104,271
Retail Platform MTP	3,864	19,444,838	7,618	32,719,833
Hard-to-Reach	9,293	21,354,929	14,163	21,116,762
Hard-to-Reach SOP	7,850	18,815,742	11,256	15,825,595
Targeted Weatherization LI SOP	1,443	2,539,187	2,908	5,291,167
Total Annual Savings Goals	155,298	206,071,695	172,403	218,382,844
2017 ¹⁰	Projected Savings		Reported and Verified Savings	
Customer Class and Program	kW	kWh	kW	kWh
Commercial	76,479	112,768,790	88,810	97,305,131
Commercial SOP (Custom)	3,778	24,129,709	2,552	16,591,708
Commercial SOP (Basic)	12,789	67,722,246	11,381	67,247,365
Emergency Load Management SOP	0	0	0	0
Commercial Load Management SOP	55,000	165,000	72,060	216,181
Solar PV SOP	1,934	7,917,695	1,488	4,917,963
Small Business Direct Install MTP	2,840	11,632,080	1,190	7,129,854
Healthcare MTP	138	1,202,060	138	1,202,060
Residential	60,390	75,209,471	52,140	50,677,295
Home Energy Efficiency SOP	26,394	70,365,671	26,135	44,290,620
Solar PV SOP	1,096	4,646,400	1,854	6,241,771
Residential Demand Response SOP	32,900	197,400	24,151	144,904
Hard-to-Reach	8,906	20,534,667	14,279	22,141,730
Hard-to-Reach SOP	7,388	17,797,136	11,083	16,823,965
Targeted Weatherization LI SOP	1,518	2,737,531	3,196	5,317,765
Total Annual Savings Goals	145,775	208,512,928	155,230	170,124,157

⁹ Projected Savings totals for 2018 and 2017 from Table 7. Reported Savings may not add due to rounding.

¹⁰ Reported and Verified Savings data for 2018 taken from EEPR, Project 48146.

VII. Historical Program Expenditures

This section documents Oncor's incentive and administration expenditures for the previous five years (2014-2018) broken out by program for each customer class.

Table 9: Historical Program Incentive and Administrative Expenditures for 2014 through 2018

	2018		2017		2016		2015		2014	
	Incentive (\$)	Admin (\$)	Incentive (\$)	Admin (\$)	Incentive (\$)	Admin (\$)	Incentive (\$)	Admin (\$)	Incentive (\$)	Admin (\$)
Commercial	18,551,494	2,810,365	16,421,430	2,258,138	17,200,144	2,172,123	16,348,143	2,405,110	19,377,464	2,165,471
Solar PV SOP	3,199,284	404,539	2,016,566	296,888	6,027,919	497,068	4,815,294	489,580	8,836,015	982,403
Commercial SOP (Custom)	1,220,715	333,133	2,219,776	274,463	1,630,922	264,240	1,457,162	299,232	2,096,336	255,912
Emergency Load Management SOP	0	0	0	0	0	0	0	0	0	0
Commercial Load Management SOP	2,264,382	221,156	2,335,033	206,441	2,400,661	183,537	2,196,080	204,745	2,369,800	218,750
Retail Platform MTP	87,693	7,681	NA	NA	NA	NA	NA	NA	NA	NA
Small Business Direct Install MTP	3,407,414	281,331	1,640,121	136,407	544,189	50,966	1,784,748	151,836	1,339,022	122,469
Healthcare MTP	NA	NA	363,758	26,348	931,556	74,226	NA	NA	NA	NA
Commercial SOP (Basic)	8,372,006	1,562,525	7,846,176	1,317,591	5,664,897	1,102,086	6,094,859	1,259,717	4,736,291	585,937
Residential	14,255,973	1,819,899	15,618,050	1,900,301	19,377,105	2,040,667	13,659,678	1,911,756	18,237,838	2,008,173
Home Energy Efficiency SOP	9,786,238	1,270,240	12,111,569	1,451,784	14,435,266	1,521,569	10,005,295	1,435,699	12,950,424	1,474,757
Solar PV SOP	1,487,569	283,920	2,540,451	359,259	4,757,415	490,263	3,414,383	456,130	5,219,930	527,249
Air Conditioning MTP	NA	NA	NA	NA	NA	NA	NA	NA	67,484	6,167
Residential Demand Response SOP	1,316,000	119,803	966,030	89,258	184,424	28,835	240,000	19,927	NA	NA
Retail Platform MTP	1,666,166	145,936	NA	NA	NA	NA	NA	NA	NA	NA
Hard-to-Reach	9,162,979	1,172,244	11,048,655	1,264,640	11,117,443	1,117,681	11,653,832	1,327,473	12,495,958	1,281,622
Hard-to-Reach SOP	4,685,428	753,177	6,019,635	847,106	5,953,011	750,470	6,004,832	849,060	6,499,328	732,039
Targeted Weatherization LI SOP	4,477,551	419,067	5,029,020	417,534	5,164,432	367,211	5,649,000	478,413	5,996,630	549,583
Total Program Expenditures	41,970,446	5,802,508	43,088,135	5,423,079	47,694,692	5,330,471	41,661,653	5,644,339	50,111,260	5,455,266

VIII. Program Funding for Calendar Year 2018

Oncor exceeded its 2018 mandated demand goal of 69.4 MW by obtaining 172.4 MW in energy efficiency savings. As shown on Table 10, funds were either spent or committed by contracts with energy efficiency service providers in the amount of \$51,924,301.

The **Retail Platform MTP** was over budget in 2018 because the market demand for qualifying ENERGY STAR-rated LED lighting products was strong enough to help absorb budget short falls in other programs and incentives were reallocated to the Retail Platform MTP.

The **Commercial SOP (Custom)** was under budget in 2018 due in large to measures that previously required measurement & verification are now allowed to use deemed savings per the Texas Technical Reference Manual. This has redirected several large projects from the Commercial SOP (Custom) to the Commercial SOP (Basic). Also, the average size of submitted projects in 2018 was less than the average size from prior years. Incentive funding was reallocated from the Commercial SOP (Custom) to the Commercial SOP (Basic) and Commercial Solar Photovoltaic SOP.

The **Commercial Solar Photovoltaic Installation SOP** was over budget in 2018 because a large number of projects that were on the waitlist were able to be funded when other commercial programs fell short of their budget and their incentives were reallocated to the Commercial Solar Program.

Table 10: Program Funding for Calendar Year 2018

	Numbers of Customer Meters	Total Projected Budget ¹¹ (\$)	Actual Funds Expended (Incentives) (\$)	Actual Funds Expended (Admin)* (\$)	Total Funds Expended (\$)	Funds Committed (Not Expended) (\$)	Funds Remaining (Not Committed) (\$)
Commercial	1,138	22,776,960	18,551,494	2,810,365	21,361,859	3,027,233	(1,612,132)
Commercial SOP (Custom)	32	3,994,020	1,220,715	333,133	1,553,848	138,715	2,301,457
Emergency Load Management SOP	0	0	0	0	0	0	0
Commercial Load Management SOP	139	2,599,200	2,264,382	221,156	2,485,538	0	113,662
Commercial SOP (Basic)	689	9,604,123	8,372,006	1,562,525	9,934,531	2,888,518	(3,218,926)
Solar PV SOP	74	2,933,040	3,199,284	404,539	3,603,823	0	(670,783)
Small Business Direct Install MTP	204	3,581,260	3,407,414	281,331	3,688,745	0	(107,485)
Retail Platform MTP	NAV	65,317	87,693	7,681	95,374	0	(30,057)
Residential	38,876	15,861,300	14,255,973	1,819,899	16,075,872	0	(214,572)
Home Energy Efficiency SOP	12,110	11,448,329	9,786,238	1,270,240	11,056,478	0	391,851
Solar PV SOP	284	1,671,700	1,487,569	283,920	1,771,489	0	(99,789)
Residential Demand Response	26,482	1,500,240	1,316,000	119,803	1,435,803	0	64,437
Retail Platform MTP	NAV	1,241,031	1,666,166	145,936	1,812,102	0	(571,071)
Hard-to-Reach	7,603	10,436,320	9,162,979	1,172,244	10,335,223	0	101,097
Hard-to-Reach SOP	6,556	5,446,670	4,685,428	753,177	5,438,605	0	8,065
Targeted Low-Income SOP	1,047	4,989,650	4,477,551	419,067	4,896,618	0	93,032
Research & Development	NA	310,000	0	401,667	401,667	0	(91,667)
EM&V**	NA	713,605	0	722,447	722,447	0	(8,842)
Total	47,617	50,098,185	41,970,446	6,926,622	48,897,068	3,027,233	(1,826,116)

* Administration funds include \$8,971 of Rate Case Expenses approved in Docket No. 48421.

