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# **2016 Energy Efficiency Plan and Report**

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

# April 1, 2016

Project No. 45675

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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 2015 achievements, and reports plans for achieving 2016 and 2017 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 2015 and Oncor's plans for achieving its 2016 and 2017 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 (2011-2015).
- Section VI compares Oncor's projected energy and demand savings to its reported and verified savings by program for calendar year 2015.
- Section VII details Oncor's incentive and administration expenditures for the previous five years (2011-2015) broken out by program for each customer class.
- Section VIII compares Oncor's actual and budgeted program costs from 2015 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 2015 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 2015 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 2016 program year and a 30% reduction for the 2017 program year. Oncor will also address the corresponding energy savings goal, which is calculated from its demand savings goal using a 20% conversation 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 2015 Oncor successfully implemented SOPs and MTPs, as required by PURA §39.905, that met Oncor's 30% energy efficiency savings goal by procuring 115,808 kW in demand savings. These programs included the Home Energy Efficiency SOP, Commercial SOP, Hard-to-Reach SOP, Targeted Weatherization Low-Income SOP, Commercial Solar Photovoltaic Installation SOP, Residential Solar Photovoltaic Installation SOP, Small Business Direct Install MTP, Commercial Load Management SOP, and the Residential Demand Response Pilot 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)
2016	247.2	30%	69.4	121,589	88.6	138.1	225,783	\$60,941
2017	235.4	30%	69.4	121,589	89.4	145.8	208,513	\$49,179

Table 1: Summary of Goals, Projected Savings, and Projected Budgets<sup>1</sup>

The 2017 Demand Goal is actually 65.9 MW when calculated per the EE Rule (235.4 MW x 30% annual growth in demand reduction) x (1-. 06653 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 2017 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 and add the Healthcare MTP in 2016.

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.

<sup>&</sup>lt;sup>1</sup> 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. 2016 Programs

#### A. 2016 Program Portfolio

Oncor plans to implement 11 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	Retrofit; New Construction	
Residential Solar Photovoltaic Installation SOP	Residential	Retrofit	
Residential Demand Response Pilot SOP	Residential	Load Management	
Healthcare MTP	Commercial	Retrofit; New Construction	

#### **Table 2: 2016 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 <u>https://www.oncoreepm.com/</u>. 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 <u>http://www.takealoadofftexas.com/</u>.

#### **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<sup>®</sup> 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 2016 budget for the Custom Component of the Commercial SOP is \$2,816,576 with targeted impacts of 3,940 kW and 17,530,789 kWh.

**Basic** – The Basic Component of the Commercial SOP targets commercial customers with new or retrofit projects that do not require measurement and verification who install approved energy efficiency measures in business, government, educational, nonprofit, and worship facilities in Oncor's service area. These include, but are not limited to, lighting, air conditioning, ENERGY STAR<sup>®</sup> 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 2016 budget for the Basic Component of the Commercial SOP is \$7,476,053 with targeted impacts of 12,210 kW and 64,972,658 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 2016 budget for this program is \$17,138,305 with targeted impacts of 34,068 kW and 90,356,387 kWh.

The most common energy-efficient measures installed in the HEE SOP are attic insulation, duct sealing, and caulking/weather-stripping around doors and windows. Energy Efficiency Service Providers must test for air leakage before and after installation when performing the duct sealing and weather-stripping measures. Other eligible energy-efficient measures include replacement of air conditioning units, heat pumps, and installation of ENERGY STAR<sup>®</sup> windows, refrigerators, dishwashers, clothes washers, wall insulation, floor insulation, and water heater jackets.

#### 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 duct sealing, insulation, weather-stripping and caulking are installed at low or no cost to the customer. Oncor provides the incentive directly to the Service Provider. The 2016 budget for this program is \$6,598,141 with targeted impacts of 6,929 kW and 17,145,309 kWh. Qualifying measures are similar to those described above for the HEE SOP, as well as water-saving devices and Compact Fluorescent Lighting (CFLs).

#### **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 2016.

#### **Commercial Load Management Standard Offer Program (CLM SOP)**

The CLM SOP targets commercial customers with demands greater than 100 kW. 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 2016 budget for this program is \$2,688,000 with targeted impacts of 60,000 kW and 252,288 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 and new construction commercial customer structures. Incentives are paid to Energy Efficiency Service Providers on the basis of standardized savings values or formulas ("Deemed Savings"). The 2016 budget for the CSPV SOP is \$8,236,052 with targeted impacts of 6,325 kW and 12,189,540 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 2016 budget for the RSPV SOP is \$5,052,635 with targeted impacts of 3,500 kW and 7,358,400 kWh.

#### Small Business Direct Install MTP (SBDI MTP)

Oncor's Small Business Direct Install SBDI 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. 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 2016 budget for the SBDI MTP is \$1,767,807 with targeted impacts of 1,423 kW and 6,656,171 kWh.

#### **Targeted Weatherization Low-Income SOP**

For the 2016 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 commission-approved deemed savings. The cost-effectiveness of measures eligible to be installed and the overall program shall be evaluated using the Savings-to-Investment (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 Subrecipient 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 10% program administration fee paid to TACAA. Federally funded Subrecipient 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, duct improvement, floor insulation, ENERGY STAR<sup>®</sup> refrigerators and ENERGY STAR<sup>®</sup> windows, showerheads, solar screens, window air conditioning units, wall insulation, water heater jackets and water heater pipe insulation.

The 2016 budget for this program is 6,088,236 with targeted impacts of 1,805 kW and 2,079,345 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<sup>®</sup> refrigerators, solar window screens, wall insulation, CFLs, water heater jackets and ENERGY STAR<sup>®</sup> 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 and/or testing fees from homes that did not qualify for installed measures based on the assessment.

