LOW INCOME CONSUMER ADVISORY TASK FORCE

SUMMARY OF RECOMMENDATIONS ADOPTED Draft 09/14/15

<u>Directive 1 Make recommendations regarding the development, design, and implementation of energy efficiency and renewable energy programs to meet the demand reduction goals of low income and low-moderate income residential customer programs.</u>

Recommendation that Austin Energy Should Improve and Make More Transparent the Tracking of its Energy Efficiency Programs.

- (A) All Austin Energy programs funded with revenues realized from the energy efficiency rate should be consistently reported to the public, the City's advisory commissions and the Council.
- (B) All program costs funded with energy efficiency dollars should be consistently reported and the operations and maintenance costs should be separated out from the rebates and other direct costs of the programs.
- (C) In any budget presentation to support its energy efficiency rate proposal, Austin Energy should not include any energy efficiency program costs funded with Customer Assistance Program revenues.
- (D) Austin Energy should develop better tracking data by city council district to: measure energy and demand savings, including consumption data measuring the actual customer usage both before and after the customer benefited from an energy efficiency program; analyze the demographics of program participation while protecting privacy data; and demonstrate coordination with other publically funded programs.
- (E) Austin Energy should provide monthly, quarterly and annual reports to the Resource Management Commission, Electric Utility Commission and City Council indicating energy efficiency, Customer Assistance Program (CAP) Weatherization, Demand Response, Green Building and Solar activities and City Council should establish accountability procedures. (Adopted 06/05/15 7 yes, 0 no)

Recommendation for Weatherization Program Cost Reduction Study. The City Council should direct the City Manager to investigate operating practices that could potentially increase the cost effectiveness of the low income weatherization program while maintaining all program services and standards and report back to city council in six months with a strategy for implementation. (Adopted 09/04/15 - 7 yes, 0 no)

Recommendation for an Annual Energy Efficiency True-up. The City Council should establish a true up proceeding for the energy efficiency rates within six months after the close of each fiscal year to reconcile any over or under recovery of the utility's energy efficiency revenues, realized and imputed, attributable to the energy efficiency rate for that recently closed fiscal year with that fiscal year's energy efficiency expenses, including operations and maintenance, incurred by Austin Energy. The true up proceeding may result in no further action, a reduction or increase in the energy efficiency rate, and/or an amendment to the then-current energy efficiency budget, including the transfer of funds from one program to another to increase the effectiveness of the programs. (Adopted 09/04/15 - 7 yes, 0 no)

Recommendation to Adopt the Triple Bottom Line Evaluation used by the City of Austin Sustainability Office. Everyone pays into the Community Benefits Charge on their electric bill from Austin Energy based on kilowatt-hour used. The cost effectiveness test Austin Energy uses only measures peak kilowatt demand reduction based on the cost of building a new power plant. Other factors should be considered like kWh reduction that increases affordability, health and safety benefits that improve the quality of life of a resident through better indoor air quality or reduced risk of fire. Energy efficiency also creates local jobs. The sustainability triple bottom line looks at the impacts on people/equity, prosperity/economy and planet/environment. (Adopted 07/17/15 - 6 yes, 1 abstain)

Recommendation for Universal Application with Automatic Referral Process. The city departments that provide services to low and low-moderate income customers based on income eligibility should use a universal application form that is not only immediately processed by the receiving department but also immediately referred to other respective departments. Variations in income eligibility requirements will be considered. The benefit of the program individually can be \$1,000 per home. (Adopted 08/07/15 - 7 yes, 0 no)

Recommendation for Program Goals. The City of Austin Sustainability Office uses a matrix of energy and non-energy benefits for evaluating its purchasing recommendations. The Low Income Consumer Advisory Task Force adopted this

matrix for evaluating energy efficiency programs for customer households with low and low-moderate incomes. The Task Force included the additional consideration of program impacts to Austin Energy's bad debt and collection costs. As a further refinement the Task Force adopted the goals for all programs and goals for programs serving low and low moderate income customers. (Adopted 08/21/15 - 8 yes, 0 no)

<u>Directive 2. Explore program options for low income and low-moderate income households such as income-sensitive sliding scale incentives, neighborhood-based energy efficiency programs, low-cost loans, combining community and city resources to effectively deliver programs, program cost-saving measures, and any other alternatives that will improve the effectiveness and cost efficiency of program delivery.</u>

Recommendation for Low-Interest Loans for Installation of Energy Star Window Units. Create a residential energy efficiency program to provide low interest financing for Austin Energy customers with low to low moderate family incomes to purchase and install energy efficient heating and/or cooling units. (Adopted 05/15/15 - 8 yes, 0 no)

Recommendation for Low Interest Loans for Comprehensive Energy Efficiency. Create a residential energy efficiency program to enable low and low moderate income homeowners to weatherize their homes and purchase energy efficient cooling and/or heating appliances. (Adopted 05/15/15 - 8 yes, 0 no)

Recommendation for On-Bill Repayment. Austin Energy would allow for repayment for energy efficiency retrofits on a customer's monthly bill. Rebates would also be provided for qualifying measures. (Adopted 08/21/15 - 6 yes, 2 no)

Recommendation for Contractor Rebate Pilot Program in Conjunction with Affordable Housing Projects. In addition to a stand-alone low income weatherization energy efficiency program approach, a residential low income weatherization rebate pilot program should be implemented in conjunction with the affordable retrofit housing programs administered by the City's Neighborhood Housing and Community Development department to obtain efficiencies of scope. Because of the leveraging of the weatherization program into the affordable housing programs, Austin Energy will be able to capture the additional demand and energy savings arising from the affordable housing programs. The provision of energy efficient appliances through bulk purchasing would be part of this program. The department would serve as a case manager to ensure Austin Energy is brought into the process. (Adopted 08/21/15 - 9 yes, 0 no)

Recommendation for Window Units for Vulnerable Populations. A residential low income energy efficiency program should be created to provide Energy Star window heating and/or cooling units including installation to low income who are certified by the medically vulnerable registry. This program would be implemented through the use of contractor rebates and the provision of Energy Star window cooling and/or heating units purchased by Austin Energy achieving discounts through the use of commitments to purchase appliances from retailers/manufacturers in the Austin area. (Adopted 08/21/2015 - 7 yes, 2 abstains)

<u>Directive 3. Identifying appropriate funding levels for low-income weatherization programs.</u>

Recommendation on Unspent Weatherization Funds. All unspent Energy Efficiency Services (EES) low-income weatherization funds, specifically reserved to low income customers since the Customer Benefit Charge (CBC) tariff went into effect should roll over to the next budget year, similar to the manner in which Customer Assistance Program (CAP) weatherization funds roll over. (Adopted 05/01/15 - 5 yes, 0 no)

Recommendation for Low and Low Moderate Income Program Budget. The City council should set a goal that a minimum of 25% of the Energy Efficiency Services budget should be spent on programs that help low and low moderate income residential customers, with at least 10% of the Energy Efficiency Services budget dedicated to the free weatherization program. Furthermore, At least 15% of the total distributed solar budget for new projects should be dedicated to projects that benefit low and low moderate income customers. (Adopted 09/04/15 - 6 yes, 1 no)

<u>Directive 4. Evaluate air conditioning incentive programs to ensure the programs are</u> promoting the highest equipment efficiency levels to the consumers.

Recommendation for Provision of Air Conditioners in Low-income Weatherization Program. To make Energy Star window unit air conditioners the standard air conditioning application in the low income weatherization program and to include under limited circumstances, repair and replacement of central air conditioners. Criteria should be developed to determine eligibility for window units and limited central air conditioning repair and replacement. (Adopted 08/21/15 - 8 yes, 1 abstain)

<u>Directive 5. Evaluate incentives or code changes that could encourage energy</u> efficiency measures in rental housing.

Recommendation to Earmark Specific Funding from Multi-Family Energy Reduction Program on Low and Moderate Income Customers. Utilize at least 50% of Austin Energy's multi-family budget to incentivize energy efficiency retrofits on multi-family properties that receive affordable housing subsidies from the federal, state, city, or county government or properties where housing choice vouchers are accepted as a form of payment or customers qualify for the Customer Assistance Program bill discount for at least 30 percent of the units." (Adopted 08/21/15 - 9 yes, 0 no)

Recommendation for Fractional (Virtual) Billing. In order to reduce the cost of providing solar energy to multifamily residents, including those in affordable housing, establish a policy and ability within the Austin Energy billing system to allow for fractional division of value of solar credits from a distributed solar system on a multifamily residential property to be divided and applied to multiple residential customer accounts. (Adopted 05/29/15 - 7 yes, 0 no)

Recommendation for ECAD (Energy Conservation Audit Disclosure)

Enforcement. Austin Energy should develop a plan for fully enforcing the entire ECAD ordinance, especially for those multi-family facilities whose electric cost is 150% of average electrical cost, and should present that plan to the Electric Utility Commission, the Resource Management Commission and the City Council for approval. Austin Energy should include funding for full enforcement of ECAD, according to the approved plan in its FY 2017 budget proposal. (Adopted 08/21/2015 - 9 yes, 0 no)

Recommendation to Amend the ECAD Program to Provide Recognition for Energy Efficient Rental Units. The ECAD Rules should be amended to establish an award or official recognition that the multi-family facility is in the 20% of energy efficiency based on the energy efficiency rankings. (Adopted 07/17/15 - 7 yes, 0 no)

Recommendation to Provide Internet Access of ECAD Disclosures. Make the results of ECAD audits and disclosure forms for multi-family properties available on the city's website. (Adopted 09/04/15 - 7 yes, 0 no)

Recommendation for Austin Housing Finance Corporation to Condition Financing on Applicant Request for Energy Efficiency and Solar Installation. Austin Housing Finance Corporation should condition financing approval to applicants involved with

affordable housing with a condition that applicant seek energy efficiency services from Austin Energy, including solar for new and/or substantial rehabilitation construction. Higher rebates should be considered for these applicants. (Adopted 08/21/2015 - 7 yes, 2 abstain)

Directive 6. Establish a demand reduction goal for low income and low-moderate income households as a percentage of the energy and demand response goals for 2024.

Recommendation for Energy Savings Goal. To establish a minimum energy savings annual target of one percent of total energy sales through energy efficiency and demand reduction programs. In future updates to the Austin Energy Generation Plan, assess meeting this level or higher energy savings goals, subject to future budgets, affordability and other factors. (Adopted 09/04/15 – 7 yes, 0 no)

Recommendation for a Low and Low Moderate Income Program Demand and Energy Savings Goal. The City Council should direct Austin Energy to set an annual demand savings goal for Austin Energy's energy efficiency programs targeting low and low-moderate income customers of no less than 5% of the utility's peak demand savings and furthermore set a goal of achieving at least 10% of the utility's annual peak demand savings through low and low moderate income programs within the next five years by annually raising the demand goal by 1%. (Adopted 09/04/15 – 7 yes, 0 no)

Directives 1 and 5

Recommendation to Update Base Energy Codes and Improve Collaboration of City Departments. City Council should direct the City Manager to work with Austin Energy and the relevant advisory committees, and city departments to adopt the 2015 IECC codes for residential construction, further the goal of net-zero capable homes, encourage widespread adoption of solar PV technology, and improve coordination between the Austin Energy Green Building Program, the Planning, Development and Review Department and Code Compliance. (Adopted 09/04/15 – 7 yes, 0 no)

LOW INCOME CONSUMER ADVISORY TASK FORCE

FINAL REPORT

DRAFT 6 FOR DISCUSSION

September 11, 2015

THIS DRAFT 6 IS THE FINAL DRAFT REPORT BEING SUBMITTED BY THE WORKING GROUP (LANETTA COOPER, CYRUS REED, CHRIS STRAND AND CAROL BIEDRZYCKI) FOR REVIEW BY AUSTIN ENERGY AND THE FULL TASK FORCE.

PLEASE BRING A HARD COPY OF THE REPORT WITH YOU TO THE SEPTEMBER 18TH MEETING AND BE PREPARED TO OFFER YOUR CORRECTIONS AND SUGGESTED CHANGES TO THE FULL TASK FORCE.

THE MEETING ON THE 18TH IS ESSENTIALLY DEVOTED TO THE REPORT. A VOTE WILL BE TAKEN ON THE FINAL REPORT ON SEPTEMBER 25TH. THE FINAL REPORT WILL BE SUBMITTED TO THE CITY MANAGER AND CITY COUNCIL ON OR BEFORE OCTOBER 1ST.

Executive Summary

This is the final report of The Low Income Consumer Advisory Task Force, created in November 2014 by the seven member at-large Austin City Council. The focus of the Task Force was directed at making recommendations to improve energy efficiency programs for low and low moderate income households served by Austin Energy. The following lists the six directives given in the resolution creating the Task Force and a summary of applicable recommendations adopted by the Task Force. The recommendations are followed by a list of items for further consideration as the Task Force ran out of time before all the ideas could be considered.

Directive 1. Make recommendations regarding the development, design, and implementation of energy efficiency and renewable energy programs to meet the demand reduction goals of low income and low-moderate income residential customer programs.

Recommendations:

- Austin Energy should improve and make more transparent the tracking of its energy efficiency programs.
- Adopt overall program goals and goals specific to low income programs.
- Establish an annual energy efficiency accounting true-up schedule.
- Adopt the triple bottom line used by the City of Austin Sustainability Office for program cost-effectiveness evaluation.
- Conduct a weatherization program cost reduction study.
- Establish a universal application process where city departments use a common application form that is immediately processed by the receiving department and referred to the respective departments.

Directive 2. Explore program options for low income and low-moderate income households such as income-sensitive sliding scale incentives, neighborhood-based energy efficiency programs, low-cost loans, combining community and city resources to effectively deliver programs, program cost-saving measures, and any other alternatives that will improve the effectiveness and cost efficiency of program delivery.

Recommendations:

- Provide low-interest loans for purchase and installation of energy star window units for energy efficient heating and/or cooling.
- Provide low interest loans for comprehensive energy efficiency to low moderate income homeowners to weatherize their homes and purchase energy efficient cooling and/or heating appliances.

- Allow for repayment of energy efficiency retrofits on a customer's monthly bill.
- Provide a contractor rebate pilot program to allow weatherization work to be completed in conjunction with affordable housing projects.
- Create a residential low income energy efficiency program to provide Energy Star window heating and/or cooling units including installation to low income households who are certified by the medically vulnerable registry.

Directive 3. Identifying appropriate funding levels for low-income weatherization programs.

Recommendations:

- All unspent Energy Efficiency Services (EES) low-income weatherization funds should roll over to the next budget year.
- A minimum of 25% of the Energy Efficiency Services budget should be spent on programs that help low and low moderate income residential customers, with at least 10% of the budget dedicated to the free weatherization program.
- At least 15% of the total distributed solar budget for new projects should be dedicated to projects that benefit low and low moderate income customers.

Directive 4. Evaluate air conditioning incentive programs to ensure the programs are promoting the highest equipment efficiency levels to the consumers.

Recommendations:

• In the Low-income Weatherization Program, make Energy Star window unit air conditioners the standard air conditioning measure, and under limited circumstances, include repair and replacement of central air conditioners.

Directive 5. Evaluate incentives or code changes that could encourage energy efficiency measures in rental housing.

Recommendations:

- Utilize at least 50% of the multi-family budget to incentivize energy efficiency retrofits
 on multi-family properties that receive affordable housing subsidies from the federal,
 state, city, or county government or properties where, in at least 30 percent of the
 units, housing choice vouchers are accepted as a form of payment or customers qualify
 for the Customer Assistance Program bill discount.
- Establish ability within the Austin Energy billing system to allow for fractional division of value of solar credits from a distributed solar system on a multifamily residential property to be divided and applied to multiple residential customer accounts.

- Develop a plan for fully enforcing the entire Energy Conservation Audit Disclosure (ECAD) ordinance, especially for those multi-family facilities whose electric cost is 150% of average electrical cost.
- Amend the ECAD program to provide recognition for energy efficient rental units.
- Make the results of ECAD audits and disclosure forms for multifamily properties available on the city's website.
- Require Austin Housing Finance Corporation to condition financing approval to
 applicants involved with affordable housing with a requirement that applicant seek
 energy efficiency services from Austin Energy, including solar for new and/or substantial
 rehabilitation construction. Higher rebates should be considered for these applicants.