** EM&V costs shown are actual booked costs for 2018. For purposes of cost-effectiveness and bonus calculations, \$735,989 is used per TetraTech's 2018 EM&V cost allocation.

IX. Market Transformation & Research & Development Results

Energy Efficiency Service Providers have the opportunity to bid to become an implementer of one or more of Oncor's Market Transformation Programs. The process Oncor uses to choose implementers includes identifying potential bidders, distributing a RFP (Request for Proposal), conducting a Bidders Conference, evaluating proposals, narrowing bidders to a shortlist,

¹¹ Projected Budget taken from the EEPR filed in April 2018 under Project No. 48146.

conducting oral presentations, selecting the winning bid, and negotiating and finalizing the contract.

Oncor's 2018 Market Transformation and Research & Development Programs are described below.

Small Business Direct Install Program (MTP)

Oncor's Small Business Direct Install MTP was launched during the third quarter of 2013. A new implementer was awarded the contract in 2016 after a RFP process was completed. The implementer has managed similar programs for utilities across the United States. This program was developed to assist an under-served segment identified by Oncor. The SBDI is a market transformation program designed to offer participating small commercial customers education on energy efficiency technologies, equip participating sub-contractors with the tools they need to succeed in installing projects in the small business market, and offer incentives to assist small (≤ 200 kW) businesses to install energy-efficient products such as high efficiency lighting and refrigeration measures. The program is focused on the non-Metro counties served by Oncor. In 2018 participants installed measures that resulted in savings of 2,572 kW and 14,238,972 kWh.

The Program goals for 2018 were to provide convenient, turn-key select energy efficient measures to small and mid-sized non-residential customers.

Retail Platform MTP

Oncor's Retail Platform MTP was launched during the fourth quarter of 2018. An implementer was awarded the contract in 2018 after a RFP process was completed. The implementer has managed similar programs for utilities across the United States. This program was developed to provide incentives directly to Oncor Residential Customers through in-store point of sale discounts for the purchase of qualifying ENERGY STAR-rated LED lighting products. In November of 2018 a smart thermostat measure was added to the Retail Platform MTP with select Nest and Ecobee smart thermostats available to customers served by Oncor. Much of the Program's success was due to the working relationship developed between the implementer and major market manufactures as well as participating retail partners in the Dallas/Ft. Worth area, such as Home Depot, Lowe's, Walmart and Costco. The Retail Platform MTP contributed savings of 10,058 kW and 44,060,630 kWh in 2018. Claimed savings were attributed based on five percent of upstream lighting program benefits and costs allocated to commercial customers with the remaining 95 percent allocated to residential customers as recommended in the Texas Technical Reference Manual Version 5.0.

Research and Development

During 2018, Oncor collaborated with the U.S. General Services Administration Proving Ground (GSA). Annually, the GSA issues a Request for Information from vendors to submit new energy efficient technologies into the program for evaluation. The GSA, Oncor, and national laboratories review submittals and select several for installation on Federal facilities. Technologies are evaluated for equipment performance, as well as energy and demand savings for up to one year. The collaboration also allows utilities to recommend technologies for inclusion in the program. The technologies may be installed and evaluated on Federal facilities within ERCOT, or other areas with similar weather zones. In 2018, Oncor partially funded the installation and testing of advanced lighting controls in the A. Maceo Smith Federal Building in Dallas. Installation was completed and measurement and verification procedures are ongoing.

Oncor also continued its membership in the Texas Energy Poverty Research Institute. TEPRI is a 501(c) (3) whose mission is to research the root causes of energy and fuel poverty and provide data for solutions that have an impact on low-income households. Additionally, Oncor worked with the Electric Power Research Institute in the Energy Efficiency Program and funded a Texas Energy Efficiency Baseline Potential study, as well as a Residential Relevant Technologies study.

X. Current Energy Efficiency Cost Recovery Factor (EECRF)

Oncor billed \$58,159,998 during 2018 through the EECRF approved in Docket Nos. 46013 and 47235.

Revenue Billed

\$58,159,998

Over- or Under-Recovery

\$3,094,702 (Over) - This amount will be trued-up by rate class in Oncor's EECRF filing in 2019.

EECRF Filed in 2018 in Docket No. 48421

Oncor's most recent EECRF filing was in Docket No. 48421 for the 2019 program year. The revenues to be collected as a result of the final Order in that docket will be determined at a later date after the completion of the 2019 program year and does not involve any revenues from base rates.

ACRONYMS

DR	Demand Response
DSM	Demand Side Management
EEP	Energy Efficiency Plan, which was filed as a separate document prior to April 2008
EEPR	Energy Efficiency Plan and Report
EER	Energy Efficiency Report, which was filed as a separate document prior to April 2008
EE Rule	Energy Efficiency Rule, PUCT 16 TAC §25.181and §25.183
ERCOT	Electric Reliability Council of Texas
HTR	Hard-To-Reach
M&V	Measurement and Verification
MTP	Market Transformation Program
PUCT	Public Utility Commission of Texas
REP	Retail Electrical Provider
RES	Residential
SOP	Standard Offer Program

GLOSSARY

Actual weather adjusted -- “Actual weather adjusted” peak demand and energy consumption is the historical peak demand and energy consumption adjusted for weather fluctuations using weather data for the most recent ten years.

At meter -- Demand (kW/MW) and Energy (kWh/MWh) figures reported throughout the EEPR are reflective of impacts at the customer meter. This is the original format of the measured and deemed impacts which the utilities collect for their energy efficiency programs. Goals are necessarily calculated “at source” (generator) using utility system peak data at the transmission level. In order to accurately compare program impacts, goals and projected savings have been adjusted for the line losses (5.775%) that one would expect going from the source to the meter.

Average Growth -- Average historical growth in demand (kW) over the prior five years for residential and commercial customers adjusted for weather fluctuations.

Baseline -- A relevant condition that would have existed in the absence of the energy efficiency project or program being implemented, including energy consumption that would have occurred. Baselines are used to calculate program-related demand and energy savings. Baselines can be defined as either project-specific baselines or performance standard baselines (e.g. building codes).

Commercial customer -- A non-residential customer taking service at a point of delivery at a distribution voltage under an electric utility’s tariff during the prior program year or a non-profit customer or government entity, including an educational institution. For purposes of this section, each point of delivery shall be considered a separate customer.

Competitive energy efficiency services -- Energy efficiency services that are defined as competitive under §25.341 of the PUCT’s rules.

Conservation load factor -- The ratio of the annual energy savings goal, in kilowatt hours (kWh), to the peak demand goal for the year, measured in kilowatts (kW) and multiplied by the number of hours in the year.

Deemed savings calculation -- An industry-wide engineering algorithm used to calculate energy and/or demand savings of the installed energy efficiency measure that has been developed from common practice that is widely considered acceptable for the measure and purpose, and is applicable to the situation being evaluated. May include stipulated assumptions for one or more parameters in the algorithm, but typically requires some data associated with actual installed measure. An electric utility may use the calculation with documented measure-specific assumptions, instead of energy and peak demand savings determined through measurement and verification activities or the use of deemed savings.

