ONCOR ELECTRIC DELIVERY COMPANY LLC

2017 Energy Efficiency Plan and Report

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

March 31, 2017

Project No. 46907

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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 selfdelivered programs:

• 30% reduction of the electric utility's 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 2016 achievements, and reports plans for achieving 2017 and 2018 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 an executive summary, ten sections, a list of acronyms, a glossary and three appendices.

• The Executive Summary highlights Oncor's reported achievements for 2016 and Oncor's plans for achieving its 2017 and 2018 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 (2012-2016).
- Section VI compares Oncor's projected energy and demand savings to its reported and verified savings by program for calendar year 2016.
- Section VII details Oncor's incentive and administration expenditures for the previous five years (2012-2016) broken out by program for each customer class.
- Section VIII compares Oncor's actual and budgeted program costs from 2016 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 details on Oncor's 2016 Energy Efficiency Cost Recovery Factor (EECRF) and discusses 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 – 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 2016 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 annual growth in demand of residential and commercial customers for the 2017 program year and a 30% reduction for the 2018 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 2016 Oncor successfully implemented SOPs and MTPs, as required by PURA §39.905, that met Oncor's 30% energy efficiency savings goal by procuring 128,830 kW in demand savings. 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 Pilot SOP, Commercial Solar Photovoltaic Installation SOP, Small Business Direct Install MTP, Commercial SOP, Commercial Load Management SOP, and the Healthcare MTP.

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)
2017	235.4	30%	69.4	121,589	89.4	145.8	208,513	\$49,892
2018	198.0	30%	69.4	121,589	90.2	155.3	206,072	\$50,098

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

* The 2018 Demand Goal is actually 55.4 MW when calculated per the EE Rule (198.0 MW x 30% annual growth in demand reduction) x (1-. 06655 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 2018 goal is 69.4. Line loss is derived from the line loss factors in Oncor's last rate case proceeding (Docket No. 38929, work paper WP II-H-1.3) with the estimated peak demand of eligible energy efficiency premises.

** 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 programs listed above in 2017 (less the Healthcare MTP).

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 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.

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

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. 2017 Programs

A. 2017 Program Portfolio

Oncor plans to implement 10 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.

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 Solar Photovoltaic Installation SOP	
Residential Solar Photovoltaic Installation SOP	Residential	Retrofit
Residential Demand Response SOP	Residential	Load Management

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Table 2: 2017 Energy Efficiency Program Portfolio

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)

<u>**Custom</u>** - 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, ENERGY STAR[®] Roofs, window film, and process upgrades as well as new construction that exceeds existing energy code baselines per the Texas Resource Manual (TRM). 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 2017 budget for the Custom Component of the Commercial SOP is \$2,975,110 with targeted impacts of 3,778 kW and 24,129,709 kWh.</u>

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 TRM. 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. Saving and incentives are based on deemed savings. The 2017 budget for the Basic Component of the Commercial SOP is \$9,024,042 with targeted impacts of 12,789 kW and 67,722,246 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. 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 2017 budget for this program is \$14,209,090 with targeted impacts of 26,394 kW and 70,365,671 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 energyefficient 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. Where savings from early replacement of residential HVAC equipment is claimed for individual multifamily installations in any Oncor program, the following requirements must be met:

- The unit must be fully operational at the time of replacement. Pre-installation inspection may be required to verify the operational status of the unit.
- A photograph of the existing condensing unit nameplate must be taken.
- Manufacturer, model and serial number of the existing condensing unit must be recorded.
- If nameplate of the existing condensing unit is illegible, additional documentation or preinstallation inspection may be required to verify the age of the existing unit. If the age cannot be documented or verified, then demand and energy savings of the existing unit will be calculated as Replacement-on-Burnout.
- Property Owner/Manager may provide responses to a survey to document the condition of the replaced unit, and the customer's motivation for replacing the unit before the end of its useful life.
- The new unit must have a nominal capacity that is less than or equal to that of the existing unit.

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. The 2017 budget for this program is \$6,567,780 with targeted impacts of 7,388 kW and 17,797,136 kWh. Qualifying measures are similar to those described above for the HEE SOP, as well as water-saving devices.

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(v). 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 2017.

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 2017 budget for this program is \$2,508,000 with targeted impacts of 55,000 kW and 165,000 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 standardized savings values or formulas ("Deemed Savings"). The 2017 budget for the CSPV SOP is \$2,933,040 with targeted impacts of 2,840 kW and 11,632,080 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 standardized savings values or formulas ("Deemed Savings"). The 2017 budget for the RSPV SOP is \$1,671,700 with targeted impacts of 1,096 kW and 4,646,400 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 ($\leq 200 \text{ kW}$) and very small ($\leq 10 \text{ kW}$) 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. Customers in the counties of Dallas, Collin, Tarrant, Denton and Rockwall are not eligible to participate in this program but can participate in the other commercial programs offered by Oncor. The 2017 budget for the SBDI MTP is \$2,077,520 with targeted impacts of 1,934 kW and 7,917,695 kWh.

Targeted Weatherization Low-Income SOP

For the 2017 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(r) states, "Unless funding is provided under PURA §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 PURA §39.903(f)(2). 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 commissionapproved deemed savings. The cost-effectiveness of measures eligible to be installed and the overall program shall be evaluated using the Savings-to-Investment (SIR) ratio.
- (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, attic 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.

The 2017 budget for this program is \$5,035,440 with targeted impacts of 1,518 kW and 2,737,531 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/weatherstripping 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. The state agency that administers the federal weatherization assistance program shall provide reports as required by the commission to provide the most current information available on energy and peak demand savings achieved in each transmission and distribution utility service area. The agency shall participate in energy efficiency cost recovery factor proceedings related to expenditures under this subsection to ensure that targeted low-income weatherization programs are consistent with federal weatherization programs and adequately funded.

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.

Residential Demand Response SOP

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 2017, 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 2017 Program budget is \$1,500,240, with targeted impacts of 32,900 kW and 197,400 kWh.

Research and Development

During 2017, 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 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. The collaboration allows utilities to recommend technologies for inclusion in the program, and have the technologies evaluated on facilities within ERCOT, and other areas with similar weather zones.

The focus of the R&D efforts will move from the national GSA program to Region 7, which encompasses Texas and the contiguous states. Participation in this program provides Oncor with a pipeline of technologies for future programs. Oncor submitted two new technologies from the GSA program to the State Evaluation Team in late 2016. Wireless Data Center Controls and Variable Refrigerant Flow are currently being evaluated for inclusion in the Texas Technical Reference Manual (TRM). Oncor anticipates that these measures will be available in the TRM by mid-2017.

Additionally, Oncor will continue its membership in the Texas Energy Poverty Research Institute (TEPRI) for 2017. 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 2017, TEPRI will be compiling Best Practices of Low-Income Services, Programs, and Technologies. Additionally, TEPRI will create a 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 2017

Oncor has no new programs for 2017.

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 2016 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 29.5%. According to the U.S. Census Bureau's 2016 Current Population Survey (CPS), 29.5% of Texas families fall below 200% of the poverty threshold. Applying that percentage to Oncor's residential customer totals, the number of HTR customers is estimated at 863,025. 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.

Program	Number of Customers
Commercial	448,668*
Residential	2,062,484
Hard-to-Reach	863,025
Total	3,374,177

Table 3: Summary of Customer Classes

* Customer count takes into account 2,447 qualifying for-profit industrial customers who have elected to exclude themselves from participation in Oncor's energy efficiency programs per 16 TAC 25.181(w), 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 2017 goal reflects the average annual growth in peak demand from 2011 to 2015. 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 2016, 2017 and 2018 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 2017 and 2018. The program-level goals presented in Table 5 are at the meter and take into account transmission and distribution line losses.

		Peak De	mand (MW) (at	t Source)	Energ	y Consumpti	Residential & Commercial			
Calendar Year	Total System		Opt-Out	Resid Corr	dential & mercial	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
2011	25,660	24,6860	1,050	24,610	23,636	113,836,638	106,782,934	104,135,429	97,081,725		
2012	24,933	24,715	1,133	23,800	23,582	110,370,554	109,019,934	100,351,162	99,000,542	-54	
2013	24,502	25,095	1,124	23,378	23,971	112,312,279	111,791,813	101,919,737	99,104,671	390	··
2014	23,788	25,720	1,445	22,343	24,275	114,905,829	113,939,185	101,640,875	100,674,230	304	
2015	25,139	25,791	1,476	23,663	24,315	116,594,625	116,554,605	102,634,272	102,594,252	40	
2016	25,361	26,190	1,565	23,796	24,625	115,791,379	117,927,439	100,977,674	103,113,734	310	198.0
2017 ³	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2018 ³	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

 Table 4: Annual Growth in Demand and Energy Consumption *

* Table 4 values can differ from prior years due to restatement of historic demands from a method based on 4CP demand to using ERCOT Settlement interval data. Additional variance is due to changing the weather adjustment process to better match the ERCOT Settlement method.