Directive 6. Establish a demand reduction goal for low income and low-moderate income households as a percentage of the energy and demand response goals for 2024.

- Establish a minimum overall energy savings annual target of one percent of total energy sales through energy efficiency and demand reduction programs.
- Set a current demand savings goal for energy efficiency programs targeting low and low-moderate income customers of no less than 5% of the utility's annual peak demand savings and increase that goal 1% per year over the next five years reaching 10%.

Building Codes. The City should continue to improve energy efficiency standards for new construction, for both homes and apartments and continue to make sure new construction is more energy efficient by improving coordination between building code development, inspection and code compliance.

Items for Future Consideration.

- Continue the work of the Task Force through a new entity representative of the 10-1 Council.
- Conduct an audit and evaluation of the utility billing system.
- Expand the scope of the ECAD ordinance to cover rental properties with 1 to 4 units.
- Amend the multi-family program to better increase the efficiency of air conditioners in rental properties.
- Dedicating staff time to target owners of small units to personally contact and meet with landlords to explain the benefits of energy efficiency retrofit.
- Providing a free energy audit to renters that experience high bills.

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I. Introduction

This is the Report of the Low-Income Consumer Advisory Task Force, a nine member task force, created in 2014 by the seven member at-large Austin City Council. This final report is the culmination of a thirteen-month effort summarizing the findings and recommendations of the task force.

The Task Force was directed: to look for and recommend improvements to current low and moderate income energy efficiency programs; to consider and recommend new programs and new approaches for low and moderate energy efficiency and renewable energy programs; and to set program funding and demand savings goals for low and moderate income energy efficiency programs.

Over this past year the Task Force has heard from the community and City and County departments. Many of their comments were incorporated into the recommendations provided in this report.

This report provides background information on the task force composition and its activities, summarizes the recommendations adopted by the task force and identifies outstanding issues that the new city Council should consider assigning to a new task force where all the current council districts are represented.

This report is limited by the facts available to the Task Force. We found the data for the energy efficiency programs and for the energy efficiency rates funding these programs was not consistently reported. Some needed data were not collected. Some other data were improperly formatted lacking meaning and accessibility. Consequently, the report applied the data in a conservative manner.

Most of the recommendations in this report are intended to provide bill savings to more low and low-moderate income customers of Austin Energy than currently being provided. These bill savings will make Austin more affordable for these customers and will in all likelihood lead to reduced bad debt and collection costs for Austin Energy.

II. Background

The Low Income Consumer Advisory Task Force was created by City Council Resolution No. 20140828-158 to help the City Manager in his directive to "to implement a planning process to evaluate recommendations of the 2009 and 2014 Austin Generation Resource Task Forces and to develop program changes, including increases of the energy efficiency demand reduction goal and establishing energy efficiency programs, and funding levels for equitable, effective

program offerings for Austin energy's customers, with particular emphasis on low income and low-moderate income households."

The Task Force was directed to:

- Make recommendations regarding the development, design, and implementation of energy efficiency and renewable energy programs to meet the demand reduction goals of low income and low-moderate income residential customer programs
- 2. Explore program options for low income and low-moderate income households such as income-sensitive sliding scale incentives, neighborhood-based energy efficiency programs, low-cost loans, combining community and city resources to effectively deliver programs, program cost-saving measures, and any other alternatives that will improve the effectiveness and cost efficiency of program delivery.
- 3. Identifying appropriate funding levels for low-income weatherization programs
- 4. Evaluate air conditioning incentive programs to ensure the programs are promoting the highest equipment efficiency levels to the consumers
- 5. Evaluate incentives or code changes that could encourage energy efficiency measures in rental housing.
- 6. Establish a demand reduction goal for low income and low-moderate income households as a percentage of the energy and demand response goals for 2024.

A. Membership

Under the original resolution each of six council members and the mayor appointed one member to the Task Force and one member each was chosen from among the Electric Utility Commission and Resource Management Commission members. On August 6, 2015 City Council adopted Resolution No. 20150806-045 to minimally alter the membership.¹

The Task Force members include:

Carol Biedrzycki, Chair, Texas ROSE (Ratepayers' Organization to Save Energy)
Tim Arndt, Vice Chair, Energy Efficiency Consultant
Dan Pruett, Meals on Wheels and More
Cyrus Reed, Sierra Club
Lanetta Cooper
Richard Halpin, First Unitarian Universalist Church of Austin Green Sanctuary
Ministry
Chris Strand, Stan's Heating and Air Conditioning

Karen Hadden, SEED Coalition, Electric Utility Commission

¹ Task Force Member Kelly Weiss was replaced by Resource Management Commission member Michael Wong.

Michael Wong, Tom Green & Co. Engineers, Inc., Resource Management Commission

The task force was organized into three committees with the following membership:

- Low Income Energy Efficiency Programs -- Chair: Lanetta Cooper, Richard Halpin, Dan Pruett, and Karen Hadden. Low-income is defined as under 200% of the Federal Poverty Guideline and represents 28% of Austin Energy's residential customers.
- Low-Moderate Income Energy Efficiency Programs -- Chair: Chris Strand, Kelly Weiss, Cyrus Reed. Low moderate income is defined as 201% to 400% of the FPG and represents 38% of Austin Energy's residential customers.
- Affordable Rental Property -- Chair: Tim Arndt, Carol Biedrzycki, Cyrus Reed, Lanetta Cooper. In 2013 54.9% of all households were renters whose incomes are lower than income for homeowners.²

B. Summary of Task Force Activities

The task force held its first meeting on November 5, 2014 and held a total of 23 meetings before October 1, 2015. In addition to the 23 meetings held to discuss the issues, a town hall meeting was held on June 1, 2015 at the South Austin Recreation Center and a community review was held at the Austin Energy Affordable Energy Policy Summit on July 17, 2015. The Task Force chair and vice chair also attended the Community Power Forums held by the Sierra Club on February 28, and May 9, 2015 to meet with the public.

The task force began its first two meetings in January by inviting panels of city staff and nonprofit organizations to provide input to the discussions. A third panel was organized specifically on the subject of on-bill financing and repayment.

The January 9, 2015 meeting included a discussion panel for city departments serving the low income community and utilities. Representatives shared information about their low income programs, their funding sources, and how they currently work with Austin Energy and other agencies. Participating departments and individuals included: Letitia Brown, City of Austin Neighborhood Housing and Community Development Office; Cara Welch, City of Austin Neighborhood Housing and Community Development Office; Maria Allen, City of Austin Health and Human Services; Nick Waken, Housing Authority of the City of Austin; Mark Jordan, Austin Water Utility; Elena Rivera, Travis County Health and Human Services; and Julie Hatfield, Texas Gas Service.

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² 32.8% of renters had a household income of less than \$25,000. 63.9% of renters had a household income of less than \$50,000. 22.2% of homeowners had a household income of less than \$25,000. 46.8% of homeowners had a household income of less than \$50,000.

The January 16, 2015 meeting included a nonprofit discussion panel. Representatives shared information and thoughts on how to improve energy efficiency for low income people. They discussed their low income programs, funding sources, and how they currently work with Austin Energy and/or other agencies. The discussion included Chantel Bottoms, The United Way for Greater Austin, 211 Service; Susan Peterson, Foundation Communities; Letitia Brown, Neighborhood Housing and Community Development and Austin Housing Finance Corporation; Jesse Porter, Austin Habitat for Humanity; Charles Cloutman, Meals on Wheels and More and Housing Repair Coalition; and Katharine Stark, Austin Tenants Council.

A third panel discussion was held on March 13, 2015 regarding financing options for energy efficiency and solar applications. Participating were: Doug Lewin, Executive Director, Southwest Partnership for Energy Efficiency as a Resource (SPEER); John Hall, Environmental Defense Fund; Janee Briesemeister, Retiree from AARP; Ruby Roa, Retiree from Austin Energy and Mark Rogers, Executive Director, Guadalupe Neighborhood Development Corporation.

C. Briefings and Reports

From November 5, 2014 to November 1, 2015 the Task Force provided the following briefings and reports.

04/01/15	Preliminary report submitted to City Manager
04/21/15	Preliminary report presented to Resource Management Commission
05/28/15	Briefing to the City Council Austin Energy Utility Oversight Committee
06/12/15	Interim Report Submitted to City Manager
06/16/15	Report scheduled for Resource Management Commission (Meeting Cancelled)
09/15/15	Report scheduled for Resource Management Commission
09/21/15	Report scheduled for Electric Utility Commission
10/01/15	Final Report submitted to City Manager

D. Demographics

Austin Energy provides electrical service to a population of almost one million spread over 437 square miles of service territory, 277 of which are within the Austin City limits. All but 15 of those miles are within Travis County.³

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³ See service area map of Austin Energy located in the appendix of this report.

Forty-five percent of Austin Energy's customers are homeowners while 55% rent.⁴ Overall, customers who rent are more likely to have lower incomes than those who own homes. Data show that 32.8% of renter households in Austin have annual income under \$25,000 and another 31.1% have income between \$25,000 and \$49,999. Thus, 63.9% of renter households have income under \$50,000 per year.⁵ Median household income for renters is \$37,538 compared to \$85,246 for homeowners.⁶

Furthermore, 21.9% of the homeowners in the Austin-Round Rock metro area spent 30% or more of their household income on housing in 2013; 9.1% spent 50% or more on housing. In 2013 the median owner household income was \$82,200 with 88,100 homeowners burdened with housing costs. Renters are more disproportionally poor than homeowners in the Austin-Round Rock metro area having a median household income of \$40,000 in 2013 with 138,900 renter households burdened with housing costs. 48.3% of all renters spent more than 30% of their household incomes on housing in 2013; 24.4% spent 50% or more on housing. 10

Austin Energy estimates that 28% (118,241)¹¹ of its customers have family incomes at or below 200% federal poverty guidelines,¹² the income eligibility cap for the low income weatherization program. Of this amount, up to 43,000 households in FY 2014 were customers enrolled in the Customer Assistance Program ("CAP") that provides rate discounts.¹³

An additional 15.2% (64,000)¹⁴ of Austin Energy's customers have family incomes between 201 and 300% federal poverty guidelines. The Center for Public Policy Priorities report that an Austin family of four needs household income levels of 220% to 280%¹⁵ federal poverty guidelines just to get by.¹⁶ This group of customers gets little assistance from Austin Energy. They do not qualify for the CAP program providing bill relief through rate discounts nor do they qualify for the energy efficiency low income weatherization program. Yet this group generally

⁴ U.S. Census Bureau, American FactFinder, S2503 Financial Characteristics.

⁵ *Ibid.*

⁶ Ibid.

⁷ Joint Center For Housing Studies of Harvard University, "The State of the Nation's Housing " (2015), data from interactive map on Center's website—http://Harvard-

cga.maps.arcgis.com/apps/MapSeries/index.html?appid=Offea521479a4585b383169f00e2aa9.

⁹ ld.

¹⁰ ld.

¹¹ See "Update of Energy Burden Tables," (Austin Energy 2015).

¹² Federal poverty guidelines is a federal poverty measure (expressed in annual or monthly dollars starting with a one-person household level and increasing as the number of the household members increase) issued each year in the Federal Register by the Department of Health and Human Services.

¹³ Austin Energy, 3rd Quarter Report, Fiscal Year 2014.

¹⁴ See footnote No. 2.

¹⁵ The range is dependent upon whether the household pays for all or only a part of the family health care premium.

premium.

16 Better Texas Family Budget, Data Center located at http://familybudget.org. Copies of the budget calculator are included in the appendix.

has inadequate resources to be able to participate in any of the electric utility's energy efficiency programs.

Approximately 13% (53,900) of Austin Energy's customers have family incomes between 301 and 400% of Federal Poverty Guidelines. ¹⁷ This is the last population segment the Task Force was directed to focus on in carrying out its duties under the Council's resolution.

This is an income range of \$35,301 to \$47,080 for an individual and \$72,501 to \$97,000 for a family of four. The Federal Poverty Guidelines for 2015 for a family of 4 is set at \$24,250. Some studies show that in the Austin Round Rock area the real poverty guideline should be about 280% of the guideline set by the Federal government for the 48 contiguous states. The disparity in cost of living in different states or in different cities in Texas is very wide. For example, look at Austin/Round Rock and Beaumont. The overall cost of living is ranked at 103 for Austin/Round Rock and at 86 for Beaumont. Housing in Austin is ranked at 132 versus 42 for Beaumont, Taxes 82 versus 42 and health care is the same at 110. Someone living at 400% of the Federal Poverty Guidelines in Austin would not be considered poor but would certainly not be considered rich. These would be households that have a roof over their heads, food on the table, health insurance, a retirement account, and more. But they would likely not have a boat, expensive clothes, or take fancy trips. This is a substantial portion of the residential customer population and may be an important segment to tap to realize the utility's energy efficiency goals.

The survey data provided by Austin Energy to the Task Force is unsuitable for drawing any conclusion about the participation of the 301 to 400% of poverty income group in Austin Energy's programs. Many working families are leaving Austin to live in less expensive outlying areas. It is reasonable to assume that this income group may require some more aggressive "marketing" (like landlords) to participate in an energy efficiency program and may require. special terms and conditions to be able to afford to invest in energy efficiency.

Austin Energy's energy efficiency program is funded with a separate rate combined with two other rates into a community benefit charge for utility billing purposes. Customers qualifying for the low income weatherization program paid Austin Energy \$5,603,065.80 in energy efficiency rates representing Austin Energy customers whose household income levels are from 0 to 200% federal poverty guidelines.²⁰ Adding in Austin Energy customers whose

¹⁷ Memorandum to Low Income Consumer Advisory Task Force from Liz Jambor, EdD, Manager, 01//5/15., p 5

http://aspe.hhs.gov/2015-poverty-guidelines

¹⁹ http://cost-of-living.startclass.com/d/d/Texas

²⁰ This report used the average kWh monthly consumption for CAP customers for FY 2014 and multiplied that amount by twelve and by the estimated number of households whose incomes were at this level; and lastly multiplied that total by \$.004.

family income levels are between 201 and 300% federal poverty guidelines²¹ adds an additional \$3,033,808.90 in energy efficiency rates collected raising the total Austin Energy recovered to \$8,636,874.70.²² Continuing these consumption level assumptions to the population segment whose household incomes are between 301 to 400% federal poverty guidelines adds an additional \$2,555,035.93 to bring the total estimated energy efficiency rates paid by Austin Energy customers whose household incomes are from 0 to 400% federal poverty guidelines to \$11,191,910.63.²³

The amount of energy efficiency monies spent on low income weatherization programs does not match the amount of energy efficiency monies collected from Austin Energy's low income customers. In FY 2014, Austin Energy spent \$729,547 out of \$32,745,229 in energy efficiency expenditures²⁴ on the low income weatherization program while taking in \$5,603,065.80 from its low income customers, thereby showing a disparity between benefits received (energy efficiency programs) and costs incurred (energy efficiency rates paid).

The amount of money that was budgeted through the Energy Efficiency Service Fee for low-income weatherization in FY 2014 was only \$729,547; however, there were other programs that did benefit low-income and low--moderate income ratepayers. The CAP budget includes \$1 million annually for low income weatherization for customers enrolled in the CAP bill discount program. This service is funded by a CAP rate²⁵, with about \$3,316,259 in CAP rates provided by low and low-moderate income customers in FY 2014. Second, some projects participating in the Greenbuilding program involved buildings in which low and low-to-moderate income families reside. Unfortunately, there are no data available regarding low and low moderate income customers benefitting from the program. The same is true for the Multifamily Energy Efficiency Program. Overall, the low and low-to-moderate income ratepayers appear to be contributing significantly more to the EES budget than they are receiving in EES program services.

This disparity becomes even more pronounced for Austin Energy's customers whose family income levels are between 200 and 301% federal poverty guidelines. These customers received little if no direct energy efficiency benefits yet pay \$3,033,808.90 in energy efficiency rates.