Deemed savings value -- An estimate of energy or demand savings for a single unit of an installed energy efficiency measure that has been developed from data sources and analytical methods that are widely considered acceptable for the measure and purpose, and is applicable to the situation being evaluated. An electric utility may use deemed savings values instead of energy and peak demand savings determined through measurement and verification activities.

Demand -- The rate at which electric energy is used at a given instant, or averaged over a designated period, usually expressed in kilowatts (kW) or megawatts (MW).

Demand savings -- A quantifiable reduction in demand.

Eligible customers -- Residential and commercial customers. In addition, to the extent that they meet the criteria for participation in load management standard offer programs developed for industrial customers and implemented prior to May 1, 2007, industrial customers are eligible customers solely for the purpose of participating in such programs.

Energy efficiency -- Improvements in the use of electricity that are achieved through customer facility or customer equipment improvements, devices, processes, or behavioral or operational changes that produce reductions in demand or energy consumption with the same or higher level of end-use service and that do not materially degrade existing levels of comfort, convenience, and productivity.

Energy Efficiency Cost Recovery Factor (EECRF) -- An electric tariff provision, compliant with 16 TAC §25.182, ensuring timely and reasonable cost recovery for utility expenditures made to satisfy the goal of PURA §39.905 that provide for a portfolio of cost-effective energy efficiency programs under this section.

Energy efficiency measures -- Equipment, materials, and practices, including practices that result in behavioral or operational changes, implemented at a customer's site on the customer's side of the meter that result in a reduction at the customer level and/or on the utility's system in electric energy consumption, measured in kWh, or peak demand, measured in kW, or both. These measures may include thermal energy storage and removal of an inefficient appliance so long as the customer need satisfied by the appliance is still met.

Energy efficiency program -- The aggregate of the energy efficiency activities carried out by an electric utility under this section or a set of energy efficiency projects carried out by an electric utility under the same name and operating rules.

Energy efficiency project -- An energy efficiency measure or combination of measures undertaken in accordance with a standard offer, market transformation program, or self-delivered program.

Energy efficiency service provider -- A person or other entity that installs energy efficiency measures or performs other energy efficiency services under 16 TAC §25.181. An energy efficiency service provider may be a retail electric provider or commercial customer, provided that the commercial customer has a peak load equal to or greater than 50 kW. An energy efficiency service provider may also be a governmental entity or a non-profit organization, but may not be an electric utility.

Energy savings -- A quantifiable reduction in a customer's consumption of energy that is attributable to energy efficiency measures, usually expressed in kWh or MWh.

Estimated useful life (EUL) -- The number of years until 50% of installed measures are still operable and providing savings, and is used interchangeably with the term "measure life". The

EUL determines the period of time over which the benefits of the energy efficiency measure are expected to accrue.

Growth in demand -- The annual increase in demand in the Texas portion of an electric utility's service area at time of peak demand, as measured in accordance with 16 TAC Rule §25.181.

Hard-to-reach (HTR) customers -- Residential customers with an annual household income at or below 200% of the federal poverty guidelines.

Incentive payment -- Payment made by a utility to an energy efficiency service provider, an end-use customer, or third-party contractor to implement and/or attract customers to energy efficiency programs, including standard offer, market transformation, and self-delivered programs.

Industrial customer -- A for-profit entity engaged in an industrial process taking electric service at transmission voltage, or a for-profit entity engaged in an industrial process taking electric service at distribution voltage that qualifies for a tax exemption under Tax Code §151.317 and has submitted an identification notice under subsection (u) of 16 TAC §25.181.

Inspection -- Examination of a project to verify that an energy efficiency measure has been installed, is capable of performing its intended function, and is producing an energy savings or demand reduction equivalent to the energy savings or demand reduction reported towards meeting the energy efficiency goals of this section.

Lifetime energy (demand) savings -- The energy (demand) savings over the lifetime of an installed measure(s), project(s), or program(s). May include consideration of measure estimated useful life, technical degradation, and other factors. Can be gross or net savings.

Load control -- Activities that place the operation of electricity-consuming equipment under the control or dispatch of an energy efficiency service provider, an independent system operator, or other transmission organization or that are controlled by the customer, with the objective of producing energy or demand savings.

Load management -- Load control activities that result in a reduction in peak demand, or a shifting of energy usage from a peak to an off-peak period or from high-price periods to lower price periods.

Market transformation program -- Strategic programs intended to induce lasting structural or behavioral changes in the market that result in increased adoption of energy efficient technologies, services, and practices, as described in 16 TAC Rule §25.181.

Measurement and verification -- A subset of program impact evaluation that is associated with the documentation of energy or demand savings at individual sites or projects using one or more methods that can involve measurements, engineering calculations, statistical analyses, and/or computer simulation modeling. M&V approaches are defined in the IPMVP.

Off-peak period -- Period during which the demand on an electric utility system is not at or near its maximum. For the purpose of this section, the off-peak period includes all hours that are not in the peak period.

Peak demand -- Electrical demand at the times of highest annual demand on the utility's system at the source. Peak demand refers to Texas retail peak demand and, therefore, does not include demand of retail customers in other states or wholesale customers.

Peak demand reduction -- Reduction in demand on the utility's system at the times of the utility's summer peak period or winter peak period.

Peak period -- For the purpose of this section, the peak period consists of the hours from one p.m. to seven p.m. during the months of June, July, August, and September, and the hours of six to ten a.m. and six to ten p.m. during the months of December, January, and February, excluding weekends and Federal holidays.

Program Year -- A year in which an energy efficiency incentive program is implemented, beginning January 1 and ending December 31.

Projected Demand and Energy Savings -- Peak demand reduction and energy savings for the current and following calendar year that Oncor is planning and budgeting for in the EEPR.

Renewable demand side management (DSM) technologies -- Equipment that uses a renewable energy resource (renewable resource), as defined in §25.173(c) (relating to Goal for Renewable Energy), a geothermal heat pump, a solar water heater, or another natural mechanism of the environment, that when installed at a customer site, reduces the customer's net purchases of energy, demand, or both.

Savings-to-Investment Ratio (SIR) -- The ratio of the present value of a customer's estimated lifetime electricity cost savings from energy efficiency measures to the present value of the installation costs, inclusive of any incidental repairs, of those energy efficiency measures.

Self-delivered program -- A program developed by a utility in an area in which customer choice is not offered that provides incentives directly to customers. The utility may use internal or external resources to design and administer the program.

Standard offer contract -- A contract between an energy efficiency service provider and a participating utility or between a participating utility and a commercial customer specifying standard payments based upon the amount of energy and peak demand savings achieved through energy efficiency measures, the measurement and verification protocols, and other terms and conditions, consistent with this section.

Standard offer program -- A program under which a utility administers standard offer contracts between the utility and energy efficiency service providers.

Underserved County -- A county that did not have reported demand or energy savings through a prior year's SOP or MTP.