#### **Residential Demand Response Pilot SOP**

Oncor's Residential Demand Response Pilot SOP is designed to explore residential demand response capabilities as a means to reduce peak electric demand. In 2016, the program will engage provider's to test the demand response capabilities of remotely controlled load control devices in single family homes. The providers will use various control strategies, such as pre-cooling and cycling to reduce overall demand during the peak period. In addition to the 2015 vendor, three Retail Electric Providers have indicated that they will participate in the 2016 program. The intent of adding additional participants in 2016 is to test various control strategies, and ensure that Oncor can manage larger AMI datasets.

The Program is intended to: (1) demonstrate the usefulness of residential demand response as a means to curtail peak demand, (2) evaluate customer reactions to various control strategies, (3) measure and verify demand and energy savings and (4) evaluate customer participation and persistence. Implementation will occur in the Oncor service territory and target single family residential homes with central air conditioning. 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 2016 Program demand

reduction goal is 6,500 kW with a budget of \$377,343. Although some energy savings may be achieved, none will be claimed from the 2016 Program. If 2016 program results are successful, the program will open as a Standard Offer Program in 2017.

#### **Research and Development**

During 2016, Oncor will continue collaboration with the General Services Administration Green Proving Ground (GSA). Annually, the GSA issues an RFI for vendors to submit new energyefficient 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. Participation in this program provides Oncor with a pipeline of technologies for future programs.

Additionally, Oncor will continue its membership in the Texas Energy Poverty Research Institute (TEPRI) for 2016. 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 2016, 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 2016

#### Healthcare MTP

The Healthcare MTP provides incentives to program participants who install approved energy efficiency measures in healthcare-related facilities in the Oncor service area. This includes, but is not limited to, healthcare customers such as hospitals, clinics, healthcare offices, laboratories and healthcare data centers. Program participants are eligible to receive services such as facility benchmarking, energy assessments, retro-commissioning (RCx) studies, project recommendations, savings estimates, technical assistance, and measurement & verification (M&V) assistance. Monetary incentives are paid for eligible energy efficiency projects that are completed through the program. Eligible projects may include lighting installations, high efficiency chillers, data center virtualization, high efficiency motors, and variable frequency drives.

For more details on this program, please see Appendix B.

## **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 2015 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 31.4%. According to the U.S. Census Bureau's 2015 Current Population Survey (CPS), 31.4% 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 902,896. 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	441,437*
Residential	1,972,568
Hard-to-Reach	902,896
Total	3,316,901

 Table 3: Summary of Customer Classes

\* Customer count takes into account 2,581 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 December 31, 2016 goal reflects the average annual growth in peak demand from 2010 to 2014. The demand goals are based on meeting 30% of the electric utility's annual growth in demand of residential and commercial customers for the 2015, 2016 and 2017 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 2016 and 2017. The program-level goals presented in Table 5 are at the meter and take into account transmission and distribution line losses of 6.653%.

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	Pea	k Demand (	MW) (at Sot	lrce)	Energy	Consumpti	on (MWh) (at	: Meter)	Resid⁄ Comn	ential & Jercial
Calendar Vaar	Total (	System	Resid( Comn	ential & nercial	Total S	ystem	Reside Comm	ntial & vercial	Growth (MW)	Avg (MW) Growth
5	Actual	Actual Weather Adjusted <sup>2</sup>	Actual	Actual Weather Adjusted <sup>2</sup>	Actual	Actual Weather Adjusted <sup>2</sup>	Actual	Actual Weather Adjusted <sup>2</sup>	Actual Weather Adjusted	Actual Weather Adjusted <sup>2</sup>
2011	25,660	24,686	24,610	23,636	113.836.638	106.782.934	104 135 429	97 081 725	497	AN
2012	24,933	24,715	23,800	23,582	110.370.554	109.019.934	100.351 162	99 000 542	-54	NA
2013	24,502	25,095	23,378	23.971	112.312.279	111 791 813	101 919 737	90 104 671		245.5
2014	23,788	25,720	22,343	24,275	114.905.829	113.939.185	101 640 875	100 674 230	202	0 240
2015	25,139	25,791	23,663	24,315	116.594.625	116.554.605	103 080 726	103 040 706		235.4
2016 <sup>3</sup>	NA	AN	AN	NA	NA	NA	NA	NA	NA	NA
2017 <sup>3</sup>	NA	AN	ΑN	NA	NA	NA	NA	NA	NA	NA
* Table 4 values Additional va	s can differ from	m prior years du changing the w	e to restatemer eather adjustm	nt of historic denter the termination of the second s	mands from a m	ethod based on ERCOT Settlen	4CP demand to tent method.	using ERCOT S	Settlement inte	erval data.

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<sup>&</sup>lt;sup>2</sup> "Actual Weather Adjusted" Peak Demand and "Energy Consumption" are adjusted for weather fluctuations using weather data for the most recent ten years. <sup>3</sup> "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 2016 and 2017 are not applicable.