²¹ See footnote No. 7.

²² See footnote No. 15

²³ Id

²⁴ Austin Energy response to public information request (June 4, 2015 and May 22, 2015).

²⁵ The CAP rate is part of the Community benefit Charge.

²⁶ This amount was calculated by multiplying the number of customers from 0-400 less the number of CAP customers for FY 2014 multiplied by the monthly average kWh times 12 times \$.00145 representing the average of the inside city limits residential CAP rate and the outside city limits residential CAP rate. At 0-300% FPG the CAP funded contribution would have been \$2,390,592 and at 0-200% FPG the amount would have been \$1,291,469/

Direct access to energy efficiency programs is important because the benefits accruing for the low income customers are lower electric bills and healthier homes. From the utility's perspective, energy and demand savings benefits are lower capital costs, reduced fuel and operations and maintenance costs and a savings due to having less bad debt and collection costs. Austin Energy data reported through two color coded zip codes maps of City of Austin one for the amount of payment arrangements and one for below average incomes and above average poverty. The maps reveal a relationship between Austin Energy's debt and the household incomes of its customers. The higher the debt in a zip code shows that zip code to have a higher incidence of poverty. Copies of these two maps are included in the appendix.

A. History of Residential Low Income Energy Efficiency Program and **Multifamily Energy Efficiency Program**

Low-Income Energy Efficiency Program

The history of the low-income energy efficiency program explains the many changes the program has undergone over the past 33 years. This information is important because the Task Force, Austin Energy, and the City Council must be aware of differences in the program at different points in time. The scope of income eligibility and the types of energy efficiency measures installed has not remained constant over the years.

Started in 1982, Austin Energy has had one residential low income energy efficiency program, called the free weatherization program. ²⁷ Since this time, Austin Energy has weatherized over 17,000 residential units.²⁸ In the process of implementing this program Austin Energy has partnered with other city departments, other utilities and non-profit organizations. Currently, Austin Energy is coordinating with Austin Water Utilities, Texas Gas Service, the State of Texas, Neighborhood Housing and Community Development, Travis County and the Austin Home Repair Coalition.

The income eligibility requirements for this program have changed over time. Initially, the programs only covered those AE customers whose household incomes were at 100% of the federal poverty levels. The eligibility was later raised to cover customers at 150% of the Federal Poverty Guidelines, and eventually when Austin Energy implemented the American Recovery and Reinvestment Act's ("ARRA") weatherization assistance program grant, the eligibility was raised to cover customers at 200% or below of the Federal Poverty Guideline. This eligibility continues today. ²⁹. ³⁰ Austin Energy processed customer applications for income eligibility up

²⁷ AE memo to Task Force, "Questions Concerning Questions Submitted by Lanetta Cooper in July 17. 2015 Low Income Advisory Task Force" (August 14, 2015) ("August 14 memo answering Cooper"), See also AE memo to Task Force, "Questions Concerning the Changes of Costs Associated with AE Weatherization Program" (August 14, 2015) ("AE memo on changing costs").

²⁸ AE memo on changing costs ²⁹ *Id.*

through the implementation of the ARRA-funded weatherization program. Sometime afterwards, Austin Energy started relying upon referrals by other city departments, Austin Energy divisions, and entities that income qualified their clients. Today, Austin Energy primarily obtains its customer referrals from the customer assistance program ("CAP"), an Austin Energy program that provides a rate discount and funds for billing assistance to low income customers.

The initial weatherization program provided weather stripping around entry doors and attic insulation.³¹ Question for AE: did the initial program limit its eligibility to low income elderly or disabled customer? And was there a cap on expenditures per household? (GDS provided some granular info but it was for when the program ee options were expanded.)

In the mid-2000, AE expanded its energy service improvement options to include sealing and repairing of ducts, solar screen installations, compact fluorescent light bulbs, carbon monoxide and smoke detectors and minor home repairs to improve the effectiveness of the energy efficiency improvements that were made. Customer eligibility for the program was still limited and a \$1,500 cap on per home expenditure was established.³² Austin Energy provided the energy efficiency improvements to their eligible customers through contractors expending on average \$1,300 per house from 1996-2009.³³

During Austin Energy's expenditure of the American Recovery and Reinvestment Act (ARRA) grant funds (2010-2012)³⁴ the utility expanded the low income weatherization program by providing the same energy efficiency service improvements but removed the expenditure cap thereby allowing all needed energy efficiency service improvements to be made. AE added repair and/ or replacement of HVAC (heating ventilating and air conditioning), compact fluorescent lighting and refrigerator replacements as energy efficiency service improvement options. In addition, a budget for minor repair work was also allowed under the program. Eligibility for the program was extended to all customers whose household incomes were at 200% federal poverty guidelines or less with priority given to vulnerable populations and low income customers with high electric bills. An expense limit of \$6500 per household was

³⁰ *Id.*

³¹ *Id.*

³² *Id.,* GDS Associates, Inc., "Weatherization Assistance Program Evaluation of Austin Energy's ARRA-supported Weatherization Assistance Program ("WAP") FINAL REPORT, p. 40 (January 30, 2015) ("GDS Report").

³³ AE memo on changing costs

³⁴ In FY 2012, Austin Energy successfully met stringent federal funding guidelines to complete the weatherization of 1,886 homes — 77 percent more than the original goal — for customers living in poverty or with low incomes. Despite complex process requirements and a strict schedule that resulted in other award recipients losing awarded funds, Austin Energy's performance was so consistent that the utility received additional funding that ultimately totaled \$9.2 million — 60 percent more than the original award. Under this program, each dwelling received, on average, about \$5,000 worth of improvements including new energy efficient appliances, and air conditioning and heating equipment. AUSTIN ENERGY ANNUAL PERFORMANCE REPORT Year Ended September 2012, Published July 26, 2013.

established. 35 During this time period, Austin Energy continued to utilize contractors expensing \$4339 per participant.³⁶ This low income weatherization program continued into FY 2014; however material and contractor costs increased such that Austin Energy expensed an average of \$5,167 per participant.³⁷

Sometime in FY 2015 Austin Energy dropped the HVAC repair or replacement and the refrigerator replacement as energy efficiency service improvement options from its low income weatherization program. Subsequent to the initiation of meetings by the Task Force in FY 2015 Austin Energy added the installation of window air conditioning and/or heating units as energy efficiency options for low income vulnerable customers qualifying for the program. Material and contractor costs increased again such that even with the decreased energy efficiency service improvement options (including deleting the most expensive option, central A/C replacement), Austin Energy is expensing approximately \$3,800 per participant in this current FY, an average that rises to \$4,000 if you include water conservation measures paid for through a separate budget from Austin Water Utilities. 3839

Detailed information on number of participants, the amount spent per participant, energy savings and the cost of individual measures covered in the Weatherization program can be found in the appendix.

The current energy efficiency service options are promoting reasonable energy conservation options, health and safety measures, bill relief, and debt and collection cost reduction. Still, the ever increasing material and contractor costs challenge the cost effectiveness of the program and achieving greater energy savings per dollar spent should be a goal shared by the community, Austin Energy and the Council. Toward this end, the Task Force has provided some recommendations such as price discounts by contracting with a sole or a few retailer/manufacturers for materials and leveraging that address this challenge, as well as neighborhood-based pilot projects to better bring synergies between Austin Energy and Neighborhood Housing.. More can be done. This challenge will continue going forward and we urge the council to move forward with our recommendation to have the city manager conduct a weatherization program cost study as described in section III. C of this report.

³⁶ AE memo on changing costs. ³⁷ AE memo on changing costs.

³⁵ GDS Report at p. 9

³⁸ AE memo on changing costs. See also Austin Energy Weatherization Measure and Labor Cost (2005-2015) in the Appendix that shows the increasing material and contract costs for certain energy efficiency service improvement options.

It should also be noted that only 13 households qualified for widow a/c units in FY 2015. We need a source for this fact. I found it in Chris's summary.

2. Multi-Family Energy Efficiency Programs

The Multi-Family Energy Efficiency program is perhaps the most important program that should be expanded to better serve low and low moderate income customers. Over half-- 55%-of Austin residents live in rental housing. Most housing units –61%--were built before 1990 and 40% were built between 1970 -1989. Census data further indicate than households who rent have lower income than those who own their own homes. Approximately 22% of owners have income below \$25,000 compared to 33% of renters. Approximately 47% of owners have income under \$50,000 compared to almost 64% for renters. Providing a greater amount of energy efficiency program activity in rental property is highly likely to benefit low and low moderate income customers. Tracking of demographic data for participants is highly encouraged to help determine the distribution of energy efficiency benefits to different income groups.

The inability of many renters to pay their utility bills is because of high usage that could be reduced with energy efficiency improvements. These are improvements that make living in the apartment unit more affordable for the tenant and contribute to Austin Energy's energy efficiency and climate protection goals. The current multi-family program through high rebates (85 to 90% of project costs) to owners of rental properties has been successful in promoting air infiltration measures, duct sealing, insulation, solar screens, pipe wrap, compact fluorescent lighting and low-flow water devices. However, the program does not appear have success in having landlords replace air conditioning units that are the drivers of high bills for many low and low moderate income renter households.

Austin Energy has provided rebates and other incentives to Multifamily building owners for many years. While the exact amounts paid and measures covered have changed over the years, essentially building owners that qualify hire pre-approved contractors through the program. The Table below shows the current measures that are covered by the program, as well as the amount of the rebates offered. While the incentives are "rich" the program is aimed at solving the issue claimed by many that building owners don't pay the resident's energy bills and so have little or no incentive to make energy efficiency improvements. The theory of the split incentive has been the mantra of utilities for having more difficulty achieving energy efficiency success in rental properties. However, there are studies that question the split incentive theory citing benefits such as a more marketable rental property because of better

⁴³ Ibid.

⁴⁰ 2014 Comprehensive Housing Market Analysis City of Austin Final Report, July 31, 2014 Prepared for City of Austin Neighborhood Housing and Community Development, 1000 E 11 St. Austin, TX 78702 by BBC Research an Consulting, 1999 Broadway, Suite 2200, Denver, Colorado 80202-9750 p. 9.

⁴¹ Idid., p. 6.

⁴² U.S. Census Bureau, American Fact Finder, S2503 FINANCIAL CHARACTERISTICS, 2009-2013 American Community Survey 5-Year Estimates

overall condition, newer appliances and lower utility bills, fewer maintenance calls and enhanced property values for the owner. ⁴⁴ The Multifamily Program is an attempt to provide incentives to reluctant rental property owners to make improvements that that will result in energy savings for renters and help to alleviate the financial impact of the split incentive.

In the course of the Task Force meetings, a continual message delivered by members of the public is that Austin Energy needs to do more to make rental properties more efficient. Many residents of older apartment complexes are plagued by air conditioners that are 30 years old. They still work and therefore property owners are under no obligation to replace them but they use high amounts of electricity produce utility bills that many households cannot afford to pay.

B. Equity

Equity is identified as one of the pillars of sustainability. Equity is a concept that would have a publicly owned entity such as Austin Energy provide energy efficiency programs to all customers, assuring that a fair share of the revenue collected from all customers is distributed in an equitable manner. The Generation Planning Task Force Report provide the following guidance:

Services, programs and policies need to be structured to assure equal access to service and an equitable distribution of benefits to all customers and to prevent subsidies to wealthier customers being paid for by lower-income consumers. Equity places a greater emphasis on economic justice and fairness than on economic efficiency. 46

A question that arose in the generation planning process carried over to the Task Force. What is the income level of residential households who benefit from Austin Energy's energy efficiency programs? At the onset of the task force process Austin Energy provided limited customer survey data and asked that the data not be used to support a conclusion. Austin Energy cautioned that the survey data was insufficient and could not be used to support a conclusion. This statistically deficient data supported a conclusion that the only energy efficiency program reaching low income customers was the low income weatherization program. Later in the process Austin Energy provided statistically valid survey results that continue to support the fact that most of the energy efficiency program benefits are reaching

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⁴⁴ Michael Carliner, Reducing Energu Costs in Rental Housing *The Need and Potential*, Joint Center for Housing Studies at Harvard University, December 2013

 $^{^{45}}$ THE REPORT OF THE AUSTIN GENERATION RESOURCE PLANNING TASK FORCE JULY 2014, p 5.

⁴⁰ *Ibid.* p. 10.

⁴⁷ Memorandum to Low income Consumer Advisory Task force from Liz Jambor, EdD, DABI, March 24, 2015, Survey Demographics and Satisfaction Levels.

upper income households.⁴⁸ The later survey shows that the average income of a customer receiving weatherization is \$31,100 compared to \$94,000 for residential customers receiving rebate.⁴⁹ The survey further shows that 11.9% of the 453 residential customers receiving rebates had income below \$50,001, whereas 67% of weatherization recipients have total household income under \$50,000.⁵⁰ The customers benefiting from the Multi-family Energy Reduction Programs and Solar Rebate programs were not included in the survey.

The directives of the Council Resolution, the finding of the demographic survey conducted by Austin, and the needs expressed by the community have been the drivers of the Task Force recommendations.

III. Recommendations

A. Global Recommendations

Many of the issues discussed and recommendations made by the Task Force involved specific programs goals and designs to better serve low and low moderate-income Austin Energy ratepayers, while others were more "global" – that is fundamental to how the programs work, are reported and assessed. In addition, some other recommendations and issues go beyond narrow program issues, since they involve wider programs that affect all ratepayers, including low-income consumers. Thus, this section summarizes the issues and recommendations made by the Task Force on these "global" issues.

The Task Force discussed and is asking the Council to take action on the following recommendations:

- A. Establishing the long-term demand and energy saving goals for Austin Energy for its demand response and energy efficiency programs, as well as a specific demand, energy savings and units weatherized as part of the weatherization goals;
- B. Adopting a more expansive "triple bottom line" evaluation in considering the benefits and costs of energy efficiency and solar programs, including low-income energy efficiency and weatherization;
- C. Improving Transparency, Reporting and Accountability for the Energy Efficiency,
 Demand Response and Solar Programs supported by Austin Energy and its ratepayers;
- D. Allowing for a mid-course "true-up" correction in the annual budgets with City Council oversight -- in March for the energy efficiency, demand response and solar programs.
- E. Improving building energy performance through continued improvements in building

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⁴⁸ Memorandum to Low income Consumer Advisory Task force from Liz Jambor, Customer Energy Solutions, August 24, 2015, Survey Results per Resolution No. 20140828-158.

⁴⁹ *Ibid*. p. 2.

⁵⁰ *Ibid* p. 15 and p 27.

energy codes for new and rehabilitated residential and multi-family buildings, as well as through improved coordination, planning and compliance between Austin Energy, PRD and Code Compliance.

The Task Force understands and supports the need for Austin Energy to assess the cost-effectiveness of its programs. How much on a per-participant or per-kilowatt hour saved or per-kilowatt reduced basis do the programs cost? What is the cost to the utility of the programs? How can costs, be they incentives to contractors, or administrative costs be reduced?

Programs – especially those designed to help our most vulnerable consumers –should be judged on more than narrow utility cost test criteria. Instead, the overall societal benefits should be considered, and toward this end, the Task Force recommended the adoption of a Triple Bottom Line evaluation, similar to that used by the City of Austin Sustainability Office. Thus, issues of environmental improvement, economics and equity should be considered when evaluating the successes of a program like low-income weatherization.

1. Establishing goals for energy savings.

<u>Recommendation</u>: Establish a minimum energy savings annual target of one percent of total energy sales through energy efficiency and demand reduction programs. In future updates to the Austin Energy Generation Plan, assess meeting this level or higher energy savings goals, subject to future budgets, affordability and other factors.

Targeted Underserved Group: Low and low moderate income customers and renters

Time Schedule: Implement in 2016

<u>Budget Impact:</u> Accomplish within current budget.

Community Need: Access to affordable electricity is a basic need for lighting, refrigeration and fans. Inability to pay is a growing problem for low income homeowners and renters. The most effective way to provide an affordable supply of electricity for those with low and marginal income is to treat the root of the problem – old energy inefficient buildings and equipment.

