
**CenterPoint Energy Houston Electric,
LLC**

2017 Energy Plan and Report

Pursuant to P.U.C. SUBST. R. § 25.181(n)

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Project No. 46907

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Introduction

CenterPoint Energy Houston Electric, LLC (CenterPoint Houston) presents this Energy Efficiency Plan and Report (EEPR) to comply with Substantive Rules § 25.181 and § 25.183, which implement Public Utility Regulatory Act (PURA) § 39.905. PURA § 39.905 and Substantive Rule § 25.181 require that each investor-owned electric utility achieve the following savings goal through market-based standard offer programs (SOPs) and limited, targeted, market transformation programs (MTPs):

- 0.4% reduction of the electric utility's peak demand of residential and commercial customers for the 2016, 2017 and 2018 program years.

The format used in the EEPR is consistent with the requirements outlined in § 25.181(n) and the Company's 2016 EEPR filing. The EEPR presents the results of CenterPoint Houston's 2016 energy efficiency programs and describes how the company plans to achieve its goals and meet the requirements set forth in § 25.181. Planning information provided focuses on 2017 and 2018 projected savings and projected budgets, as well as information on programs to be offered, and discusses outreach and informational activities and workshops designed to encourage participation by energy service providers and retail electric providers (REPs).

EEPR Organization

This EEPR consists of an executive summary, sixteen sections, and three appendices. Sections one through four explain the planning section of the EEPR, while sections five through eleven present energy efficiency report information. The final five sections address the Energy Efficiency Cost Recovery Factor (EECRF) and the performance bonus achieved in 2016. The three appendices provide a description of the acronyms used throughout the report, give the location of the glossary of commonly used terms, and the demand and energy savings for each program by county.

Executive Summary

The Energy Efficiency Plan portion of this EEPR details CenterPoint Houston’s plans to achieve a 0.4% reduction in its peak demand of residential and commercial customers by December 31, 2017, and another 0.4% reduction in its peak demand of residential and commercial customers by December 31, 2018. The Plan also addresses the corresponding energy savings goal, which is calculated from the demand savings goal using a 20% capacity factor. The goals, budgets, and implementation plans that are included in this EEPR are determined by requirements of Rule § 25.181 and the information gained from prior implementation of the selected programs. Table 1 presents a summary of 2017 and 2018 goals, projected savings, and projected budgets.

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

	Calendar Year	Normalized Peak Demand	MW Goal	Demand (MW) Goal	Energy (MWh) Goal ²	Projected MW Savings	Projected MWh Savings ³	Projected Budget (in 000's)
Annual Goals	2017	15,104	0.4% of peak demand	60.42	105,856	163.03	197,310	\$36,508
	2018	15,354	0.4% of peak demand	61.42	107,608	161.56	191,297	\$36,436

¹ Peak Demand figures are from Table 4; Projected Savings from Table 5; Projected Budget from Table 6. All MW and MWh figures in this Table and throughout this EEPR are measured at the meter.

² Calculated using a 20% capacity factor

³ Peak demand reduction and energy savings projections are for the current and following calendar year that CenterPoint Houston is planning and budgeting for in the EEPR. These projected savings reflect estimates based on information gained from prior implementation of the programs.

In order to reach the projected savings presented in Table 1, CenterPoint Houston will implement the following programs:

1. Commercial Standard Offer Program (SOP)
2. Large Commercial Load Management (MTP)
3. Commercial Market Transformation Program; SCORE, Healthcare, Data Center Program
4. Retro-Commissioning MTP
5. Smart Pool Program Commercial
6. Sustainable Schools MTP
7. REP (Commercial CoolSaver)
8. CenterPoint Energy High Efficiency Homes MTP
9. Advanced Lighting Residential MTP
10. Residential A/C Distributor MTP
11. REP (Residential CoolSaver and Efficiency Connection)
12. Smart Pool Program Residential MTP
13. Multi-Family Market Rate MTP
14. Residential Demand Response SOP
15. Residential & Small Commercial (SC) SOP
16. Energy Wise Resource Action MTP
17. Hard-to-Reach SOP
18. Multi-Family MTP HTR
19. Targeted Low Income MTP (Agencies in Action)
20. REP (CoolSaver Income Qualified)

Program manuals for these programs can be found on CenterPoint Houston's sponsor portal <https://centerpoint.anbetrack.com/>

As detailed in this report, CenterPoint Houston successfully implemented SOPs and MTPs required by PURA § 39.905 that met the statutory energy efficiency savings goal of 0.4% peak demand reduction. CenterPoint Houston's goals for 2016 were 59.58 MW in peak demand reduction and 104,384 MWh in energy savings. Actual achieved reductions in 2016 totaled 167.75 MW and 190,883 MWh. The total forecasted spending for 2016 was \$35.4 million, actual 2016 spending totaled \$33.1 million.

Energy Efficiency Plan

I. 2017 Programs

A. 2017 Program Portfolio

CenterPoint Houston plans to implement 20 programs in 2017. These programs target both broad market segments and specific market sub-segments that offer significant opportunities for cost-effective savings. CenterPoint Houston anticipates that targeted outreach to a broad range of service providers will be necessary in order to meet the savings goals required by PURA § 39.905 on a continuing basis. Table 2 lists each program and identifies target markets and applications.

Table 2: 2017 Energy Efficiency Program Portfolio

Commercial SOP	Commercial	Retrofit; New Construction
Commercial MTP (SCORE, Healthcare , Data Center)	Commercial	Retrofit; New Construction
Large Commercial Load Management SOP	Commercial	Load Management
Retro-Commissioning MTP	Commercial	Tune-up of existing facilities
Sustainable Schools Program	Commercial	Educational
REP (Commercial CoolSaver)	Commercial	Retrofit
REP (Residential CoolSaver & Efficiency Connection)	Residential	Retrofit
REP (CoolSaver Income Qualified)	Hard-to-Reach	Retrofit
Residential Demand Response SOP	Residential	Load Management
Smart Pool Program Commercial	Commercial	Retrofit; New Construction
CenterPoint Energy High Efficiency Homes MTP	Residential	New Construction
Residential & SC SOP	Residential & Small Commercial	Retrofit
Advanced Lighting Residential	Residential	Retrofit; New Construction
Residential A/C Distributor MTP	Residential & Small Commercial	Retrofit
Smart Pool Program Residential	Residential	Retrofit; New Construction
Energy Wise Resource Action MTP	Residential	Educational
Hard-to-Reach SOP	Hard-to-Reach	Retrofit
Multi-Family MTP	Residential	New Construction
Multi-Family MTP (HTR)	Hard-to-Reach	New Construction
Targeted Low Income MTP (Agencies in Action)	Hard-to-Reach	Retrofit

The programs listed in Table 2 are described further in sub-section B. CenterPoint Houston maintains two energy efficiency websites⁴: one targeted to the end user and one for project sponsors. The energy efficiency sponsor portal contains requirements for project participation and most of the forms required for project submission. These websites are one method of communication used to provide project sponsors with program updates and information.

B. Existing Programs

Commercial Standard Offer Program (SOP)

Program Design

The Commercial SOP targets commercial customers with incentives paid for a variety of measures installed in new or retrofit applications including Lighting, HVAC, Motors, or other Custom measures.

Implementation Process

CenterPoint Houston will continue implementation of its Commercial SOP whereby any eligible project sponsor may submit an application for qualifying projects.

Outreach and Research activities

- Maintains internet website with program processes on how to register for participation, as well as how to input a viable project, detailed project eligibility, end-use measures, incentives, workbooks to assist with providing incentive estimates, as well as procedures and application forms
- Participates in appropriate industry-related meetings and events to generate awareness and interest
- Conduct workshops as necessary to explain elements such as: responsibilities of the project sponsor, project requirements, incentive information, and the application and reporting process.

⁴ CenterPoint Houston energy efficiency website is www.centerpointefficiency.com ; CenterPoint Houston's sponsor portal is <https://centerpoint.anbetrack.com/>

The Commercial Market Transformation Program (MTP)

Program Design

Three Program Offerings: SCORE/CitySmart, Healthcare Energy Efficiency Program (HEEP), and the Data Center Energy Efficiency Program (DCEEP)

The SCORE/CitySmart program targets public and private K-12 schools, higher education, cities, counties, state governmental agencies, non-profit and faith-based organizations. A third party program implementer provides technical assistance, engineering analysis, and performance benchmarking to program participants in order to help them make decisions about cost-effective investments. The SCORE Lite portion of the program provides higher incentives to participants that do not require the technical assistance or engineering analysis provided by the implementer.

The HEEP provides technical support and incentives for implementing energy efficiency projects to eligible healthcare facilities including hospitals, doctors' offices, clinics, laboratories, medical office buildings (MOB), and assisted living/nursing care facilities.

The DCEEP provides technical support and incentives for implementing energy efficiency projects to commercial customers that have a dedicated data center, server room or server closets for specialized IT-related equipment such as data storage, web hosting and telecommunications.

Implementation Process

Commercial Market Transformation Program uses third party implementers to help eligible participants identify energy efficiency measure upgrades in their facilities. The program pays incentives to participants for approved measures that result in both demand and energy savings.

Outreach and Research Activities

- Contracts with third-party program implementers to implement outreach and planning activities
- Participates in appropriate industry-related meetings and events to generate awareness and interest
- Conducts workshops as necessary to explain elements of program requirements, incentive information, application and reporting processes.