APPENDICES

APPENDIX A: 2018 REPORTED DEMAND AND ENERGY REDUCTION BY COUNTY

Appendix A: Demand and Energy Reduction by County

COUNTY	Hard to Reach SOP	Small Business Direct Install MTP	Commercial SOP (Custom)	Residential Demand Response SOP	Commercial Load Mgmt. SOP	Home Energy Efficiency SOP	Commercial SOP (Basic)	Commercial Solar PV SOP	Residential Solar PV SOP	Targeted Low Income SOP	Retail Platform MTP
ANDERSON	kW kWh	kW 14.9 kWh 77,348.6	kW kWh	kW 102.8 kWh 308.4	kW kWh	kW kWh	kW kWh	kW kWh	kW 3.3 kWh 6,970.2	kW 3.8 kWh 6,530.0	kW kWh
ANDREWS	kW kWh	kW 9.0 kWh 34,824.4	kW kWh	kW 15.1 kWh 453.7	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW 0.9 kWh 1,252.4	kW kWh
ANGELINA	kW 15.3 kWh 18,380.6	kW 15.5 kWh 86,859.2	kW 6.3 kWh 40,822.4	kW 74.6 kWh 223.3	kW 176.6 kWh 529.7	kW 58.0 kWh 114,015.5	kW kWh	kW kWh	kW 14.0 kWh 40,902.8	kW 22.4 kWh 41,707.5	kW kWh
ARCHER	kW kWh	kW kWh	kW kWh	kW 10.9 kWh 32.6	kW kWh	kW 6.5 kWh 15,669.8	kW kWh	kW kWh	kW 26.4 kWh 93,349.6	kW 9.2 kWh 17,167.9	kW kWh
BASTROP	kW kWh	kW kWh	kW kWh	kW 36.2 kWh 108.8	kW 498.5 kWh 1,495.4	kW kWh	kW kWh	kW 28.8 kWh 99,561.1	kW 2.5 kWh 9,722.4	kW 1.4 kWh 1,332.3	kW kWh
BAYLOR	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
BELL	kW 87.4 kWh 125,758.3	kW 315 kWh 222,530.0	kW kWh	kW 1,923.7 kWh 5,771.2	kW 1,266.3 kWh 3,798.8	kW 363.3 kWh 675,923.5	kW 159.8 kWh 585,620.0	kW 19.1 kWh 60,951.8	kW 80.7 kWh 295,915.5	kW 118.1 kWh 205,973.9	kW kWh
BROWN	kW kWh	kW 27.4 kWh 179,628.2	kW kWh	kW 50.0 kWh 150.0	kW kWh	kW kWh	kW 219 kWh 118,933.8	kW kWh	kW kWh	kW 58.5 kWh 109,169.1	kW kWh
CHEROKEE	kW 2.0 kWh 2,225.3	kW 55.5 kWh 279,215.5	kW kWh	kW 64.7 kWh 194.1	kW kWh	kW 16 kWh 1,733.8	kW kWh	kW kWh	kW 14.2 kWh 43,758.0	kW kWh	kW kWh
CLAY	kW 15 kWh 2,415.4	kW kWh	kW kWh	kW 12.4 kWh 37.0	kW kWh	kW kWh	kW kWh	kW kWh	kW 11.1 kWh 65,811.0	kW kWh	kW kWh
COLEMAN	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
COLLIN	kW 120.13 kWh 2,072,383.7	kW 2.6 kWh 16,822.8	kW 125.6 kWh 489,983.2	kW 3,695.1 kWh 11,085.3	kW 8,972.6 kWh 26,917.5	kW 2,550.8 kWh 4,909,462.5	kW 923.1 kWh 5,608,281.3	kW 224.4 kWh 686,407.0	kW 92.1 kWh 297,076.0	kW 5.7 kWh 11,197.4	kW 2,550.0 kWh 11,169,027.7
COMANCHE	kW kWh	kW kWh	kW kWh	kW 8.3 kWh 25.0	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
COOKE	kW kWh	kW 25.2 kWh 156,069.1	kW kWh	kW 20.4 kWh 613	kW kWh	kW 140.2 kWh 153,594.7	kW kWh	kW kWh	kW kWh	kW 13 kWh 1,473.7	kW kWh
CORYELL	kW 114 kWh 15,595.9	kW kWh	kW kWh	kW 189.9 kWh 569.3	kW kWh	kW 211 kWh 28,208.0	kW kWh	kW kWh	kW 13.2 kWh 48,080.0	kW 12.9 kWh 21,025.9	kW kWh
CRANE	kW kWh	kW kWh	kW kWh	kW 13.9 kWh 417	kW kWh	kW kWh	kW kWh	kW 20.5 kWh 72,417.2	kW kWh	kW kWh	kW kWh

DALLAS	kW 6,270.6 kWh 8,222,882.0	kW 50.1 kWh 328,042.0	kW 569.8 kWh 2,488,760.1	kW 8,775.5 kWh 26,327.5	kW 23,057.7 kWh 69,173.2	kW 8,507.9 kWh 13,490,543.2	kW 6,867.1 kWh 35,024,219.4	kW 779.8 kWh 2,405,398.9	kW 129.4 kWh 450,684.5	kW 1,831.3 kWh 3,383,418.2	kW 3,533.2 kWh 15,473,882.9
DAWSON	kW kWh	kW kWh	kW kWh	kW 78.9 kWh 236.7	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW 2.1 kWh 2,568.5	kW kWh
DELTA	kW kWh	kW kWh	kW kWh	kW 3.1 kWh 9.3	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
DENTON	kW 168.0 kWh 225,019.8	kW kWh	kW 42.1 kWh 329,986.0	kW 1,368.0 kWh 4,104.0	kW 639.5 kWh 1,918.4	kW 554.3 kWh 1,089,575.5	kW 268.6 kWh 1,447,660.5	kW 53.9 kWh 165,591.4	kW 217 kWh 73,737.6	kW kWh	kW 231.0 kWh 1,011,704.7
EASTLAND	kW kWh	kW kWh	kW kWh	kW 17.7 kWh 53.2	kW kWh	kW 46.8 kWh 87,951.7	kW kWh	kW kWh	kW kWh	kW 2.4 kWh 2,845.5	kW kWh
ECTOR	kW kWh	kW 596.3 kWh 3,333,711.4	kW kWh	kW 1,277.7 kWh 3,832.8	kW 120.0 kWh 360.0	kW 48.2 kWh 99,915.5	kW 32.4 kWh 161,417.7	kW 9.1 kWh 32,669.8	kW 12.8 kWh 47,357.4	kW 7.0 kWh 9,517.3	kW kWh
ELLIS	kW 5.3 kWh 7,717.9	kW 28.3 kWh 164,086.3	kW 289.5 kWh 2,467,223.2	kW 584.0 kWh 1,751.9	kW 895.6 kWh 2,686.7	kW 128.5 kWh 272,835.4	kW 114.3 kWh 672,705.5	kW 263.4 kWh 845,751.4	kW 23.3 kWh 77,275.6	kW kWh	kW kWh
ERATH	kW kWh	kW kWh	kW kWh	kW 45.8 kWh 137.4	kW kWh	kW 3.4 kWh 8,141.3	kW 131.0 kWh 523,424.7	kW kWh	kW kWh	kW kWh	kW kWh
FALLS	kW kWh	kW kWh	kW kWh	kW 9.1 kWh 27.3	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
FANNIN	kW 1.1 kWh 1,697.8	kW 11.1 kWh 73,094.7	kW kWh	kW 9.1 kWh 27.2	kW kWh	kW 1.1 kWh 1,808.8	kW 16.8 kWh 41,536.9	kW kWh	kW kWh	kW 10.7 kWh 16,745.2	kW kWh
FREESTONE	kW kWh	kW kWh	kW kWh	kW 8.8 kWh 26.4	kW kWh	kW 96.7 kWh 176,387.3	kW kWh	kW kWh	kW 6.3 kWh 24,333.1	kW kWh	kW kWh
GLASSCOCK	kW kWh	kW kWh	kW kWh	kW 4.1 kWh 12.3	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
GRAYSON	kW 133.3 kWh 159,046.1	kW 106.8 kWh 554,514.0	kW kWh	kW 220.2 kWh 661.6	kW 177.8 kWh 533.4	kW 561.5 kWh 668,146.2	kW 619 kWh 239,663.7	kW kWh	kW 10.5 kWh 37,495.6	kW 29.2 kWh 51,124.0	kW kWh
HENDERSON	kW kWh	kW 217 kWh 144,629.8	kW kWh	kW 121.9 kWh 365.8	kW 200.5 kWh 601.6	kW 134.3 kWh 262,414.6	kW kWh	kW kWh	kW kWh	kW 7.7 kWh 14,308.2	kW kWh
HILDAGO	kW kWh	kW kWh	kW kWh	kW 14 kWh 4.2	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
HILL	kW 0.7 kWh 696.1	kW 22.9 kWh 105,283.0	kW kWh	kW 24.9 kWh 74.3	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW 0.3 kWh 390.1	kW kWh
HOOD	kW kWh	kW 37.6 kWh 192,030.6	kW kWh	kW 32.4 kWh 97.4	kW kWh	kW 59.1 kWh 142,960.3	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
HOPKINS	kW 147.9 kWh 195,232.4	kW kWh	kW kWh	kW 52.5 kWh 157.5	kW kWh	kW 43.5 kWh 69,235.2	kW kWh	kW kWh	kW 5.8 kWh 18,538.9	kW 5.3 kWh 8,629.4	kW kWh
HOUSTON	kW kWh	kW kWh	kW kWh	kW 19.5 kWh 58.4	kW 2,621.9 kWh 7,865.8	kW 34.3 kWh 66,632.9	kW kWh	kW kWh	kW kWh	kW 10.0 kWh 18,545.8	kW kWh