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

	2016 Projec	cted Savings	2017 Proiec	ted Savings
<b>Customer Class and Program</b>	(kW)	(kWh)	(kW)	(kWh)
Commercial	85,284	108,844,014	76,479	112,768,790
Commercial SOP	16,150	82,503,447	15,301	81,185,419
Emergency Load Management SOP	0	0	0	0
Commercial Load Management SOP	60,000	252,288	55,000	165,000
Small Business Direct Install MTP	1,423	6,656,171	1,934	7,917,695
Solar PV SOP	6,325	12,189,540	2,840	11,632,080
Healthcare MTP	1,386	7,242,568	1,404	11,868,596
Residential	44,068	97,714,787	60,390	75,209,471
Home Energy Efficiency SOP	34,068	90,356,387	26,394	70,365,671
Solar PV SOP	3,500	7,358,400	1,096	4,646,400
Residential Demand Response Pilot SOP	6,500	0	32,900	197,400
Hard-to-Reach	8,734	19,224,654	8,906	20,534,667
Hard-to-Reach SOP	6,929	17,145,309	7,388	17,797,136
Targeted Weatherization Low-Income SOP	1,805	2,079,345	1,518	2,737,531
Total Annual Savings Goals	138,086	225,783,455	145,775	208,512,928

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#### **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, EEPM (tracking and reporting system), program development, program implementation, and regulatory reporting (EEPR and EECRF). 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.

2016 Customer Class and Program	Incentives	Administration	Total Budget
Commercial	\$22,103,673	\$2,433,348	\$24,537,021
Commercial SOP	\$9,120,125	\$1,172,504	\$10,292,629
Emergency Load Management SOP	\$0	\$0	\$0
Commercial Load Management SOP	\$2,400,000	\$288,000	\$2,688,000
Solar PV SOP	\$7,625,974	\$610,078	\$8,236,052
Small Business Direct Install MTP	\$1,571,384	\$196,423	\$1,767,807
Healthcare MTP	\$1,386,190	\$166,343	\$1,552,533
Residential	\$20,071,107	\$2,497,176	\$22,568,283
Home Energy Efficiency SOP	\$15,302,058	\$1,836,247	\$17,138,305
Solar PV SOP	\$4,432,136	\$620,499	\$5,052,635
Residential Demand Response Pilot SOP	\$336,913	\$40,430	\$377,343
Hard-to-Reach	\$11,425,957	\$1,260,420	\$12,686,377
Hard-to-Reach SOP	\$5,891,197	\$706,944	\$6,598,141
Targeted Weatherization Low-Income SOP	\$5,534,760	\$553,476	\$6,088,236
Research & Development*	\$0	\$500,000	\$500,000
Evaluation, Measurement & Verification**	\$0	\$649,617	\$649,617
Total Budgets by Category	\$53,600,737	\$7,340,561	\$60,941,298
Customer Class and Program	Incentives	Administration	Total Budget
Commercial	\$17,200,900	\$2,683,570	\$19,884,470

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

Total Budgets by Category	\$42,677,740	\$6,500,980	\$49,178,720
Evaluation, Measurement & Verification**	\$0	\$0	\$0
Research & Development*	\$0	\$310,000	\$310,000
Targeted Weatherization Low-Income SOP	\$4,456,140	\$579,300	\$5,035,440
Hard-to-Reach SOP	\$5,761,210	\$806,570	\$6,567,780
Hard-to-Reach	\$10,217,350	\$1,385,870	\$11,603,220
Residential Demand Response SOP	\$1,316,000	\$184,240	\$1,500,240
Solar PV SOP	\$1,479,380	\$192,320	\$1,671,700
Home Energy Efficiency SOP	\$12,464,110	\$1,744,980	\$14,209,090
Residential	\$15,259,490	\$2,121,540	\$17,381,030
Healthcare MTP	\$1,779,160	\$249,080	\$2,028,240
Small Business Direct Install MTP	\$1,822,390	\$255,130	\$2,077,520
Solar PV SOP	\$2,572,840	\$360,200	\$2,933,040
Commercial Load Management SOP	\$2,200,000	\$308,000	\$2,508,000
Emergency Load Management SOP	\$O	\$0	\$0
Commercial SOP	\$8,826,510	\$1,511,160	\$10,337,670

\* 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 2016 are projected expenditures Oncor will incur in 2016 for completing review of Program Year 2015. An additional \$87,652 was spent in 2015 for review of Program Year 2015. EM&V costs shown for 2017 are projected expenditures Oncor will incur in 2017 for EM&V of 2016 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 (2011-2015) 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)
2015 4	69.4	110.3	197,436	115.8	178,908
2014 5	69.4	120.9	209,595	125.3	202,105
2013 6	54.6	118.4	234,471	112.7	224,666
2012 7	53.1	99.2	193,650	129.5	194,827
2011 <sup>8</sup>	53.1	95.2	227,022	75.0	209,973

 Table 7: Historical Demand Savings Goals and Energy Targets

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> Projected MW Savings and Project No. 11160. Includ Demand Goal as discussed in Table 4. (EEPR) filed in April of 2014 under Project No. 42264. Actual Demand Goal as discussed in Table 4.

<sup>&</sup>lt;sup>6</sup> 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.
<sup>7</sup> Projected MW Savings and Deviated Energy Savings as reported in the 2013 Energy Efficiency Plan & Report

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> Projected MW Savings and Projected Energy Savings as reported in the 2011 Energy Efficiency Plan & Report (EEPR) filed in April of 2011 under Project No. 39105. Actual Demand Goal as discussed in Table 4.