Description: While peak energy use – both in the summer and winter – is extremely valuable both to customers and to the utility – the amount of energy (kilowatthours or kWh) used year-round – is equally important. Reduced kWh use can lower customers' bills, reduce operating costs such as fuel and maintenance and is the driver for reducing emissions. Reduced kWh use when it is the result of more efficient building envelopes and replacement of equipment and appliances with more efficient models reduces demand whenever the equipment is being used.

Having every customer use less kWh allows a growing utility, like Austin Energy, to defer or eliminate new capital investments in power plants.

While Austin Energy unofficially maintains and reports energy savings goals, a permanent energy savings goal for Austin Energy's energy efficiency and demand reduction programs would establish that energy savings should be targeted in the long term planning process along with reduced demand. Energy savings goals are consistent with industry practice. As an example, the State of Texas requires that Investor-Owned Utilities establish and meet both a demand reduction and energy savings goal. In addition, many states require their utilities to establish an energy savings goal, usually from between a half a percent of use up to three percent of use. ⁵¹

Establishing an energy savings goal is the most effective way to assure that Austin Energy does not focus solely on demand response programs, which have little or no impact on the amount of energy residential consumers use and therefore do little or nothing to reduce their monthly bills. Moreover, energy savings goals contribute directly to the reduction of carbon and other pollutant emissions that are reported to the Texas Commission on Environmental Quality. Energy savings are a key contributor to meeting the City's Climate Protection Plan goals and the planning for energy efficiency programs should maximize the environmental benefits of all programs.

The one-percent goal recommended here should be only a beginning. The current programs appear to have met this target in 2014. The following table shows that over the past four years kWh savings ranged from 0.92 to 1.01% of annual sales.

Year **Total KWh Sales Total Reported** % of Sales **Energy Savings** FY 2011 117,298,000 12,723,303,281 0.92% FY 2012 0.85% 12,715,146,231 108,606,000 FY 2013 12,270,733,600 0.96% 117,198,000 FY 2014 12,588,000,000 127,649,000 1.01%

Table 1. Current Energy Savings by Year

Sources: Austin Energy, Customer Energy Solutions, Program Progress Report 2014-2015.

Austin Energy, Annual Report, 2011-2014.

⁵¹ American Council for an Energy-Efficient Economy, Policy Brief: State Energy Efficiency Resource Standards, April 2015, available at http://aceee.org/sites/default/files/eers-04072015.pdf

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Thus, a one-percent target for energy savings is readily achievable within current budgets. In future Generation Plan updates, Council should examine this one-percent target and consider other appropriate levels ranging from one to two percent of total sales, which many utilities throughout the country are readily achieving. ⁵²

2. Low and Low Moderate Income Program Demand and Energy Savings Goal

<u>Recommendation:</u> The Council should set a current demand savings goal for Austin Energy's energy efficiency programs targeting low and low-moderate income customers of no less than 5% of the utility's annual peak demand savings and increasing that goal 1% per year over the next five years reaching 10%

<u>Targeted Underserved Groups</u>: Low and Low moderate Income Customers

<u>Time Schedule</u>: Implement in 2017

Budget Impact: Unknown

<u>Community Need:</u> An estimated 58% (236,141) ⁵³ of Austin Energy's residential customers have income incomes below 400% of the Federal Poverty Guideline (FPG) and therefore represent the total population of low and low moderate income customers taking service from Austin Energy. Customers living with income below 50% of the Federal Poverty Guideline (FPG) spend 37.6% of household income on electricity. Those at 51 to 100% of FPG spend 11.3% and those at 101 to 200% FPG spend 5.9%. Those above 400% of the FPG spend 1.6%⁵⁴.

The majority of Austin Energy's residential customers are low and low moderate income. However, as discussed in the equity section of this report there is little or no data to indicate how large a share of energy efficiency program benefits low and low moderate income customers are receiving. By establishing a measurable goal demand and energy savings goal the City Council would set a standard that works toward having more equitable programs and reporting data related to the fulfillment of the goals would be incorporated into the Energy Efficiency Services reporting system. Setting a demand savings goal for low and low-moderate income energy efficiency programs is one of the tasks assigned the Task Force by the Council.

<u>Description</u>: While AE has set overall demand savings goals on an annual basis, it has not done so for specific programs. Under this proposal Austin Energy would also set corresponding demand and energy savings goals associated with the demand and energy savings that would

⁵² American Council for an Energy-Efficient Economy, Policy Brief: State Energy Efficiency Resource Standards, April 2015, available at http://aceee.org/sites/default/files/eers-04072015.pdf

⁵³ Memorandum to Low Income Consumer Advisory Task Force from Liz Jambor, EdD, Manager, 01//5/15., p 5. ⁵⁴ *Ibid*.

benefit low and low moderate income customers. This is already a practice in investor owned utilities in Texas where 5% of all demand savings must be achieved in programs serving customers with income at or below 200% of the Federal Poverty Guideline. This is the same income group served by Austin Energy's Free Weatherization program. Thus, a 10% demand savings goal for both low and low-moderate income energy efficiency programs should be reasonable to achieve.

The low income weatherization budget of \$4.2 million recommended by the Task Force will conservatively weatherize 1000 homes that should provide at least 1MW in annual peak demand savings based upon past practice. As an example, Austin Energy reports that in 2011 when over 1000 homes were weatherized more than 1 MW of demand was reduced and over 1,000 MWhs of energy were saved. More aggressive study is needed to identify cost reduction strategies.

3. Establishing budget goals.

<u>Recommendation</u>: The City Council should set a goal that a minimum of 25% of the Energy Efficiency Services budget should be spent on programs that help low and low-moderate income residential customers, with at least 10% of the Energy Efficiency Services budget dedicated to a free weatherization. Furthermore, at least 15% of the total distributed solar energy budget for new projects should be dedicated to projects that benefit low and low moderate income customers.

Targeted Underserved Groups: Low and Low Moderate Income and Renter Customers

<u>Time Schedule:</u> Implement in 2017 city budget

<u>Budget Impact:</u> Can be accomplished within current budget levels

<u>Community Need:</u> Cite customer survey, estimated contribution to EES fee, etc.

<u>Description:</u> The current low and low to moderate income energy efficiency programs consist of a free weatherization program. In addition, a relatively small amount of AE energy efficiency expenditures have been made to provide solar incentives on multi-family affordable housing properties. In addition, a relatively small amount of AE energy efficiency expenditures have been made to provide solar incentives on multi-family properties. The number of low and low moderate income customers that may be served by other Austin Energy programs in unknown. The Task Force was made aware of solar projects through its community panels from representatives of Foundation Communities and Gualdalupe Neighborhood Housing Corporation The task force is also aware of individual "Green Building" projects that benefit

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⁵⁵ Public Utility Commission of Texas Substantive Rule Chapter 25 Section 183(e)(3)(F).

low-income and low-moderate income individuals such as the Guadalupe-Saldaña net-zero home project. The available data indicate that funding for designated low-income and low-moderate income residents has made up a relatively small part of the energy efficiency budget. The level of funding provided should at least be equal to the contribution made by low and low moderate income customers to the energy efficiency service portion of the community benefit charge. Otherwise,

In budgeting for the future in compliance with these recommendations the City should consider the following as program and budget options:

- At least \$4.2 Million for Low Income Weatherization
- \$400,000 for emergency window air conditioners for the medically vulnerable
- Increased budget for the multi-family program dedicated to properties renting to low income and low moderate income customers
- Increasing the cap on incidental repairs for the weatherization program from \$500 to \$1,500.
- New pilot programs such as creating a loan loss reserve
- Green Buildings for low-moderate income customers
- Higher rebates and more generous financing terms for those in the 301 to 400% of the federal poverty guideline income bracket.
- Free energy audits for renters with high bills.

4. Program Evaluation Policies

<u>Cost effectiveness test of energy efficiency and renewable incentives for low to moderate income households in homeowner and rental properties:</u>

Everyone pays into the Community Benefits Charge on their electric bill from Austin Energy on kWh used. The cost effectiveness test Austin Energy uses to only measures peak kW demand reduction based on the cost of building a new power plant. Other factors should be considered like kWh reduction that increases affordability, Health and Safety that improves the quality of life of a resident through better indoor air quality or reduced risk of fire. Energy efficiency also creates local jobs. The City of Austin Sustainability Office uses a Triple Bottom Line for evaluating purchasing recommendations. The graphic below is from a presentation developed to deliver to Council by Zach Baumer (March 2015):



Recommendation: The taskforce recommends that the cost test also consider the energy and non-energy benefits not included in current calculations such as:

Economic/ Prosperity	Environmental/ Planet	Social/ People & Equity
Cost of energy (kWh and kW)	GHG emissions	Affordability
Employment	Water use and impact	Fair distribution of
Industry expansion	Air quality (including indoor)	Community Benefit Charge
Energy grid purchases and	Land use impacts	Funds
security (ERCOT energy		Health impacts
purchases)		Education opportunities
Market demand		Energy access
Climate resilience		Safety and security
Effect on bad debt and		Energy security
collection cost		

We further recommend that funds in the CAP and free weatherization program be used during the cooler months (September through April) when the work demand for the Austin Energy contractors is at its lowest. This will keep their employees busy thus maximizing the economic benefit of the use of public funds.

5. Transparency, Reporting, and Accounting

The Task Force believes that as Austin Energy utilizes a rate design that is intended to pay for the "energy conservation" budget through a separate Community Benefit Charge, Austin Energy has a duty to act visibly, predictably and understandably to promote participation and accountability in those programs, and make sure the costs and benefits are transparent, easy to locate and understandable.

Simply making information available is not sufficient to achieve

transparency. Information should be managed and published so that it is:

Relevant and accessible: Information should be presented in plain and readily comprehensible language and formats appropriate for different stakeholders. It should retain the detail and disaggregation necessary for analysis, evaluation and participation. Information should be made available in ways appropriate to different audiences.

Timely and accurate: Information should be made available in sufficient time to permit analysis, evaluation and engagement by relevant stakeholders. This means that information needs to be provided while planning as well as during and after the implementation of policies and programs. Information should be managed so that it is up-to-date, accurate, and complete.

In terms of the energy efficiency programs, the Task Force noted that while considerable information is available on Austin Energy's website, and generally reporting has improved in recent years, a need for more transparent information remains, understandable information. Thus, the Task Force approved the following recommendation, while recognizing that improvements had been made.

One key recommendation is requiring an improved annual report that would break out information not only by program but by City Council District. In addition, it should be clear for each program the amount spent on direct rebates or incentives and the amount paid for administrative or other operation and maintenance costs. Finally, reporting clear performance metrics both on energy saved and peak demand reduced should also be required. The numbers in the annual report should be verified and audited. Where there are different sources of funding, such as CAP funds or even federal funds, that should be clearly reported.

<u>Recommendation</u>: Austin Energy should improve and make more transparent the tracking of its energy efficiency programs. Transparency is a cornerstone of efficiency. Without clear and concise information, effective decisions as to program efficiency cannot be made. Inconsistent reporting of program information and/or imprecise information produces obscure decision-making that is contrary to public policy. Community and council support for weatherization, energy efficiency and solar programs should be improved if data are accurate and reported transparently. (Adopted 06/05/15, 7 yes—0 nay)

All Austin Energy programs funded with revenues realized from the energy efficiency rate should be consistently reported to the public, the City's advisory commissions and the Council.

Explanation: Whether customers and the council can determine if they are getting their money's worth for the programs funded with energy efficiency rates can only be addressed if all the programs and therefore costs are consistently and completely reported. In its budget briefing to Council⁵⁶ Austin Energy did not include all the programs funded with energy efficiency dollars. As the most recent Austin Energy monthly report⁵⁷ to the Resource Management Commission reveals, Austin Energy implements more programs funded with energy efficiency dollars than revealed to the Council. The Council did not have the opportunity to review these other programs and their respective costs in relation to the energy efficiency programs identified to them. And without this opportunity the Council could not and therefore did not review the reasonableness of the complete energy efficiency budget proposed for FY 2015. All programs that are funded with energy efficiency rates should be reported, including commercial, residential, green building, solar and demand response.

> All program costs funded with energy efficiency dollars should be b) consistently reported and the operations and maintenance costs should be separated out from the rebates and other direct costs of the programs.

Explanation: In the Austin Energy budget briefing⁵⁸ provided the Council during last year's budget (and therefore rate) hearings, the operations and maintenance expenses were not included as costs that are recovered under the energy efficiency rate. As Austin Energy's FY 2014 report⁵⁹ shows Austin Energy incurred about \$1.622 million in operations and maintenance ("O&M") cost for the residential programs identified to the council and incurred about an additional \$3.57 million in O&M costs for commercial programs that had been identified to the Council in the budget presentation. O&M is the administrative cost of the program; that is, the cost incurred by Austin Energy to provide the energy efficiency program. The relation of administrative costs to direct program costs is an indicator of efficiency. The Council was without this information. Consequently, the FY 2015 budget decision could not be and therefore was not based on whether the costs to be recovered by the energy efficiency rate were efficiently incurred. By requiring the consistent reporting of each program's cost with the corresponding O&M costs separately stated, inefficiencies of operations can be more

⁵⁶ See attachment 1 entitled "Budget Briefing FY 2014-15 Proposed Budget" (June 16, 2014)(hereafter referred to as "Budget Briefing").

⁵⁷ See Attach. 2 entitled "Customer Energy Solutions Program Update as of April 30, 2015". See Attach. 1.

⁵⁹ See Attach. 3 entitled "Customer Energy Solutions Program Progress Report 2014-2015".

readily identified. Again, rebates and O&M costs should be shown for efficiency, green building, demand response, and solar programs.

c) In any budget presentation to support its energy efficiency rate proposal, Austin Energy should not include any energy efficiency program costs funded with Customer Assistance Program revenues.

Explanation: In the budget presentation to the Council for FY 2015, Austin Energy included the CAP weatherization program in its listing of energy efficiency programs and costs. Although the CAP weatherization funds were separately identified, the funds were added to the total energy efficiency budget. And, because CAP weatherization was proposed to be increased for FY 2015, the decrease in the FY 2015 energy efficiency budget from the FY 2014 budget was understated by \$500,000. The co-mingling of the CAP weatherization program and its costs with the energy efficiency rate-funded programs creates confusion. The CAP weatherization program and costs should be identified but not added into the total costs of the energy efficiency program costs funded with energy efficiency rates. Thus, we recommend that CAP weatherization budgets and outcomes be reported along with other energy efficiency programs but be separately tracked so that the monies from the two sources of funding are not co-mingled.

d) Austin Energy should develop better tracking data by city council district to: measure energy and demand savings, including consumption data measuring the actual customer usage both before and after the customer benefited from an energy efficiency program; analyze the demographics of program participation while protecting privacy data; and demonstrate coordination with other publically funded programs.

Explanation: The primary purpose of the task force is to make recommendations that will deliver equitable energy efficiency benefits to low and low moderate income households. Program survey data made available to the task force by Austin Energy indicated that energy efficiency programs (except for low-income weatherization which is income qualified) have little participation from households with income under \$40,000 per year and participation rates are highest in households earning \$100,000 per year or more. Austin Energy discounted the accuracy of its survey data for purposes of tracking the demographics of energy efficiency program participants. Austin Energy has apparently established a process to collect demographic data consistently across all programs; however, Austin Energy has not provided the task force any information about the process or the expectations for the data to be gathered through the new process. Ultimately the task force would like to see a process in place that would provide a better explanation of the success of programs reaching low and low moderate income households.

Tracking energy use and demand before and after energy efficiency improvements are installed by program will ensure all demand and energy savings are captured when Austin Energy leverages its resources with other funds. One example is Austin Energy leveraging its weatherization program with the home repairs funded by the city and implemented through Neighborhood Housing. Energy and demand savings realized from home repairs which are not currently captured would be credited to the energy efficiency program. Data tracked by program can also be used to serve as a check on the reasonableness of deemed savings assumptions that are in general use to estimate program savings. Austin Energy's success of partnership with the city's affordable housing programs should be tracked to ensure that the city and Austin Energy maximize the effect public and utility resources can have when merged.

e) Austin Energy should provide monthly, quarterly and annual reports to the Resource Management Commission, Electric Utility Commission and City Council indicating energy efficiency, CAP Weatherization, Demand Response, Green Building and Solar activities and City Council should establish accountability procedures.

