

Austin Energy 2022 Base Rate Review City Council Work Session

Austin Energy Executive Team





November 1, 2022 © 2022 Austin Energy

Base Rate Review Process

Tammy Cooper Senior Vice President Regulatory, Communications & Compliance



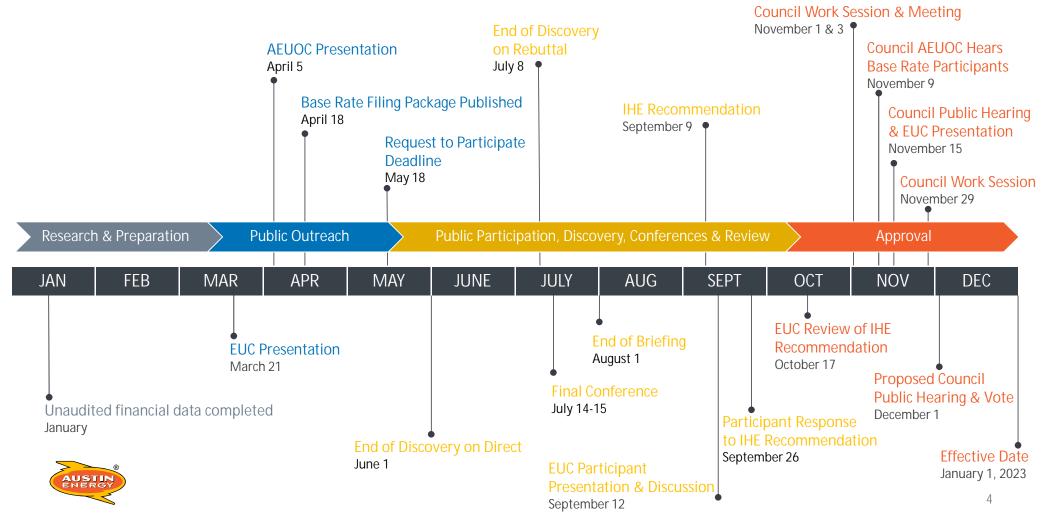
Council-Established Process

ORDINANCE NO. 20120607-055

"The Council adopts as policy that Austin Energy's rates should be reviewed at least once every five years. The Council will establish a process for rate policy development and decision making that will ensure that all customer classes have an opportunity to participate and that their interests are considered. As part of this process, the City will hire a consumer advocate who is knowledgeable and experienced in ratemaking issues to represent residential and small business customers. The City may also hire an impartial hearing examiner to conduct the review and make recommendations."



Austin Energy 2022 Base Rate Review Timeline



Base Rate Review Public Process

Public Outreach and Participation

- Multiple Community Outreach Meetings
- Residential and Commercial Customers
- 600+ Public Comments Submitted

Discovery

- Formal Participants Submitted Questions
- Austin Energy Responded to More Than 500 Questions

• Formal Hearing Process

- Included All Participants
- Open to the Public



Formal Participants:

- Independent Consumer Advocate (ICA)
- Sierra Club and Public Citizen
- Solar and Storage Coalition
- Solar United Neighbors
- 2WR
- Homeowners United for Rate Fairness
- Paul Robbins
- Victor Martinez, Austin Energy Customer
- Coalition for Clean Affordable and Reliable Energy (CCARE)
- Data Foundry, LLC
- Austin Regional Manufacturers Assn (ARMA)
- National Instruments
- Texas Industrial Energy Consumers (TIEC)
- NXP Semiconductor

Final Conference: Hearing on the Merits

- Led by Impartial Hearing Examiner
 - Expert in Utility Ratemaking
 - No Affiliation with Austin Energy nor Participants
- Held at AEHQ & Broadcast on ATXN
- Witness Questioning
- Post-Hearing Briefs Filed





Impartial Hearing Examiner Recommendation

- Issued September 9
- 148 pages
- Detailed summary and analysis of Austin Energy's and all Participants' positions on more than 40 discrete issues
- Intended as a starting point for Council deliberations

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f. Rate Case Expense					
g. Town Lake Center					
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5. General Fund Transfer	7	7	ansfer	5. General Fund Tr	

Impartial Hearing Examiner Recommendation

- Agreed with Austin Energy on the majority of revenue requirement.
- Noted that the rate design changes Austin Energy seeks are well articulated and consistent with certain City and ratemaking policies and principles.
- Observed that Austin Energy proposes a reasonable, standardized approach that ultimately moves all customer classes closer to cost of service.
- Expressed concern about rate shock for some residential customers.

"One way or another Austin Energy must recover its revenue requirement through its rates."