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2015 * * * *	Projected Savings 101 2015 and 2014 (at Meter)				
		LWL			
Commercial	76 725	80 960 060	- KVV		
	10,735	10,040,704	74,147	90,342,021	
	4,402	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	
		the second	Reported and Verified Savings		
2014 <sup>10</sup> *	Projecte	d Savings	Reported and V	/erified Savings	
2014 <sup>10</sup> Customer Class and Program	Projecte kW	d Savings kWh	<sup>®</sup> Reported and V kW	/erified Savings kWh	
2014 <sup>10</sup> Customer Class and Program Commercial	Projecte kW 87,937	d Savings kWh 103,184,188	<sup>®</sup> Reported and V kW 80,110	/erified Savings kWh 88,104,999	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom)	Projecte kW 87,937 6,036	d Savings kWh 103,184,188 26,910,354	*Reported and V kW 80,110 3,701	Verified Savings kWh 88,104,999 22,321,309	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic)	Projecte kW 87,937 6,036 12,993	d Savings kWh 103,184,188 26,910,354 57,926,810	*Reported and V kW 80,110 3,701 9,114	Verified Savings kWh 88,104,999 22,321,309 47,855,098	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP	Projecte kW 87,937 6,036 12,993 0	d Savings kWh 103,184,188 26,910,354 57,926,810 0	*Reported and V kW 80,110 3,701 9,114 0	Verified Savings KWh 88,104,999 22,321,309 47,855,098 0	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP	Projecte kW 87,937 6,036 12,993 0 60,000	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0	*Reported and V kW 80,110 3,701 9,114 0 59,245	KWh           88,104,999           22,321,309           47,855,098           0           190,543	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0 15,722,024	*Reported and V kW 80,110 3,701 9,114 0 59,245 6,932	Verified Savings kWh 88,104,999 22,321,309 47,855,098 0 190,543 12,818,936	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0 15,722,024 2,625,000	*Reported and V kW 80,110 3,701 9,114 0 59,245 6,932 1,118	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Solar PV SOP Small Business Direct Install MTP Residential	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0 15,722,024 2,625,000 76,101,222	*Reported and V kW 80,110 3,701 9,114 0 59,245 6,932 1,118 35,118	Verified Savings kWh 88,104,999 22,321,309 47,855,098 0 190,543 12,818,936 4,919,113 89,664,570	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828 21,500	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0 15,722,024 2,625,000 76,101,222 69,685,800	*Reported and V kW 80,110 3,701 9,114 0 59,245 6,932 1,118 35,118 30,794	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113           89,664,570           81,868,628	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP Solar PV SOP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828 21,500 3,328	d Savings kWh 103,184,188 26,910,354 57,926,810 0 0 15,722,024 2,625,000 76,101,222 69,685,800 6,415,422	* Reported and V kW 80,110 3,701 9,114 0 59,245 6,932 1,118 35,118 30,794 4,227	Verified Savings kWh 88,104,999 22,321,309 47,855,098 0 190,543 12,818,936 4,919,113 89,664,570 81,868,628 7,494,188	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP Solar PV SOP Air Conditioning MTP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828 21,500 3,328 0	kWh         103,184,188         26,910,354         57,926,810         0         0         15,722,024         2,625,000         76,101,222         69,685,800         6,415,422         0	Reported and V         kW         80,110         3,701         9,114         0         59,245         6,932         1,118         35,118         30,794         4,227         97	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113           89,664,570           81,868,628           7,494,188           301,754	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP Solar PV SOP Air Conditioning MTP Hard-to-Reach	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828 21,500 3,328 0 8,160	kWh         103,184,188         26,910,354         57,926,810         0         0         15,722,024         2,625,000         76,101,222         69,685,800         6,415,422         0         30,310,000	Reported and V           kW           80,110           3,701           9,114           0           59,245           6,932           1,118           35,118           30,794           4,227           97           10,053	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113           89,664,570           81,868,628           7,494,188           301,754           24,335,566	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP Solar PV SOP Air Conditioning MTP Hard-to-Reach Hard-to-Reach SOP	Projecte kW 87,937 6,036 12,993 0 60,000 8,158 750 24,828 21,500 3,328 0 8,160 6,500	kWh         103,184,188         26,910,354         57,926,810         0         0         15,722,024         2,625,000         76,101,222         69,685,800         6,415,422         0         30,310,000         25,110,000	Reported and V         kW         80,110         3,701         9,114         0         59,245         6,932         1,118         35,118         30,794         4,227         97         10,053         7,978	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113           89,664,570           81,868,628           7,494,188           301,754           24,335,566           20,450,231	
2014 <sup>10</sup> Customer Class and Program Commercial Commercial SOP (Custom) Commercial SOP (Basic) Emergency Load Management SOP Commercial Load Management SOP Solar PV SOP Small Business Direct Install MTP Residential Home Energy Efficiency SOP Solar PV SOP Solar PV SOP Air Conditioning MTP Hard-to-Reach Hard-to-Reach SOP Targeted Weatherization LI SOP	Projecte           kW           87,937           6,036           12,993           0           60,000           8,158           750           24,828           21,500           3,328           0           6,500           1,660	kWh         103,184,188         26,910,354         57,926,810         0         0         15,722,024         2,625,000         76,101,222         69,685,800         6,415,422         0         30,310,000         25,110,000         5,200,000	Reported and V           kW           80,110           3,701           9,114           0           59,245           6,932           1,118           35,118           30,794           4,227           97           10,053           7,978           2,075	KWh           88,104,999           22,321,309           47,855,098           0           190,543           12,818,936           4,919,113           89,664,570           81,868,628           7,494,188           301,754           24,335,566           20,450,231           3,885,335	

VI. Projected, Reported and Verified Demand and Energy Savings Table 8: Projected versus Reported and Verified Savings for 2015 and 2014<sup>9</sup> (of N

 <sup>&</sup>lt;sup>9</sup> Projected Savings totals for 2015 and 2014 from Table 7. Reported Savings may not add due to rounding.
 <sup>10</sup> Reported and Verified Savings data for 2014 taken from EEPR, Project 44480.

VII. Historical Program Expenditures This section documents Oncor's incentive and administration expenditures for the previous five years (2011-2015) broken out by program for each customer class.