** 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 2014 - 243 MW, Year 2015 - 238 MW, Year 2016 - 232 MW.

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 2017 and 2018 are not applicable.

	2017 Proje	cted Savings	2018 Projected Savings		
Customer Class and Program	(kW)	(kWh)	(kW)	(kWh)	
Commercial	76,479	112,768,790	82,888	121,300,631	
Commercial SOP (Custom)	3,778	24,129,709	4,074	27,547,542	
Commercial SOP (Basic)	12,789	67,722,246	13,680	68,573,107	
Emergency Load Management SOP	0	0	0	0	
Commercial Load Management SOP	55,000	165,000	60,000	180,000	
Small Business Direct Install MTP	1,934	7,917,695	2,294	13,367,902	
Solar PV SOP	2,840	11,632,080	2,840	11,632,080	
Healthcare MTP*	138	1,202,060	0	0	
Residential	60,390	75,209,471	63,117	63,416,133	
Home Energy Efficiency SOP	26,394	70,365,671	29,121	58,572,333	
Solar PV SOP	1,096	4,646,400	1,096	4,646,400	
Residential Demand Response SOP	32,900	197,400	32,900	197,400	
Hard-to-Reach	8,906	20,534,667	9,293	21,354,929	
Hard-to-Reach SOP	7,388	17,797,136	7,850	18,815,742	
Targeted Weatherization Low-Income SOP	1,518	2,737,531	1,443	2,539,187	
Total Annual Savings Goals	145,775	208,512,928	155,298	206,071,693	

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

*The Healthcare MTP has carry-over savings from the 2016 program year but will not be offered in 2017.

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.

2017 Customer Class and Program	Incentives	Administration	Total Budget
Commercial	\$17,200,900	\$2,683,570	\$19,884,470
Commercial SOP (Custom)	\$2,587,050	\$388,060	\$2,975,110
Commercial SOP (Basic)	\$7,654,862	\$1,369,180	\$9,024,042
Emergency Load Management SOP	\$0	\$0	\$0
Commercial Load Management SOP	\$2,200,000	\$308,000	\$2,508,000
Solar PV SOP	\$2,572,840	\$360,200	\$2,933,040
Small Business Direct Install MTP	\$1,822,390	\$255,130	\$2,077,520
Healthcare MTP*	\$363,758	\$3,000	\$366,758
Residential	\$15,259,490	\$2,121,540	\$17,381,030
Home Energy Efficiency SOP	\$12,464,110	\$1,744,980	\$14,209,090
Solar PV SOP	\$1,479,380	\$192,320	\$1,671,700
Residential Demand Response SOP	\$1,316,000	\$184,240	\$1,500,240
Hard-to-Reach	\$10,217,350	\$1,385,870	\$11,603,220
Hard-to-Reach SOP	\$5,761,210	\$806,570	\$6,567,780
Targeted Weatherization Low-Income SOP	\$4,456,140	\$579,300	\$5,035,440
Research & Development**	\$0	\$310,000	\$310,000
Evaluation, Measurement & Verification***	\$0	\$713,605	\$713,605
Total Budgets by Category	\$42,677,740	\$7,214,585	\$49,892,325

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

2018 Customer Class and Program	Incentives	Administration	Total Budget
Commercial	\$20,054,780	\$2,722,180	\$22,776,960
Commercial SOP (Custom)	\$3,560,580	\$433,440	\$3,994,020
Commercial SOP (Basic)	\$8,499,900	\$1,169,540	\$9,669,440
Emergency Load Management SOP	\$0	\$0	\$0
Commercial Load Management SOP	\$2,280,000	\$319,200	\$2,599,200
Solar PV SOP	\$2,572,840	\$360,200	\$2,933,040
Small Business Direct Install MTP	\$3,141,460	\$3,141,460 \$439,800	
Residential	\$13,926,400	\$1,934,900	\$15,861,300
Home Energy Efficiency SOP	\$11,131,020	\$1,558,340	\$12,689,360
Solar PV SOP	\$1,479,380	\$192,320	\$1,671,700
Residential Demand Response SOP	\$1,316,000	\$184,240	\$1,500,240
Hard-to-Reach	\$9,193,400	\$1,242,920	\$10,436,320
Hard-to-Reach SOP	\$4,777,780	\$668,890	\$5,446,670
Targeted Weatherization Low-Income SOP	\$4,415,620	\$574,030	\$4,989,650
Research & Development**	\$0	\$310,000	\$310,000
Evaluation, Measurement & Verification***	\$0	\$713,605	\$713,605
Total Budgets by Category	\$43,174,580	\$6,923,605	\$50,098,185

* The Healthcare MTP has carry-over expenditures form the 2016 program year but will not be offered in 2017.

** 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 2017 are projected expenditures Oncor will incur in 2017 for completing review of Program Year 2016. EM&V costs shown for 2018 are projected expenditures Oncor will incur in 2018 for EM&V of 2017 programs.

ENERGY EFFICIENCY REPORT

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 (2012-2016) calculated in accordance with 16 TAC §25.181.

Calendar Year	Actual Demand Goal (MW at Source)	Projected Savings (MW at Meter)	Projected Energy Savings (MWh at Meter)	Reported & Verified Savings (MW at Meter)	Reported & Verified Energy Savings (MWh at Meter)
2016 ⁴	69.4	138.1	225,783	128.8	198,743
2015 ⁵	69.4	110.3	197,436	115.8	178,908
2014 ⁶	69.4	120.9	209,595	125.3	202,105
2013 ⁷	54.6	118.4	234,471	112.7	224,666
2012 ⁸	53.1	99.2	193,650	129.5	194,827

Table 7: Historical Demand Savings Goals and Energy Targets

⁴ 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 Table 4.

⁵ 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 4.

⁶ 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 Table 4.

 ⁷ Projected MW Savings and Projected Energy Savings as reported in the 2013 Energy Efficiency Plan & Report (EEPR) filed in April of 2013 under Project No. 41196. Actual Demand Goal as discussed in Table 4.

⁸ Projected MW Savings and Projected Energy Savings as reported in the 2012 Energy Efficiency Plan & Report (EEPR) filed in April of 2012 under Project No. 40194. Actual Demand Goal as discussed in Table 4.

2016	Projecte	d Savings	Reported and Verified Savings		
Customer Class and Program	kW	kWh	kW	kWh	
Commercial	85,284	108,844,014	79,326	90,038,254	
Commercial SOP (Custom)	3,940	17,530,789	1,849	15,975,618	
Commercial SOP (Basic)	12,210	64,972,658	8,712	50,595,032	
Emergency Load Management SOP	0	0	0	0	
Commercial Load Management SOP	60,000	252,288	60,017	180,050	
Solar PV SOP	6,325	12,189,540	7,859	17,253,019	
Small Business Direct Install MTP	1,423	6,656,171	392	2,225,065	
Healthcare MTP	1,386	7,242,568	496	3,809,470	
Residential	44,068	97,714,787	39,710	84,653,405	
Home Energy Efficiency SOP	34,068	90,356,387	30,137	74,366,440	
Solar PV SOP	3,500	7,358,400	4,687	10,286,966	
Residential Demand Response SOP	6,500	0	4,886	0	
Hard-to-Reach	8,734	19,224,654	9,793	24,051,210	
Hard-to-Reach SOP	6,929	17,145,309	7,640	20,135,627	
Targeted Weatherization LI SOP	1,805	2,079,345	2,153	3,915,584	
Total Annual Savings Goals	138,086	225,783,455	128,830	198,742,869	
2015 ¹⁰	Projecte	d Savings	Reported and Verified Savings		
Customer Class and Program	kW	kWh	kW	kWh	
Commercial	76,735	89,869,069	74,147	90,342,021	
Commercial SOP (Custom)	4,482	19,943,734	2,254	15,219,358	
Commercial SOP (Basic)	13,000	60,323,557	11,493	58,742,627	
Emergency Load Management SOP	0	0	0	0	
Commercial Load Management SOP	55,000	165,000	54,902	171,505	
Solar PV SOP	3,250	6,265,600	3,862	8,527,109	
Small Business Direct Install MTP	1,003	3,171,178	1,636	7,681,422	
Residential	26,795	81,302,080	32,344	65,522,508	
Home Energy Efficiency SOP	18,100	76,106,880	22,692	59,421,878	
Solar PV SOP	2,695	5,195,200	2,766	6,100,630	
Residential Demand Response MTP	6,000	0	6,886	0	
Hard-to-Reach	6,769	26,264,582	9,317	23,043,586	
Hard-to-Reach SOP	5,719	23,045,282	7,416	19,601,569	
Targeted Weatherization LI SOP	1,050	3,219,300	1,901	3,442,017	
Total Annual Savings Goals	110,299	197,435,731	115,808	178,908,115	

VI. Projected, Reported and Verified Demand and Energy Savings Table 8: Projected verya Reported and Verified Savings for 2016 and 2015⁹ (at N **.** · ---)

⁹ Projected Savings totals for 2016 and 2015 from Table 7. Reported Savings may not add due to rounding. ¹⁰ Reported and Verified Savings data for 2015 taken from EEPR, Project 45675.