Large Commercial Load Management SOP (CLM)

Program Design

The CLM program will be available to non-residential distribution, governmental, educational, and non-profit customers. Curtailments will be initiated when the Electric Reliability Council of Texas (ERCOT) declares an EEA2 event or deems that an EEA2 event is imminent. Incentives will be paid to project sponsors for measured and verified kW reductions based on their average performance over all events. Participating facilities must be equipped with an Interval Data Recorder (IDR) or smart meter, and be able to curtail a minimum of 100 kW to be eligible.

Implementation Process

Implementation of this program will be through customers and third-party entities representing eligible facilities within the CenterPoint Houston service territory. The CLM will initiate up to a maximum of six events totaling 22 hours per year during the summer on peak period (up to a maximum of 2 test curtailments lasting 1 to 3 hours; and up to a maximum of 4 unscheduled events based on ERCOT EEA2 events lasting 1 to 4 hours each). A 30-minute notice is given to all participants prior to each event.

Outreach and Research Activities

- Maintains program information on the program tracking database.
- Conducts workshops as necessary to explain elements such as responsibilities of the project participant, project requirements, incentive information, and the application and reporting process
- Participates in appropriate industry-related meetings and events to generate awareness and interest.

Retro-Commissioning MTP (RCx)

Program Design

RCx is an optimization program for existing buildings (50,000 square foot and larger) that identifies no-cost or low-cost measures (up to a 3 year simple payback) the customer can implement to reduce the demand and energy usage in commercial facilities. The program is designed to provide end-users with a free engineering analysis to improve the performance within their facilities that will reduce electric demand and consumption. Facility owners are required to implement all of the identified measures with simple payback of less than 1.5 years or pay towards the cost of the analysis. Customers do not receive capital improvement incentives in this program.

Implementation Process

The program is implemented through a third-party implementer. Program information is provided on CenterPoint Houston's website. RCx Agents, typically consulting engineering firms, are used to deliver the program to customers. The engineering analysis is comparable to an ASHRAE Level 2 audit.

Outreach and Research Activities

- Maintains internet website with detailed project eligibility, procedures, and application forms
- Participates in appropriate industry-related meetings and events to generate awareness and interest
- Conducts workshops as necessary to explain elements such as responsibilities of the project sponsor and RCx Agents, project requirements, incentive information, and the application and reporting process

Sustainable Schools MTP (SSP)

Program Design

The SSP is an energy education and conservation program that targets physical science high school and middle school students and teachers as well as school district energy managers. In the behavioral portion of the program, Sustainability Teams will be formed to promote awareness of energy conservation, set goals for reducing the school's energy consumption, and recommend behavioral changes. This will be accomplished by providing educational supplements, training teachers and students on the use of energy audit kits, and instructions on monitoring the school's energy consumption. Students will be expected to prepare an energy audit report of their findings and present the results to school administration. In the operational portion of the program, CenterPoint Energy and its program implementer will meet with participating district energy managers and facilities staff to target no-cost and low-cost measures that will reduce energy consumption.

Implementation Process

CenterPoint Houston will continue implementation of the SSP through the spring of 2017. Program activities after the spring of 2017 have not been finalized at this time, but may continue in some form thru other existing programs.

Outreach and Research Activities

- Contracts with a third-party program implementer to implement outreach and planning activities
- Participates in appropriate industry-related meetings and events to generate awareness and interest
- Conducts meetings with potential participants to explain program requirements, potential incentives, and education opportunities.

Retail Electric Provider MTP

Program Design

This program offers energy saving products and services to end use residential and/or commercial customers through participating Retail Electric Providers (REPs). Participating REPs market the energy saving measures and services to their customers in the CenterPoint Energy Houston Electric (CEHE) service territory. REPs are able to participate in any or all of the following programs:

- CoolSaver A/C Tune-up Program – Residential
- CoolSaver A/C Tune-up Program - Commercial
- CoolSaver A/C Tune-up Program - Income Qualified
- Efficiency Connection Electronic Marketplace – LED Bulbs

CoolSaver A/C Tune-Up Program – Residential, Income Qualified and Commercial

The CoolSaver A/C Tune-up program utilizes specially trained air conditioning contractors to perform comprehensive A/C tune-ups for residential, residential income qualified and commercial customers. The program provides incentives, paid to the A/C contractor, to reduce the customer’s upfront cost of system diagnosis and correction. It also provides participating trade allies with training on best practices and discounts on high quality diagnostic tools.

Efficiency Connection Electronic Marketplace – LED Bulbs

Efficiency Connection is an online marketplace that enables customers to shop for discounted energy efficiency products. Through the program’s third party vendor, products are delivered directly to qualifying residential customers. Program marketing informs the customer of the importance of installing LED’s in high use areas and replacing existing incandescent, fluorescent and halogen lamps to increase savings.

Implementation Process

The Retail Electric Provider program utilizes a third-party program participant or REP to recruit and enroll customers. Incentives are paid to program service providers or contractors for the average verified demand and energy savings achieved through the program.

Outreach and Research Activities

- Contracts with a third-party program implementer to implement outreach and planning activities
- REPs market the program to existing customers via e-mail, phone calls, social media and direct mail

Residential Demand Response (SOP)

Program Design

The Residential Demand Response program provides demand reduction during the summer peak period, when ERCOT issues an EEA2 emergency alert. Participants are tested twice during the summer peak period and are available for up to five additional demand response events. Events may last from one to four hours and may be initiated Monday through Friday between the hours of 1:00 pm and 7:00 pm. The program begins June 1, and ends on September 31.

Implementation process

The Residential Demand Response program utilizes CenterPoint Energy's internal tracking database to enroll customers who own a Wi-Fi enabled device that can provide curtailment during energy saving events.

Outreach and Research Activities

- Maintains internet website with detailed project eligibility, end-use measures, incentive structure, procedures, application forms and list of third-party project sponsors

Smart Pool Program Commercial

Program Design

In 2017, the Smart Pool Program provides incentives to registered contractors for the sale, installation, calibration, and reporting on the replacement of single speed pool pumps with ENERGY STAR® qualified variable speed pool pump installations in new or existing apartment complexes, multi-family developments, HOA and community pools, lodging, health clubs, and public pools.

Implementation process

The program will be implemented in the CenterPoint Houston service territory using a third-party program implementer. The third-party implementer will recruit and train pool professionals, and insure program goals are met.

Outreach and Research activities

- Attend appropriate industry-related meetings and seminars to generate awareness and interest
- Conduct workshops as necessary to explain program elements such as responsibilities of the participating contractors, project requirements, and reporting process

CenterPoint Energy High Efficiency Home MTP

The High Efficiency Home MTP incentivizes the construction of efficient homes and educates consumers and contractors on energy efficient practices. To qualify for incentives all homes must achieve 10% kWh savings better than the Texas Baseline Reference Home (TBRH). An additional bonus will be offered for those builders who build ENERGY STAR® certified homes. Each home is reviewed for verifiable demand and energy savings.

Outreach and Research Activities

- Contracts with a third-party program implementer to implement outreach, training and planning activities
- Advertise using a multitude of media, including billboards, radio, TV, point of purchase signage, online and targeted relocation publications, as well as supporting the local home builder association publications

Residential Standard Offer Program (SOP)

Program Design

The Residential SOP targets retrofit measures for residential customers with incentives being paid to project sponsors, for qualifying measures that provide verifiable demand and energy savings. The program is open to all qualifying energy efficiency measures, including, but not limited to: air conditioning, duct sealing, weatherization, ceiling insulation, water saving measures, and ENERGY STAR® windows.

Implementation Process

Any eligible project sponsor may submit an application for a project meeting the minimum requirements. Program information is provided on CenterPoint Houston's website.

Outreach and Research Activities

- Maintains internet website with detailed project eligibility, end-use measures, incentive structure, procedures, application forms and list of third-party project sponsors

Advanced Lighting Residential MTP

Program design

This program offers point of purchase discounts to residential customers at participating retail stores for the purchase of qualified (i.e., ENERGY STAR[®] rated) high efficiency LED lighting products.

Implementation process

The Advanced Lighting program is implemented by a third-party program implementer. Point of purchase discounts will be applied to residential customers at participating retailers, including Home Depot, Lowes, and Sam's Club.

Outreach and Research activities

- In-store promotions of the program via signage
- Participates in appropriate industry-related meetings and events to generate awareness and interest.

A/C Distributor MTP

Program design

The A/C Distributor MTP provides incentives to air conditioning distributors who agree to facilitate the installation of high-efficiency air conditioners and heat pumps in existing single-family and multi-family homes.

Implementation process

Any registered A/C distributor may submit an application for participation in the program. Program information is provided on CenterPoint Houston's website.

Outreach and Research activities

- Contracts with a third-party program implementer to implement outreach and planning activities
- Conduct workshops as necessary to explain elements such as responsibilities of the distributors and contractors, program requirements, incentive information, and the application and reporting process

Smart Pool Program Residential MTP

Program Design

The Residential Smart Pool Program provides incentives to registered contractors for the successful sale, installation, calibration and reporting of ENERGY STAR® qualified variable speed swimming pool pumps for new or existing residential applications. After two years as a pilot program, the program transitions to MTP.

Implementation process

The program will be implemented using a third-party program implementer. The third-party implementer will recruit and train pool professionals.