<u>Explanation</u>: While Austin Energy already provides monthly and annual reports to these relevant committees, and the most recent annual reports have been improved, there do not appear to be well-developed accountability and reporting requirements for these programs. Council should develop some. We would suggest, for example, that quarterly reports be added that would include more detailed information than that contained in the monthly reports, such as:

- Tables or charts indicating the number of participants in each program that received rebates or incentives, the amount of the rebates or incentives, the amounts of kilowatts and kilowatt hours saved by customer class and program type, as well as the Operations and Maintenance costs incurred by Austin energy relating to the rebates or incentives;
- Map and table illustrating the allocation of rebates by customer class and program by Council district;
- Map illustrating the location of each rebate recipient with an overlay of socioeconomic income levels, where such information exists. To protect private information, basic census tract data could be used, and where actual survey data of program participants is available, such aggregated survey data could be utilized.

An improved yearly report should be produced that builds on these quarterly reports, but also have information including:

A brief description of each of the different programs covered in the annual report;

- Allocated and spent funding from both the energy efficiency charge and CAP weatherization program, as well as any other funding that might be available from base rates or federal funding;
- Table indicating total kilowatts saved, kilowatt hours reduced, and money spent in rebates/incentives and O&M by program and customer class;
- Map and table illustrating the allocation of rebates by customer class and program type by Council district;
- Map illustrating the location of each rebate recipient with an overlay of socioeconomic income levels. To protect private information, basic census tract data could be used, and where actual survey data of program participants is available, such aggregated survey data could be utilized;
- Allocation of rebates or incentives including those for demand response programs
 including those for commercial and industrial recipients grouped by their classification
 of demand characteristics for rate purposes;
- Where information exists, also indicating which types of commercial or industrial entities received rebates, such as by SIC (Standard Industrial Classification) or other codes.
- Information about collaborations between Austin Energy for energy efficiency, demand response and solar programs with other city departments or entities such as Austin Water Utilities, Neighborhood Housing, Department of Energy, Travis County, Texas Gas Service, and others;
- Information about the number of solar and energy efficiency businesses and employees that participated in rate-funded programs;
- Information about the cost-effectiveness of each program in terms of kilowatts reduced and kilowatt hours saved, as well as the method used to evaluate this cost-effectiveness (i.e. use of deemed savings vs. measurement of actual energy use before and after or a sampling approach);
- Information about emissions reduction [such as volatile organic compounds (VOC) nitrogen oxides (NO_x), and carbon dioxide (CO₂)] reduced per program area because of the programs.

All of the monthly, quarterly and annual reports should be made available through Austin Energy's website.

6. True-Up Correction for Energy Efficiency Services Budget Implementation

There is a disconnection between the budget process and energy efficiency program development. That is, the City Council approves the budget – developed by City staff – sometime in September for execution during the fiscal year beginning October 1. Oftentimes,

the expected outcomes do not occur and adjustments to the programs themselves and funding levels may be in order. Austin Energy often finds that certain programs have more than enough funds, while others may lack funds. Today, Austin Energy can exercise some flexibility to reallocate money between programs. The problem with the current process is that when it is time to develop the annual budget is created using unaudited data. A true-up is a formal review that would occur six months into the fiscal year based on audited data. At this time, program budgets can be revised, pilot programs can be considered and Austin Energy could adjust the Energy Efficiency Service Fee that pays for the program through the Community Benefit Charge.

<u>Recommendation:</u> The City Council should establish a true up proceeding for the energy efficiency rates within six months after the close of each fiscal year to reconcile any over or under recovery of AE energy efficiency revenues, realized and imputed, attributable to the energy efficiency rate for that recently closed fiscal year with that fiscal year's energy efficiency expenses, including operations and maintenance, incurred by AE. The true up proceeding may result in no further action, a reduction or increase in the energy efficiency rate, and/or an amendment to the then-current energy efficiency budget, including the transfer of funds from one program to another to increase the effectiveness of the programs.

<u>Reasoning:</u> Energy efficiency rates were separated out of base rates in the last contested rate case based in part on the advocacy of the environmental community. A primary concern from that community was that funding for the energy efficiency program was diverted to other utility operations. A separate rate they argued should promote greater accountability ensuring funds realized from energy efficiency rates would be spent on energy efficiency programs or refunded back to the customers.

This recommendation is responsive to this public policy concern. According to Austin Energy in its response to the Task Force's Interim Recommendations, audited data on the current FY energy efficiency revenues and expenses will not be available until some six months after the close of this fiscal year. This time lag between the end of fiscal year and having audited data available proved to be the case for the FY 2014 energy efficiency data. At last year's budget and rate hearings, Austin Energy informed the council that true ups of the thencurrent FY should not occur until the FY's data was audited. Consequently, the first opportunity the council has to correct any imbalances between revenues realized and expenses incurred in the energy efficiency program is six months after the close of the FY, mid-way into the next year's FY's operations. A true up proceeding at this time would provide up to date adjustments to the then current FY EE programs and/or rates in a timely manner. Without this true-up the regulatory risk increases that funds collected with EE rates are spent elsewhere in the utility's operations and not on the EE programs.

7. Better Building Codes and Planning Review Process

Austin Energy has been one of the leading utilities on achieving more energy efficient buildings through improved energy codes. Thus, not only has Austin as a city consistently adopted advanced energy codes for new homes, multi-family construction and other commercial construction, they have also promoted and implemented a Green Building Program to encourage developers to go beyond these advanced codes. These programs have been successful at a relatively small cost and have helped achieve peak demand and energy savings since 1992.

In addition, in 2007, City Council adopted a goal of making all single-family homes netzero energy capable by the end of 2015. In other words, new home should be built in such a way that by only adding solar to the rooftop, zero energy use could be achieved.

The Task Force met with both developers of affordable housing and multi-family buildings as well as with Austin Energy's Green Building staff in making recommendations on future energy codes and net-zero capable home goals, as well as on how to improve building inspection and compliance with those energy codes. More specifically, the Task Force found that better coordination, inspection and enforcement is needed to assure that buildings are built to more efficient codes and that the plans approved by the City are actually implemented by builders.

The Task Force finds that continued improvement in base energy codes to reduce peak and overall energy use is of benefit to low-income and middle-income residents and to Austin Energy overall. Austin Energy has consistently worked with the City and its departments to improve base energy codes every three years, making new homes and remodeled homes and other buildings more energy efficient. By reducing the energy use of new and rehabilitated buildings Austin can lower emissions and water use from existing fossil fuel plants, reduce the need to buy expensive peak power off the market and potentially provide demand response capabilities to meet peak demand or even participate in energy markets. The Task Force reaffirms the goal of making new home construction in Austin, Texas to be net-zero energy capable by the end of 2015, while recognizing the challenges with fully meeting this goal.

We recommend in 2015 that City Council direct the city manager to work with Austin Energy and the relevant advisory committees, and city departments to accomplish the following actions:

 Adopt the 2015 IECC codes for residential construction, including local amendments to reach the net-zero-energy capable homes approved by City Council in 2007. The Task Force believes that the net-zero-energy capable home goal is achievable, but recognizes that certain homes will be unable to meet this goal in 2015 depending on whether the home is all-electric or includes gas heating and gas water heating, the size of the home

- and other issues like orientation of the design and the behavior of occupants. Assuming Austin Energy recommends and city council approves an updated more energy efficient code for new and remodeled homes, Austin Energy should continue to consider other amendments and programs to fully realize the net-zero capable homes goal beyond 2015;
- 2. Further the goal of net-zero energy capable homes by considering local amendments to the energy code and suggest amendments to other building codes to encourage the adoption of new technologies like solar PV, demand response, energy storage and electric vehicle charging technologies as appropriate. As an example, Austin Energy should work with the electrical code to assure that there is sufficient panel capacity to allow for EV charging stations.
- 3. Encourage the widespread adoption of solar PV technology by:
 - a. Adopting a version of Appendix RB of the 2015 IECC that requires that all new homes be "solar-ready." Austin Energy should work to make sure there are appropriate exceptions to this solar ready requirement for homes that are being built in areas with existing shade trees, in areas where the homes have not been oriented correctly, where there is or will be alternative access to a community solar project provided as part of a development, or where the homes are so small, solar-ready is not cost-effective.
 - b. Working as part of Code NEXT to assure that future developments are oriented and designed correctly to take full advantage of solar PV potential.
 - c. Work with developers of new homes or remodeled homes or multi-family properties to consider an optional solar package, either on their roofs, or through a programmatic association with Austin Energy's community solar projects. Thus, for new homes, Austin Energy could create an optional community solar option where new homeowners could invest directly in a community solar project, if solar was not available on their own roofs. Austin Energy and City Council should consider creating a "neighborhood" rate for low-income residents to make the community solar affordable to nearby homeowners or apartment renters.
- 4. Set the appropriate Home Energy Rating Score (HERS) if Austin Energy allows an alternative compliance path through the adoption of a 2015 IECC so as not to undermine the net-zero energy capable goal or overall building envelope performance. We would suggest that Austin Energy look both at the ERI (Energy Rating Index) scores incorporated within the 2015 IECC, which is 52, or to a recent decision by San Antonio to allow no higher than a 59 ERI for new single-family homes.
- 5. Adopt either the 2015 IECC codes for commercial construction including larger multifamily units -- or an equivalent code such as the ASHREA 90.1 2013 code.
- 6. Consider local amendments to the commercial codes to incorporate onsite renewable energy, demand response, storage and electric vehicle charging stations as appropriate. Again, for multi-family buildings, Austin Energy should work to create a community solar option for residences where rooftop solar is not available and consider a "neighborhood" rate to make the solar affordable to lower income residents.

- Consider setting a net-zero energy capable, or net-zero load capable goal for multifamily buildings by 2020 by creating a task force to research and provide recommendations on achieving net zero energy for multi-family buildings.
- 8. Update our Austin Green Building Programs to inspire builders to go beyond base codes.
- 9. Improve coordination between the Austin Energy Green Building Program, the Planning, Development and Review Department and Code Compliance so that builders actually comply with energy and related codes. Among our specific recommendations, we would suggest that City Council and the City Manager:
 - a. Direct Austin Energy to work with PRD to review building plans to make sure that cooling and heating requirements are met with appropriately sized technology;
 - b. Ensure PRD has a planning review process that specifically involves a commercial reviewer that looks at mechanical heating and cooling systems in multifamily buildings to assure they match the building plan and are appropriately sized as required by the energy code in effect at the time of approval;
 - c. Increase funding for dedicated energy code plan reviewers and inspectors;
 - d. Increase in general the enforcement of the energy code through Code Compliance
 - e. Increase general education to builders, particularly of multi-family units, to encourage compliance with and appropriate sizing of heating and cooling equipment.

The Task Force believes that by updating our base energy codes and improving collaboration between building code development, planning, review and compliance, Austin can continue to be a leader on producing carbon-free energy the old fashioned way – not using it in the first place.

B. Program Goals

The City of Austin Sustainability Office uses a matrix of energy and non-energy benefits for evaluating its purchasing recommendations. The Low Income Consumer Advisory Task Force adopted this matrix for evaluating energy efficiency programs for customer households with low and low-moderate incomes. The Task Force included the additional consideration of program impacts to Austin Energy's bad debt and collection costs. As a further refinement the Task Force adopted the goals listed below. The order in which the goals are listed does not indicate their order of importance.

- To evaluate the program in consideration of the triple bottom line of sustainability equity (people), economy (prosperity) and environment (planet).
- To achieve greenhouse gas reductions to support the city's climate protection goals.
- To assure that the programs contribute to Austin Energy's overall peak demand reduction goals of 800 MWs by 2020 and at least 900 MWs by the end of 2024, with

increased goals to be considered, as well as to contributing to associated energy saving targets.

- To utilize the low-income energy efficiency programs in a way that helps contribute to compliance with the Clean Power Plan rule, and specifically, take advantage of the opportunities present under the Clean Energy Incentive Program, which gives enhanced credits to utilities and states to implement low-income efficiency and renewable energy programs.
- To fully utilize incentives and opportunities presented by federal and state programs and policies, including the Environmental Protection Agency's Clean Energy Incentive Program.
- To defer or avoid the need for capital investment in new generating facilities and to reduce the burning of fossil fuels for electricity generation and end use applications such as space and water heating and cooking.
- To assure that an equitable level of program benefits is delivered to low-income customers.
- To reduce bad debt and collection costs to the utility.
- To provide for a continuing dialogue within a new task force with a focus on low-income energy efficiency issues and solutions.

In light of the public disagreement over the value of the now completed ARRA program the Task Force recommends that the utility move forward with a program designed to meet specific goals and to evaluate the program in accordance with those goals. In addition to and in accordance with the program goals presented earlier the Task Force adopted the following goals for the low-income weatherization program.

- To reduce the energy burden and energy costs for low-income families, particularly for the elderly, people with disabilities and, families with children, by improving the energy efficiency of their homes.
- To assess the energy efficiency needs of individual dwelling units in a holistic manner to identify appropriate energy efficiency measures.
- To provide the program at no out of pocket cost to eligible customers.
- To improve the healthfulness, safety, and affordability of housing.
- To leverage utility and other available program resources to offer seamless home repair and weatherization services.
- To collaborate and partner with local organizations and educational institutions that train and hire residents from disadvantaged communities and increase economic investment in those communities.

- To assure that the customers' long term needs are met for refrigeration, lighting, cooling, and heating.
- To ensure that the measures installed under the program have a useful life that is greater than the amount of time a customer has to wait to requalify for the program (currently 10 years).
- To lower overall program costs including administrative, materials and equipment, labor, quality control, etc. to the maximum extent possible.
- To partner with community organizations and other city departments to deliver programs efficiently and effectively and to educate residents about energy efficiency.
- To explore and maximize opportunities for program expansion such as neighborhood by neighborhood programs that would reduce administrative costs.
- To provide the oversight necessary to assure that the quality of materials and equipment provided under the program and their installation meet equal or better standards than those standards applied to other residential programs.

C. Residential

The Task force addresses issues of: access to residential energy efficiency programs for low and low-moderate income customers; improving efficiencies of the low income weatherization program; addressing the energy efficiency needs of Austin Energy's vulnerable customers within Austin Energy's low and low moderate income base; adequate funding for the low income weatherization program; and ensuring funding for the low income weatherization program is spent on the low income weatherization program.

The following recommendations are responsive to these issues by; improving and enlarging the application process; rolling over unspent low income weatherization funding from fiscal year to fiscal year until spent; leveraging with the city's affordable housing programs; providing for the vulnerable population segment of Austin Energy's low income population base; and providing financing alternatives.

1. Rollover of Unspent Weatherization Funds

<u>Recommendation</u>: All unspent Energy Efficiency Services (EES) low-income weatherization funds, specifically reserved to low income customers since the Customer Benefit Charge (CBC) tariff went into effect should roll over to the next budget year, similar to the manner in which Customer Assistance Program (CAP) weatherization funds roll over.

<u>Targeted Underserved Group:</u> Low income customers

Time schedule: Implement in 2016

Explanation: The low-income weatherization program referred to as Free Weatherization by Austin Energy has two funding sources. Both funding sources are part of the fees that make up the Community Benefit Charge (CBC). Prior to the existence of the CBC, weatherization was contained exclusively in the Energy Efficiency Services (EES) budget. When the CBC was adopted, it was decided that at least \$1 million would be included in the Customer Assistance Program (CAP) component of the CBC for weatherization. Since the CBC was established the program goals set for the program have not been met and funds have remained unspent at the end of the fiscal years. Unspent CAP weatherization funds roll over to the next budget year under the terms of the tariff. The task force recommends that the unspent EES weatherization funds roll over to the next budget year in the same manner as the CAP funds. These funds should be carried over in subsequent years in addition to the standard budget amount.