VII. Historical Program Expenditures This section documents Oncor's incentive and administration expenditures for the previous five years (2012-2016) broken out by program for each customer class.

	2016 2015		15	2014		2013		2012		
	Incentive (\$)	Admin (\$)								
Commercial	17,200,144	2,172,123	16,348,143	2,405,110	19,377,464	2,165,471	19,551,051	1,839,924	18,664,020	2,563,706
Solar PV SOP	6,027,919	497,068	4,815,294	489,580	8,836,015	982,403	3,690,362	191,731	NA	NA
Commercial SOP (Custom)	1,630,922	264,240	1,457,162	299,232	2,096,336	255,912	2,174,265	225,750	6,893,602	1,136,211
Emergency Load Management SOP	0	0	0	0	0	0	0	0	0	0
Commercial Load Management SOP	2,400,661	183,537	2,196,080	204,745	2,369,800	218,750	2,200,000	219,024	3,393,960	415,550
Educational Facalities MTP	NA	NA	NA	NA	NA	NA	4,433,441	435,851	3,820,735	439,693
Government Facilities MTP	NA	NA	NA	NA	NA	NA	1,362,956	135,036	1,289,202	154,081
Small Business Direct Install MTP	544,189	50,966	1,784,748	151,836	1,339,022	122,469	103,916	9,843	NA	NA
Healthcare MTP	931,556	74,226	NA	NA	NA	NA	NA	NA	NA	NA
Commercial SOP (Basic)	5,664,897	1,102,086	6,094,859	1,259,717	4,736,291	585,937	5,265,440	588,785	3,023,424	388,632
Air Conditioning MTP	NA	NA	NA	NA	NA	NA	320,671	33,904	243,097	29,539
Residential	19,377,105	2,040,667	13,659,678	1,911,756	18,237,838	2,008,173	18,444,393	2,130,467	11,141,966	1,578,061
Home Energy Efficiency SOP	14,435,266	1,521,569	10,005,295	1,435,699	12,950,424	1,474,757	13,564,608	1,624,208	10,007,239	1,437,642
ENERGY STAR [®] Homes MTP	NA	NA	NA	NA	NA	NA	NA	NA	472,500	58,194
Solar PV SOP	4,757,415	490,263	3,414,383	456,130	5,219,930	527,249	4,152,680	429,265	NA	NA
Air Conditioning MTP	NA	NA	NA	NA	67,484	6,167	727,105	76,994	756,497	92,502
Residential Demand Response SOP	184,424	28,835	240,000	19,927	NA	NA	NA	NA	NA	NA
ENERGY STAR [®] Low Rise MTP	NA	NA	NA	NA	NA	NA	NA	NA	(94,270)	(10,277)
Hard-to-Reach	11,117,443	1,117,681	11,653,832	1,327,473	12,495,958	1,281,622	12,731,505	1,392,930	13,137,110	1,697,983

Table 9: Historical Program	Incentive and Admin	istrative Expenditures	for 2012 through 2016
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Oncor

Hard-to-Reach SOP	5,953,011	750,470	6,004,832	849,060	6,499,328	732,039	6,941,505	841,064	8,206,413	1,145,918
Target Weatherization (known as TDHCA in 2006 & 2007)	5,164,432	367,211	5,649,000	478,413	5,996,630	549,583	5,790,000	551,866	4,930,697	552,065
Total Program Expenditures	47,694,692	5,330,471	41,661,653	5,644,339	50,111,260	5,455,266	50,726,949	5,363,321	42,943,096	5,839,750

VIII. Program Funding for Calendar Year 2016

Oncor exceeded its 2016 mandated demand goal of 69.4 MW by obtaining 128.8 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 \$58,795,183.

The **Small Business Direct Install MTP** was under budget in 2016 because a contract was awarded to a new implementer and the program start-up took longer than anticipated.

The **Commercial SOP** (**Custom**) was under budget in 2016 because several large projects totaling \$613,935 in committed incentives had delays, causing them to push out to 2017 completion dates. Incentive funding was reallocated from the Commercial SOP (Custom) to the Basic Commercial SOP.

The **Healthcare MTP** was under budget in 2016 because the contract was awarded to a new implementer and the program start-up took longer than anticipated. The implementer started completing projects in June 2016, and 14 of the 23 total projects were completed in the month of December. This program will not be continued in 2017.

The **Commercial Solar Photovoltaic Installation SOP** was under budget in 2016 because \$2,033,789 in incentives were committed but not spent during the year. Multiple large projects were not completed during the program year because of financial or construction issues and were cancelled too late in the year to have the associated incentives reallocated to other projects.

The **Residential Demand Response Pilot SOP** was under budget in 2016 due to the nature of the pilot program and communication errors experienced by two of the Service Providers. One of the primary goals of the pilot was to better understand the average curtailment per home, which proved to be lower during the 2016 pilot with four providers than it was during the 2015 pilot with only a single provider. Also, two providers failed to fully deploy their curtailments during the scheduled tests due to communication errors in their systems.

	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	925	\$24,537,021	\$17,200,144	\$2,172,123	\$19,372,267	\$5,352,992	\$(188,238)
Commercial SOP (Custom)	27	\$2,816,576	\$1,630,922	\$264,240	\$1,895,162	\$613,935	\$307,479
Emergency Load Management SOP	0	\$O	\$0	\$0	\$0	\$O	\$0
Commercial Load Management SOP	161	\$2,688,000	\$2,400,661	\$183,537	\$2,584,198	\$0	\$103,802
Commercial SOP (Basic)	561	\$7,476,053	\$5,664,897	\$1,102,086	\$6,766,983	\$2,341,510	\$(1,632,440)
Solar PV SOP	92	\$8,236,052	\$6,027,919	\$497,068	\$6,524,987	\$2,033,789	\$(322,724)
Small Business Direct Install MTP	61	\$1,767,807	\$544,189	\$50,966	\$595,155	\$0	\$1,172,652
Healthcare MTP	23	\$1,552,533	\$931,556	\$74,226	\$1,005,782	\$363,758	\$182,993
Residential	22,660	\$22,568,283	\$19,377,105	\$2,040,667	\$21,417,772	\$0	\$1,150,511
Home Energy Efficiency SOP	14,711	\$17,138,305	\$14,435,266	\$1,521,569	\$15,956,835	\$0	\$1,181,470
Solar PV SOP	887	\$5,052,635	\$4,757,415	\$490,263	\$5,247,678	\$0	\$(195,043)
Residential Demand Response	7,062	\$377,343	\$184,424	\$28,835	\$213,259	\$0	\$164,084
Hard-to-Reach	6,370	\$12,686,377	\$11,117,443	\$1,117,681	\$12,235,124	\$0	\$451,253
Hard-to-Reach SOP	5,368	\$6,598,141	\$5,953,011	\$750,470	\$6,703,481	\$0	\$(105,340)
Targeted Low- Income SOP	1,002	\$6,088,236	\$5,164,432	\$367,211	\$5,531,643	\$0	\$556,593
Research & Development	NA	\$500,000	\$0	\$131,169	\$131,169	\$0	\$368,831
EM&V**	NA	\$649,617	\$0	\$649,617	\$649,617	NA	\$0
Total	29,955	\$60,941,298	\$47,694,692	\$6,111,257	\$53,805,949	\$5,352,992	\$1,782,357

Table 10: Program Funding for Calendar Year 2016

* Administration funds include \$5,666 of Rate Case Expenses approved in Docket No. 46013

**EM&V costs shown are actual booked costs for 2016. For purposes of cost-effectiveness and bonus calculations,

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\$713,605 is used per TetraTech's 2016 EM&V cost allocation.

¹¹ Projected Budget taken from the EEPR filed in April 2016 under Project No. 45675.

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

Oncor's 2016 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 (\leq 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. The counties of Dallas, Collin, Tarrant, Denton and Rockwall are not eligible to participate in this program but can participate in the other commercial programs offered by Oncor. In 2016 participants installed measures that resulted in savings of 392 kW and 2,225,065 kWh.

The Program goals for 2016 were to provide convenient, turn-key select energy efficient measures to small and mid-sized non-residential customers.

Healthcare MTP

Oncor's Healthcare MTP was launched during the first quarter of 2016. The implementer, who has managed similar programs for other utilities, was awarded the contract through a RFP process in late 2015. This MTP was developed to provide an incentive for healthcare facilities to implement electric energy efficiency projects at eligible customer facilities served by Oncor. The primary objective of the program is to achieve cost-effective reduction in electric energy consumption. In 2016, participants installed measures that resulted in savings of 496 kW and 3,809,470 kWh.