Outreach and Research activities

- Attend appropriate industry-related meetings and seminars to generate awareness and interest
- Conduct workshops as necessary to explain program elements such as responsibilities of the participating contractors, project requirements, and reporting process
- Provide educational campaigns to the consumer about the benefits and payback for efficient pool operation

Energy Wise Educational Program

Program design

This program is designed to show the benefits of energy efficiency through educational programs. The Energy Wise Program utilizes a school delivery format to provide take-home Resource Action Kits to sixth grade students.

Implementation process

The program uses a third-party program implementer that recruits teachers. Recruited teachers will receive program materials that include; a teacher and student workbook, kit of efficiency materials, a parent letter explaining the program and a survey.

Outreach and Research activities

- Utilize third party implementer (Resource Action) to recruit schools and teachers.

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

Program Design

Incentives are paid to project sponsors for qualifying measures installed in retrofit applications which provide verifiable demand and energy savings to customers whose annual total household income is less than 200% of current federal poverty guidelines. Qualifying energy efficiency measures, include but are not limited to; air conditioning, duct sealing, weatherization, ceiling insulation, water saving measures, and ENERGY STAR[®] windows.

Implementation Process

Any registered project sponsor may submit an application for a project meeting the minimum requirements. Program information is provided on CenterPoint Houston's website.

Outreach and Research Activities

- Maintain an internet website with detailed project eligibility, end-use measures, incentive structure, procedures and application forms
- Conduct workshops as necessary to explain elements such as responsibilities of the project sponsor, project requirements, incentive information, and the application and reporting process

Multi-family MTP

Program Design

The Multi-family MTP encompasses two programs; Multi-family Water and Space Heating and Multi-family New Construction MTP. Multi-family Space and Water Heating promotes the installation of energy efficient non-electric water heating in multi-family housing developments. Multi-family New Construction MTP incentivizes energy efficiency in new multi-family buildings.

Multi-family HTR MTP

Program Design

The Multi-family HTR MTP encompasses three programs; Multi-family Water and Space Heating, Multi-family New Construction MTP, and Direct Install programs. Multi-family Space and Water Heating promotes the installation of energy efficient non-electric water heating in multi-family housing developments. Multi-family New Construction MTP incentivizes energy efficiency in new multi-family

buildings. The Multi-family Direct Install Program offers property owners and managers a free visual audit of existing units to see if the property is eligible for energy efficient direct install measures, which may include CFLs and water saving measures and is only available to customers whose annual total household income is less than 200% of current federal poverty guidelines. If eligible, these measures will be installed at no cost and include an educational component.

Implementation Process

The Multi-family HTR and Multi-Family MTP programs are implemented by a 3rd party program implementer (Frontier Energy).

Outreach and Research Activities

- Contracts with a third-party program implementer to implement outreach and planning
- Provide point of purchase materials including yard signs, marketing kits, and brochures to participating developers and property managers

Targeted Low-Income MTP (Agencies in Action)

Program Design

The Targeted Low-Income MTP facilitates the installation of energy efficiency upgrades for low-income residential customers in single family or multi-family homes. Local non-profit organizations and energy service companies provide comprehensive, whole-house retrofits that maximize electricity savings to homes with an SIR greater than 1 by installing attic insulation, solar screens, lighting retrofits, water saving measures, ENERGY STAR[®] room air conditioners, central air conditioning systems, ENERGY STAR[®] refrigerators, duct efficiency improvement and air infiltration control for participants that have an annual household income of less than 200% of the federal poverty guidelines, and a maximum expenditure of \$6,500 is allowed per home.

Implementation Process

CenterPoint Houston contracts with a program implementer (Frontier Energy) that has the responsibility of recruiting and overseeing the participating agencies and ESCOs. A NEAT audit and the SIR score determine which projects are selected for renovation.

Outreach and Research Activities

- Partner with a 3rd party implementer
- Contact non-profit organizations for potential participation

Research and Development (R&D) Projects

In 2017 CenterPoint Energy plans to implement the following R&D projects. Additional projects may be implemented depending on research opportunities and the availability of budgeted R&D funds.

Program: Water Energy Nexus

In 2017, CenterPoint Energy will partner with Aiqueous, a water conservation organization to study potential energy efficiency opportunities that may be obtained through the 2017 State-wide water plan. The project will review what approved Region H (CenterPoint Energy territory) water plan projects will affect electric use and demand. In addition, the study will determine what technologies and strategies could drive energy efficiency improvements and how CenterPoint Energy could engage with the local water districts and utilities. This study will provide potential outreach opportunities for CenterPoint Energy.

Program: Smart thermostat

Smart thermostats or learning thermostats adjust temperature settings based on occupant behavior. The thermostat recognizes patterns of temperature settings and/or occupancy and adjusts the thermostat slightly to gain efficiencies. In order to create an energy efficiency program around smart thermostats it will be necessary to have supporting data and documentation to establish a deemed savings value. The R&D project scope currently entails a review of operational data from customers equipped with smart thermostats and will compare them against similar customers who do not have smart thermostats (control group). The comparison results should support a smart thermostat deemed savings value for demand and energy in the Greater Houston area. CenterPoint Energy will solicit a vendor to conduct the study in 2017.

Program: CenterPoint Portfolio Planning and Analysis

CLEAResult's comprehensive approach to analyzing DSM portfolios will be used to aid CenterPoint in designing a portfolio of commercial energy efficiency programs that seamlessly incorporate high-level utility goals, while also meeting demand and energy savings targets. The collaborative approach creates realistic and achievable designs that work, and provides program managers with the necessary context to understand how implementation and program design are inherently connected. CenterPoint Energy will also be reviewing its database and Residential programs through 2017 and in to 2018 using the same approach. The vendor has not been selected for the second phase of this project.

Program: Power Across Texas

The Power Across Texas (PAT) launched a separate and independent initiative in 2016: the Texas Energy Poverty Research Institute (TEPRI). Its mission as a research institute is to acquire and share actionable data that helps meet the needs of the energy poor in Texas. CenterPoint Energy's contribution to Texas Energy Poverty Research Institute is funding work to access the poverty and energy nexus and how to bring more cost effective programs to that group of customers.

C. New Programs for 2017

There are no new programs currently planned for program year 2017. Throughout the year we will be modifying our portfolio to consolidate and rebrand programs.

D. Potential New Programs for 2018

In 2018 we intend to launch a new portfolio of programs using existing measures. We are evaluating the possibility of implementing two new programs independently in 2018, which if successful would become part of more comprehensive programs.

Program: Small Commercial Buildings Energy Efficiency Program

A pilot study was completed in 2016, and evaluated potential energy efficiency programs to be marketed toward small commercial properties. The small commercial buildings sector, buildings less than 50,000 square feet, accounts for more than 50% of total U.S. commercial building space. This sector houses a majority of small businesses that are acknowledged to be major drivers of the US economy. These include buildings like food services, office buildings, strip malls, retail, lodging, mixed-use development and places of worship. This sector is diverse and fragmented in nature and a majority of buildings are owner managed but very few are actually occupied by the owner. Small building owners lack the time and capital to spend on energy efficiency measures and there are very few resources and tools available to invest in energy assessment at these facilities. Results of the study are still being evaluated for a potential program to be offered in 2018 or later.

Program: Smart Thermostat Pilot Program

A pilot program to determine the feasibility of implementing a thermostat program aimed at energy savings from modifying schedules and optimizing HVAC set points.

II. Customer Classes

Customer classes targeted by CenterPoint Houston's energy efficiency programs are the Hard-to-Reach, Residential, and Commercial customer classes.

The annual MW savings goal will be allocated to customer classes by examining historical program results, evaluating economic trends, and taking into account Substantive Rule § 25.181, which state that no less than 5% of the utility's total demand reduction savings goal should be achieved through programs for hard-to-reach customers and no less than 10% of the energy efficiency budget is to be spent on targeted low-income programs, respectively. Table 3 summarizes the number of customers in each of the customer classes. It should be noted, however, that the actual distribution of the goal and budget must remain flexible based upon the response of the marketplace and the overriding objective of meeting legislative and Commission goals.

Table 3: Summary of Customer Classes

Customer Class	Number of Customers
Commercial	271,555
Residential	1,337,497
Hard to Reach ⁵	792,276

⁵ CenterPoint Houston does not require income information for electric service and no records are available to correlate revenue for the Hard-to-Reach customer class. However, according to the U.S. Census Bureau, Current Population Survey 2015 Annual Social and Economic Supplement, 37.2% of Texas families fall below 200% of the poverty threshold. Applying that percentage to CenterPoint Houston's residential customer totals, the number of HTR customers is estimated at 792,000. Program goals will be based on the requirement in the energy efficiency rule that no less than 5% of the total energy efficiency demand goal will be achieved through the programs in the Hard-to-Reach customer class.

III. Energy Efficiency Goals and Projected Savings

As prescribed by Substantive Rule § 25.181, CenterPoint Houston's demand goal for 2017 is specified as 0.4% of peak demand since the goal of 30% of its five-year average rate of growth in demand was satisfied in 2013. For the purposes of this report, the 2016 demand goal is based on the 5-year average of weather adjusted peak demand for 2011-2015 and the 2017 demand goal is based on the 5-year average of weather adjusted peak demand for 2012-2016. The corresponding energy savings goals are determined by applying a 20 percent capacity factor to the demand savings goals.