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	Incentive (\$)	Admin (\$)								
Commercial	16,348,143	2,405,110	19,377,464	2,165,471	19,551,051	1,839,924	18,664,020	2,563,706	18,800,971	1,818,333
Solar PV SOP	4,815,294	489,580	8,836,015	982,403	3,690,362	191,731	NA	NA	NA	NA
Commercial SOP	NA	NA	AN	NA	NA	NA	NA	NA	10,786,990	650,793
Commercial SOP (Custom)	1,457,162	299,232	2,096,336	255,912	2,174,265	225,750	6,893,602	1,136,211	NA	NA
Emergency Load Management SOP	0	0	0	0	0	0	0	0	0	0
Commercial Load Management SOP	2,196,080	204,745	2,369,800	218,750	2,200,000	219,024	3,393,960	415,550	839,610	229,983
Educational Facalities MTP	NA	NA	AN	NA	4,433,441	435,851	3,820,735	439,693	4,383,960	357,774
Government Facilities MTP	NA	NA	NA	NA	1,362,956	135,036	1,289,202	154,081	1,288,010	196,093
Small Business Direct Install MTP	1,784,748	151,836	1,339,022	122,469	103,916	9,843	NA	NA	NA	NA
Small Commercial SOP	NA	NA	NA	NA	NA	NA	NA	NA	1,037,421	217,207
Commercial SOP (Basic)	6,094,859	1,259,717	4,736,291	585,937	5,265,440	588,785	3,023,424	388,632	NA	NA
Air Conditioning MTP	NA	NA	NA	NA	320,671	33,904	243,097	29,539	464,980	166,483
Residential	13,659,678	1,911,756	18,237,838	2,008,173	18,444,393	2,130,467	11,141,966	1,578,061	8,848,028	1,440,485
Home Energy Efficiency SOP	10,005,295	1,435,699	12,950,424	1,474,757	13,564,608	1,624,208	10,007,239	1,437,642	6,731,824	783,646
ENERGY STAR <sup>®</sup> Homes MTP	NA	NA	NA	AN	NA	AN	472,500	58,194	986,050	180,168
Solar PV MTP	3,414,383	456,130	5,219,930	527,249	4,152,680	429,265	NA	NA	NA	NA
Air Conditioning MTP	AN	AN	67,484	6,167	727,105	76,994	756,497	92,502	992,320	197,106
Residential Demand Response MTP	240,000	19,927	ΥN	NA	NA	AN	AN	NA	7,768	137,612
ENERGY STAR <sup>®</sup> Low Rise MTP	NA	AN	AN	AN	AN	AN	(94,270)	(10,277)	130,066	141,953

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Oncor

Hard-to-Reach	11,653,832	1,327,473	12,495,958	1,281.622	12.731.505	1.392.930	13 137 110	1 607 083	13 896 076	1 200 127
								000,000,0	040,000,01	101,002,1
Hard-to-Reach SOP	6,004,832	849,060	6,499,328	732,039	6,941,505	841,064	8,206,413	1,145,918	9,478,765	974.243
I arget Weatherization (known as TDHCA in 2005 & 2007)	5,649,000	478,413	5,996,630	549,583	5.790.000	551.866	4 930 697	552 065	4 407 261	314 004
								000,400	107' 101'1	014,034
Total Program Expenditures	41,661,653	5,644,339	50,111,260	5,455,266	50,726,949	5,363,321	42,943,096	5,839,750	41,535,025	4,547,955

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#### VIII. Program Funding for Calendar Year 2015

Oncor exceeded its 2015 mandated demand goal of 69.4 MW by obtaining 115.8 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 \$50,414,423.

The Small Business Direct Install MTP exceeded the 2015 budget due to a reallocation of commercial funding to the program to accommodate the high demand in the small business market. The additional incentives were reallocated from the Commercial SOP, which was not performing at the projected level.

The **Commercial SOP** (**Custom**) was under budget in 2015 due to \$396,000 in incentives committed but not expended during the year and because several large projects totaling \$464,000 in committed incentives underperformed after final M&V data was reviewed and approved. Incentive funding was reallocated from the Commercial SOP (Custom) to the Small Business Direct Install MTP.

	Numbers of Customer Meters	Total Projected Budget <sup>11</sup>	Actual Funds Expended (Incentives)	Actual Funds Expended (Admin)**	Total Funds Expended	Funds Committed (Not Expended)	Funds Remaining (Not Committed)
Commercial	1,180	\$19,548,164	\$16,348,143	\$2,405,110	\$18,753,253	\$1,851,459	\$(1,056,548)
Commercial SOP (Custom)	55	\$2,844,101	\$1,457,162	\$299,232	\$1,756,394	\$860,000	\$227,707
Emergency Load Management SOP	0	\$0	\$0	\$0	\$0	\$0	\$0
Commercial Load Management SOP	146	\$2,496,000	\$2,196,080	\$204,745	\$2,400,825	\$0	\$95,175
Commercial SOP (Basic)	541	\$7,980,000	\$6,094,859	\$1,259,717	\$7,354,576	\$991,459	\$(366,035)
Solar PV MTP	12	\$4,838,031	\$4,815,294	\$489,580	\$5,304,874	\$0	\$(466,843)
Small Business Direct Install MTP	426	\$1,390,032	\$1,784,748	\$151,836	\$1,936,584	\$0	\$(546,552)
Residential	16,670	\$15,934,267	\$13,659,678	\$1,911,756	\$15,571,434	\$140,122	\$222,711
Home Energy Efficiency SOP	12,102	\$11,607,131	\$10,005,295	\$1,435,699	\$11,440,994	\$0	\$166,137
Solar PV MTP	573	\$4,052,136	\$3,414,383	\$456,130	\$3,870,513	\$140,122	\$41,501
Residential Demand Response MTP	3,995	\$275,000	\$240,000	\$19,927	\$259,927	\$0	\$15,073
Hard-to-Reach	4,669	\$13,275,150	\$11,653,832	\$1,327,473	\$12,981,305	\$0	\$293,845

#### **Table 10: Program Funding for Calendar Year 2015**

<sup>&</sup>lt;sup>11</sup> Projected Budget taken from the EEPR filed in April 2015 under Project No. 44784.