Research and Development

Oncor collaborated with the U.S. General Services Administration's Green Proving Ground. The Program uses the GSA's real estate portfolio to evaluate innovative sustainable building technologies. Each fall, the GSA issues a Request for Information to identify new energy efficient technologies. Vendors provide detailed descriptions of their technologies to the GSA for review. Typically, the GSA will receive applications for 130 to 140 technologies. After several rounds of review by the GSA and National Laboratories, several technologies are selected for installation on GSA properties. The technologies undergo a stringent measurement and verification process for

up to one year. Energy savings, demand savings, and equipment performance are evaluated to determine overall viability of the technology. Oncor collaborates with the GSA, and funds energy-efficient technologies that have savings potential in the Oncor service territory and Texas. The results of the GSA technology evaluations are reviewed by a consultant to determine whether technologies are ready for introduction into the ERCOT market. If appropriate, petitions could be filed for deemed savings approval. The purpose of the collaboration is to introduce new technologies and deemed savings into the ERCOT market. In late 2016, Oncor submitted Wireless Data Center Controls and Variable Refrigerant Flow as new measures for inclusion in the Texas Technical Reference Manual (TRM). The measures are currently under evaluation by the State Evaluation Team.

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.

X. Current Energy Efficiency Cost Recovery Factor (EECRF)

Oncor billed \$65,783,661 during 2016 through the EECRF.

Revenue Billed

\$65,783,661

Over- or Under-recovery

\$6,097,607 (Over) - This amount will be trued-up by rate class in Oncor's EECRF filing in 2017.

Shown below is a calculation detailing the performance bonus Oncor qualifies for based on 2016 program results.

Performance Bonus Calculation

Total Energy Efficiency Benefits	\$171,285,561
Total Energy	¢,200,001
Expenditures	\$53,869,937
Total Net Benefits	\$117,415,624

2016 Minimum Goal MW	69.4
2016 Achieved Goal MW	128.83
Percentage Over Goal	85.63%

Bonus Calculation % of NetBenefits (1% of every 2% theDemand Goal is exceeded)0.4282

Bonus Based on 42.82% of Net Benefits (\$117,415,624 x .4282)

 Bonus Capped at 10% of

 2016 Total Net Benefits
 \$11,741,562

 (\$117,415,624 x .1)

\$50,277,370

29

Total Bonus	\$11,741,562

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 §25.181 and §25.183
ERCOT	Electric Reliability Council of Texas
HTR	Hard-To-Reach
M&V	Measurement and Verification
МТР	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 (6.653%) 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 metered 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 metered 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 16 TAC 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 subsection (f) of 16 TAC §25.181, ensuring timely and reasonable cost recovery for utility expenditures made to satisfy the goal of PURA §39.905 that provide for a cost-effective portfolio of energy efficiency programs pursuant to 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 enduse 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 pursuant to subsection (w) 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. 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 6 to 10 a.m. and 6 to 10 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: REPORTED DEMAND AND ENERGY REDUCTION BY COUNTY

				Ap	pen	dix A: D	ema	and and	Ene	rgy Redu	uctio	n by Cou	inty									
COUNTY	Hard	to Reach SOP	Sma Dir	all Business rect Install MTP	Comi	mercial SOP Custom)	R es	esidential Demand ponse SOP	C d Lo	ommercial ad Mgmt. SOP	Ho Effi	me Energy ciency SOP	Com	mercial SOP (Basic)	C c Sol	emmercial ar PV SOP	R e Sola	esidential ar PV SOP	Targ Inc	geted Low ome SOP	He	althcare MTP
ANDERSON	kW		kW		kW		kW	28.7	kW		kW	29.1	kW	56.9	kW		kW	22.9	kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh	50,753.0	kWh	278,871.6	kWh		kWh	44,544.0	kWh		kWh	
ANDREWS	kW		kW		кW		кW	27.4	kW		kW		kW		kW		kW		kW	2.3	kW	
-	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	4,180.7	kWh	
										-												
ANGELINA	KVV	94.1	KVV		KVV	273.7	KVV	76.3	KVV		KVV	158.6	KVV		KVV	31.5	kVV	48.6	KVV	27.4	KVV	
	ĸvvn	396,564.8	кvvn		ĸvvn	2,378,398.6	кvvn		ĸvvn		кvvn	578,510.3	кvvn		кvvn	60,800.0	кvvn	100,794.8	кvvn	56,135.4	ĸvvn	
ARCHER	kW	3.0	kW		kW		kW	177.1	kW		kW	19.9	kW		kW		kW	22.5	kW		kW	
	kWh	7,929.5	kWh		kWh		kWh		kWh		kWh	44,645.6	kWh		kWh		kWh	43,400.0	kWh		kWh	
BASTROP	F/W		۲\\/	16	K)//		F/W	107.1	K)//		K)//	-	K)//		۲\\/	4.6	F/W	5.6	۲\۸/	0.6	F/W	
BASIKOF	kWb		kWb	5 686 3	kWb		kWb	107.1	kWb		kWb		kWb		kWb	10 535 0	kWb	16 507 0	kWb	1025.9	kWb	
	KVVII		KVVII	5,000.5	KVIII		K V VII		K V VII		KVIII		KUUII		K V VII	6,000.0	RUUII	6,507.0	KVVII	1,020.0	KVIII	
BELL	kW	333.8	kW	13.2	kW		kW	96.0	kW	49.4	kW	1,163.5	kW	271.5	kW	941.7	kW	465.4	kW	747.4	kW	
	kWh	1,153,650.7	kWh	86,121.8	kWh		kWh		kWh	148.2	kWh	3,658,356.1	kWh	1,254,488.7	kWh	2,222,732.9	kWh	978,507.9	kWh	1,421,437.0	kWh	
BROWN	kW	40	kW/		kW		kW	53.8	kW		kW		kW	0.4	kW		kW	62	kW	65.2	kW	
BROWN	kWh	12,247.2	kWh		kWh		kWh		kWh		kWh		kWh	4,278.7	kWh		kWh	13,978.2	kWh	128,825.5	kWh	
DUDNETT	1-14/		1-14/		1.3.47		1.347	-	1.347		1-347		1.3.47		1-14/		1-347		1-14/		1.347	
BURNETT	K VV		K VV		KVV LAMb		K VV		K VV		K VV		K VV		K VV		K VV		KVV k)M/b		KVV	
	ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn	
CHEROKEE	kW		kW				kW	47.2	kW		kW	6.1	kW	17.9	kW	58.3	kW	37.6	kW	19.4	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	15,429.8	kWh	81,132.4	kWh	112,320.0	kWh	75,7710	kWh	36,776.1	kWh	
CLAY	kW		kW		kW		kW	48.5	kW		kW	6.6	kW		kW	8.3	kW	12.4	kW	1.5	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	13,641.1	kWh		kWh	16,000.0	kWh	23,952.0	kWh	1,724.3	kWh	
	k W		k M		k\M/		k W		κw		kW/		k\M/		kW/		kW/		k\//		k W	
OOLEMIAN	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
COLLIN	kW	555.9	kW		kW	418.3	kW	65.4	kW	2,918.1	kW	2,711.9	kW	1,000.0	kW	1,538.8	kW	524.9	kW		kW	85.8
	kWh	1,421,231.6	kWh		kWh	3,560,585.3	kWh		kWh	8,754.5	kWh	7,262,035.6	kWh	5,792,461.3	kWh	3,551,550.8	kWh	1,140,190.2	kWh		kWh	555,536.8
	14344	0.8	L-14/		L) A/		1/1/	26	L)//		L-).A.(L) \ /		L:\\/	-	L/\//		L-).0/	2.0	L-).A.(
COMANCHE	kWh	922.5	kWh		kWh		kWh	2.0	kWh		kWh		kWh	47,650.0	kWh		kWh		kWh	5,735.3	kWh	
														,						.,		
COOKE	kW		kW		kW		kW	2.5	kW		kW	1.0	kW	11.2	kW		kW		kW	9.2	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	2,094.0	kWh	88,137.5	kWh		kWh		kWh	13,326.2	kWh	
CORYELL	kW	30.1	KW		ĸW		kW	105.5	ĸW		ĸW	118.7	ĸW	26.8	KW		KW	19.8	ĸW	14.7	ĸW	
	kWh	113,103.4	кWh		кWh		kWh		кWh		кWh	391,060.3	кWh	62,095.1	кWh		кWh	44,597.4	кWh	26,078.5	кWh	
CRANE	kW		kW		kW		kW	16.9	kW		kW		kW		kW	12.0	kW	3.4	kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	23,040.0	kWh	6,608.0	kWh		kWh	
							1		1	1	1											