Table 4 presents historical annual peak demand for 2010-2016 and estimated peak demand for 2017 and 2018. Table 5 presents the corresponding projected demand and energy savings broken out by program for each customer class for 2017 and 2018. The projected savings is the demand and energy savings that can be achieved based on the annual budget shown in Table 6. The MW and MWh values presented in table 5 are at the customer meter and include line loss values approved in the latest CenterPoint Energy Houston Electric rate case, Docket 38339.

Table 4: Annual Growth in Demand and Energy Consumption

Calendar Year	Peak Demand (MW)				Energy Consumption (GWh)			
	Total System		Residential & Commercial		Total System		Residential & Commercial	
	Actual ⁶	Weather Adjusted ^{7,8}	Actual	Weather Adjusted	Actual	Weather Adjusted	Actual	Weather Adjusted
2010	16,315	16,341	14,602	14,628	81,142	80,373	80,263	79,494
2011	17,284	16,688	15,321	14,725	84,354	81,635	83,385	80,666
2012	16,614	16,507	14,906	15,013	82,720	83,034	81,790	82,104
2013	17,012	16,925	14,894	14,981	84,431	84,616	83,533	83,718
2014	16,592	17,032	14,692	15,131	86,159	87,044	68,420	69,680
2015	18,056	17,768	15,960	15,672	88,232	88,326	71,013	71,107
2016	17,957	18,201	15,731	15,975	91,322	91,336	72,022	72,036
2017	18,364	N/A ⁹	16,236	N/A	92,593	N/A	76,652	N/A
2018	18,732		16,521		93,836		77,828	

2017 Goals

$$\text{MW Goal} = 15,104 \times 0.4\% = 60.42\text{MW}$$

$$\text{MWh Goal} = 60.42\text{MW} \times 8760 \text{ Hours} \times 20\% \text{ Load Factor} = 105,856\text{MWh}$$

2018 Goals

$$\text{MW Goal} = 15,354 \times 0.4\% = 61.42\text{MW}$$

$$\text{MWh Goal} = 61.42\text{MW} \times 8760 \text{ Hours} \times 20\% \text{ Load Factor} = 107,608\text{MWh}$$

⁶ 2017 and 2018 Calendar Year “Actual” values are forecasted.

⁷ “Actual Weather Adjusted” Peak Demand is “Actual” Peak Demand adjusted for weather fluctuations using weather data for the most recent ten years.

⁸ Weather adjustment calculations are based on hourly weather data from NOAA’s Quality Controlled Local Climatological Data (QCLCD).

⁹ NA = Not Applicable: Energy efficiency goals are calculated based upon the actual weather-adjusted growth in demand

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

Program Goals by Customer Class for 2017 and 2018	2017		2018	
	Projected Savings (MW) at Meter	Projected Savings (MWh) at Meter	Projected Savings (MW) at Meter	Projected Savings (MWh) at Meter
Large Commercial	123.67	146,574.64	121.83	139,149.47
Large Commercial SOP	15.89	86,606.17	15.00	86,000.00
Commercial MTP (Texas Score & Healthcare, DCEEP)	4.38	25,938.38	7.00	38,000.00
Large Commercial Load Management SOP	98.41	590.47	98.00	590.00
Retro-Commissioning MTP	1.91	14,742.91	1.65	14,000.00
Sustainable Schools	0.67	2,127.64	0.00	0.00
REP (Commercial CoolSaver)	0.77	2,377.76	0.18	559.47
Smart Pool Program Commercial	0.25	1,710.38	0.00	0.00
Data Centers Program	1.40	12,480.94	0.00	0.00
Residential and Small Commercial	34.75	43,400.57	35.11	44,813.61
New Homes MTP	6.23	14,583.33	6.23	14,583.33
Residential & SC SOP	0.95	1,740.89	0.95	1,740.89
Smart Thermostat Program	0.00	0.00	0.25	1,200.00
Advanced Lighting Residential	2.56	10,755.79	2.84	11,950.87
Residential A/C Distributor MTP	0.88	2,138.14	0.93	2,263.91
REP (CoolSaver & Efficiency Connection)	3.30	10,023.50	3.30	10,000.00
Residential Demand Response Program	19.50	117.00	19.50	117.00
Multi-Family MTP MR	0.66	1,430.90	0.66	1,430.90
Smart Pool Program Residential	0.45	1,526.70	0.45	1,526.70
Energy Wise Resource Action MTP	0.22	1,084.32	0.00	0.00
Hard-to-Reach	4.61	7,334.89	4.61	7,334.22
Hard-to-Reach SOP Program	1.88	3,668.81	1.88	3,668.81
Multi-Family MTP (HTR)	1.52	1,476.20	1.52	1,476.20
Targeted Low Income MTP (Agencies in Action)	1.17	2,053.55	1.17	2,053.55
REP (CoolSaver Income Qualified)	0.05	136.33	0.05	135.65
TOTAL	163.03	197,310.10	161.56	191,297.30

IV. Program Budgets

Table 6 presents total projected budget allocations required to achieve the projected demand and energy savings for calendar years 2017 and 2018. The budget allocations are a result of the projected demand and energy savings presented in Table 5. The budget allocations presented in Table 6 include incentive and administration costs for each program and customer class.

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

Program Estimated Budget by Customer Class for 2017 and 2018	2017			2018		
	Incentives	Admin	Total Budget	Incentives	Admin	Total Budget
Large Commercial	\$15,907,762	\$1,879,046	\$17,786,808	\$15,700,000	\$1,934,153	\$17,634,153
Large Commercial SOP	\$6,500,000	\$898,475	\$7,398,475	\$6,500,000	\$914,243	\$7,414,243
Commercial MTP (TX Score, HEEP, DCEEP)	\$3,432,762	\$393,912	\$3,826,674	\$5,000,000	\$583,823	\$5,583,823
Large Commercial Load Management SOP	\$3,000,000	\$317,539	\$3,317,539	\$3,300,000	\$323,112	\$3,623,112
Retro-Commissioning MTP	\$925,000	\$119,774	\$1,044,774	\$800,000	\$105,406	\$905,406
Sustainable Schools	\$375,000	\$31,462	\$406,462	\$0	\$0	\$0
REP (Commercial CoolSaver)	\$425,000	\$31,611	\$456,611	\$100,000	\$7,568	\$107,568
Smart Pool Program Commercial	\$250,000	\$12,776	\$262,776	\$0	\$0	\$0
Data Centers Program	\$1,000,000	\$73,497	\$1,073,497	\$0	\$0	\$0
Residential and Small Commercial	\$11,350,000	\$1,259,991	\$12,609,991	\$11,300,000	\$1,300,641	\$12,600,641
New Homes MTP	\$3,500,000	\$432,540	\$3,932,540	\$3,500,000	\$440,131	\$3,940,131
Residential & SC SOP	\$500,000	\$92,692	\$592,692	\$500,000	\$94,319	\$594,319
Smart Thermostat Program (Pilot)	\$0	\$0	\$0	\$250,000	\$47,500	\$297,500
Advanced Lighting Residential	\$900,000	\$79,096	\$979,096	\$1,000,000	\$89,426	\$1,089,426
Residential A/C Distributor MTP	\$1,700,000	\$259,410	\$1,959,410	\$1,800,000	\$279,490	\$2,079,490
REP (CoolSaver & Eff. Connection)	\$2,200,000	\$172,652	\$2,372,652	\$2,200,000	\$175,682	\$2,375,682
Residential Demand Response Program	\$900,000	\$71,544	\$971,544	\$900,000	\$72,800	\$972,800
Multi-Family MTP	\$650,000	\$66,311	\$716,311	\$650,000	\$67,474	\$717,474
Smart Pool Program Residential	\$500,000	\$33,235	\$533,235	\$500,000	\$33,819	\$533,819
Energy Wise Resource Action MTP	\$500,000	\$52,512	\$552,512	\$0	\$0	\$0
Hard-to-Reach	\$5,000,250	\$860,962	\$5,861,212	\$5,000,000	\$876,040	\$5,876,040
Hard-to-Reach SOP Program	\$1,000,000	\$251,130	\$1,251,130	\$1,000,000	\$255,537	\$1,255,537
Multi-Family MTP (HTR)	\$650,000	\$66,311	\$716,311	\$650,000	\$67,474	\$717,474
Targeted Low Income MTP (Agencies in Action)	\$3,300,000	\$537,178	\$3,837,178	\$3,300,000	\$546,606	\$3,846,606
REP (CoolSaver Income Qualified)	\$50,250	\$6,344	\$56,594	\$50,000	\$6,423	\$56,423
SUB TOTAL	\$32,258,012	\$4,000,000	\$36,258,012	\$32,000,000	\$4,110,834	\$36,110,834
R&D	\$0	\$250,000	\$250,000	\$0	\$325,000	\$325,000
PROGRAM TOTAL	\$32,258,012	\$4,250,000	\$36,508,012	\$32,000,000	\$4,435,834	\$36,435,834
EM&V			\$0			\$1,062,776
EECRF PROGRAM TOTAL			\$36,508,012			\$37,498,610

*EM&V cost were not captured in the EECRF for 2017.

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

Table 7 documents CenterPoint Houston's actual demand goals and energy targets for the previous five years (2012 – 2016). Each value was calculated using the methods outlined in Substantive Rule § 25.181.