Austin Energy actively participated in the federally funded ARRA Weatherization program⁶⁰ and completed work on close to 2,000 dwelling units. After the conclusion of the program, Austin Energy's Free Weatherization program has had unexpended funds for both the CAP and the EES programs. Information provided by Austin Energy at the June 5th meeting indicates current carryover in the amount of \$549,626 for CAP funds and \$744,583 for EES weatherization.

Austin Energy and the Task Force have been working together to monitor production and propose strategies that will increase annual program performance. We have expectations of future years where all weatherization funds are spent on weatherization. In the event that funds do remain unexpended at the end of the year, a standard policy should be in place to automatically roll the funds over to the next budget year.

2. Weatherization Cost Reduction Study

<u>Recommendation:</u> The City Council should direct the City Manager to investigate operating practices that could potentially increase the cost effectiveness of the low income weatherization program while maintaining all program services and standards and report back to city council in six months with a strategy for implementation.

<u>Targeted Underserved Group</u>: Low income Customers

Time Schedule: Implement in 2016

Budget Impact: Accomplish through existing contingency consulting contracts.

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⁶⁰ Austin Energy Annual Performance Report, Year Ended September 2012, published July 26,2013, p. 55 reports the ARRA Weatherization program at Austin Energy began on 09/01/2009 and ended 04/30/12 and was awarded a total of \$9,604,809

<u>Community Need</u>: Over one-fourth (118,241) of Austin Energy's residential customers have incomes that qualify for Free Weatherization.⁶¹ Program costs have increased that seem to be greater than the cost increases experienced outside of the program. This issue was raised early in the process during the nonprofit panel.⁶²

According to program data provided by Austin Energy, during the time period 2005 to 2015 the cost of attic insulation for 1,000 square feet of attic insulation increased from \$648 to \$1,784. Over the same time period the cost of 90 square feet of solar screens increased from \$203 to \$714, compact fluorescents from \$46 to \$113, smoke alarms \$11 to \$49, carbon monoxide detectors, \$34 to \$49, refrigerators \$576 to \$813. From 2010 to 2014 central air conditioning replacement cost increased from \$3,103 to \$4,309.

The costs associated with the weatherization program have been openly criticized at public meetings with requests to reduce the services provided. This recommendation asks that the City Council first make a concerted effort to identify the underlying reason for the cost increases and identify any possible strategies or changes in procurement that could lower the program's costs.

<u>Description:</u> Conduct a study to analyze the total cost of delivering the weatherization program to the City including but not limited to: program operations and support, materials and equipment, labor and administration. The costs should be analyzed looking for all plausible reasons for cost increases such as inflation. The report should also explore opportunities for reducing the program's costs. Suggested cost reduction strategies to include in the report follow.

- Obtaining price discounts by offering to do sole business with a solar screen manufacturer (local to ensure quick delivery) or from a few solar screen manufacturers. This is the same concept with the window units.
- Obtaining price discounts for any materials and equipment and services (solar screens, insulation, duct repair, window units, smoke alarms, carbon monoxide detectors, etc.) that are being purchased for the low income weatherization program;
- Using a geographic approach for program delivery such as neighborhood by neighborhood to minimize the travel between jobs;
- Consider whether some or all of the current contract work for the low income weatherization program could be completed by Austin Energy employees.

⁶¹ Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01//5/15., p 5.

⁶² Low-Income Consumer Advisory Task Force Meeting, January 16, 2015, Foundation Communities reported that better deals are available from contractors outside of Austin Energy's programs.

⁶³ Austin Energy Weatherization measure and Labor Cost (2005-2015)

- Consider the extent to which Austin Energy can leverage its low income weatherization funds with other city departments and other entities engaged in providing funding or services to provide affordable housing and housing repairs.
- Using a "voucher" or "rebate" system with a wider universe of contractors than the current contractor list.
- Consider a pilot project focused on a few contractors installing on one measure such as LED lighting – with broad scope even as more whole-house measures were handled by other contractors.

3. Universal Application with Automatic Referral Process

<u>Recommendation:</u> The City departments that provide services to low and low-moderate income customers based on income eligibility should use a universal application form that is not only processed by the receiving department but is also immediately referred to the other respective departments.

<u>Targeted Group:</u> Low and low-moderate income Austin Energy customers. Variations in income eligibility requirements will be considered.

Time Schedule: Implement in FY 2016

Community Need: Various City of Austin ("COA") departments rely upon an incomedeterminative process for providing services to low and low-moderate income Austin Energy customers. The processes do not readily translate to qualifying criteria for Austin Energy low and low-moderate income energy efficiency programs and other city programs. Nor does that application necessarily get referred to Austin Energy or any other city departments providing services to low and low-moderate income households. Austin Energy does not independently verify income for purposes of qualifying Austin Energy customers for low and low-moderate income energy efficiency programs. Customer Assistance Program (CAP) income verification is carried out by the administrators of the programs (such as Health and Human Services Commission for Supplemental Nutritional Assistance Program – SNAP) which automatically qualify a customer for the CAP rate discount. Consequently, non-CAP low income will also have access to the weatherization and other low-income programs through the universal application process.

Customers have barriers to accessing the utility's low and low-moderate income programs. Concern has been expressed by the Council and by groups testifying before the Task Force that there is not enough coordination among the various departments. Variations in income eligibility requirements will be considered. The benefit of the program individually can be \$1,000 per home.

<u>Program Description:</u> The following steps are recommended:

- A universal application should be created, consistent with confidentiality and privacy concerns, and used by all COA departments that rely upon an income determination process for program eligibility; (Austin Energy reports that there is progress on this recommendation);
- Any completed application involving programs for low and low-moderate income households should be forwarded immediately to all of the COA departments providing services to low and low-moderate income people;
- Austin Energy customers that qualify for one of the COA's programs providing services based on low and moderate income eligibility should be deemed income eligible for AE's low and low-moderate income energy efficiency programs;
- The City of Austin's Health and Human Services department should provide income and identity qualifying services for eligibility in Austin Energy's low and low-moderate income energy efficiency services. The department should also include weatherization and other low and low-moderate income energy efficiency referrals among the list of services it provides on its neighborhood center webpage and in its brochures.⁶⁴
- The City of Austin should direct the City Manager to carry out these recommendations.

4. Provision of Air Conditioners in Low Income Weatherization Program

<u>Recommendation:</u> To make Energy Star window unit air conditioners the standard air conditioning application in the low income weatherization program and to include under limited circumstances, repair and replacement of central air conditioners.

<u>Targeted Underserved Group:</u> Low income customers whose household incomes are 250% of federal poverty guidelines or less as qualified by the City of Austin Health and Human Services Department. Vulnerability should be considered, and priority should be given to customers at or below 200% federal poverty.

Time Schedule: Implementation in 2016

Budget Impact: Accomplish within current budget.

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⁶⁴ The COA's Health and Human Services neighborhood center webpage lists form/application assistance as one of its services. It also requires households to provide identity and income proof to establish eligibility. Lastly, the department is already set up to do referrals to non-departmental entities. Consequently, this department is the logical COA department to have residual responsibility for determining income and identification eligibility for AE's low and moderate income energy efficiency programs.

<u>Community Need:</u> The summer weather in Austin is extremely hot for certain periods of time. When the heat index reaches 102, Austin Energy, is prohibited from disconnecting a customer's service⁶⁵ because air conditioning is necessary to protect a resident's health and safety especially the elderly and young children.⁶⁶ While it is possible to live through an Austin summer with no air conditioning, people without air conditioning in their homes are encouraged to take shelter in public buildings with air conditioning during the hottest times of the day.

Over one-fourth (118,241) of Austin Energy's residential customers have incomes that qualify for Free Weatherization. ⁶⁷ Customers living with income below 50% of the Federal Poverty Guideline (FPG) spend 37.6% of household income on electricity. Those at 51 to 100% of FPG spend 11.3% and those at 101 to 200% FPG spend 5.9%. Those above 400% of the FPG spend 1.6% ⁶⁸.

As utility bills increase because of higher rates and the pass through surcharges for regulatory costs, community benefit charge and other charges, low income customers are the most profoundly impacted by increases. As utility bills rise, the energy burden becomes an even higher percentage of those households on fixed and low incomes. There are large numbers of households in the Austin Energy service area with low income, high utility bills and very few energy efficiency program resources.

In Texas, 26% of all home energy use is attributable to central air conditioning, 11% to the refrigerator, 9% to space heating, 7% to water heating and 2% to room air conditioning. ⁶⁹

Under the current program, a customer can participate in the low income weatherization program and be left with no source of air conditioning.

<u>Program Description</u>: The program and its components should be continued. This program is intended to help limited funding go further. Provide a recipient of low income weatherization services access to the most cost efficient and technically feasible measures that will meet the basic cooling needs of the low income residents. In many circumstances this will involve the installation of one or two Energy Star window units. Under limited circumstances in homes originally designed with central air conditioning and where the installation of Energy Star

⁶⁶ Sweating out a Texas heat wave, A guide to preventing hot weather illness.

⁶⁵ Austin City Code §15-9-109.

⁶⁷ Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01//5/15., p 5.

⁶⁹ GDS Associates, Evaluation of Austin energy's ARRA-Supported Weatherization Assistance Program, September 2012, p. 51.

window units is uneconomic because of needed structural modifications a central unit may be repaired or replaced.⁷⁰

Other considerations are coordination with the gas company program to acquire additional program resources for customers living in mixed fuel homes.

Future participation in the weatherization program is currently restricted to once every ten years. This time limitation is appropriate for the installation of building performance measures. In regard to installed Energy Star window units and central air conditioning repair, customers should be eligible to reapply at the end of useful life of the Energy Star window unit or repair. Decisions about repair and replacement of equipment should be made to ensure to the best of the evaluator's ability that the repair or replacement will provide reliable service to the eligible customers until the customer and property are eligible to reapply for the program. If a repair or replacement dysfunctions before the end of its expected useful life, the customer the customer may contact the program for the needed repair.

5. On-Bill Repayment

<u>Recommendation:</u> Austin Energy would allow for repayment for energy efficiency retrofits on a customer's monthly utility bill. Rebates would also be provided for qualifying measures. (Adopted 08/21/15 6 yes, 2 no)

<u>Targeted Group</u>: Middle and Moderate Income Residential Customers

Time Schedule: Not Determined

<u>Estimated Cost:</u> Depending on how the financing is structured, the cost effectiveness should be less than or equal to AE's current financing program for home efficiency. Initial capital must be provided; \$500,000 is suggested for a pilot project either from Austin Energy directly or a third party. Money could also be utilized for a loan-loss guarantee. There could also be some cost involved for the redesign of the bill to include the tariff or payment for repaying the loan. This does not include staff time.

<u>Description</u>: The utility assists customers in attaining cost-effective energy upgrades at customer sites – like better building efficiency, more efficient appliances, HVAC (heating, ventilating and air conditioning) systems and rooftop solar through on-bill repayment.

The customer pays nothing upfront for the upgrades they choose because the third party lender pays the installer. Using a tariff, the utility puts a fixed charge on the customer's monthly bill that is less than the estimated savings generated by the upgrade – so the customer enjoys immediate and sustained cash flow. Until the investment is recovered, the

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⁷⁰Additional criteria should be developed to define the limited circumstances.

tariff for the improvement charge automatically transfers to future customers at that site. Transparency would be assured by requiring building owners to inform future buyers or renters of the property of the on-bill repayment in place.

On-bill Repayment (OBR) clears the biggest barriers to financing because it does not depend on a consumer loan, long-term lease, or a lien on the value of the property. Renters and lower-income households have faced barriers to accessing investment capital for cost-effective energy upgrades, and similar financing challenges have stumped credit-strained companies and local governments.

Compared to typical debt-based programs, experience shows that On-bill Repayment has a bigger impact for these reasons:

- 1. First, the addressable market is double the size because nearly all customers are eligible.
- 2. When customers are offered upgrades with the OBR value proposition, they accept more than half of the time, which is 5 times the typical rate.
- 3. When customers do accept, the projects they undertake are much larger because the terms are more attractive.

<u>Precedents:</u> States with utilities conducting some type of OBR program include AR, CA, CT, HI, KS, KY, NJ, NY, and SC. In Texas, Guadalupe Valley Electric Coop uses OBR to collect air conditioning service charges on the monthly bill. The Pedernales Electric Coop is developing an OBR program to finance PVs. Austin Energy's "Nightwatchman" program that leases lighting equipment as part of a security lighting electric rate goes back to 1979. This rate and program are similar to a number of utilities around the country.

Program Design, Customer Protection and Other Issues: An On-bill Repayment program will require important design characteristics, including program objectives, target market, financial product structuring, program administrator (be it Austin Energy or a third party), capital source, credit enhancements, customer eligibility requirements, project eligibility requirements, installation, marketing and the amount of incentives (ie rebates). The projects should be revenue-neutral and aimed at saving at least 10% energy use. Both homeowners and renters could be considered. The Task Force believes that the middle-income and moderate-income residential market may be an important target group, since this group does not qualify for free weatherization, but with a combination of rebates and on-bill repayment could enjoy significant savings.

Additional Customer Protections Austin Energy Should Consider in the Design of any OBR Program include:

Partial Payments are applied to utility bills with any left over for repayment of loan;

- No collection action from Austin Energy except to collect revenue from billing and transfer to vendor;
- If estimated savings in developing the fixed charge are not realized, the fixed charge should be adjusted dollar for dollar in order for the customer to realize the estimated savings;
- No disconnection for failing pay the fixed charge included in the billing for energy efficiency improvements;
- Fixed loan charges should be left out of balance billing and payment arrangements,
 and handled separately from utility billing arrangements;
- Clear guidelines on contract for services if applied to tenants; and
- Clear guidelines on how tenants are informed about loan charge on their bill bfore they sign a lease, potentially through the ECAD.

Potential models to look at include Clean Energy Works Oregon, New York On-Bill Recovery Loan Program and Kansas' How\$mart program. The Task Force reiterates that there should be no disconnection for non-payment, utilizing more standard collection measures, and utilizing a loan-loss reserve account if payment is not secured.

* http://cleanenergyworks.org/blog/pay-as-you-save-pays-harnesses-a-proven-utility-investment-model-to-offer-virtually-all-consumers-cost-effective-energy-upgrades/ what is this link related to? Needs to be a footnote.

6. Contractor Rebate Pilot Program in Conjunction with Affordable Housing Projects

Recommendation: In addition to a stand-alone low income weatherization energy efficiency program approach, a residential low income weatherization rebate pilot program should be implemented in conjunction with the affordable housing retrofit programs administered by the City's Neighborhood Housing and Community Development department to obtain efficiencies of scope. Because of the leveraging of the weatherization program into the affordable housing programs, Austin Energy will be able to capture the additional demand and energy savings arising from the affordable housing programs. The provision of energy efficient appliances through bulk purchasing would be part of this program. The department would serve as a case manager to ensure Austin Energy is brought into the process.

<u>Targeted Underserved Group</u>: Low income Homeowners with Incomes between 0 and 250% of the Federal Poverty Guideline.

Time Schedule: Begin plan to implement in 2016 and implement by 2017.

<u>Budget:</u> There are three funding components to this proposed program:

- 1. Funding for rebates.
- 2. Funding for purchases of appliances.
- 3. One time funding to establish a contingency reserve to provide payment to the retailer if the guaranteed minimum number of appliances is not purchased.

<u>Brief Description</u>: Provide rebates to contractors on Austin Energy's list of eligible energy efficiency contractors for performing weatherization services and installing energy efficiency appliances purchased in bulk by Austin Energy as part of a customer's participation in an affordable housing program.

<u>Community Need</u>: According to the January 2015 Updated Energy Burden Tables for Austin Energy, 28% of all residential customers have family incomes between 0 and 200% of the Federal Poverty Guideline. Low income consumers do not have the disposable income to obtain weatherization services nor to purchase energy efficient appliance that would provide demand and energy savings to Austin Energy as well as bill savings to the low-income households. During the task force process, comments were presented by nonprofit service providers that the current program is cumbersome for the service providers and the clients obtaining home repairs though the providers work with the home repair coalition.