DALLAS	kW	3,301.6	kW		kW	403.6	kW	108.3	kW	17,066.7	kW	10,920.2	kW	3,466.8	kW	2,616.8	kW	803.6	kW	639.6	kW	127.9
	kWh	7,913,316.5	kWh		kWh	3,766,024.1	kWh		kWh	51,200.2	kWh	24,444,346.2	kWh	21,741,939.3	kWh	5,559,525.7	kWh	1,785,285.0	kWh	1,196,502.0	kWh	804,826.7
DAWSON	kW		kW		κW		κW	18.4	κW		κW		kW		kW		kW		κW	14.5	kW	
Britteon	kWh		kWh		kWh		kWh	0.1	kWh		kWh		kWh		kWh		kWh		kWh	21,337.4	kWh	
DELTA	K VV	0.7	K VV		K VV		KVV	4.5	KVV		KVV	143.0	K VV	23.0	KVV		K VV		K VV	2.2	KVV	
	KVVN	2,376.9	KVVN		KVVII		KVVN		KVVN		KVVII	336,542.0	KVVII	14,708.5	KVVN		KVVN		KVVII	2,878.9	KVVN	
DENTON	kW	110.2	kW		κW	123.3	κW	60.6	κW	2 5 4 1 8	κW	1224.0	kW	104.9	κW	128.8	kW	190.9	κW		kW	22.5
DENTON	kWb	323 2314	kWh		kWb	652 839 6	kWh	00.0	kWh	7 625 2	kWb	2 479 125 6	kWb	454 853 3	kWb	287 003 9	kWb	418 735 3	kWb		kWh	157 826 7
		020,201.1				002,000.0				7,020.2		2,110,120.0		10 1,000.0		201,000.0		110,700.0				07,020.7
EASTLAND	kW		kW		kW		kW	50.2	kW		kW	3.3	kW		kW		kW	4.2	kW	3.4	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	5,644.0	kWh		kWh		kWh	8,000.0	kWh	6,437.1	kWh	
ECTOR	kW		kW	11.8	kW		kW	26.2	kW	383.3	kW		kW	34.3	kW	202.6	kW	101.7	kW	6.0	kW	
	kWh		kWh	83,201.1	kWh		kWh		kWh	1,150.0	kWh		kWh	230,993.6	kWh	403,632.0	kWh	202,656.8	kWh	4,996.8	kWh	
														-					<u> </u>			
ELLIS	kW	81.2	kW	34.1	kW		kW	70.6	kW	2,134.1	kW	216.7	kW	13.8	kW		kW	120.8	kW		kW	59.6
	kWh	216,777.0	kWh	174,838.9	kWh		kWh		kWh	6,402.2	kWh	546,416.6	kWh	84,407.1	kWh		kWh	280,154.2	kWh		kWh	519,251.2
FRATH	kW		kW	77.7	kW		kW	99	κW		κW		kW		kW		kW		kW		kW	
2.0.000	kWh		kWh	339.487.4	kWh		kWh	0.0	kWh		kWh		kWh		kWh		kWh		kWh		kWh	
FALLS	kW		kW		kW		kW	118.5	kW		kW	1.5	κW		kW		kW		kW	10.5	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	2,591.5	kWh		kWh		kWh		kWh	15,470.4	kWh	
FANNIN	kW	7.1	kW	6.8	kW		kW	75.8	kW		kW	24.8	kW	6.3	kW		kW		kW	1.2	kW	
	kWh	21,720.7	kWh	26,256.8	kWh		kWh		kWh		kWh	61,247.1	kWh	41,174.8	kWh		kWh		kWh	1,416.9	kWh	
FREESTONE	kW		kW		kW		kW	33.7	kW		kW		kW		kW		kW	5.6	kW	20.0	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	10,768.0	kWh	36,310.3	kWh	
																			<u> </u>			
GLASSCOCK	kW		kW		kW		kW		kW		kW		kW		kW		kW	8.9	kW		kW	
	ĸvvn		ĸvvn		кvvn		ĸvvn		ĸvvn		ĸvvn		кvvn		кvvn		ĸvvn	22,297.8	ĸvvn		ĸvvn	
GRAYSON	kW/	86.6	kW	53.9	kW		κW	343.4	kW		κW	692 1	kW	99.8	kW	172 1	kW	12.9	kW	24.9	kW	
on a room	kWh	389,279,7	kWh	380.924.2	kWh		kWh	0.0.1	kWh		kWh	1396.764.7	kWh	657.329.7	kWh	347.922.2	kWh	38,184.0	kWh	38.970.3	kWh	
												,,.				0,01111						
HENDERSON	kW	61.5	kW		kW		kW	9.4	kW		kW	467.9	kW	25.4	kW	2.2	kW	5.0	kW		kW	
	kWh	111,943.4	kWh		kWh		kWh		kWh		kWh	886,556.3	kWh	199,786.0	kWh	4,480.0	kWh	12,419.9	kWh		kWh	
HILL	kW	94.2	kW		kW		kW	71.1	kW		kW	278.7	kW	110.6	kW		kW		kW	4.7	kW	
	kWh	216,604.3	kWh		kWh		kWh		kWh		kWh	619,934.0	kWh	594,525.5	kWh		kWh		kWh	7,476.0	kWh	
																			<u> </u>			
HOOD	kW	1.8	kW		kW		kW	35.8	kW		kW	0.7	kW		kW		kW		kW		kW	
	kVVh	5,386.6	kVVh		ĸvvn		kvvh		kvvh		kvvh	3,126.0	kvvh		kVVh		kVVh		kVVh		kVVh	
HORKINS	k)0/	334.0	k)//	212	F10/	226.0	F101	45.6	L-).0/		k)//	803.8	L/A/		k)//		F101		12\A/	27	k)//	
HOFKING	kWb	804 896 0	kWh	82 289 1	kWb	1971699.5	kWh	43.0	kWh		kWb	18510619	kWb		kWb		kWb		kWb	10 1219	kWh	
		22 ,,000.0		52,203.1		,,									1					10, 12 1.0		
HOUSTON	kW		kW		kW		kW	137.3	kW		kW	14.2	kW		kW		kW		kW	3.3	kW	
	kWh		kWh		kWh		kWh		kWh		kWh	42,943.6	kWh		kWh		kWh		kWh	5,658.5	kWh	
																						_
HOWARD	kW		kW	1.7	kW		kW	19.0	kW	2,937.5	kW		kW		kW		kW		kW	2.3	kW	18.4
	kWh		kWh	11,447.1	kWh		kWh		kWh	8,812.6	kWh		kWh		kWh		kWh		kWh	2,227.1	kWh	26,205.0
																			1			

HUNT	kW	33.7	kW		kW	20.9	kW	40.0	kW		kW	179.1	kW	53.0	kW		kW		kW		kW	
	kWh	85,574.6	kWh		kWh	26,710.1	kWh		kWh		kWh	407,223.6	kWh	212,348.5	kWh		kWh		kWh		kWh	
JACK	kW	7.5	kW		kW		kW	46.4	kW		kW		kW		kW		kW		kW		kW	
	kWh	16,694.8	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
JOHNSON	kW	29.6	kW	61.4	kW		kW	128.1	kW		kW	160.8	kW	62.6	kW		kW	42.7	kW		kW	
	kWh	83,325.3	kWh	412,344.9	kWh		kWh		kWh		kWh	535,135.6	kWh	345,111.6	kWh		kWh	109,532.6	kWh		kWh	
KAUFMAN	kW	81.7	kW	24.2	kW		kW	342.6	kW		kW	135.0	kW	437.6	kW		kW	28.6	kW		kW	
	kWh	379,934.5	kWh	185,481.3	kWh		kWh		kWh		kWh	516,234.4	kWh	2,322,132.6	kWh		kWh	69,314.5	kWh		kWh	
LAMAR	kW	31.7	kW		kW		kW	97.4	kW		kW	65.0	kW	21.8	kW	25.5	kW		kW	4.0	kW	
	kWh	103,492.2	kWh		kWh		kWh		kWh		kWh	160,229.8	kWh	96,433.2	kWh	49,200.0	kWh		kWh	9,968.6	kWh	
LAMPASSAS	ĸvv		K VV		KVV		KVV	22.9	KVV		KVV	1.2	ĸvv		KVV		ĸvv	7.2	ĸvv		KVV	
	kWh		kVVh		kWh		kVVh		kVVh		kVVh	6,509.6	kVVh		kWh		kVVh	13,888.0	kVVh		kVVh	
LEON	K V V		K VV		K V V		K VV	3.5	K VV		K V V		K VV		K VV		K V V		K VV	2.0	K VV	
	ĸvvn		ĸvvn		ĸvvn		ĸvvn		KVVN		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn	2,241.7	KVVN	
	F/W		K10/		K/M		K10/	164.2	KW/		K10/	17.0	K10/		K10/		۲\۸/		K10/		K10/	
LIMESTONE	K VV		K VV		kWb		k Wb	104.2	kWb		KVV KW/b	31666.0	K VV		KW/b		k Wb		KWV		kWb	
	K VVII		K VVII		K VVII		K VVII		KVVII		K VVII	3 1,000.0	K VVII		KVVII		KVVII		KVVII		K VVII	
	K W		K10/		K W		K10/		k\//		KW/		K/M/	-	K10/	-	K)//		K10/		k\\/	
LOVING	kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb	
LYNN	kW		kW		кW		kW		kW		кW		kW		kW		kW		kW		kW	
	kWh		k Wh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
MARTIN	кW		kW		кW		kW	0.8	kW		кW		kW		kW	-	kW		kW		кW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
MCLENNAN	kW	152.6	kW		kW	5.2	kW	124.1	kW	5,079.6	kW	417.7	kW	196.7	kW	14.5	kW	110.6	kW	113.9	kW	
	kWh	368,456.8	kWh		kWh	38,707.7	kWh		kWh	15,238.8	kWh	955,988.1	kWh	1,420,239.6	kWh	27,936.0	kWh	228,038.1	kWh	196,896.0	kWh	
MIDLAND	kW		kW	7.8	kW		kW	23.3	kW		kW		kW		kW	60.7	kW	40.1	kW	4.8	kW	
	kWh		kWh	28,663.7	kWh		kWh		kWh		kWh		kWh		kWh	117,072.0	kWh	83,145.5	kWh	6,547.5	kWh	
MILAM	kW		kW		kW		kW	33.7	kW		kW		kW		kW		kW	10.1	kW	8.1	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	24,175.6	kWh	11,999.0	kWh	
MITCHELL	kW		кW		kW		kW	0.0	κw		kW		kW	55.7	kW		kW		kW	2.5	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh	122,542.4	kWh		kWh		kWh	2,207.8	kWh	
														ļ								
MONTAGUE	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
NACOGDOCHES	kW	31.7	kW		kW		kW	207.4	kW		kW	29.1	kW	16.5	kW	13.7	kW	44.6	kW	6.1	kW	
	kWh	145,759.1	kWh		kWh		kWh		kWh		kWh	131,180.0	kWh	74,845.1	kWh	31,680.0	kWh	103,278.6	kWh	7,942.4	kWh	
													—						L			
NAVARRO	kW	4.9	kW	1.5	kW		kW	91.9	kW		kW	83.8	kW	151.6	kW		kW	8.5	kW		kW	
	kWh	10,093.1	kWh	5,559.4	kWh		kWh		kWh		kWh	155,474.6	kWh	311,249.7	kWh		kWh	16,416.0	kWh		kWh	
NOLAN	kW		kW		kW		kW	56.3	kW		kW		kW		kW		kW	6.4	kW	0.9	kW	
	kWh		кWh		kWh		кWh		kWh		kWh		kWh		кWh		кWh	16,909.8	кWh	1,033.9	кWh	
					<u> </u>						<u> </u>		<u></u>									
PALOPINTO	KW	1.6	ĸW	2.9	ĸW		ĸW	43.7	KW		ĸW	1.1	KW		ĸW		KW		ĸW		кW	
	kVVh	1,880.6	кWh	22,215.3	кvVh		кVVh		кWh		кVVh	3,869.4	кvVh		кWh		кVVh		кVVh		кVVh	