Table 7: Historical Demand and Energy Savings Goals (at Meter)

Calendar Year	Actual Weather Adjusted Demand Goal at Meter (MW)	Actual Weather Adjusted Energy Goals at Meter (MWh)	Actual Demand Savings at Meter (MW)	Actual Weather Adjusted Energy Savings at Meter (MWh)
2016	59.40	104,314.00	167.75	190,882.95
2015	58.83	103,069.00	168.49	188,255.21
2014	55.73	97,639.00	159.19	153,170.39
2013	54.85	96,088.00	195.97	160,106.74
2012	39.20	68,693.82	175.40	130,617.00

VI. Projected Savings, Reported and Verified Demand and Energy Savings

Table 8 breaks out the projected savings reported and verified demand energy savings by customer class for each program. The projected savings were reported in the Energy Efficiency Plan filed in April of 2016. The reported and verified savings are those savings that have been achieved and verified in 2016 calendar year.

Table 8: Projected Savings versus Reported and Verified Savings for 2016 (at Meter)

	2016					
	Projected Savings		Verified Savings		Reported / Verified	
	MW	MWh	MW	MWh	MW	MWh
Large Commercial	116.5	97,955.1	126.1	102,549.9	126.1	102,549.9
Large Commercial SOP	11.2	65,976.7	9.5	62,265.9	9.5	62,265.9
Commercial MTP (TX Score & HEEP)	3.9	15,413.1	4.0	22,933.5	4.0	22,933.5
Large Commercial Load Management SOP	96.9	266.6	109.1	654.7	109.1	654.7
Retro-Commissioning MTP	1.1	4,050.0	0.5	2,306.2	0.5	2,306.2
Sustainable Schools	0.6	1,038.9	0.6	2,669.4	0.6	2,669.4
REP (Commercial CoolSaver)	1.4	1,717.1	1.3	2,875.0	1.3	2,875.0
Pool Pump Program Commercial	0.4	726.2	0.0	570.4	0.0	570.4
Data Centers Program	1.0	8,766.5	1.0	8,274.7	1.0	8,274.7
Residential and Small Commercial	20.1	54,580.6	35.8	80,620.7	35.8	80,620.7
New Homes MTP	10.5	27,453.3	13.7	42,736.6	13.7	42,736.6
Residential & SC SOP	0.9	1,809.1	0.1	295.9	0.1	295.9
Advanced Lighting Residential	1.0	7,132.3	2.6	14,095.8	2.6	14,095.8
Residential & SC A/C Distributor MTP	1.7	5,452.1	2.3	6,308.9	2.3	6,308.9
REP (CoolSaver & Efficiency Connection)	1.3	4,028.2	3.8	10,151.8	3.8	10,151.8
Residential Demand Response Program	2.0	12.0	11.1	66.7	11.1	66.7
Multi-Family MTP (RES & Energy Star MF Low Rise)	1.2	3,125.8	1.3	4,140.4	1.3	4,140.4
Smart Pool Program Residential	1.2	3,600.0	0.5	1,823.7	0.5	1,823.7
Energy Wise Resource Action MTP	0.4	1,967.9	0.3	1,001.0	0.3	1,001.0
Hard-to-Reach	4.6	8,181.3	5.8	7,712.4	5.8	7,712.4
Hard-to-Reach SOP Program	1.3	2,353.6	0.3	629.0	0.3	629.0
Multi-Family MTP (HTR)	1.2	3,125.8	2.3	2,669.9	2.3	2,669.9
Targeted Low Income MTP (Agencies in Action)	2.2	2,701.9	3.1	4,251.4	3.1	4,251.4
REP (CoolSaver Income Qualified)	0.0	0.0	0.1	162.0	0.1	162.0
TOTAL	141.2	160,716.9	167.7	190,882.9	167.7	190,882.9

Table 9: Projected Savings versus Reported and Verified Savings for 2015 (at Meter)

	2015					
	Projected Savings		Verified Savings		Reported / Verified	
	MW	MWh	MW	MWh	MW	MWh
Large Commercial	135.13	105,613.46	125.22	113,510.94	125.22	113,510.94
Large Commercial SOP	12.02	71,051.78	11.57	76,024.92	11.57	76,024.92
Commercial MTP (TX Score & HEEP)	4.27	16,683.13	3.63	18,411.51	3.63	18,411.51
Large Commercial Load Management SOP	114.08	330.84	106.04	636.21	106.04	636.21
Retro-Commissioning MTP	1.40	5,400.00	0.96	3,690.76	0.96	3,690.76
Sustainable Schools	0.57	1,038.92	0.45	1,418.78	0.45	1,418.78
REP (Commercial CoolSaver)\	1.34	1,616.07	1.65	5,115.98	1.65	5,115.98
Pool Pump Program Commercial	0.44	726.18	0.01	95.21	0.01	95.21
Data Centers Program	1.01	8,766.54	0.91	8,117.58	0.91	8,117.58
Residential and Small Commercial	20.38	53,787.18	37.53	66,473.86	37.53	66,473.86
ENERGY STAR® Homes MTP	10.49	27,453.30	13.59	31,821.15	13.59	31,821.15
Residential & SC SOP	0.85	1,809.06	0.50	1,054.29	0.50	1,054.29
Advanced Lighting Residential	0.62	6,691.74	2.43	10,619.03	2.43	10,619.03
Residential & SC A/C Distributor MTP	1.90	6,179.06	2.22	6,335.95	2.22	6,335.95
REP (CoolSaver, Eff. Connection & Demand Respons	3.34	4,040.18	16.90	10,632.62	16.90	10,632.62
Multi-Family MTP (RES & Energy Star MF Low Rise	1.13	2,847.08	0.80	2,257.24	0.80	2,257.24
Pool Pump Program Residential	1.52	2,498.91	0.71	2,395.29	0.71	2,395.29
Energy Wise Resource Action MTP	0.54	2,267.86	0.38	1,358.30	0.38	1,358.30
Hard-to-Reach	5.45	9,145.65	5.74	8,270.41	5.74	8,270.41
Hard-to-Reach SOP Program	1.51	2,913.21	1.29	2,636.71	1.29	2,636.71
Multi-Family MTP (HTR)	1.13	2,847.08	1.86	1,665.33	1.86	1,665.33
Targeted Low Income MTP (Agencies in Action)	2.81	3,385.35	2.55	3,843.40	2.55	3,843.40
REP (Coolsaver Income Qualified)	N/A	N/A	0.04	124.98	0.04	124.98
TOTAL	160.96	168,546.29	168.49	188,255.21	168.49	188,255.21

VII. Historical Program Expenditures

This section documents CenterPoint Houston's incentive and administration expenditures for the previous five years (2011 – 2016) broken out by program for each customer class. Administrative costs do not include EM&V or rate case cost.

Table 10: Historical Program Incentive and Administrative Expenditures (2012 – 2016)¹⁰