<u>Program Description</u>: When a home is evaluated for participation in an affordable housing program, as part of that process, Austin Energy would be contacted to evaluate for the applicant's participation in Austin Energy's weatherization program. If eligible, the residence will also receive an energy audit to identify energy efficiency improvements that can be made through the weatherization program. Instead of referring a client to the weatherization program after the completion of an affordable housing program project, the weatherization services and appliance installations provided by the Austin Energy rebate program would be incorporated into the home repair process. This allows for more contractor efficiency and should streamline the permitting process and reduce program cost. Just as in Austin Energy's home performance with energy star program, an Austin Energy employee/agent would certify what weatherization measures qualify for the rebate and would inspect the residence after the repairs are done to ensure the weatherization measures were properly completed before the contractor is paid by rebate.

Rebates would be set to recover the contractor costs in performing the weatherization services and would be paid directly to the weatherization contractors; however, the contractor

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⁷¹ Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01//5/15.

costs would be standardized consistent with the contractor pricing for plumbing repairs performed as part of the City of Austin's home repair program that is reimbursed by the water department. Contractors certified by Austin Energy to perform weatherization services for the home performance with Energy Star energy efficiency programs would also be eligible to participate in this rebate program.

Energy and demand savings would be calculated based on the condition and energy usage of the home prior to and after the completion of all home repair and weatherization work. This will capture the energy and demand savings not reported today that result from home repairs which make the home "weather tight", a prerequisite for implementation of Austin Energy's low income weatherization, thereby acknowledging the energy and demand savings realized from the home repairs funded with public monies.

This program would have the same components as the low income weatherization program, the difference being the delivery of the services from a greater pool of contractors and making payments to contractors through rebates as opposed to contractual payments. Moreover, to achieve economies of scale, appliances to be purchased for this program would be discounted through an Austin Energy commitment to purchase a minimum number of the appliances with one to three retailers (preferably retailer-manufacturers) in the Austin area.

7. Energy Star Window Heating and Cooling Units for Vulnerable Populations

<u>Recommendation:</u> A residential low income energy efficiency program should be created to provide Energy Star window heating and/or cooling units including installation to low income customers who are certified by the medically vulnerable register. This program would be implemented through the use of contractor rebates and the provision of Energy Star window cooling and/or heating units purchased by Austin Energy achieving discounts through the use of commitments to purchase appliances from retailers/manufacturers in the Austin area.

<u>Targeted Underserved Group</u>: Homeowners and tenants whose household income is at or below 250% of the Federal Poverty Guideline as verified by the Health and Human Services department and who are medically vulnerable as determined by Austin Energy.

<u>Time Schedule</u>: Implement in 2016.

Budget: Budget: There are two funding components to this proposed program:

1. One-time funding to establish a contingency reserve to provide payment to the manufacturer-retailer if the guaranteed minimum level of cooling and/or heating appliances are not purchased; and

2. Funding for rebates.

<u>Brief Description</u>: Provide emergency heating and/or cooling relief to vulnerable populations through the provision of professionally installed Energy Star cooling and/or heating window units.

<u>Program Description:</u> This program would be provided in conjunction with the City of Austin's Emergency Home Repair Program which is part of the City of Austin's Neighborhood Housing & Community Development Client Service's Programs. Contractors certified by Austin Energy would perform the work. Austin Energy would certify that the window unit(s) is (are) needed before the window unit is installed. Once that determination is made, Austin Energy would provide the window unit(s). After installation, Austin Energy would review the household to ensure the window unit was installed properly. A rebate check issued to the contractor to cover the cost of installation would be provided after the final Austin Energy review.

As part of implementing this program, AE should consider providing the air conditioner units through a loan program taking into consideration storage and refurbishing issues involved in a loan program and the experience of other jurisdictions in the loaning of air conditioner units. It is also anticipated that the vulnerable customers served through his program in an emergency will also apply for low income weatherization and/or other appropriate energy efficiency programs.

8. Low Interest Loans for Installation of Energy Star Window Units

Recommendation: Create a residential energy efficiency program to provide low interest financing for Austin Energy customers with low and low moderate family incomes to purchase and install Energy Star window heating and/or cooling units. The loan amount needed under this program would be reduced through the use of rebates that are increased over the current appliance rebate level. The loan amount needed would be further reduced through prices for the appliances that are discounted through Austin Energy's use of bulk purchasing power. Provided, however, an Austin Energy customer with a low to moderate family income could access the higher rebates and the discounted-priced appliances without accessing the low interest financing.

<u>Targeted Underserved Group</u>: Low to Low Moderate Income Homeowners (household Income between 0 and 400% of the Federal Poverty Guideline.)

<u>Time Schedule</u>: Implement in 2016.

Budget Impact: There are three funding components to this proposed program:

- One-time funding to either increase or establish another loss reserve to incentive a lending institution to accept moderate income applicants through either a lower FICA score or through proof of credit worthiness such as a year's timely payment of utility bills;
- One-time funding to establish a contingency reserve to provide payment to the manufacturer-retailer if the guaranteed minimum level of cooling appliances are not purchased; and
- 3. Funding for rebates.

<u>Brief Description</u>: Provide access to reduced cost financing to purchase unit air conditioners with or without heating components at discounted prices.

<u>Community Need</u>: According to the January 2015 Updated Energy Burden Tables for Austin Energy, 43.2% of all residential customers have income between 0 and 300% of the Federal Poverty Guideline.⁷² Low to moderate income consumers have lower credit scores⁷³ which may be attributable to their inability to obtain financing in the first place. There have been comments made to the task force that when air conditioners are not working in summer even low income families, in desperation, will purchase units with unfavorable financing terms such as high interest credit cards and car title loans.

<u>Program Description</u>: As part of the American Recovery & Reinvestment Act (ARRA), Austin Energy requested and was provided an ARRA grant to lower the cost of financing energy efficiency improvements to residential consumers. Financing costs were lowered by creating a loss reserve with Velocity Credit Union, the bank participating with Austin Energy to provide energy efficiency loans with reduced interest rates to residential customers. This energy efficiency program could increase Austin Energy's customers' access to affordable financing by lowering the credit worthiness standards for borrowing at lower interest rates with longer repayment periods.

A commonly applied credit worthiness standard is known as a FICO or credit score. For instance a loan applicant with a FICO score of 300 would generally be viewed as a high risk for a loan; a FICO score of 700 would generally be viewed as a low risk for a loan.⁷⁴ The grant money funded a loan loss reserve that would reimburse the financial institution for any defaults.

This recommendation would provide access to discounted-priced Energy Star unit air conditioners with or without heating components to Austin Energy customers whose family

⁷² Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01//5/15.

⁷³ Question 1: What customer classes and customer groups should be targeted for participation in financing programs? Austin Energy Weatherization Program Low Income Consumer Advisory Task Force April 17, 2015, p. 4. ⁷⁴ *Ibid.*, p 3.

incomes are between 0 and 400% federal poverty guidelines. Access would also include installation at a discounted price. Moreover, qualified customers would have access to lower cost financing that Austin Energy has negotiated with a lending institution. Loans made under this program should available at repayment rates as low as \$25 per month. AE would additionally use its bulk purchasing power to negotiate with manufacturer-retailers for discounted priced unit air conditioners. The price offered Austin Energy would be the price paid by the customer. The discount at a minimum should equal the highest discount obtainable from the manufacturer-retailer.

9. Low Interest Loans for Comprehensive Energy Efficiency

Recommendation: A residential moderate income energy efficiency program should be created to provide low interest financing for Austin Energy customers with moderate family incomes to weatherize their homes and to purchase energy efficient cooling and/or heating appliances. The loan amount needed under this program would be reduced through the use of rebates that are increased over the current level for the home performance with a loan program. The loan amount needed would be further reduced through prices for the appliances that are discounted through AE's use of bulk purchasing power. Provided, however, an Austin Energy customer with a moderate family income could access the higher rebates and the discounted-priced appliances without accessing the low interest financing.

<u>Brief Description</u>: Provide access to reduced cost financing for comprehensive energy efficiency measures and for reduced priced cooling and heating appliances.

<u>Targeted Underserved Group</u>: Low Moderate Income Homeowners (household Income up to 400% of the Federal Poverty Guidelines.

<u>Time Schedule</u>: Implement in 2016.

Budget: There are three funding components to this proposed program:

- One-time funding to either increase or establish another loss reserve to incentive a lending institution to accept moderate income applicants through either a lower FICA score or through proof of credit worthiness such as a year's timely payment of utility bills;
- 2. One-time funding to establish a contingency reserve to provide payment to the manufacturer-retailer if the guaranteed minimum level of cooling appliances are not purchased; and
- 3. Funding for rebates which should be set a higher level than the current rebate for the Home Performance Loan Program.

<u>Community Need</u>: According to the January 2015 Updated Energy Burden Tables for Austin Energy, 12.8% of all residential customers have income between 301 and 400% of the Federal Poverty Guideline.⁷⁵ Low and low moderate income consumers have lower credit scores⁷⁶ which may be attributable to their inability to obtain financing in the first place. There have been comments made to the task force that when air conditioners are not working in summer even low income families, in desperation, will purchase units with unfavorable financing terms such as high interest credit cards and car title loans.

<u>Program Description</u>: As part of the American Recovery & Reinvestment Act (ARRA), Austin Energy requested and was provided an ARRA grant to lower the cost of financing energy efficiency improvements to residential consumers. Financing costs were lowered by creating a loss reserve with Velocity Credit Union, the bank participating with Austin Energy to provide energy efficiency loans with reduced interest rates to residential customers. This energy efficiency program could increase Austin Energy's customers' access to affordable financing by lowering the credit worthiness standards for borrowing at lower interest rates with longer repayment periods.

A commonly applied credit worthiness standard is known as a FICA or credit score. For instance a loan applicant with a FICA score of 300 would generally be viewed as a high risk for a loan; a FICA score of 700 would generally be viewed as a low risk for a loan.⁷⁷ The grant money funded a loan loss reserve that would reimburse Velocity for any defaults. Austin Energy reported that this program to date has had a fairly good record of customer repayment of the loans.

This recommended program could increase the access of low-moderate income customers to affordable financing for replacement of cooling and heating appliances by lowering the FICA score needed to qualify for the energy efficiency loan. The financed funds would be used to purchase weatherization services and cooling and heating appliances.

Additionally, customers whose family incomes are between 301 and 400% federal poverty guidelines would have access to cooling appliances at a discounted price.

The reduced price would be obtained through Austin Energy entering into a commitment to purchase a minimum number of cooling units (for example, 100 room air conditioners) from a distributor-manufacturer. The price offered Austin Energy would be the

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⁷⁵ Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01/5/15.

⁷⁶ Question 1: What customer classes and customer groups should be targeted for participation in financing programs? Austin Energy Weatherization Program Low Income Consumer Advisory Task Force April 17, 2015, p. 4. ⁷⁷ *Ibid.*, p 3.

price paid by the customer. The discount at a minimum should equal the highest discount obtainable from the manufacturer-retailer.

Standard residential rebates for energy efficiency measures and energy efficient cooling and heating appliances would also be part of this program thereby reducing the total amount of debt incurred and thereby providing greater assurance that moderate income customers will have access to low cost credit and an affordable repayment plan. Use of a rebate will also ensure greater quality control by ensuring a before and after inspection of the Austin Energy customer's residence is made to ensure the energy efficiency measures and goods are properly installed.

Since Austin Energy will rely upon contractors to market the program and since moderate income families will have access to discounted cooling and heating appliances, the application process should include information about the reduced priced cooling and heating appliances to ensure the energy efficiency program applicant is informed of this option. Contractors should also be required to provide cost comparisons with the reduced price cooling and heating appliances for any other purchasing option recommended by the contractor. Additionally only contractors meeting requirements established by Austin Energy may be hired by Austin Energy customer under this program.

10. Low Interest Loans for Comprehensive Energy Efficiency

<u>Recommendation:</u> A residential moderate income energy efficiency program should be created to provide low interest financing for Austin Energy customers with moderate family incomes to weatherize their homes and to purchase energy efficient cooling and/or heating appliances. The loan amount needed under this program would be reduced through the use of rebates that are increased over the current level for the home performance with a loan program. The loan amount needed would be further reduced through prices for the appliances that are discounted through AE's use of bulk purchasing power. Provided, however, an Austin Energy customer with a moderate family income could access the higher rebates and the discounted-priced appliances without accessing the low interest financing. (Adopted 05/01/15 8 to 0)

<u>Brief Description</u>: Provide access to reduced cost financing for comprehensive energy efficiency measures and for reduced priced cooling and heating appliances.

<u>Targeted Underserved Group</u>: Low Moderate Income Homeowners (household Income up to 400% of the Federal Poverty Guidelines.

Time Schedule: Implement in 2016.

<u>Budget:</u> There are three funding components to this proposed program:

- 1. One-time funding to either increase or establish another loss reserve to incentive a lending institution to accept moderate income applicants through either a lower FICA score or through proof of credit worthiness such as a year's timely payment of utility bills;
- 2. One-time funding to establish a contingency reserve to provide payment to the manufacturer-retailer if the guaranteed minimum level of cooling appliances are not purchased; and
- 3. Funding for rebates which should be set a higher level than the current rebate for the Home Performance Loan Program.

Community Need: According to the January 2015 Updated Energy Burden Tables for Austin Energy, 12.8% of all residential customers have income between 301 and 400% of the Federal Poverty Guideline.⁷⁸ Low and low moderate income consumers have lower credit scores⁷⁹ which may be attributable to their inability to obtain financing in the first place. There have been comments made to the task force that when air conditioners are not working in summer even low income families, in desperation, will purchase units with unfavorable financing terms such as high interest credit cards and car title loans.

Program Description: As part of the American Recovery & Reinvestment Act (ARRA), Austin Energy requested and was provided an ARRA grant to lower the cost of financing energy efficiency improvements to residential consumers. Financing costs were lowered by creating a loss reserve with Velocity Credit Union, the bank participating with Austin Energy to provide energy efficiency loans with reduced interest rates to residential customers. This energy efficiency program could increase Austin Energy's customers' access to affordable financing by lowering the credit worthiness standards for borrowing at lower interest rates with longer repayment periods.

A commonly applied credit worthiness standard is known as a FICA or credit score. For instance a loan applicant with a FICA score of 300 would generally be viewed as a high risk for a loan; a FICA score of 700 would generally be viewed as a low risk for a loan. 80 The grant money funded a loan loss reserve that would reimburse Velocity for any defaults. Austin Energy reported that this program to date has had a fairly good record of customer repayment of the loans.

This recommended program could increase the access of low-moderate income customers to affordable financing for replacement of cooling and heating appliances by

⁷⁸ Memorandum from Liz Jambor, EdD, Manager, to Low Income Consumer Advisory Task Force 01//5/15. ⁷⁹ Question 1: What customer classes and customer groups should be targeted for participation in financing programs? Austin Energy Weatherization Program Low Income Consumer Advisory Task Force April 17, 2015, p. 4. 80 *Ibid.*, p 3.

lowering the FICA score needed to qualify for the energy efficiency loan. The financed funds would be used to purchase weatherization services and cooling and heating appliances.

Additionally, customers whose family incomes are between 301 and 400% federal poverty guidelines would have access to cooling appliances at a discounted price.

The reduced price would be obtained through Austin Energy entering into a commitment to purchase a minimum number of cooling units (for example, 100 room air conditioners) from a distributor-manufacturer. The price offered Austin Energy would be the price paid by the customer. The discount at a minimum should equal the highest discount obtainable from the manufacturer-retailer.

Standard residential rebates for energy efficiency measures and energy efficient cooling and heating appliances would also be part of this program thereby reducing the total amount of debt incurred and thereby providing greater assurance that moderate income customers will have access to low cost credit and an affordable repayment plan. Use of a rebate will also ensure greater quality control by ensuring a before and after inspection of the Austin Energy customer's residence is made to ensure the energy efficiency measures and goods are properly installed.

Since Austin Energy will rely upon contractors to market the program and since moderate income families will have access to discounted cooling and heating appliances, the application process should include information about the reduced priced cooling and heating appliances to ensure the energy efficiency program applicant is informed of this option. Contractors should also be required to provide cost comparisons with the reduced price cooling and heating appliances for any other purchasing option recommended by the contractor. Additionally only contractors meeting requirements established by Austin Energy may be hired by Austin Energy customer under this program.