PARKER	kW	3.9	kW		kW		kW	134.4	kW		kW	247.1	kW		kW	64.1	kW	44.5	kW		kW	34.7
	kWh	23,209.8	kWh		kWh		kWh		kWh		kWh	513,813.9	kWh		kWh	128,636.0	kWh	106,700.4	kWh		kWh	158,742.3
PECOS	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
REAGAN	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
RED RIVER	kW		kW		kW		kW	4.1	kW		kW		kW	0.9	kW		кW		kW	1.0	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh	4.259.2	kWh		kWh		kWh	9817	kWh	
														.,								
REEVES	kW		kW		kW		kW/		kW		κW		kW		kW		kW		κW		kW	
	kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb		kWb	
ROCKWALL	K10/	42.6	K10/		KW/		K10/	200.0	k\\/	86.3	k\//	164.6	K10/	35.6	k\\/	12.5	K M	515	K10/	16	K10/	9.8
ROOKWALL	1.10.0-	40.4.400.0	1.100-		1.10/1-		1.10/1-	233.0	1	050.0	1	250 542 5	1.10.0-	200,000,0	1	24.000.0	1.10/1-	400 555 4	1	2.400.0	1.100	50 400 5
	KVVN	24, 103.6	ĸvvn		ĸvvn		ĸvvn		ĸvvn	256.6	ĸvvn	356,5 13.5	KVVN	209,090.2	ĸvvn	24,000.0	ĸvvn	03,555.4	ĸvvn	3, 109.0	ĸvvn	52, 90.5
DUCK	1.3.07		1.3.67		1-107		1-147		1.3.07		1.3.07		1-3.07	07.5	1-347		1-3.47		1.3.67		1.3.47	
RUSK	K VV		KVV		K VV		K VV	84.8	KVV		KVV		K VV	37.5	K VV		K VV		K VV		KVV	
	кVVh		кVVh		кWh		κVVh		кVVh		кVVh		кVVh	136,313.8	κVVh		кVVh		кVVh		кVVh	
											<u> </u>											
SCURRY	κW		κW		кW		κW	24.5	кW		κW		кW		κW		kW		κW	3.6	κW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	9,904.9	kWh	
SHACKLEFORD	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
SMITH	kW	204.7	kW	56.4	kW		kW	113.5	kW		kW	1,600.0	kW	292.5	kW		kW	55.4	kW	12.5	kW	9.1
	kWh	654,298.9	kWh	298,955.8	kWh		kWh		kWh		kWh	4,921,831.7	kWh	1,302,828.3	kWh		kWh	107,128.0	kWh	21,823.4	kWh	47,838.9
STEPHENS	kW		kW		kW		kW	65.9	kW		kW		kW	7.1	kW		kW		kW	1.9	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh	46,577.4	kWh		kWh		kWh	2,495.4	kWh	
TARRANT	kW	1,887.2	kW		kW	367.5	kW	48.8	kW	20,610.0	kW	7,654.4	kW	1,892.1	kW	876.1	kW	864.5	kW	349.9	kW	128.4
	kWh	4,968,775.2	kWh		kWh	3,566,656.7	kWh		kWh	61,829.9	kWh	20,017,996.3	kWh	11,241,562.1	kWh	2,009,320.0	kWh	1,943,004.5	kWh	564,921.1	kWh	1,487,051.7
TERRY	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
TOM GREEN	kW		kW		kW		kW		kW		kW		kW		kW		кW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
	K10/		K)//		KW/	11.0	k\//	2414	K10/	6 209 5	K10/	12	۲\//	9.9	k\\/	403.2	K10/	200.2	K)//		۲\۸/	
	kWb		k Wb		kWb	13 996 6	k Wb	24.4	kWb	18 628 5	kWb	9.570.1	kWb	66 894 5	k Wb	932 128 0	k Wb	490 218 2	k Wb		kWb	
	KVVII		KVVII		KVVII	5,330.0	K VVII		RUUII	10,020.0	K V VIII	3,570.1	KVVII	00,034.5	K V VIII	332, 20.0	KVVII	430,2 10.2	K V VIII		KVVII	
	K101		K101		K107		K107		k\//		K107		K101		K101		K107		K101	-	K10/	
	K V V		K V V		K V V		K V V						K V V		K V V		1.10/1-		K V V		K V V	
	KVVN		ĸvvn		ĸvvn		ĸvvn		ĸvvn		ĸvvn		KVVN		ĸvvn		ĸvvn		ĸvvn		ĸvvn	
	1.3.07		1.3.67		1-107		1-147		1.3.07		1.3.07		1-3.47		1-347		1-3.47		1.3.67		1.3.07	
UPTON	KVV		KVV		KVV		KVV		KVV		KVV		KVV		KVV		ĸvv		K VV		K VV	
	кvvh		кvvh		кvVh	-	кVVh		кvVh		кvVh		кvvh		кvvh		кvVh		кvvh		кvvh	
VAN ZANDT	ĸvv		кVV	2.7	кvV		кW	14.9	κvv		кVV	88.2	ĸvv	11.8	кVV		ĸvv	5.9	кVV		кVV	
	кWh		кWh	11,424.0	кWh		кWh		кWh		кWh	311,587.9	кWh	53,286.2	кWh		кWh	11,440.0	кWh		кWh	
																	L					
WARD	kW		kW		kW		kW	43.1	kW		kW		kW		kW		kW		kW	3.4	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	6,173.7	kWh	
							L															
WICHITA	kW	26.5	kW		kW		kW	112.5	kW		kW	252.7	kW	32.3	kW	269.4	kW	155.1	kW	6.7	kW	
	kWh	58,845.9	kWh		kWh		kWh		kWh		kWh	560,952.6	kWh	241,669.4	kWh	519,424.0	kWh	306,787.5	kWh	10,478.9	kWh	

WILLIAM SON	kW		kW	12.5	kW		kW	112.6	kW	0.3	kW	24.8	kW	47.6	kW	334.7	kW	580.1	kW		kW	
	kWh		kWh	66,206.5	kWh		kWh		kWh	0.8	kWh	63,861.0	kWh	259,844.4	kWh	684,736.8	kWh	1,269,953.3	kWh		kWh	
WINKLER	kW		kW		kW		kW	-0.6	kW		kW		kW		kW		kW		kW	2.3	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	10,559.3	kWh	
MISE	K/M/		F101	11	F101		F/W	59.0	۲\\/		۲\\/	59	F/M	10.6	F101	67.1	K)//	9.4	K)//		K)//	
WIGE	kWh		kWh	3,961.2	kWh		kWh	58.0	kWh		kWh	11,976.4	kWh	69,714.2	kWh	129,344.0	kWh	16,128.0	kWh		kWh	
WOOD	kW		kW		kW		kW		kW		kW		kW		kW		kW		kW		kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh		kWh	
YOUNG	kW		kW		kW		kW	9.5	kW		kW		kW	60.6	kW		kW		kW	0.5	kW	
	kWh		kWh		kWh		kWh		kWh		kWh		kWh	329,256.6	kWh		kWh		kWh	1,190.2	kWh	
Total Sum of kW		7,640		392.23		1,849		4,886		60,017		30,137		8,712		7,859		4,687		2,153		496
Total Sum of kWh		20,135,627		2,225,065		15,975,618		-		180,050		74,366,440		50,595,032		17,253,019		10,286,966		3,915,584		3,809,470

APPENDIX B: PROGRAM TEMPLATES

Oncor has no new Program Templates for 2017.