Hard-to-Reach SOP	3,729	\$6,865,992	\$6,004,832	\$849,060	\$6,853,892	\$0	\$12,100
Targeted Low- Income SOP	940	\$6,409,158	\$5,649,000	\$478,413	\$6,127,413	\$0	\$281,745
Research & Development	NA	\$475,000	\$0	\$132,844	\$132,844	\$0	\$342,156
EM&V*	NA	\$1,266,344	\$0	\$984,006	\$984,006	NA	\$282,338
Total	22,519	\$50,498,925	\$41,661,653	\$6,761,189	\$48,422,842	\$1,991,581	84,502

\* EM&V costs shown are actual booked costs for 2015. For purposes of cost-effectiveness and bonus calculations, \$737,269 is used per TetraTech's 2015 EM&V cost allocation.

\*\*Administration funds include \$14,696 of Rate Case Expenses approved in Docket No. 44784.

#### 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 2015 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 using an implementer experienced in managing the program for other utilities in the Texas market. This program was developed to assist an under-served segment identified by Oncor. The SBDI is a market transformation program designed to offer participating Service Providers and small commercial 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 ( $\leq 100 \text{ kW}$ ) 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. 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 2015 participants installed measures that resulted in savings of 1,636 kW and 7,681,422 kWh.

The Program goals for 2015 were to grow and develop the number of trained Service Providers that would assist this targeted segment while meeting the goals developed for the Program.

#### **Residential Demand Response Pilot MTP**

Oncor's Residential Demand Response Pilot MTP was launched in 2015 to explore residential demand response capabilities as a means to reduce peak electric demand. Similar programs operated in other utility service areas achieved between 1 kW and 2 kW per home. Two test events were called during the year, one during June and the other in September. The program provider used various control strategies to reduce overall demand during the peak period by 6,868

kW, or an average of 1.7 kW per home. The actual demand savings were determined by Oncor using advanced meter data. Although some energy savings were achieved, none will be claimed from the 2015 Program.

The Program is intended to: (1) demonstrate the usefulness of residential demand response as a means to curtail peak demand, (2) evaluate customer reactions to various control strategies, (3) measure and verify demand and energy savings and (4) evaluate customer participation and persistence

#### **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 into the ERCOT market.

Also in 2015, Oncor joined 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 \$70,172,133 during 2015 through the EECRF.

#### **Revenue Billed**

\$70,172,133

#### **Over- or Under-recovery**

\$4,208,812 (Over) - This amount will be trued-up by rate class in Oncor's EECRF filing in 2016.

Shown below is a calculation detailing the performance bonus Oncor qualifies for based on 2015 program results.

#### **Performance Bonus Calculation**

Total Energy	
Efficiency Benefits	\$147,098,427
Total Energy	
Efficiency	
Expenditures	\$48,176,105
Total Net Benefits	\$98,922,322

2015 Minimum Goal MW	69.4
2015 Achieved Goal MW	115.808
Percentage Over Goal	66.87%

Bonus Calculation % of Net	
Benefits (1% of every 2% the	
Demand Goal is exceeded)	0.3344

Bonus Based on 33.44% of Net Benefits (\$98,922,322 x .3344)

\$33,079,624

Bonus Capped at 10% of 2015 Total Net Benefits (\$98,922,322 x .1)

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\$9,892,232

Total Bonus

\$9,892,232

# 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

			Appendix A	A: Demand an	d Energy Reduc	tion by County					
>+ <b>M</b> 100	Hard to Reach	Small Business	Commercial SOP	Residential Demand	Commercial Load	Home Energy	Commercial SOP	Commerciat Solar	Residential Solar	Targeted Low	-
ANDERON	50F	Ulrect Install M TF	(Custom)	Response M TP	Mgmt. SOP	Efficiency SOP	(Basic)	PV SOP	PV SOP	Income SOP	
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I otal Sum of kWh		19,601,569		7,681,422		15,219,358		-		77,505		59,421,878		58,742,627		8,527,109	Ű	100,630		3.442.017

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# **APPENDIX B: PROGRAM TEMPLATES**

#### **Healthcare MTP**

#### Description

The Healthcare MTP is designed to increase the installation of energy efficient equipment, bring existing equipment back to optimum operating parameters, and implement efficient operational practices in healthcare facilities. The program will be administered by a single implementer and use local / national contractors to implement energy efficient measures and strategies.

#### **Target Audience**

The Program will be implemented in the Oncor service territory and target healthcare facilities, including hospitals, clinics, healthcare provider offices, laboratories, assisted living centers, and healthcare data centers. Participants must sign a Memorandum of Understanding (MOU) and will be ineligible to participate in other Oncor energy efficiency programs while the MOU is in effect. Program participants may participate in the Oncor Commercial Load Management Program, while under the MOU.

#### **Demand / Energy Savings**

Demand and energy savings on a project level should be similar to the existing Commercial Standard Offer Program. With the exception of custom measures and retro-commissioning, all measures and savings calculations are outlined in the Texas Technical Resource Manual. Although the Healthcare Program is forecasted to achieve 1,386 kW and 7,242,568 kWh, Oncor expects the actual results to be lower, due to the program opening later in the year.