NAVARRO	KW kWh	KW kWh	79.2 537,564.7	KW kWh	KW kWh	52.5 157.7	KW kWh	KW kWh	37.2 71,082.7	KW kWh	16 10,543.5	KW kWh	313 97,207.6	KW kWh	4.0 12,213.3	KW kWh	KW kWh
NOLAN	KW kWh	KW kWh		KW kWh	KW kWh	611 183.4	KW kWh	KW kWh	0.8 1,532.1	KW kWh	105.3 509,451.7	KW kWh		KW kWh		3.8 4,082.9	KW kWh
PALO PINTO	KW kWh	KW kWh		KW kWh	KW kWh	44.7 13.4	KW kWh	KW kWh	304.6 93.9	KW kWh	2.8 1,409.6	KW kWh		KW kWh	6.8 20,431.5	5.6 9,547.0	KW kWh
PARKER	KW kWh	KW kWh	3.7 6,836.5	KW kWh	KW kWh	209 626.9	KW kWh	KW kWh	13.8 290,772.7	KW kWh	29.0 98,369.1	KW kWh	15.0 95,264.9	KW kWh	9.1 29,963.9		KW kWh
PEGOS	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
REAGAN	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
RED RIVER	KW kWh	KW kWh		KW kWh	KW kWh	0.0 0.0	KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
REEVES	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
ROCKWALL	KW kWh	KW kWh	5.5 9,630.8	KW kWh	KW kWh	451.9 1,355.9	KW kWh	KW kWh	300.3 461,188.9	KW kWh	57.3 339,844.6	KW kWh	92.0 278,988.8	KW kWh	14.6 44,700.9	12 1,299.8	485.2 2,128,166.9
RUSK	KW kWh	KW kWh		KW kWh	KW kWh	-0.6 -19	KW kWh	KW kWh	631.7 1,895.1	KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
SCURRY	KW kWh	KW kWh		KW kWh	KW kWh	916 274.8	KW kWh	KW kWh	10 2,481.9	KW kWh	13 2,497.6	KW kWh	250.2 1,090,192.8	KW kWh	4.3 5,672.1		KW kWh
SHACKLEFORD	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
SMITH	KW kWh	KW kWh	18.4 18,420.7	KW kWh	KW kWh	539.7 1,621.0	KW kWh	KW kWh	47.5 82,531.4	KW kWh	84.4 483,383.4	KW kWh	102.8 336,572.3	KW kWh	20.0 60,496.8	13.8 25,311.9	KW kWh
STEPHENS	KW kWh	KW kWh		KW kWh	KW kWh	29.4 88.3	KW kWh	KW kWh	2.0 3,588.5	KW kWh		KW kWh		KW kWh		12.2 21,143.7	KW kWh
TARRANT	KW kWh	KW kWh	2.5 3,716,187.1	KW kWh	KW kWh	9,298.1 27,894.7	KW kWh	KW kWh	8,913.1 14,699,538.0	KW kWh	3,752.4 21,137,135.5	KW kWh	321.4 1,001,989.7	KW kWh	12.8 404,695.0	438.5 797,270.3	3,258.5 14,277,848.1
TERRY	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
TOM GREEN	KW kWh	KW kWh		KW kWh	KW kWh		KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
TRAVIS	KW kWh	KW kWh		KW kWh	KW kWh	363.0 1,088.8	KW kWh	KW kWh	79.4 156,425.7	KW kWh	7.1 46,206.5	KW kWh		KW kWh	10.8 379,859.7		KW kWh
TRINITY	KW kWh	KW kWh		KW kWh	KW kWh	0.1 0.4	KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh
UPTON	KW kWh	KW kWh		KW kWh	KW kWh	-0.6 -19	KW kWh	KW kWh		KW kWh		KW kWh		KW kWh		KW kWh	KW kWh

VAN ZANDT	kW kWh	kW kWh	kW kWh	kW 7 9 kWh 23 7	kW kWh	kW 10 kWh 1,688 7	kW kWh	kW kWh	kW kWh	kW 13 8 kWh 25,384 3	kW kWh
WARD	kW kWh	kW kWh	kW kWh	kW 70 2 kWh 210 8	kW kWh	kW 10 kWh 3,389 9	kW 24 9 kWh 67,113 0	kW kWh	kW kWh	kW 4 0 kWh 4,468 2	kW kWh
WICHITA	kW kWh	kW 204 9 kWh 1,097,261 4	kW kWh	kW 491 2 kWh 1,472 7	kW 5,604 8 kWh 16,814 3	kW 52 1 kWh 94,848 0	kW 79 2 kWh 458,523 9	kW 45 3 kWh 137,003 9	kW 46 8 kWh 164,955 2	kW 26 0 kWh 42,069 8	kW kWh
WILLIAMSON	kW kWh	kW 315 kWh 206,940 9	kW kWh	kW 914 0 kWh 2,742 2	kW 126 6 kWh 379 7	kW 287 9 kWh 578,522 1	kW 25 4 kWh 110,608 8	kW 36 3 kWh 113,845 2	kW 178 7 kWh 597,193 6	kW kWh	kW kWh
WINKLER	kW kWh	kW kWh	kW kWh	kW 0 3 kWh 10	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
WISE	kW kWh	kW 8 0 kWh 57,185 9	kW kWh	kW 48 1 kWh 143 8	kW 108 0 kWh 324 0	kW 15 3 kWh 32,757 5	kW kWh	kW kWh	kW 27 8 kWh 81,931 0	kW kWh	kW kWh
WOOD	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh	kW kWh
YOUNG	kW kWh	kW 35 0 kWh 203,929 6	kW kWh	kW 28 7 kWh 86 0	kW kWh	kW kWh	kW 5 8 kWh 38,025 0	kW kWh	kW kWh	kW 0 4 kWh 431 6	kW kWh
Total Sum of kW	11,256	2,572	1,417	34,756	67,658	24,388	13,766	2,512	1,113	2,908	10,058
Total Sum of kWh	15,825,595	14,238,972	12,571,703	104,271	202,974	40,914,271	73,230,061	8,212,970	3,730,231	5,291,167	44,060,630

APPENDIX B: PROGRAM TEMPLATES

Oncor has no new Program Templates for 2019.