Historical Statutory Program Funding by Customer Class	2016		2015		2014		2013		2012	
	Incentives	Admin	Incentives	Admin	Incentives	Admin	Incentives	Admin	Incentives	Admin
Large Commercial	\$14,984,850	\$1,912,326	\$15,297,984	\$1,808,656	\$14,527,295	\$2,146,049	\$17,014,058	\$1,818,911	\$15,322,812	\$1,840,794
Large Commercial SOP	\$5,932,906	\$985,583	\$6,283,259	\$795,079	\$6,335,962	\$1,087,653	\$6,597,644	\$954,748	\$6,118,676	\$1,113,955
Retro-Commissioning MTP	\$451,417	\$54,462	\$464,977	\$48,338	\$260,367	\$43,365	\$924,415	\$98,467	\$728,186	\$98,953
Commercial MTP (Texas SCORE & Healthcare)	\$3,641,920	\$376,313	\$3,216,713	\$386,926	\$3,015,795	\$400,337	\$2,933,764	\$230,852	\$2,175,141	\$248,361
Large Commercial Load Management SOP	\$3,106,220	\$337,469	\$3,244,409	\$346,571	\$3,506,366	\$396,980	\$5,221,196	\$350,800	\$5,625,000	\$303,369
Sustainable Schools	\$334,782	\$29,858	\$357,537	\$49,264	\$319,547	\$55,048	\$209,070	\$31,015	\$74,196	\$10,803
Advanced Lighting Program	N/A	N/A	N/A	N/A	\$601,336	\$108,094	\$632,539	\$111,449	\$601,613	\$65,353
REP Program (Commercial CoolSaver)	\$400,300	\$31,236	\$397,350	\$45,679	\$487,922	\$54,572	\$495,429	\$41,581		
Pool Pump Program Commercial	\$119,576	\$12,467	\$100,247	\$11,489	N/A	N/A	N/A	N/A	N/A	N/A
Data Centers	\$997,729	\$84,938	\$1,233,493	\$125,310	N/A	N/A	N/A	N/A	N/A	N/A
Residential and Small Commercial	\$9,832,154	\$1,153,652	\$11,659,302	\$1,308,234	\$10,275,021	\$1,224,176	\$9,173,682	\$960,688	\$8,991,307	\$1,094,181
New Homes MTP	\$2,636,756	\$347,201	\$3,892,457	\$45,679	\$4,064,036	\$466,162	\$3,474,935	\$318,973	\$3,513,219	\$354,435
Residential SOP	\$79,596	\$31,843	\$300,720	\$61,320	\$254,477	\$41,964	\$387,886	\$70,664	\$500,874	\$83,866
Advanced Lighting Program	\$943,324	\$76,646	\$843,658	\$108,397	\$772,689	\$81,713	\$440,152	\$37,808	\$415,568	\$43,568
Multi-Family MTP (RES)	\$462,168	\$28,329	\$506,714	\$48,463	\$472,690	\$70,662	\$252,600	\$46,153	\$347,050	\$50,050
A/C Distributor Program	\$1,968,257	\$207,148	\$2,173,535	\$210,007	\$1,906,639	\$228,715	\$1,548,290	\$171,697	\$1,642,142	\$191,096
Pool Pump Program Residential	\$550,894	\$65,000	\$582,718	\$87,710	\$83,400	\$13,668	N/A	N/A	N/A	N/A
Energy Wise Resource Action MTP	\$502,515	\$105,757	\$657,801	\$89,390	\$666,317	\$78,607	\$749,997	\$47,823	\$538,740	\$47,476
REP (CoolSaver, Eff. Connection & Demand Response)	\$2,688,643	\$291,728	\$2,701,700	\$303,916	\$1,951,523	\$218,283	\$1,568,860	\$131,673	\$1,384,156	\$254,125
Home Performance with ENERGY STAR®	N/A	N/A	N/A	N/A	\$103,250	\$24,402	\$750,962	\$135,897	\$649,558	\$69,565
Community Weatherization (RES)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Houston Weatherization (RES)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hard-to-Reach	\$4,488,903	\$492,862	\$4,844,189	\$521,843	\$6,386,605	\$770,007	\$7,492,187	\$627,394	\$5,551,440	\$535,801
Hard-To-Reach SOP	\$245,907	\$112,309	\$971,292	\$160,463	\$606,341	\$118,105	\$933,114	\$173,248	\$1,702,481	\$195,053
Multi-Family MTP (HTR)	\$554,407	\$50,588	\$447,330	\$49,039	\$279,358	\$39,808	\$50,400	\$9,435	\$63,200	\$9,114
Res HTR - Afford. Home	N/A	N/A	\$3,529	\$312	\$20,295	\$3,591	\$62,400	\$13,040	\$49,985	\$5,727
Targeted Low Income MTP (Agencies in Action)	\$3,656,549	\$327,322	\$3,360,588	\$303,786	\$5,480,611	\$608,503	\$6,446,273	\$431,671	\$3,735,774	\$325,907
TDHCA Low-Income Weatherization (SB-712)										
Rebuilding Together Houston										
Community Weatherization (HTR)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
City of Houston Weatherization (HTR)										
REP (CoolSaver Income Qualified)	\$32,040	\$2,643	\$61,450	\$8,243	N/A	N/A	N/A	N/A	N/A	N/A
R&D		\$277,597		\$392,784	\$0	\$435,563	\$0	\$1,196,274	\$0	\$1,422,482
TOTAL	\$29,305,907	\$3,836,436	\$31,801,475	\$4,031,517	\$31,188,921	\$4,575,795	\$33,679,927	\$4,603,267	\$29,865,559	\$4,893,258

¹⁰ 2016 actual spending taken from Table 11 in the current EEPR; 2015, 2014, 2013, and 2012 actual spending from the 2016 EEPR filed under Project 45675.

VIII. Program Funding for Calendar Year 2016

As shown on Table 11, CenterPoint Houston spent a total of \$33,142,343 on energy efficiency programs in 2016. This was less than the budgeted \$35,145,800. Changes to individual program budgets that resulted in greater than 10% increases or decreases are described below.

- The Retro-Commissioning Market Transformation program was not fully subscribed in 2016 and several projects were either partially funded or moved to 2017 therefore it was 37% underrun.
- Commercial Pool Pump Pilot Program is still in early stages of development which proved the infrastructure was not yet in place to support the budget which had an under spend of 50%.
- The Residential New Home New Construction program experienced issues with the energy savings calculator provided by the program partner and aggressive targets set by the implementer. The program exceeded savings targets.
- Residential Standard Offer Program has seen a decline in spending due to certain measures having stricter requirements such as duct efficiency, this lead to an 81% underrun in budget. The excess money was moved to other programs.
- Residential Hard to Reach (SOP) has seen a decline in spending due to certain measures having stricter requirements such as duct efficiency, this lead to a 71% underrun in budget.
- The A/C Distributor Program spent an additional 28%. The program was allocated additional funds from programs that were underspent.
- The Residential Demand Response portion of the REP program was underspent by 29% due to low enrollment. We are still optimistic that this program will succeed as thermostats with Wi-Fi capability are becoming widely adopted.
- The Multi-Family MTP spending was lower by 30% due to delays in construction projects for both market-rate and hard-to-reach. HTR was underspent by 13%.
- The residential pool pump program was more successful than anticipated and was oversubscribed by 18%

Table 11: Program Funding for Calendar Year 2016

Program Funding for Calendar Year 2016	Number of Customer Meters	Forecasted Budget	Actuals Funds Expended (Incentives)	Actuals Funds Expended (Admin)	Total Funds Expended	Funds Committed (Not Expended)	Funds Remaining (Not Committed)	Percentage Change From Budgeted/ Actual
Large Commercial	971	\$17,504,850	\$14,984,850	\$1,912,326	\$16,897,176	\$0	\$607,674	-3%
Large Commercial SOP	347	\$ 7,232,000	\$ 5,932,906	\$ 985,583	\$ 6,918,489	\$0	\$313,511	-4%
Commercial MTP (TX Score & Healthcare)	134	\$ 4,080,100	\$ 3,641,920	\$ 376,313	\$ 4,018,234	\$0	\$61,866	-2%
Large Commercial Load Management SOP	226	\$ 3,239,000	\$ 3,106,220	\$ 337,469	\$ 3,443,689	\$0	-\$204,689	6%
Retro-Commissioning MTP	40	\$ 802,250	\$ 451,417	\$ 54,462	\$ 505,879	\$0	\$296,371	-37%
Sustainable Schools	6	\$ 396,500	\$ 334,782	\$ 29,858	\$ 364,640	\$0	\$31,860	-8%
REP (Commercial CoolSaver)	187	\$ 445,250	\$ 400,300	\$ 31,236	\$ 431,536	\$0	\$13,714	-3%
Pool Pump Program Commercial	21	\$ 263,000	\$ 119,576	\$ 12,467	\$ 132,043	\$0	\$130,957	-50%
Data Centers Program	10	\$ 1,046,750	\$ 997,729	\$ 84,938	\$ 1,082,667	\$0	-\$35,917	3%
Residential and Small Commercial	45,433	\$12,023,400	\$9,832,154	\$1,153,652	\$10,985,805	\$0	\$1,037,595	-9%
New Homes MTP	11,260	\$ 3,842,000	\$ 2,636,756	\$ 347,201	\$ 2,983,957	\$0	\$858,043	-22%
Residential & SC SOP	261	\$ 580,300	\$ 79,596	\$ 31,843	\$ 111,439	\$0	\$468,861	-81%
Advanced Lighting Residential	N/A	\$ 955,250	\$ 943,324	\$ 76,646	\$ 1,019,970	\$0	-\$64,720	7%
A/C Distributor MTP	2,424	\$ 1,697,000	\$ 1,968,257	\$ 207,148	\$ 2,175,406	\$0	-\$478,406	28%
REP (CoolSaver & Efficiency Connection)	7,402	\$ 2,323,053	\$ 2,145,893	\$ 237,125	\$ 2,383,018	\$0	-\$59,964	3%
Multi-Family MTP (RES & Energy Star MF Low Rise)	2,098	\$ 699,250	\$ 462,168	\$ 28,329	\$ 490,497	\$0	\$208,753	-30%
Residential Demand Response Program	10,875	\$ 844,747	\$ 542,750	\$ 54,603	\$ 597,353	\$0	\$247,394	-29%
Pool Pump Program Residential	543	\$ 519,800	\$ 550,894	\$ 65,000	\$ 615,894	\$0	-\$96,094	18%
Energy Wise Resource Action MTP	10,570	\$ 562,000	\$ 502,515	\$ 105,757	\$ 608,272	\$0	-\$46,272	8%
Hard-to-Reach	4,127	\$5,617,550	\$4,488,903	\$492,862	\$ 4,981,765	\$0	\$635,785	-11%
Hard-to-Reach SOP Program	322	\$ 1,227,500	\$ 245,907	\$ 112,309	\$ 358,216	\$0	\$869,284	-71%
Multi-Family MTP (HTR)	2,157	\$ 697,650	\$ 554,407	\$ 50,588	\$ 604,995	\$0	\$92,655	-13%
Targeted Low Income MTP (Agencies in Action)	1,550	\$ 3,692,400	\$ 3,656,549	\$ 327,322	\$ 3,983,871	\$0	-\$291,471	8%
REP (CoolSaver Income Qualified)	98	\$ -	\$ 32,040	\$ 2,643	\$ 34,683	\$0	-\$34,683	
SUB TOTAL	50,531	35,145,800	29,305,907	3,558,839	\$ 32,864,746	0	\$2,281,054	-6%
R&D	0	\$ 250,000	\$ -	\$ 277,597	\$ 277,597	\$0	-\$27,597	11%
TOTAL	50,531	35,395,800	29,305,907	3,836,436	33,142,343	0	2,253,457	-6%

IX. Market Transformation Program Results

The Commercial MTP

SCORE/SCORE Lite/City Smart

In 2016, the program paid incentives to a total of 32 separate customers, with savings impacting over 120 facilities or buildings. The customers served through this program include: 20 school districts, 3 private schools, 2 colleges/universities, 2 municipal governments, 4 county governments, and 1 faith-based organization. Lighting and HVAC measures represented a majority of the projects that were incentivized in 2016.