#### **Program Design**

The goals of the 2016 Healthcare Program are to: (1) increase the energy efficiency of healthcare facilities within the Oncor service territory, (2) to increase energy efficiency participation in rural areas of the Oncor service territory, and (3) to increase project comprehensiveness.

The Program will be marketed and administered by a single implementer. Through education, outreach, and facility audits, the implementer will engage potential participants. After the participant signs an MOU, the implementer will provide additional technical assistance to identify energy efficiency projects that fit Program and participant requirements. Program participants are eligible to receive services such as facility benchmarking, energy assessments, retro-commissioning studies, project recommendations, savings estimates, and measurement and verification (M&V) assistance.

After projects are identified and selected, the implementer will work with local / national trade contractors, engineers, and architects to design and construct the project. If the healthcare participant already has approved contractors, the implementer will work with the approved contractors to ensure Program requirements are met.

Incentives are paid to the implementer upon project completion and verification. The implementer will then pay the program participant. Incentive levels are, in most cases, the same as the Commercial Standard Offer Program. Project data will be uploaded to the Oncor EEPM tracking

**B1** 

system prior to incentive payment. Additional Program details are located in the Healthcare Facilities Program Manual.

#### **Research Plan**

Oncor will closely monitor and evaluate Program participation and project completion. Pertinent information such as participant details, close rates, project completions and customer satisfaction may be monitored to ensure the Program is achieving Oncor goals. The Program may be adjusted during the year to increase participation and / or savings.

#### **Program Budget**

The 2016 Healthcare MTP budget is \$1,552,533.

#### **Program Timeline**

Implementer selection is completed, and final preparations are underway for Program open. The Program will run during the 2016 program year. Any incomplete projects at the end of a program year will be moved to the next program year. The overall term of the implementer contract is three years, subject to at-will termination by either party.

#### **Impact on Other Programs**

The Program will focus on the healthcare market and thereby minimize overlap with the Commercial Standard Offer Programs. Since healthcare participation in the CSOP has been very limited, it is anticipated that there will be very little impact on other programs.

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# APPENDIX C: LIST OF 2015 ENERGY EFFICIENCY SERVICE PROVIDERS

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#### 2015 Energy Efficiency Service Providers

Commercial SOP (Custom) Aelux, LLC Alan Plummer Associates, Inc. Ally Energy Solutions, LLC Ameresco Dallas LLC American Wholesale Lighting Inc. Blackhawk Equipment Corporation Capstone Mechanical LP Carrier Corporation CEC Facilities Group, LLC City Park Construction, LLC **CLEARESULT** Consulting cVal Innovations LLC Davis Electric Co. Doskocil Manufacturing Company, Inc. Entech Sales & Service Equinix, llc Estes, McClure & Associates, Inc. Green Ox Energy Solutions, LLC Groom Energy Solutions LLC Independent Lighting Solutions, LLC Intelligent Energy Solutions, LLC Johnson Controls Inc KirEnergy Services LLC kWik Energy Solutions, LLC Lochridge-Priest, Inc. Mechanical Solutions, Inc MP2 Energy, LLC NexRev, Inc Next Step Energy Solutions NORDCO, INC. PepsiCo Performance Services, Inc. PR/Crow Penn Distribution, LP Pure Power Group Rapid Power Management LLC Regency Enterprises Inc. dba Regency Lighting SmartWatt Energy Inc Summers Group Inc Summit Energy Services, Inc.

TDIndustries The Brandt Companies, LLC The Dannon Company, Inc. Trane TRINITY ELECTRIC SUPPLY CO., LLC TXU Energy Retail Company LLC US Energy Management US Total Green Light LLC dba PT LED Wachter, Inc. Way Service LTD WESCO Distribution, Inc. Zoom Air, Inc.

# Small Business Direct Install MTP

CLEARESULT Consulting

#### **Targeted Weatherization LI SOP**

Texas Association of Community Action Agencies, Inc.

#### Commercial Load Management SOP

Acclaim Energy, Ltd. Amerex Brokers LLC CHILDREN'S MEDICAL CENTER CIRRO ENERGY SERVICES Doskocil Manufacturing Company, Inc. Energy curtailment Specialists, Inc. EnerNOC, Inc. Enerwise Global Technologies, Inc. D/B/A CPower Innovari Market Solutions LLC MJB Wood Group NRG Conservation, Inc. DBA Energy Experts PI Holdings Inc DBA Plastics Holdings Inc Texas Health Resources **Tierpoint Texas LLC** Vedero Software Verdigris Energy

#### Home Energy Efficiency 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 All Real Estate Brokerage LLC Allied Energy Savers AllSave Energy Solutions, LLC Anderson Energy Services Area Wide Services, Inc. **B & B TEXAS CONTRACTORS** B and D Efficiency Bearwall Energy Efficient Solutions LLC Better Than Lights Bryan's Conservation Services Inc. **Burson Services** Chuck hart's energy connection Classica la fe **CN Home Electric Saving** Cole Air Conditioning Company Inc Conergy 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 EcoSource Eden Energy Solutions, LLC **Electric Reducer Energy Audits Of Texas** ENERGY CONSERVATION CONCEPTS **Energy Efficient Measures LLC Energy Improvements** 