APPENDIX C: LIST OF 2016 ENERGY EFFICIENCY SERVICE PROVIDERS

C1

2016 Energy Efficiency Service Providers

Commercial SOP (Custom)

Ally Energy Solutions, LLC **B3** Energy Consulting Blackhawk Equipment Corporation Bluestone Energy Services, LLC Building Energy Solutions & Tech., dba Bes-Tech, Inc. Byrd electric **Carrier** Corporation CEC Facilities Group, LLC cVal Innovations LLC Enabled Energy, Inc. Energy & Automation, Inc Entech Sales & Service Ex3 Facility Solutions, LLC Global Electrical Solutions, Inc. Greenleaf Energy Solutions LLC H & G Systems, L.P. Heat Transfer Solutions, Inc. Johnson Controls Inc Kevco Electrical Construction, Inc. KirEnergy Services LLC Mechanical Solutions, Inc MP2 Energy, LLC NexRev, Inc NORDCO, INC. Pepco Energy Services, Inc. PepsiCo Pflugerville ISD Rapid Power Management LLC Realwinwin, Inc. **ROI Energy Investments LLC** Schneider Electric Buildings Americas Inc Simple Power Systems LLC SmartWatt Energy Inc Smith Engineering PLLC Summers Group Inc **TDIndustries Telios** Corporation The Brandt Companies, LLC

C2

The Dannon Company, Inc. Trane TXU Energy Retail Company LLC US Energy Management Way Service LTD Waypoint Lighting LLC Wachter, Inc. Way Service LTD WESCO Distribution, Inc. Zoom Air, Inc.

Small Business Direct Install MTP

Lime Energy Services Company

Targeted Weatherization LI SOP

Texas Association of Community Action Agencies, Inc. Frontier Associates

Commercial Load Management SOP

Amerex Brokers LLC Bridgevue Energy Services, LLC Children's Health System of Texas Doskocil Manufacturing Company, Inc. EnerNOC, Inc. Enerwise Global Technologies, DBA CPower Innovari Market Solutions LLC L5E, LLC MJB Wood Group Murata Energy Solutions Americas North Texas Municipal Water District NRG Curtailment Solutions Inc PI Holdings Inc DBA Plastics Holdings Inc Tierpoint Texas LLC Verdigris Energy

HEE

1 Way Services AKA One Way Services A Better Insulation A Cooler House A Plus Energy Solution LLC **A&E HOME INSULATION** AAA Efficiency ACT Home Energy Specialists LP Affordable Solarscreens & Blinds Inc Agape electrical services llc Air Conditioning Pros Energy Services Aire Design Systems Inc. Allied Energy Savers AllSave Energy Solutions, LLC Alternatex Solutions, LLC Anderson Energy Services Area Wide Services, Inc. Arthur Hagar Corp **B & B TEXAS CONTRACTORS** B and D Efficiency Better Than Lights **Burson Services** Chuck Hart's Energy Connection Classica la fe Cole Air Conditioning Company Inc Conergy **D&R** Insulation D T Air Conditioning & Heating Inc, D&A Conservation, Inc Dallas Insulation LLC **DeRocher** Associates DES Dynamic Energy Solutions, LLC Designs By Marlene Duong Tran, LLC E2 Conservation E3 Solutions, LLC Ecoenergy Conservation Group, LLC ECOGREEN ENERGY SOLUTIONS Eden Energy Solutions, LLC **Electric Reducer** Energy Audits Of Texas ENERGY CONSERVATION CONCEPTS Energy Efficient Measures LLC

C3

Energy Improvements Energy Misers, Inc. **Energy Saver Pro** Excel 5-Star Energy Inc. Foamaster Insulation FREE Specialists, LLC Frontier Associates Garden of Eden **GNS Energy Efficiency** Gonzalez Insulation Green Conservation Green Leaf Corporation Green Start Energy Specialists **GREEN ZONE** GS CONSERVATION LLC HARLEN JOHNSON HEAT & AC CO. Hightower Service, Inc HML Energy Solutions LLC Hobson Air Conditioning Inc Home Electric Saving Home Energy Efficiency Home Energy Program Home Improvement Systems, Inc. Home Save Energy Honest Air Conditioning LLC Infinity Texas Mechanical Inc INSUL ATTIC CORPORATION JP Energy Conservation LONE STAR INSULATION LLC Lonestar Energy Solutions Lu and Sons Mascot Mechanical LLC Master Tech Service Corp Matts Home Sealers Milestone Electric Inc. Mueller Energy Conservation North Texas Air, LLC. NRG Conservation, Inc. DBA Energy Experts NRG Pros NRG Savers P D Construction Company dba Elect Saver Plan B Remodeling Systems

HEE continued -

Raiz RAYS EMERGENCY AC AND HEATING LLC Reliant Heating & Air Conditioning, Inc. Rescue Air, LLC River Co Samm's Heating and Air Conditioning San Miguel and Associates, Inc. Saving Energreen Houses, LLC Saving Energy Solutions LLC Signature Sales (Energy Project) **SRV** Solutions The Right Choice Heating & Air Inc TheGreenHomeMakeover.com Total Air and Heat Co TRANSOFT CORPORATION LLC Tuffy's Air Conditioning & Heating Service Inc. TXE Solutions LLC DBA Service City Electric Victor Reyes W&B, Inc. dba ALL SERVICE HEATING AND AIR Yella Rose Development Corporation

C4

Residential Demand Response MTP

Direct Energy Services, LLC Earth Networks, Inc. Just Energy (U.S.) Corp Reliant Energy Retail Services, LLC

Healthcare MTP

Willdan Energy Solutions

Commercial Solar PV SOP

512 Solar, LLC Able Electric Advent Systems INC., DBA SolarTechs AffordaSolar Inc Alba Energy LLC Amos Electric Supply, Inc. AT&T Services Inc Axium Solar Inc. Aztec Renewable Energy, Inc Brightergy, LLC Byrd electric Circular Solar, Inc. DBA Circular Energy City of Dallas **CRsolar Energy Solutions / CR-Invent LLC** Davis Electric Co. DFW SOLAR ELECTRIC, LLC Ecolectrics LLC **Ecological Estates LLC** Energy One LLC Entero Energy LLC Freedom Solar LLC Good Faith Energy GoSolarGo, Inc. Green Ox Energy Solutions, LLC Green Wolf Energy Inc Greenbelt Solar LLC GreenLife Technologies, Inc. Guardian Exteriors, Inc. HEB Grocery Company, LP Hobson Air Conditioning Inc Holtek Enterprises Inc. dba Holtek Solar INFINITY SOLAR SOLUTIONS LLC KOHL'S Department Stores, Inc. Lighthouse Solar Austin Longhorn Solar Major Solar & Electrical Services Meridian Solar, Inc. Native Inc NCH Corporation

C5

New Day Energy, LLC NRG RESIDENTIAL SOLAR SOLUTIONS Performance Contracting Inc **REC Solar Commercial Corporation** Revolve Solar LLC RonRush Investment dba Universal Solar System Self Reliant Solar LLC Simple Power Systems LLC SoCore Installation Services LLC Solar CenTex LLC Solar Haven Energy L L C SolarCity Corporation SolarLife Technology LLC Solarview Inc Sun City Solar Energy-North Texas LLC SunPower Corporation, Systems Target Corp Texas Responsible Energy & Efficiency Texas Sun Power LLC **Texoma Energy Solutions** The Energy Shop, Inc. **Trusted Energy Services** Wells Solar & Electrical Services LLC