SCORE Lite program participation and impacts continue to grow as customers and contractors are becoming better equipped to be self-directed in the program. CenterPoint Energy and the program implementer will continue to promote greater self-reliance for SCORE Lite participants. The program will also focus additional outreach efforts to customer segments that have not participated as heavily in the SCORE/CitySmart program, namely local governments, faith-based organizations, and non-profits.

The 2016 HEEP program completed 14 projects which yielded 932 kW and 7,046 MWh. The projects included HVAC replacements, lighting retrofits, window replacements and HVAC optimization projects. The healthcare facilities included hospitals, clinics, laboratories and medical office buildings.

Retro-Commissioning MTP (RCx)

In 2016, CenterPoint Energy projected to acquire 1.1 MW and 4,050 MWh savings from this program. CenterPoint Energy verified and is reporting 488.93 kW and 2,306 MWh.

Sustainable Schools Program (SSP)

In 2016, CenterPoint Energy projected to acquire 570 kW and 1,038,920 kWh savings from this program. CenterPoint Energy verified and is reporting 637.4 kW and 2,669,417 kWh.

Smart Pool Program - Commercial Pilot

In 2016, CenterPoint Energy projected to acquire .44 MW and 726 MWh savings from this program. CenterPoint Energy verified and is reporting .464 MW and 571 MWh.

Data Centers MTP

In 2016 CenterPoint Energy is reporting a savings of 1.01 MW and 8,275 MWh at a cost of \$1.1M for the Data Center program.

New Homes MTP

In 2016, CenterPoint Energy is reporting 13.67 MW and 42,736 MWh for \$2.98M. This program drives builders to use energy efficient methods in design and construction.

Advanced Lighting Residential MTP

In 2016, CenterPoint Energy projected to acquire 1.0 MW and 7,132 MWh from this program. CenterPoint Energy verified and is reporting 2.6 MW and 14,096 MWh.

A/C Distributor MTP

In 2016, the program had 8 distributors that preformed over 2,400 HVAC and heat pump change outs. Incentives were increased to encourage sales of 17 SEER and higher, and incentives were reduced for the 16 SEER, for a savings of 2.32 MW and 6,308 MWh.

Smart Pool Program - Residential MTP

In 2016, CenterPoint Energy projected to acquire 1.2 MW and 3,600 MWh savings from this program. CenterPoint Energy verified and is reporting 508.2 kW and 1,823,728 kWh.

Energy Wise Resource Action MTP

The Energy Wise program uses kits to teach school children about energy efficiency. The education and kits are believed to have a lasting impact. This program provided .28 MW and 1,000 MWh. This program is not in the plan for 2018, due to the decreasing savings and lower avoided cost.

Targeted Low-Income MTP (Agencies in Action)

In 2016, the program reached 1,550 homes in the CenterPoint Energy electric territory. Of these homes, 1,339 were multi-family units and 211 were single family homes. Heat pumps were the leading measure installed in the multi-family units and made up the majority of incentives paid. Air infiltration, ceiling insulation, and AC replacements were just a few of the measures installed in single family homes.

Retail Electric Provider Market Transformation Program

CoolSaver - The CoolSaver portion of the REP MTP program provided free comprehensive air conditioning tune-ups to residential, small commercial and income qualified residential customers in the CenterPoint Houston service territory. The program was marketed by seventeen (17) participating retail electric providers. The tune-ups were performed by twenty-eight (28) specially trained A/C contractor companies. The participating Retail Electric Providers included Ambit Energy, Amigo Energy, Brilliant Energy, Champion Energy Services, Direct Energy, Entrust Energy, Frontier Utilities, Gexa Energy, Hudson Energy, Infinite Energy, Just Energy, Reliant Energy, Spark Energy, Star Tex Power, Tara Energy, TriEagle Energy and Veteran Energy. As a result, 7,293 residential A/C tune-ups were completed, 116 residential low-income tune-ups were completed and 1,302 commercial A/C tune-ups were performed in 2016.

Efficiency Connection - In 2016, CenterPoint Energy Houston Electric continued the online Efficiency Connection website to promote and deliver energy efficient LED bulbs at a reduced price. The program was marketed by 16 participating REPs and yielded 33,997 Energy Star rated LED bulbs. The participating Retail Electric Providers included Ambit Energy, Amigo Energy, Bounce Energy, Champion Energy Services, CPL Energy, Direct Energy, Entrust Energy, First Choice Power, Frontier Utilities, Infinite Energy, Just Energy, Reliant Energy, Spark Energy, Star Tex Power, Tara Energy, and TriEagle Energy.

Residential Demand Response - During the summer of 2016, four companies including Energy Hub, Reliant Energy, Just Energy and Earth Networks, participated in CNP's Residential Demand Response BYOD (Bring your own device) program. The Sponsors enrolled customers with Wi-Fi enabled programmable thermostats in their home. Energy Hub enrolled 4,340 customers, Reliant Energy enrolled 1,320 customers, Just Energy enrolled 2,724 customers and Earth Networks enrolled 2,344 customers, for a total of 10,728 customers. Two, three-hour demand response test events were initiated by CenterPoint Energy Distribution Dispatch personnel during the summer peak period.

Multi-Family MTP Program & Multi-Family HTR MTP Program

The Multi-Family Water & Space Heating MTP promotes the installation of energy efficient non-electric water heating and space heating in housing projects. In 2016, the Multi-Family Water and Space Heating MTP paid incentives on seven apartment complexes with a total of 1,395 units in the CenterPoint Houston service area. Of these units, 434 were classified as Hard-To-Reach and 961 units were classified as Market Rate complexes. Three of these complexes installed gas boiler systems, two installed individual water heaters and three complexes installed combination gas heating systems. The Direct Install program reached 1,724 Hard-To-Reach units. The ENERGY STAR® program incentivized the construction of 1,139 market rate units. Interest in these programs continues to be favorable. There are several potential projects for the 2017 program year. To plan more effectively for the Multi-family portfolio, developers, architects and builders were invited to attend a Market Transformation 2016 Program kickoff meeting that included information on the Multi-Family Water & Space Heating, Multi-Family Direct Install, and Multi-Family ENERGY STAR programs.

A similar kickoff meeting is planned for the 2017 program. 2017 will largely represent a continuation of the Multi-Family Water & Space Heating and Direct Install program elements. The new High Efficiency New Construction program element is proposed to expand participation eligibility to include both low-and mid-rise projects, and to incorporate greater flexibility in estimating and documenting above-code energy savings via additional RESNET accredited energy modeling software tools, and tools that are capable of performing hourly analyses per AHRAE 90.1.

X. Research and Development Results

In 2016, CenterPoint Houston implemented the following R&D projects:

Program: Mini-Split Heat Pumps

The Mini-Split Heat Pump project continued from 2014, with CenterPoint Energy Houston partnering with Frontier Associates and Mitsubishi Electric to implement a ducted and ductless mini-split heat pump study within a garden style multi-family complex located in Houston. The study encompassed 28 Mitsubishi Mr. Slim mini-split systems equipped with inverter compressors and 28 traditional unitary Carrier split system heat pumps. CenterPoint Energy is currently working with vendors and external consultants to interpret the findings and determine how to incorporate them in to a program.

Program: Green Proving Ground - Collaborative Study with General Services Administration (GSA) and Oncor

The Green Proving Ground Program (GPG) partnership with utilities began in 2013. The basis of the program is to leverage the GSA's real estate portfolio and utility R&D funds to evaluate innovative sustainable building technologies. Evaluations, performed in association with independent researchers and the Department of Energy (DOE), are used to support the development of GSA performance specification and inform decision making within GSA, other federal agencies, and the real estate industry. Only those parts of the GPG program that align with utility goals will be funded from utility R&D funds. Installations for two Houston sites were underway by close of 2015; Houston Customs House and Bob Casey Courthouse. The technology is a HVAC Load Reduction (HLR) system, which is intended to solve the major cause of HVAC energy waste in commercial buildings. Installations are scheduled for measurement and verification during 2016. It is anticipated that the efforts with the collaborative will end in 2017.

Program: Small Commercial Buildings Energy Efficiency Pilot Study

The Houston Advanced Research Center (HARC) has been contracted to design a small commercial energy efficiency R&D project to analyze the cost effectiveness and to determine the potential of a full program. The project design will look at three alternate program types: a conventional direct install approach and two separate energy manager style programs. CenterPoint Energy is evaluating a Small Commercial buildings energy efficiency program or measure list.

Program: Power Across Texas

The Power Across Texas (PAT) launched a separate and independent initiative in 2016: the Texas Energy Poverty Research Institute (TEPRI). Its mission as a research institute is to acquire and share actionable data that helps meet the needs of the energy poor in Texas. TEPRI has its roots in one of PAT's signature programs that in 2013 brought together academia, industry and government to address access to electricity in South Texas. CenterPoint Energy's contribution to Texas Energy Poverty Research Institute is funding work to access the poverty and energy nexus and how to bring more cost effective programs to that group of customers.