APPENDIX C: LIST OF 2018 ENERGY EFFICIENCY SERVICE PROVIDERS

2019 Energy Efficiency Service Providers

Commercial SOP (Custom)

Agape Electrical Services llc
Air Performance Service, Inc.
Ally Energy Solutions, LLC
Blackhawk Equipment Corporation
cVal Innovations LLC
Enabled Energy, Inc.
Enercon, LTD
Engie Services U.S. Inc.
Environmental Systems Design, Inc.
Estes, McClure & Associates, Inc.
Ex3 Facility Solutions, LLC
Facilities Service Group, Inc.
Facility Response Group, Incorporated
Facility Solutions Group
Flying X Capital LLC
Groom Energy Solutions LLC
H & H Sign Co.,Inc.
Heat Transfer Solutions, Inc.
Heritage Institute of Sustainability
Hossley Lighting Associates, Inc
Industrial Energy Services, Inc.
Just Energy New York Corp.
KirEnergy Services LLC
L5E, LLC
LAMAR ADVANTAGE HOLDING COMPANY
MD Engineering LP,LLP
NexRev, Inc
Obtainable Energy
Pepco Energy Services, Inc.
PepsiCo
Pflugerville ISD
ReConserve of Texas
ROI Energy Investments LLC
SmartWatt Energy Inc
Smith Engineering PLLC
SYDMOR, Inc. dba Batteries Plus Bulbs
Telios Corporation
The Brandt Companies, LLC
Trane
US Energy Management
Willdan Energy Solutions

Small Business Direct Install MTP

Lime Energy Services Company

Retail Platform MTP

CLEARRESULT Consulting

Targeted Weatherization LI SOP

Texas Association of Community Action Agencies
EnerChoice LLC

Commercial Load Management SOP

Amerex Brokers LLC
Bridgevue Energy Services, LLC
Christ United Methodist Church
Covia Holdings Corporation
Dorskocil Manufacturing Company, Inc.
EnerNOC, Inc.
Enerwise Global Technology, D/B/A CPower
Faith Family Academy
General Services Administration
Green Branch Energy
Green Ox Energy Solutions, LLC
Innovari Market Solutions LLC
L5E, LLC
MJB Wood Group
MP2 Energy, LLC
North Texas Municipal Water District
NRG Curtailment Solutions Inc
Plains Pipeline, L.P.
Tierpoint Texas LLC
Verdigris Energy

Residential Demand Response MTP

Ecobee Inc.
EnergyHub
Reliant Energy Retail Services, LLC
Whisker Labs, Inc.

HEE

1st Choice Air Solutions, LLC
360 Energy Savers, LLC.
5 Star HVAC Contractors
A & O Solutions
A Better Insulation
A Plus Energy Solution LLC
A&E HOME INSULATION
A-Anderson Air, Inc.
ABC heating & Air Conditioning, Inc.
ABC Pest Control of Austin Inc dba ABc Home & Commercial Service
AC & H Inc dba AC & Heat Solutions
Adon Complete Property Solutions
Affordable Solarscreens & Blinds Inc
Aguilar's Heating & Air
Aguilar's Heating & Air
Air Clinic Air Conditioning and Heating Inc.
Air patrol Air Conditioning
AirCo Ltd.
Aire Care Metro Energy Savers, Inc.
Aire Texas Residential Services Inc.
A-K Home Energy
All Tech Services, Inc.
Allied Energy Savers
AllSave Energy Solutions, LLC
AllSave Energy Solutions, LLC
Alternatex Solutions, LLC
American Air & Heat Co., Inc.
Andrew Bui DBA Low Cost Insulation Service
Area Wide Services, Inc.
Arthur Hagar Corp
Astar Heat and Air inc
B & B TEXAS CONTRACTORS
BS&S.Services, dba Berkeys AC Plumbing & Electric
Baker Brothers Plumbing & Air
Batjer Service, LLC.
Bell County Universal Service
Better Than Lights
Bill Joplin's Air Conditioning and Heating
Blue Star Heating and Air, LLC
BON AIR SERVICE CO INC
Bradley Air Conditioning
Breeze Mechanical LLC
Burnside AC, Heating and Indoor Air Quality
Chrome Heating & Air Conditioning, LLC
Cole Air Conditioning Company Inc
Compass Air Services, Inc.
Complete Cool Air
Conergy
Cool Tech Mechanical
Coventry & Gattis Air Conditioning, Inc.
Cravens MaGouirk Mechanical LLC
Crouch Capital, LLC DBA ACT Home Energy Specialists
D & R Insulation
D & R Insulation
D T Air Conditioning & Heating Inc,
Dallas Insulation LLC
Dallas Plumbing Company
Dallas Unique Indoor Comfort dba On Time Experts
Danco Comfort Services
Daniels Air, Inc.
DeRocher Associates
Domani Comfort Partners LLC
E2 Conservation
Ecoenergy Conservation Group, LLC
ECOGREEN ENERGY SOLUTIONS
EEAccess, LLC
Electric Reducer
ELLIS AIR CONDITIONING
Ellis Air LLC
ElstonAire, Inc.
EnerChoice LLC
Energy Audits Of Texas
ENERGY CONSERVATION CONCEPTS
Energy Efficiency Resources
Energy Efficient Measures LLC
Energy Improvements
Energy Saver Pro
ESP services inc.
Evenaire LLC
Evergreen Heating and Air, Inc
Excel 5-Star Energy Inc.
Extreme Mechanical Service Inc.
Ferguson Veresh Inc
Fox Service Company

HEE continued -

FREE Specialists, LLC	Mascot Mechanical LLC
FREEDOM HEATING & AIR LLC.	Master Tech Service Corp
Garden of Eden	Matco of Texas, Inc.
Garza & Sotka Enterprises LLC dba Air Masters	MATHIS AIR & HEAT LLC
Glenn Aire Company	McDaniel & Son Plumbing, Inc.
GNS Energy Efficiency	McWilliams & Son, Inc.
Gorman Mechanical, Inc.	Mechanical Air Design Inc
Green Conservation	Metro Environmental Services Co., Inc.
Green Leaf Corporation	Metro Express Service LLC
Green Medal Energy Corp	Milestone Electric Inc.
GREEN ZONE	North Texas Air, LLC.
GS CONSERVATION LLC	Northside A/C GP, LLC
Hargrove-Neel, Inc.	NRG Conservation, Inc. DBA Energy Experts
Harris Air Services, LLC	NRG Pros
Hawk Plumbing Heating and Air Conditioning, Inc.	NRG Savers
Hemco Electrical Contractors, Inc.	ON THE SPOT HVAC
Hightower Service, Inc	Ormeno Enterprises DBA M&P Energy Solutions
HML Energy Solutions LLC	P D Construction Company dba Elect Saver
HOBBS HEATING & AIR INC,	Peregrino Enterprises, LLC dba Daffan Mechanical
Hobson Air Conditioning Inc	Performance Heat and Air Inc
Home Energy Program	Plan B Remodeling Systems
Home Improvement Systems, Inc.	POLANSKY SALES AND SERVICE INC
Home Save Energy	Putnam Air & Electric, LLC
HOMELAND ENERGY RESOURCE CENTER, INC	Quality Home Innovation
Honest Air Conditioning LLC	Quigley Heating and Air Conditioning of Dallas
Houk Air Conditioning Inc.	Reliant Heating & Air Conditioning, Inc.
Hufsey Mechanical DBA One Hour A/C and Heating	Rescue Air, LLC
Infinity Texas Mechanical Inc	River Builders & Associates, LLC
INSULeer	Rohde A/C & Heating, LLC
J & J Air Conditioning, Inc.	Samm's Heating and Air Conditioning
J&S Air, Inc.	San Miguel and Associates, Inc.
JAK Services	Saving Energreen Houses, LLC
James Lane Air Conditioning Company Inc	Saving Energy Solutions LLC
Johns Heating & Air Conditioning	Service Experts Heating & Air Conditioning
Keller Heating and Air Conditioning Services, LLC	Smart Air Service Co., Inc
King Air Conditioning, Inc	SOS Mechanical, LLC
KINGDOM GROWTH ENTERPRISES	Southern Comfort Mechanical
KTANG ENERGY SAVER .INC	Stark Dedicated Service, LLC / dba Sunny Service
LaRu Energy Solutions dba Air Conditioning Pros	State AC, Inc. dba Air Control
Lex Services Inc.	Tall Guy Air Conditioning
Live Comfortable & Save Energy	Taylormade Heat and Air
Lu and Sons	Tempo Mechanical Services

HEE continued -

Texas AC Specialist
Texas Air Doctors
Texas Airzone LLC.
The AC Hero, LLC
The Bosworth Company, Ltd dba The Darville Company
The Right Choice Heating & Air Inc
TheGreenHomeMakeover.com
Toler Air Care Today LLC
Tom's Mechanical, Inc.
Total Air and Heat Co
Tower Association Crue
Tri-County Air Care, LLC
Triple A Air Conditioning
Tuffy's Air Conditioning & Heating Service Inc.
TXE Solutions LLC DBA Service City Electric
Veterans AC & Heating
W&B, Inc. dba ALL SERVICE HEATING AND AIR
Walker Air Conditioning and Heating, Inc
Weston Company A/C & Heat
Willard Heating and Air Conditioning Company inc
Wortham A/C, Inc.
XTREME AIR SERVICES
Yondi Nixon
Zederprise llc dba ZedicAire