D. Multi-family

1. Fractional (Virtual) Billing

<u>Recommendation</u>: In order to reduce the cost of providing solar energy to multifamily residents, including those in affordable housing, establish a policy and ability within the Austin Energy billing system to allow for the fractional (virtual) value of solar credits from a distributed solar system on a multifamily residential property to be divided and applied to multiple residential customer accounts.

Targeted Underserved Group: Multifamily housing occupants (both renters and homeowners)

Time Schedule: Implement in 2015

Budget Impact: cost of making an update to the Austin Energy billing system

<u>Community Need</u>: Currently, customers can only use solar to offset their electric bills if (1) the solar installation is located on the same property as the customer's electricity usage meter is located and (2) the solar installation is individually wired to connect to a solar production meter that is assigned to that customer. On multifamily housing, it is significantly more cost effective (15-20%) to wire one or a few larger installations than many small installations for each unit.

Foundation Communities, which builds local affordable housing, has already encountered this problem at its Homestead Apartments. In order to allow its tenants to directly benefit from solar, it is having 140 solar installations individually wired and metered because Austin Energy has no policy that allows output form a solar installation to be fractionally divided and applied to more than one customer bill. Because of roof space limitations, these installations will be quite small – 1-1.5 kW each. Compared to the cost of installing 190 kW of solar in 3 large installations, this approach is adding 15-20% to the total cost of the solar project. There is also \$100 permit application fee for each of the 140 systems.

Low-income and medium income residents are much more likely to rent than are higher-income residents in Austin. Although most multifamily properties are not designated affordable housing, many low and medium-income residents live in this type of housing. Providing access to affordable solar energy for multifamily housing will improve equity.

<u>Program Description</u>: Austin Energy already has a system that could be adapted to allow for fractional billing that connects customer electricity usage meters with solar production meters. This system could be adapted to apply value of solar credits accrued from a solar installation to multiple residential accounts by assigning each account a fraction of the credits accrued.

Solar installations on multifamily residential properties would be treated as any other residential solar installation and the accounts of each of the customers to receive bill credits from such a solar installation would also continue to be treated as residential accounts. This is important both to enable such solar installations to qualify for the Austin Energy residential solar rebate and to avoid demand charges that are applicable to commercial accounts.

No new infrastructure or staff would be needed to enable fractional billing for multifamily solar.

2. Funding from Multi-Family Energy Reduction Program

<u>Recommendation:</u> Earmarking Specific Funding from Multi-Family Energy Reduction Program on Low and Moderate Income Customers -- Utilize at least 50% of Austin Energy's multi-family budget to incentivize energy efficiency retrofits on multi-family properties where at least 50% of the households have low and low-moderate incomes. (Adopted 06/05/15, 7 yes – 0 no).

Explanation: The majority of low and low-moderate income households rent and the majority of those households reside in multi-family properties. The quality and maintenance of these rental units are often substandard resulting in high electric consumption for heating and cooling. The resulting high electric bills are borne by those who can least afford it.

The June 5, 2015 recommendation was amended on August 21, 1015 all in favor with 8 yes votes as follows:

Utilize at least 50% of Austin Energy's multi-family budget to incentivize energy efficiency retrofits on multi-family properties that receive affordable housing subsidies from the federal, state, city, or county government or properties where at least 30 percent of the rental units are occupied by Customer Assistance Program (CAP) customers or pay a portion of their rent with housing choice vouchers.

Explanation: The wording of the current recommendation stating that 50% of the units must be occupied by low income customers is a standard that may be difficult to document. By establishing readily identifiable types of affordable housing as categorically qualifying as low and moderate income the administrative burden is greatly reduced. The City of Austin is home to 186 publicly subsidized apartment properties, providing approximately 18,500 rental units with affordability requirements. These requirements are triggered by federal, state, and/or local funding sources, including Low Income Housing Tax Credits, Project Based Rental Assistance, HUD Direct Loans (Section 202 or Section 811), and HUD insurance. In addition, there are approximately 6,200 housing choice vouchers available. Including subsidized housing and those that accept housing choice vouchers provides a substantial target market and focuses limited resources for multifamily energy efficiency benefits to low and moderate income consumers. By working with the Housing Authority, the Housing Finance Corporation and other affordable housing administration offices Austin Energy can closely coordinate its energy efficiency programs with affordable housing renovation schedules and reach out to private properties that accept housing choice vouchers.

3. Online Access of ECAD Disclosure Form

<u>Recommendation:</u> Make the results of ECAD audits and disclosure forms for multi-family properties available on the city's website.

Targeted Underserved Group: All Renters

Time Schedule: Implementation in 2016

⁸¹ Taking Action: Preservation of Affordable Housing in the City of Austin, July 2014, Prepared by: HousingWorks Austin, Prepared for: Austin Housing Finance Corporation, City of Austin p. 8.

⁸² Ibid.

<u>Budget Impact</u>: The budget impact is unknown at this time. It is anticipated that the posting of documents on a website should be achievable at a reasonable cost and may therefore be possible within the current ECAD budget allocation.

Community Need: The ECAD ordinance was adopted in 2008 and amended in 2011. In 2013, 54.9% of all households in Austin were renters. The survey further shows that 32.8% of renter households have annual income under \$25,000 and another 31.1% have income between \$25,000 and \$49,999. Thus, 63.9% of renter households have income under \$50,000 per year. Median household income for renters is \$37,538 compared to \$85,246 for homeowners. As utilities become a more significant part of the affordable housing equation ECAD can provide important guidance to consumers choosing a different apartment to rent. The problem is that the average consumer is unaware of ECAD and the information it provides. At the July 17, 2015 Austin Energy Affordable Energy Summit, and informal poll taken by hand indicated that 4 attendees knew about the program.

<u>Program Description</u>: Under the City's Energy Conservation Audit Disclosure (ECAD) ordinance, apartments with 5 or more units were required to have an energy audit conducted by June 1, 2011. The results are to be made available in three ways. 1) the results must be prominently displayed in facility common areas where public and legal notices are regularly posted, 2) copies of the audit must be available for review at the leasing or manager's office, and 3) the standardized audit disclosure form must be provided to a prospective tenant prior to the tenant's signing of a lease application or if no application is required prior to the signing of a lease.

Searching the Internet for information about rental properties is a common practice. Having the ECAD documents posted on the city's website would give consumers the ability to access and compare the documents early in the process of searching for housing.

4. Amend the ECAD Rules to Provide Recognition for Efficient Rental Units

<u>Recommendation:</u> The ECAD Rules should be amended to establish an award or official recognition that the multi-family facility is in the top 20% of energy efficiency based on the energy efficiency rankings. (07/17/15 7 to 0)

Targeted Underserved Group: Low and moderate-income renters

Time Schedule: Implement in 2015

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⁸³ U.S. Census Bureau, American Fact Finder, S2503 FINANCIAL CHARACTERISTICS, 2009-2013 American Community Survey 5-Year Estimates.
⁸⁴ Ibid.

⁸⁵ *Ibid.*

Budget Impact: None

<u>Community Need</u>: A majority of Austin residents rent and renters disproportionally have lower incomes than homeowners. Rental properties, particularly those with lower rents are often not very energy efficient. Landlords have little incentive to improve energy efficiency at their properties because it's the tenants who pay the electric bills.

Consumers should be provided the information they need to make an educated decision about where to live. Providing a marketing tool to Landlords showing the facility has very high energy efficiency would provide easily understood information to perspective tenants about the efficiency of the facility.

<u>Program Description</u>: Amend the ECAD Rules to provide recognition for apartments that are within the top 20% of energy efficiency rankings would allow Landlords to market the award. It creates a positive inducement without any real cost to AE. This recommendation is creating an award or such other official recognition for Landlords whose facilities are at the high end of energy efficiency. It creates a marketing opportunity for the Landlords and therefore creates an incentive to be energy efficient.

5. ECAD Enforcement

<u>Recommendation:</u> Austin Energy should develop a plan for fully enforcing the entire Energy Conservation Audit Disclosure (ECAD) ordinance, especially for those multi-family facilities whose electric cost is 150% of average electrical cost, and should present that plan to the Electric Utility Commission, the Resource Management Commission and the City Council for approval. Austin Energy should include funding for full enforcement of ECAD, according to the approved plan in its FY 2017 budget proposal.

<u>Targeted Underserved Group</u>: Low and moderate-income renters

<u>Time Schedule</u>: Implement in 2015 (requirement) and 2016 (funding for enforcement)

Budget Impact: cost of enforcement

<u>Brief Description</u>: Create an action plan to enforce the ECAD ordinance, particularly the provision mandating Landlords whose facilities incur electric costs greater than 150% of the average cost to make energy efficient improvements to reduce usage by at least 20%.

<u>Community Need:</u> A majority of Austin residents rent and renters as a class have disproportionally lower incomes than homeowners. Rental properties, particularly those with lower rents are often not very energy efficient. Landlords have little incentive to improve energy efficiency at their properties because it's the tenants who pay the electric bills.

Although landlords of multifamily properties (excluding duplexes, triplexes, fourplexes, and units designated as condominiums) are required to have energy audits conducted on buildings that are at least 10 years old and are required to disclose the results compliance is spotty at best.

The status quo is that renters are often blindsided by high electric bills after signing a lease. In some cases, a rental property with higher rent, but lower electric bills would be more affordable overall. Consumers should be provided the information they need to make an educated decision about where to live.

Enforcing the ordinance would ensure that prospective tenants would receive the energy guide and audit required under the ECAD ordinance before they decide to rent. Moreover, greater enforcement of the required improvements for multi-family facilities with high electric costs would result in greater energy efficiency, thereby resulting in reduced electric bills.

<u>Program Description:</u> Austin Energy should develop a plan for fully enforcing the entire ECAD ordinance and present that plan to the Electric Utility Commission, the Resource Management Commission and the City Council for approval. Actions recommended include: creating a marketing campaign to educate the community and community activists; investigating the multi-family facilities to verify whether the elements of the ECAD ordinance are being carried out; and establishing a prosecution process to enforce the ordinance including the implementation of a process of investigating anonymous tips and carrying out that investigation to prosecution, if applicable. Funding for full enforcement of ECAD, according to the approved plan should be included in its FY 2017 budget proposal.

6. Condition Austin Housing Finance Corporation Financing on applicant's installation solar and energy efficiency

<u>Recommendation:</u> Austin Housing Finance Corporation should condition financing approval to applicants involved with affordable housing with a condition that applicant seek energy efficiency services from AE, including solar for new and substantial rehabilitation construction. Higher rebates should be considered for these applicants.

<u>Reasoning:</u> Austin Housing Finance Corporation provides low cost financing to builders and developers who construct affordable housing. For many applicants, the housing corporation requires them to apply for tax credits, which further ensures low and low-moderate income households will have access to the housing being constructed. Adding a requirement that the applicant seek energy efficiency services from AE, particularly solar will provide greater housing affordability to the tenants. AE funding of energy efficiency programs to these applicants will greater assure that EE funding to going to low and low-moderate income AE customers.

E. Items for Future Consideration

1. Continue the work of the Task Force through a new entity representative of the 10-1 Council.

This Task Force is an entity created by the 7 member at-large council that operated through the transition to the new 10-1 council and then for another 12 months. During its brief existence the Task Force was subject to some criticism for its lack of district representation but it was also praised by many as looking at important issues that are relevant to Austin Energy customers whose needs are frequently overlooked. In public meetings and at the Affordable Energy Summit many individuals took the time to comment that there is a need to continue the discussions began by the Task Force.

2. Conduct an audit and evaluation of the utility billing system.

Looking at the billing system is not one of the directives issued to the Task Force in the City Council Resolution 20140828-158. Even though the subject is out of the immediate scope of the Task Force the subject of a troubled billing system was repeatedly brought to our attention by members of the public. As such it seems appropriate that the council take some to audit and evaluate the billing system. The billing system is the work horse for Austin Energy, the Austin Water Utility and Resource Recovery. Besides being the collection mechanism for a substantial amount of city revenue it is a system that impacts everyone in the city and and isues concerning the system deserve top priority.

3. Expand the scope of the ECAD ordinance to cover rental properties with 1 to 4 units.

The Task Force considered briefly and made no decision on a proposed amendment to the ECAD ordinance that would provide the energy audit information to all renters, not just those in large apartment complexes. Because the recommendation could work to improve the efficiency of a large number of small rental properties in the future it is included on the list for future consideration.

Under the proposal, landlords of single-family homes, duplexes, triplexes, fourplexes, and units designated as condominiums won't be required to make energy efficiency upgrades, but will have to get energy audits done on their properties and will have to disclose the results to prospective tenants in advance of their signing a lease, in advance of lease renewals, or upon request.

This is an important idea. In 2013, 54.9%⁸⁶ of all households in Austin were renters. According to U.S. census data, 36% of rental units in Austin are single-family, attached, duplex, triplex and fourplex structures.⁸⁷ Small rental units represent over a third of the market in Austin and is therefore worth a closer look by a new group. Consumers are often blindsided by high electric bills after signing a lease. After an exhaustive search for an affordable unit or a unit that accepts housing vouchers what appears to be affordable is not because of unexpectedly high utility bills. This is an issue that was brought home in sessions held at the Affordable Energy Summit where many caseworkers expressed concerns over the energy efficiency (and overall condition) of rental properties in Austin where low income households, many with housing vouchers live.

4. Amend the multi-family program to better increase the efficiency of air conditioners in rental properties.

The inability of many renters to pay their utility bills is because of high usage that could be reduced with energy efficiency improvements. These are improvements that make living in the apartment unit more affordable for the tenant and contribute to Austin Energy's energy efficiency and climate protection goals. The current multi-family program through high rebates (85 to 90% of project costs) to owners of rental properties has been successful in promoting air infiltration measures, duct sealing, insulation, solar screens, pipe wrap, compact fluorescent lighting and low-flow water devices. However, the program does not appear have success in having landlords replace air conditioning units that are the drivers of high bills for many low and low moderate income renter households. A task force discussion centered around making the multi-family program more comprehensive to achieve:

- 1. the replacement of old, inefficient air conditioners and water heaters, and
- 2. the placement of greater emphasis on providing energy efficiency in rental properties with up to 30 units.

Working toward this objective the Task Force briefly examined the following changes to the multi-family program that would tie the eligibility for high rebates for measures typically installed under the program to requirement such as:

- requiring that air conditioners and water heaters be consistent with the current minimum stand to qualify for rebates under the appliance program,
- requiring that 25 percent of all air conditioning units and water heaters are less than 10 years old, or

⁸⁷ Taking Action: Preservation of Affordable Housing in the City of Austin, July 2014, Prepared by: HousingWorks Austin, Prepared for: Austin Housing Finance Corporation, City of Austin p. 13

⁸⁶ U.S. Census Bureau, American Fact Finder, S2503 FINANCIAL CHARACTERISTICS, 2009-2013 American Community Survey 5-Year Estimates.

- requiring that none of the units be cooled with an air conditioner that is more than 25 years old.
- make an exception to allow rebates to be paid for replacement of air conditioners that
 meet the current energy code because of overly burdensome physical limitations in
 individual dwelling units that prevent the installation of a unit that meets the appliance
 standard program energy efficiency standards.
- dedicating staff time to target owners of small units to personally contact and meet with landlords to explain the benefits of energy efficiency retrofit.

5. Providing a free energy audit to renters that experience high bills.

In two of the three breakout sessions held at the Affordable Energy Summit a request was made that a program be created that would provide a free energy audit to renters who have high bill complaints. In many circumstances renters get extremely high bills that they believe are caused by an old air conditioner that is able to blow cold air but is dysfunctional from an efficiency perspective. Housing law merely requires that an ai conditioner work. It does not have to be economic to operate. It would be helpful to have an energy audit service that could provide a rational conclusion about the efficiency of the rental unit for the tenant's information.

ⁱDiscussion Panel, Low-Income Consumer Advisory Task Force meeting January 16, 2015, Jesse Porter, Habitat for Humanity, Charles Cloutman, Meals on Wheels and More and Housing Repair Coalition.