XI. Administrative Funds Expended

In 2016, CenterPoint Houston incurred administrative costs on categories such as continued development of its energy efficiency tracking database (eTrack), employees' salaries, employees' training, employees' travel, purchase of supplies, and other activities necessary and appropriate for successful program implementation. These costs meet the definition of administration costs as defined by the energy efficiency rule under Substantive Rule 25.181(i)(1) that states these type of costs "include all reasonable and necessary costs incurred by the utility in carrying out its responsibilities..." We monitor the spending in these cost categories throughout the year and make mid-course corrections as necessary to ensure the success of our portfolio of energy efficiency and demand response programs.

XII. Current Energy Efficiency Cost Recovery Factor (EECRF)

CenterPoint Houston’s 2017 EECRF was approved by the Public Utility Commission of Texas in Docket No. 46014 on November 2, 2016 for the amount of \$45,492,241. EM&V cost were not included in the 2017 EECRF. Per Docket No. 46014, ordering paragraph 2,

“CenterPoint’s 2017 EECRF is approved in the amount of \$45,492,241 through its 2017 EECRF; which is composed of (a) estimated 2017 energy-efficiency program costs of \$36,508,012, (b) a performance incentive for 2015 program achievements of \$10,608,015, (c) a credit of \$1,328,468 related to-the over-recover of 2015 program costs, (d) an adjustment of \$67,000 to exclude certain historical administrative costs,(e) \$35,879 in 2015 EECRF proceeding expenses, and (f) a credit of \$264,197 related to the over-recovery of the surcharge approved in Docket No. 42359.”

XIII. Revenue Collected Through EECRF

In 2016, CenterPoint Houston collected a total of \$37,571,561 in energy efficiency program costs through the EECRF Rider.

XIV. Over or Under-recovery of Energy Efficiency Program Costs

In Docket No. 44783, the PUC approved energy efficiency costs to be recovered in 2016 of \$37,645,874 consisting of:

\$35,395,800	2016 Forecasted Program Costs
\$ 6,640,550	2014 Bonus
-\$ 5,020,922	2014 Over-Recovery
\$ 549,065	2016 Forecasted EM&V Expenses
-\$ 85,500	2014 Historical Admin Adjustment
<u>\$ 166,881</u>	2014 Rate Case Expense
\$ 37,645,874	Total EECRF Costs

In 2016, actual program costs were \$33,142,343 and actual EM&V costs were \$549,065 for total energy efficiency related costs of \$35,392,416. Total revenues collected through the EECRF Rider were \$37,571,561, resulting in overall over-recovery of \$2,179,145.

XV. Under-served Counties

There were no counties within the CenterPoint Houston service territory that were under-served by the Company's energy efficiency programs in 2016. All of the CenterPoint Houston's energy efficiency programs were accessible to all counties within the Company's electric service area. Appendix C lists the counties served by CenterPoint Houston and the amount of savings each county experienced in 2016 through the company's energy efficiency programs.

XVI. Performance Bonus Calculation

In 2016, CenterPoint Houston's total spending on the implementation of Energy Efficiency Programs was \$33,142,343. Per Substantive Rule § 25.181, the calculation of performance bonus is 10% of Net Benefits. Therefore, CenterPoint Houston will request a performance bonus of \$11,039,376 as part of the 2017 EECRF filing.

Table 12 shows the performance bonus calculation for CenterPoint Houston for 2016

	kW	kWh
2016 Program Goals	59,400	104,314,000
2016 Program Savings	167,745	190,882,946
<i>Reported/Verified Total (including HTR, measures with 10yr EUL, and measures with EULs < or > 10 years)</i>	167,745	190,882,946
<i>Reported/Verified Hard-to-Reach</i>	5,847	7,712,402
Avoided Cost		
<i>per kW</i>		\$80
<i>per kWh</i>		\$0.051
<i>Inflation Rate</i>		2.0%
<i>Discount Rate</i>		8.21%
Total Avoided Cost¹¹	\$	144,128,826
2016 Program Costs¹²	\$	33,735,064
Net Benefits = Total Avoided Cost - Total Program Cost		
Net Benefits	\$	110,393,762
Bonus Based on 10% Net Benefits	\$	11,039,376

¹¹ Complete avoided cost savings table will be provided in the June 1 filing of the EECRF.

¹² Total Program Costs is inclusive of 2016 total spending for implementation of Energy Efficiency Programs, 2016 EM&V Expenses, and 2016 Rate Case Expenses.

Appendix A: Acronyms

CCET	Center for the Commercialization of Electric Technologies
CLM	Commercial Load Management
DR	Demand Response
DSM	Demand Side Management
EECRF	Energy Efficiency Cost Recovery Factor
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
ERCOT	Electric Reliability Council of Texas
HERS	Home Energy Ratings
HTR	Hard-To-Reach
MTP	Market Transformation Program
PUCT	Public Utility Commission of Texas
RCx	Retro-Commissioning
REP	Retail Electrical Provider
RES	Residential
RESNET	Residential Energy Services Network
SCORE	Schools Conserving Resources
SOP	Standard Offer Program
SSP	Sustainable Schools Program

Appendix B: Glossary

Please refer to the glossary defined in Substantive Rule § 25.181.

Appendix C
 CenterPoint Energy Houston Electric, LLC Efficiency Programs
 Energy Efficiency Programs
 2016 Demand (kW) and Energy (kWh) Savings at Meter By County

Programs	C O U N T I E S													Total
	Austin	Brazoria	Chambers	Fl Bend	Galveston	Harris	Liberty	Matagorda	Montgomery	Waller	Wharton			
Commercial SOP	KW	380	717	814	173	6,901			411	56				9,451
	kWh	2,539,751	3,961,239	4,354,645	828,758	47,908,172			2,305,887	367,492				62,265,944
Commercial MTP - Score	KW	197	7	58	862	1,660			0	248				3,098
	kWh	1,183,538	38,696	346,221	4,076,697	8,522,306			2,869	1,377,790				15,887,169
Commercial MTP - Healthcare	KW			336		596								932
	kWh			2,236,863		4,809,430								7,046,293
Large Commercial Load Management SOP	KW	3,606	1,094	5,457	175	98,695			5	87				109,119
	kWh	21,638	6,563	32,740	1,050	592,170			29	522				654,712
Retro-Commissioning	KW			46,736										489
	kWh			26,986										2,306,187
REP (Commercial Coolsaver)	KW													637
	kWh													2,669,417
Sustainable Schools	KW	18		333		915			68					1,341
	kWh	40,955		729,330		1,903,296			190,952					2,875,003
Pool Pump Program Commercial	KW			10		34			1					46
	kWh			122,485		420,510			15,516					570,449
Data Centers	KW					971								971
	kWh					8,274,684								8,274,684
Energy Star MTP	KW	938	104	5,294	135	6,421			758	21				13,671
	kWh	2,879,825	345,230	16,297,234	430,879	20,366,010			2,355,464	61,976				42,736,617
Residential SOP	KW	5	11	13	13	81								125
	kWh	11,356	25,343	35,723	32,264	186,735				4,447				295,868
Advanced Lighting Program (Residential)	KW		115		422	1,888			87					2,645
	kWh		613,710		2,246,114	10,058,683			461,988					14,095,756
A/C Distributor Program	KW	8	175	2	543	1,502			51	11				2,322
	kWh	25,533	467,277	5,220	1,449,946	83,353			140,395	30,996				6,308,863
REP (Residential Coolsaver)	KW	4	153	15	842	2,439			142	14				3,649
	kWh	10,632	387,704	38,158	2,142,884	79,876			362,003	35,045				9,282,109
REP (Efficiency Connection)	KW	1	8	1	22	126			7	1				171
	kWh	2,611	40,118	5,421	114,281	21,690			38,046	2,815				869,663
REP (Residential Demand Response)	KW	10	879	138	1,983	7,426			474	19				11,129
	kWh	60	5,270	826	11,881	44,501			2,840	117				66,692
Energy Star Multi-Family Low Rise MTP	KW			203		94			230					528
	kWh			1,186,332		510,838			1,182,317					2,879,507
Multi-Family Water & Space Heating MTP (RES)	KW					782								782
	kWh					1,260,913								1,260,913
Pool Pump Program Residential	KW		29	1	93	353			16	2				508
	kWh		79,570	4,060	390,973	39,420			62,848	4,763				1,823,729
Energy Wise Resource Action Program	KW		56		80	107								283
	kWh		100,089		223,217	61,466								1,000,971
Hard-To-Reach SOP	KW			124		215								338
	kWh			259,136		369,839								628,995
Multi-Family MTP (HTR)	KW			86		1,983								2,069
	kWh			327,058		1,382,181								1,709,239
Multi-Family Direct Install	KW			50		212								262
	kWh			179,311		781,396								960,707
Energy Star Multi-Family Low Rise MTP (HTR)	KW													0
Targeted Low Income (Agencies in Action MTP)	KW		0	71		3,043								3,114
	kWh		26	126,468		4,124,943								4,251,437
REP (Residential Coolsaver - Income Qualified)	KW			15		42								64
	kWh			17,284		105,521								162,024
Programs - TOTAL	KW	27	6,572	2,097	16,834	1,802	1	1	2,251	462	90			167,745
Total kW Savings	kWh	50,192	8,402,097	4,487,871	32,843,324	6,371,871	129,323,896	2,731	1,434	1,897,901	380,476			190,882,946