Commercial Solar PV SOP

1 Sun Solutions LLC	Hobson Air Conditioning Inc
Advent Systems INC., DBA SolarTechs	Holtek Enterprises Inc. dba Holtek Solar
Alba Energy LLC	INFINITY SOLAR SOLUTIONS LLC
Allegiance Solar, LLC	Jackpot Electric LLC
Alternatex Solutions, LLC	Jones Solar LLC
Amos Electric Supply, Inc.	Kingdom Consulting, DBA Elite Energy Partner
Aspenmark Roofing Solutions LLC	Kosmos Solar
Axiom Electric, Corp. dba Automated Controls	Lighthouse Solar Austin
Axiom Solar Inc.	Longhorn Solar
Aztec Renewable Energy, Inc	Native Inc
Butler Electrical Service	Nerd Power TX
Byrd Electric	Nia Power LLC
Cavalry Solar Solutions	Peak Power Partners
Circle L Solar	Performance Contracting inc
City of Dallas	R. Williams Electric, Inc.
City of Snyder	Renergy Solar, LLC
CRsolar Energy Solutions / CR-Invent LLC	RonRush Investment DBA Universal Solar System
Davis Electric Co.	S&H Solar & Electric, LLC
DFW SOLAR ELECTRIC, LLC	Second Energy LLC
Diversified Wiring Solutions LLC	Self Reliant Solar LLC
DKD Advertising	Silver Electric and Solar
Ecolectrics LLC	Smartworld energy Inc
Electric Distribution & Design Systems	Solar CenTex LLC
Elevation Solar LLC	Solar Club LLC
Ennis Products, Inc.	Solar SME, Inc.
EnterSolar, LLC	SolarLife Technology LLC
Environ Partners	SOLARTEK ENERGY OF AUSTIN
Estes, McClure & Associates, Inc.	Solartime USA LLC
Facility Solutions Group	Sun City Solar Energy-North Texas LLC
Freedom Solar LLC	Sunfinity Solar-TX, LLC
General Services Administration	The Brandt Companies, LLC
Good Faith Energy	The Energy Shop, Inc.
GoSolarGo, Inc.	Tower Association Crue
Green Generation Solutions LLC	TreeHouse, Inc
Green Light Solar, LLC	Valiant Electric, Inc.
Green Ox Energy Solutions, LLC	Valstar Electric LLC
Green Wolf Energy Inc	W Energies Group Solar One, LLC.
Greenbelt Solar LLC	West Texas Solar, LLC
Greenhouse Solar LLC, DBA Infinity Solar	Willdan Energy Solutions
GreenLife Technologies, Inc.	Wright-Way Solar Technologies, LLC

Residential Solar PV SOP

1 Sun Solutions LLC	Jones Solar LLC
Advent Systems INC., DBA SolarTechs	Kosmos Solar
AffordaSolar Inc	Lighthouse Solar Austin
Alba Energy LLC	Longhorn Solar
Allegiance Solar, LLC	Marc Jones Construction LLC
Alternatex Solutions, LLC	MYO INVESTMENTS, INC.
Aspenmark Roofing Solutions LLC	Native Inc
Axiom Electric, Corp. dba Automated Controls	Nerd Power TX
Axiom Solar Inc.	New Day Energy, LLC
Aztec Renewable Energy, Inc	Nia Power LLC
Butler Electrical Service	Now Energy LLC
Byrd electric	Peak Power Partners
Cavalry Solar Solutions	Pro Custom Solar LLC
Circle L Solar	Quantum Solar Corp.
Claud Elsom dba North Texas Solar	RBSI LLC.
CRsolar Energy Solutions / CR-Invent LLC	RonRush Investment DBA Universal Solar System
Davis Electric Co.	S&H Solar & Electric, LLC
DFW SOLAR ELECTRIC, LLC	Second Energy LLC
DKD Advertising	Silver Electric and Solar
Ecolectrics LLC	Solar CenTex LLC
Electric Contractors LLC	Solar Club LLC
Electric Distribution & Design Systems	Solar SME, Inc.
Elevation Solar LLC	SolarLife Technology LLC
Ennis Products, Inc.	SOLARTEK ENERGY OF AUSTIN
Fisher Renewables LLC	Solartime USA LLC
Freedom Solar LLC	Solarugreen Corporation
Good Faith Energy	Speir Innovations LLC
GoSolarGo, Inc.	Sun City Solar Energy-North Texas LLC
Green Light Solar, LLC	Sunfinity Solar-TX, LLC
Green NRG, Inc.	Sunrise Solar
Green Ox Energy Solutions, LLC	Tesla Energy Operations
Green Wolf Energy Inc	Texas Solar Power Company
Greenbelt Solar LLC	The Energy Shop, Inc.
Greenhouse Solar LLC, DBA Infinity Solar	Thompson & Son Energy Solutions LLC
GreenLife Technologies, Inc.	Tower Association Crue
Hemco Electrical Contractors, Inc.	TreeHouse, Inc
Hobson Air Conditioning Inc	Valstar Electric LLC
Holtek Enterprises Inc. dba Holtek Solar	Vision Solar LLC
I.E.S. Residential	Wells Solar & Electrical Services LLC
INFINITY SOLAR SOLUTIONS LLC	West Texas Solar, LLC
INSULeer	Wright-Way Solar Technologies, LLC
Jackpot Electric LLC	

Hard-to-Reach SOP

5 Star Energy Savers	Lu and Sons
A Better Insulation	NRG Conservation, Inc. DBA Energy Experts
A Plus Energy Solution LLC	NRG Pros
A&E HOME INSULATION	NRG Savers
Affordable Solarscreens & Blinds Inc	Ormeno Enterprises DBA M&P Energy Solutions
Allied Energy Savers	P D Construction Company dba Elect Saver
AllSave Energy Solutions, LLC	Plan B Remodeling Systems
B & B TEXAS CONTRACTORS	River Builders & Associates, LLC
Better Than Lights	San Miguel and Associates, Inc.
Conergy	Saving Energreen Houses, LLC
Crouch Capital,DBA ACT Home Energy Specialist	Saving Energy Solutions LLC
D & R Insulation	TheGreenHomeMakeover.com
Dallas Insulation LLC	TXE Solutions LLC DBA Service City Electric
DeRocher Associates	Victor Reyes
E2 Conservation	
Ecoenergy Conservation Group, LLC	
ECOGREEN ENERGY SOLUTIONS	
Electric Reducer	
EnerChoice LLC	
Energy Audits Of Texas	
ENERGY CONSERVATION CONCEPTS	
Energy Efficiency Resources	
Energy Efficient Measures LLC	
Energy Improvements	
Energy Saver Pro	
Excel 5-Star Energy Inc.	
FREE Specialists, LLC	
Garden of Eden	
GNS Energy Efficiency	
Green Conservation	
Green Medal Energy Corp	
GREEN ZONE	
GS CONSERVATION LLC	
HML Energy Solutions LLC	
Home Energy Efficiency	
Home Energy Program	
Home Improvement Systems, Inc.	
Home Save Energy	
INSUL ATTIC CORPORATION	
KTANG ENERGY SAVER .INC	

Commercial SOP (Basic)

24 HOUR LTD

7-Eleven Inc

A Federal Source, LLC

ABM Building Services

Ace Mart Restaurant Supply

Adon Complete Property Solutions

Advance Stores Company, Inc

Aelux, LLC

AEP Electrical Contractors Inc.

Agape electrical services llc

Air Conditioning Innovative Solutions, Inc.

Air Performance Service, Inc.

Aire Care Metro Energy Savers, Inc.