Residential Solar

1st Choice Energy, LLC 512 Solar, LLC Able Electric Abundant Solar LLC Advent Systems INC., DBA SolarTechs AffordaSolar Inc Alba Energy LLC Altitude Marketing DBA AC Solar Solutions Amos Electric Supply, Inc. APEX HOME ENERGY SAVINGS LLC Axium Solar Inc. Aztec Renewable Energy, Inc Byrd Electric Circle L industries CRsolar Energy Solutions / CR-Invent LLC Davis Electric Co. DFW SOLAR ELECTRIC, LLC Diversified Solar Solutions, LLC **Ecolectrics LLC** Ecological Estates LLC Energy One LLC Fisher Renewables LLC Freedom Solar LLC Global Efficient Energy, LLC Good Faith Energy GoSolarGo, Inc. Green Ox Energy Solutions, LLC Green Wolf Energy Inc Greenbelt Solar LLC GreenLife Technologies, Inc. Guardian Exteriors, Inc. GWTW Renewables LLC DBA That Solar Company HEsolar LLC Hobson Air Conditioning Inc Holtek Enterprises Inc. dba Holtek Solar INFINITY SOLAR SOLUTIONS LLC Lighthouse Solar Austin Longhorn Solar Major Solar & Electrical Services Max Electric Native Inc

C6

Longhorn Solar Major Solar & Electrical Services Max Electric Native Inc New Day Energy, LLC Now Energy LLC NRG RESIDENTIAL SOLAR SOLUTIONS PetersenDean Texas INC **Revolve Solar LLC** RonRush Investment dba Universal Solar System Second Energy LLC Self Reliant Solar LLC Simple Power Systems LLC Solar CenTex LLC Solar Haven Energy L L C Solar Side Up LLC Solarch Integration LLC SolarCity Corporation SolarLife Technology LLC SOLARTEK ENERGY OF AUSTIN Solarugreen Corporation Solarview Inc Speir Innovations LLC Sun City Solar Energy-North Texas LLC Sunvergence Energy, LLC. Sustainable Services LLC Texas Responsible Energy & Efficiency Texas Solar Power Company Texas Sun Power LLC **Texoma Energy Solutions** The Energy Shop, Inc. Tower Association Crue **Trusted Energy Services** Vision Solar LLC Wells Solar & Electrical Services LLC

Hard-to-Reach SOP

1 Way Services AKA One Way Services 5 Star Energy Savers A Better Insulation A Cooler House A Plus Energy Solution LLC **A&E HOME INSULATION** AAA Efficiency ACT Home Energy Specialists LP Allied Energy Savers AllSave Energy Solutions, LLC Anderson Energy Services **B & B TEXAS CONTRACTORS** B and D Efficiency Bearwall Energy Efficient Solutions LLC Better Than Lights **Burson Services** Chuck hart's energy connection Classica la fe Conergy D&A Conservation, Inc Dallas Insulation LLC **DeRocher** Associates DES Dynamic Energy Solutions, LLC **Designs By Marlene** E3 Solutions, LLC Ecoenergy Conservation Group, LLC Eden Energy Solutions, LLC **Electric Reducer Energy Audits Of Texas** ENERGY CONSERVATION CONCEPTS **Energy Efficient Measures LLC Energy Improvements** Energy Misers, Inc. Energy Saver Pro Excel 5-Star Energy Inc. FREE Specialists, LLC Garden of Eden **GNS Energy Efficiency** Gonzalez Insulation Green Conservation

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Green Start Energy Specialists **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 JP Energy Conservation LONE STAR INSULATION LLC Lonestar Energy Solutions Lu and Sons Mueller Energy Conservation NRG Conservation, Inc. DBA Energy Experts **NRG** Pros NRG Savers NRG Savers P D Construction Company dba Elect Saver Plan B Remodeling Systems River Co San Miguel and Associates, Inc. Saving Energreen Houses, LLC Saving Energy Solutions LLC Signature Sales (Energy Project) SRV Solutions TheGreenHomeMakeover.com TXE Solutions LLC DBA Service City Electric Victor Reyes Yella Rose Development Corporation

Commercial SOP (Basic)

7-Eleven Inc 9G Energy A Better Insulation A Cooler House ADA Lighting Group Inc Advanced E Lighting LLC dba Advanced Energy Rec. Aelux, LLC AERC of Texas, LLC Agape electrical services llc All Phase Electric Ally Energy Solutions, LLC Ameresco Dallas LLC American Energy Efficiencies Inc. American Wholesale Lighting Inc. Amerlight LLC Amos Electric Supply, Inc. Area Wide Services, Inc. ARIES CORPORATION Bambu Energy Blue Heeler Electric, LLC **BNSF** Railway Company Brazos Electric Power Cooperative, Inc. Bright Star Energy Management, LLC Brookshire Grocery Co Capstone Mechanical LP Carrier Corporation CEC Facilities Group, LLC Chaparral Baptist Assembly, INC. Chateau Energy Solutions LLC Cho's electric inc City of Temple, Texas City Park Construction, LLC Cole Air Conditioning Company Inc Columbia Med. Center of Arlington Subsidiary, L.P. Consolidated Edison Solutions Inc Crescent Electric Supply Company CSM Curtis H. Stout, Inc. Custom Performance Contracting, LLC **CVal Innovations LLC**

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Davis Electric Co. Delta T Corporation dba Big Ass Solutions **Discalced Carmelite Nuns** E-TEX ENERGY SOLUTIONS LLC E3 Entegral Solutions Inc E4 Lighting LLC East Texas Lighthouse for the Blind Eden Energy Solutions, LLC Eden Trading INC **EES** Consulting Efficient Facilities International Inc. **Energy Design Service Systems** Energy Management Collaborative, llc Energy Partners Alliance, LLC Entech Sales & Service Envirolite LLC Environmental Lighting Service, LLC Essential Lighting Solutions, Inc. Estes, McClure & Associates, Inc. **Facility Solutions Group** FacilitySource, LLC Graybar Electric Company, Inc. Green Energy Texas Tech Green Light Southwest Green Ox Energy Solutions, LLC Groom Energy Solutions LLC Grubbs Nissan Mid-Cities, Ltd Hargis Electric LLC. Harrison, Walker & Harper, LP HEB Grocery Company, LP Home Improvement Systems, Inc. Hulen Mall, LLC Hurst Electric, LP Hurst Euless Bedford Independent School District Independent Lighting Solutions, LLC Intelligent Energy Solutions, LLC JBI ELECTRICAL SYSTEMS, INC Johnson Controls Inc JSK Ventures, LLC Killeen Independent School district

Commercial SOP (Basic) continued-

KirEnergy Services LLC KMH Ventures, LLC kWik Energy Solutions, LLC Landlord Utility Mgmt. LLC dba JEC Energy Saving Learning Care Group, Inc LightSource Unlimited Linda Gregory, LLC dba Energy Saving Strategies Lochridge-Priest, Inc. Lonestar energy solutions Maneri~Agraz Enterprises, Ltd. Mark Henderson Electric Inc. McKinstry Essention, LLC MD Engineering LP,LLP Mechanical Solutions, Inc MEP Consulting Engineers, Inc. MHSC Energy Management LLC Mills Systems Solutions Monterey Energy, Inc. MP2 Energy, LLC National Retrofitting Group, LLC Newfit Dallas Ltd Next Step Energy Solutions NORDCO, INC. North Coast Lighting Service North East Mall NRG Conservation, Inc. DBA Energy Experts OnPoint, LLC OpTerra Energy Services, Inc. P D Construction Company dba Elect Saver Pacific Energy Concepts LLC PDI Green Technology Pepco Energy Services, Inc. PepsiCo Performance Services, Inc. Pflugerville ISD Ponder ISD PR/Crow Penn Distribution, LP PRO Electric & Lighting, LLC Product Support Services, Inc. ProSource Power LLC

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R.K. Bass Electric, Inc. RaceTrac Petroleum, Inc Rapid Power Management LLC RE-Energy, LLC Realwinwin, Inc. Reed, Wells, Benson and Company Regency Enterprises Inc. dba Regency Lighting San Miguel and Associates, Inc. Schneider Electric Buildings Americas Inc Scott-Del Electric, Inc. SIEMENS INDUSTRY, INC. SK electric.inc SmartWatt Energy Inc Solar CenTX DBA Energy Solutions of Texas Southpoint Solutions, LLC Southwest Energy Solutions Spark Lighting, LLC Spirit Foundation St. Ann Catholic Parish Stephenville City Electric Inc Summers Group Inc Summit Energy Services, Inc. Superior Group LLC Sylvania Lighting Services TDIndustries Texal Energy LLC Texas Sun Power LLC The Brandt Companies, LLC The Ogni Group Top Quality Heating & Air Town North Presbyterian Church Trammell Bell, llc Trane TravelCenters of America LLC Trinity Christian Academy TRINITY ELECTRIC SUPPLY CO., LLC Trinity Lighting and Electrical Services Triton Supply TXU Energy Retail Company LLC US Energy Management

Commercial SOP (Basic) continued-

US Total Green Light LLC dba PT LED Voss Lighting WALKER AC AND HEATING INC Walmart Stores Way Service LTD WESCO Distribution, Inc. WLS Lighting Systems Wylie Independent School District YES LED Lighting, Inc Zoom Air, Inc.

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