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Energy Misers, Inc. **Energy Saver Pro** Excel 5-Star Energy Inc. FREE Specialists, LLC Garden of Eden **GNS Energy Efficiency Gonzalez** Insulation Green Conservation Green Medal Energy Corp Green Start Energy Specialists GREEN ZONE **GS CONSERVATION LLC** 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 **Insight Energy Solutions** INSUL ATTIC CORPORATION J&L Insulation and Energy Innovations, LLC John Energy Weatherization savers JP Energy Conservation K & M Enterprises **KTANG ENERGY SAVER .INC** LONE STAR INSULATION LLC Lonestar energy solutions LT Services Lu and Sons Mascot Mechanical LLC Matts Home Sealers Mueller Energy Conservation Norstar Energy Solutions North Star Specialty Services NRG Pros NRG Savers Ormeno Enterprises LLC DBA M&P Solutions P D Construction Company dba Elect Saver

#### **HEE continued** -

Plan B Remodeling Systems Quality Home Comfort, LLC Real conservation energy Reliant Heating & Air Conditioning, Inc. 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 TheGreenHomeMakeover.com Total Air and Heat Co TRANSOFT CORPORATION LLC Tuffy's Air Conditioning & Heating Service Inc. TXE Solutions LLC DBA Service City ElectricV Victor Reyes W&B, Inc. dba ALL SERVICE HEATING AND AIR Yella Rose Development Corporation

#### **Residential Demand Response Pilot MTP**

Earth Networks, Inc.

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#### Commercial Solar PV SOP

A Cooler House Able Electric Advent Systems INC., DBA SolarTechs AffordaSolar Inc Alba Energy LLC Ameresco Dallas LLC Amos Electric Supply, Inc. Apricor Technologies, LLC Aspenmark Roofing Solutions LLC Axium Solar Inc. Aztec Renewable Energy, Inc Blue Heeler Electric, LLC 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 **Ecological Estates LLC** Efficient Energy of Tennessee Entech Electronics, LLC EnterSolar, LLC **Facility Solutions Group** Fisher Renewables LLC Freedom Solar LLC Green Ox Energy Solutions, LLC Green Wolf Energy Inc GreenLife Technologies, Inc. Guardian Exteriors, Inc. GWTW Renewables LLC DBA That Solar Company HEB Grocery Company, LP Holtek Enterprises Inc. dba Holtek Solar Illume Electric, LLC INFINITY SOLAR SOLUTIONS LLC Intuit Inc KOHL'S Department Stores, Inc. Lighthouse Solar Austin Longhorn Solar Meridian Solar, Inc. Microgrid Energy, LLC

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Native Inc NCH Corporation New Day Energy, LLC New Generation Energy & Environment Inc. NVT Licenses, LLC Pepco Energy Services, Inc. Performance contracting inc **Revolve Solar LLC** RonRush Investment DBA Universal Solar System Self Reliant Solar LLC Simple Power Systems LLC SoCore Installation Services LLC Solar CenTex LLC SolarCity Corporation Solarview Inc SWG Energy Inc Target Corp **TDIndustries** Texas Responsible Energy & Efficiency Texas Sun Power LLC **Texoma Energy Solutions** The Energy Shop, Inc. **Trusted Energy Services** 

#### **Residential Solar PV SOP**

1st Choice Energy, LLC A Cooler House Able Electric Abundant Solar LLC Action service and electric Advent Systems INC., DBA SolarTechs AffordaSolar Inc Alba Energy LLC Altitude Marketing DBA AC Solar Solutions Amos Electric Supply, Inc. Aspenmark Roofing Solutions LLC Axium Solar Inc. Aztec Renewable Energy, Inc Blue Heeler Electric, LLC Byrd electric CAM Solar, Inc. Circular Solar, Inc DBA Circular Energy **CRsolar Energy Solutions / CR-Invent LLC** Davis Electric Co. DFW SOLAR ELECTRIC, LLC **Ecological Estates LLC** Entech Electronics, LLC **EPIC Solar Energy** Fine Lines Fisher Renewables LLC Freedom Solar LLC Global Efficient Energy, LLC 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 Harvest Solar Energy LLC Hoffman Electric LLC Holtek Enterprises Inc. dba Holtek Solar IAQ Mechanical LLC, DBA:A-Apex Home Energy Management INFINITY SOLAR SOLUTIONS LLC Integrated Solar & Power Lighthouse Solar Austin

Longhorn Solar Native Inc New Day Energy, LLC NRG RESIDENTIAL SOLAR SOLUTIONS, LLC PetersenDean Texas INC **Renewable Republic Revolve Solar LLC** RonRush Investment DBA Universal Solar System Simple Power Systems LLC Solar CenTex LLC SolarCity Corporation Solarview Inc Sun City Solar Energy-North Texas LLC Sustainable Services LLC SWG Energy Inc **TEXAS QUALITY SOLAR INC** Texas Responsible Energy & Efficiency Texas Solar Power Company Texas Sun Power LLC **Texoma Energy Solutions** The Energy Shop, Inc. **Trusted Energy Services** Woodall Construction Services

#### Hard-to-Reach SOP

1 Way Services AKA One Way Services 5 Star Energy Savers **A&E HOME INSULATION** ACT Home Energy Specialists LP Allied Energy Savers Anderson Energy Services **B & B TEXAS CONTRACTORS** B and D Efficiency Bearwall Energy Efficient Solutions LLC Better Than Lights **Burson Services** Classica la fe **CN Home Electric Saving** Conergy **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 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 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 **Insight Energy Solutions** 

JP Energy Conservation LONE STAR INSULATION LLC Lonestar energy solutions LT Services Norstar Energy Solutions NRG Pros NRG Savers P D Construction Company dba Elect Saver **River** Co San Miguel and Associates, Inc. Saving Energreen Houses, LLC Saving Energy Solutions LLC Signature Sales (Energy Project) TheGreenHomeMakeover.com **TXE Solutions LLC DBA Service City Electric** Victor Reyes

#### **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**