AL Consulting. LLC

Ally Energy Solutions, LLC

Alternatex Solutions, LLC

American Energy Efficiencies Inc.

American Wholesale Lighting Inc.

Ameritech Energy Corporation

Amos Electric Supply, Inc.

Aquila Environmental LLC

ARCO National Construction Company

ARIES CORPORATION

Army and Air Force Exchange Service

ASG Energy, LLC

Authentic Electrical Solutions, LLC

Bambu Energy

Bed Bath and Beyond

Boxer Property Management Corp

Burlington Coat Factory

Byrd electric

Cain Electrical Supply

Carrier Corporation

Clear Blue Energy Corp.

Cole Air Conditioning Company Inc

Conergy

Creekwood Frisco Gaylord, LLC

Curtis H. Stout, Inc.

cVal Innovations LLC

Daikin Applied Americas, Inc

Dalworth Lighting Services

Daniels Air, Inc.

DFW LED Lights LLC

DMI Corp/ Decker Mechanical

E and C contractors

Economic Energy Systems, LLC

Ector County

EEAccess, LLC

Efficient Lighting Consultants

E-MC Electrical, Inc.

Encentiv Energy, Inc.

EnerChoice LLC

Enercon, LTD

Energy & Automation, Inc

Energy Audits Of Texas

Energy Conservation and Supply Inc.

Energy Management Collaborative, llc

Energy Retrofit Co

Energy Solutions of Texas

Energy Wise LED Solutions, LLC

Energyware LLC

EnerNet Solutions LLC

ENGIE INsight Services Inc (FKA Ecova Inc)

Engie Services U.S. Inc.

Entech Sales & Service

Environ Partners

Environmental Lighting Service, LLC

Environmental Systems Design, Inc.

Essential Lighting Solutions, Inc.

Estes, McClure & Associates, Inc.

Everman ISD

Everon Green Energy Resources LLC

EWP Ventures, LLC

Ex3 Facility Solutions, LLC

Excel Energy Group, Inc.

Facilities Resource Group

Facilities Service Group, Inc.

Facility Innovations Group

Facility Response Group, Incorporated

Facility Solutions Group

Federal Lighting Illumination Capital, LLC

Flying X Capital LLC

Forza Energy LLC

General Services Administration

Commercial SOP (Basic) continued-

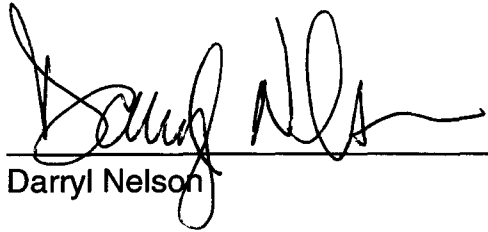
Genesys Global, Inc.
Grapevine Mills Limited Partnership
Graybar Electric Company, Inc.
Green Generation Solutions LLC
Green Light National LLC
Green Light Southwest
Green Property Advisors, LLC
Greenleaf Energy Solutions LLC
Greenlogic Lighting & Electric, LLC.
Groom Energy Solutions LLC
H & H Sign Co.,Inc.
Hargis Electric LLC.
HEA Systems, LLC
Heat Transfer Solutions, Inc.
HOBBS HEATING & AIR INC,
Home Improvement Systems, Inc.
Hossley Lighting Associates, Inc
Hulen Mall, LLC
Hurst Electric, LP
Illumetek Corp
Incenergy LLC
Industrial Energy Services, Inc.
INFINITY SOLAR SOLUTIONS LLC
Jim Whitten Roof Consultants, LLC
John Paul II High School
Johnson Controls Inc
Joseph & Sammel, dba Southwestern Electric & Supply
Just Energy New York Corp.
Kevco Electrical Construction, Inc.
Killeen Independent School district
KINGDOM GROWTH ENTERPRISES
KirEnergy Services LLC
L5E, LLC
LAMAR ADVANTAGE HOLDING COMPANY
Landlord Utility Management dba JEC Energy Savings
Lighting Expertise and Design Services, LLC
Lime Energy Services Company
Linda Gregory, LLC dba Energy Saving Strategies
Lochridge-Priest, Inc.
Loeb Lighting Services
Macro Energy
Managed Energy Systems, LLC
Matco of Texas, Inc.
MCD Services, LLC/DBA: DEC
McWilliams & Son, Inc.
MD Engineering LP,LLP
MHSC Energy Management LLC
Monterey Energy, Inc.
MP Electric, Inc.
Negawatt Partners, L.L.C.
New Academy Holding Company
NexRev, Inc
NORDCO, INC.
NRG Conservation, Inc. DBA Energy Experts
OnPoint, LLC
On-Site Lighting & Survey LLC
Pacific Energy Concepts LLC
PBK Architects, Inc.
Peak Power Partners
Pearl Street Systems, LLC.
Pepco Energy Services, Inc.
Pepco Energy Services, Inc.
Phillips Electrical Services, Inc.
Plan B Remodeling Systems
Polaris LED
ProSource Power LLC
Putnam Air & Electric, LLC
QuipTech LLC
R. Williams Electric, Inc.
RaceTrac Petroleum, Inc
Ralen Electric
Rapid Power Management LLC
ReConserve of Texas
Redaptive Services, LLC
Regency Enterprises Inc. dba Regency Lighting
Renaissance Hotel
Restaurant Lighting Concepts
Rexel Holdings USA Corp
Richardson ISD
ROGERS ELECTRIC
Rohde A/C & Heating, LLC
ROI Energy Investments LLC
ROI Energy Solutions, Inc
San Miguel and Associates, Inc.

Commercial SOP (Basic) continued-

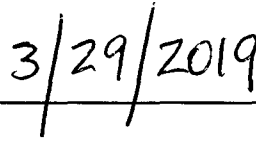
Saving Energreen Houses, LLC	US Energy Management
Shelton Companies Inc	Us Energy Recovery
SmartWatt Energy Inc	USA Advanced Technologies, Inc.
Smith Engineering PLLC	Verde Solutions LLC
Sodd Electric Co., Inc.	Verizon Corporate Services Group, Inc.
Southeastern Freight Lines, Inc	Vidalta Property Management, LLC
Southwest Energy Solutions	Voss Lighting
SPF Facility Services, LLC	Walker Air Conditioning and Heating, Inc
SPM Flow Control Inc.	Waypoint Lighting LLC
Stephenville City Electric Inc	WESCO Distribution, Inc.
Stults Electrical Inc	Whatabrands LLC
Summit Electric Supply Co., Inc.	Willdan Energy Solutions
Summit Energy Services, Inc.	WLS Lighting Systems
Sun City Solar Energy-North Texas LLC	Word of God Fellowship, DBA Daystar Tele Network
SUNDOG LED, LLC	XTREME AIR SERVICES
SUSTAINABILITY 1, LLC	Zederprise llc dba ZedicAire
SYDMOR, Inc. dba Batteries Plus Bulbs	
Sylvania Lighting Services	
Target Corp	
TCDFW Industrial Development, Inc.	
TDIndustries	
Technical Consumer Products	
Terrell Independent School District	
Texal Energy LLC	
Texas AirSystems LLC	
Texas Maintenance Solutions	
Texas Tech University Health Sciences Center	
Texas Turnkey Energy Solutions, LLC.	
The Brandt Companies, LLC	
The Neiman Marcus Group LLC.	
The Reynolds Company	
The Right Choice Heating & Air Inc	
Titan LED, Inc	
Top Kat Investments, Ltd	
Trammell Bell, llc	
Trane	
Tri-County Air Care, LLC	
Trinity Lighting and Electrical Services	
Triton Supply	
TSI Electric	
TTESCO	
TXU Energy Retail Company LLC	

ATTESTATION STATEMENT

Pursuant to P.U.C. Subst. R. 25.71(d), I attest that the information provided in this 2019 Energy Efficiency Plan and Report has been reviewed internally for accuracy and I have the authority to make this report on behalf of Oncor Electric Delivery.



Darryl Nelson



Date