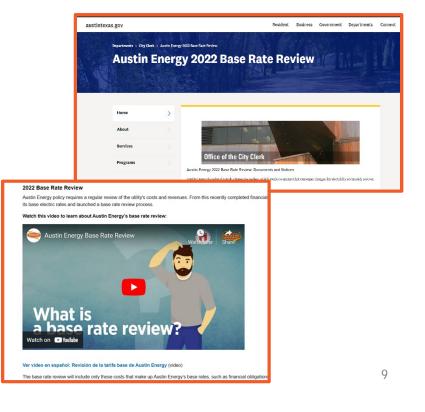


Resources and Information

• All Base Rate Review Documents Are Filed on the City Clerk's Website:

austintexas.gov/cityclerk/postings/ae_2022_base_rate_review_documents_desc.htm

- Austin Energy Base Rate Filing Package
- Written Testimony
- Briefs
- IHE Recommendation
- Videos of Hearings Archived on ATXN
- Austin Energy's Base Rate Review Website
 <u>austinenergy.com/go/rates</u>





Austin Energy 2022 Base Rate Review Establishing Base Rates

Mark Dombroski Deputy General Manager Chief Financial & Administrative Officer



Austin Energy's Requested Changes to Base Rates Topline Challenges

- 1. Austin Energy needs an increase of \$35.7 million in revenue requirements
 - Recovers our actual cost to serve our customers
 - Improves financial stability
- 2. Residential base rate structure must change to reflect actual consumption patterns
 - Remedies the quandary of selling 77% of kWh below the actual cost of service
 - Recalibrates the tiers to reflect our actual customers' consumption patterns
- 3. Residential and commercial customers need to move closer to their cost of service
 - Provides more uniformity in future rate changes
 - Reduces subsides between classes of customers



Austin Energy 2022 Base Rate Review Steps for Establishing Base Rates

Revenue Requirement

Represents the utility's actual, historical expenses and investments required to provide reliable electric service to customers and meet the utility's operational requirements. This is known as Austin Energy's "Cost of Service."

Cost Allocation

After determining Austin Energy's cost of service, we allocate those costs to each customer class based on how each class uses electricity and the resulting demands placed upon the electric infrastructure. This becomes the customer classes' "Cost of Service."

Rate Design

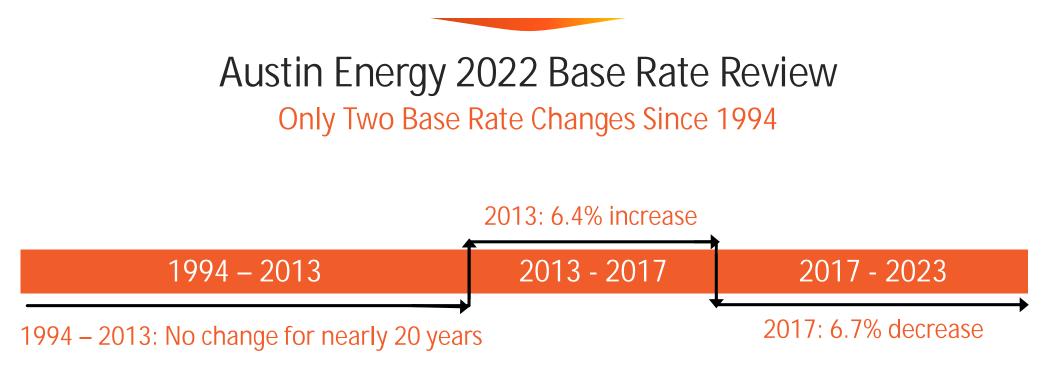
After determining the cost of service for each class of customer, rates are designed to collect that cost from the customers in that class. Rates are set based on "billing determinates" for that class, such as kilowatts, kilowatt hours, or the number of customers. Other factors such as simplicity, continuity, efficiency, and equity are important considerations.



Understanding Naming Conventions Used in the Rate Review

Fiscal Year	•2021	October 1 st through the following September 30 th of the named year's actual financials
Test Year	•2021	Fiscal Year financial results adjusted for known and measurable changes
Base Rate Review Year	•2022	The year in which the base rate review process is conducted
Effective Year	•2023	The year in which the new base rates are effective for customers





Austin Energy's Proposed Base Rate Increase for 2023 is 5.6%



Base Rates Are Used to Recover Fixed Costs – Not the Cost of the Electricity



Supplies & Equipment



Tree Trimming



Principal + Interest Payments

Excluded:

- Power Supply Cost
- Customer Assistance Program
- Energy Efficiency Programs
- Streetlights
- Transmission-related Costs
- District Energy and Cooling



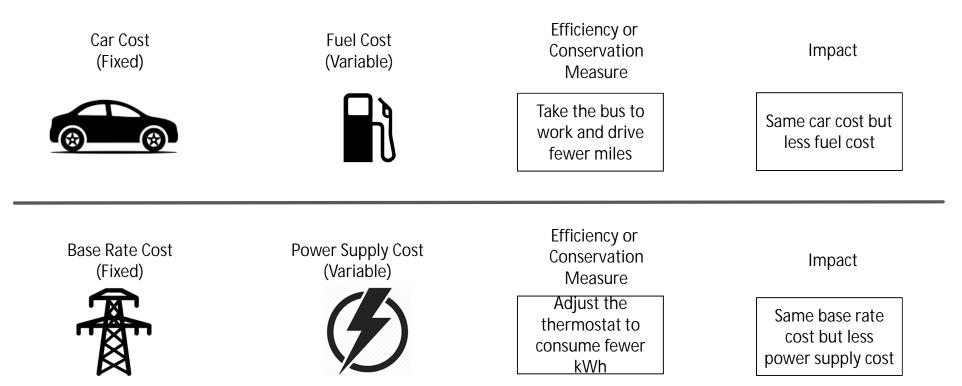
Employees

Technology



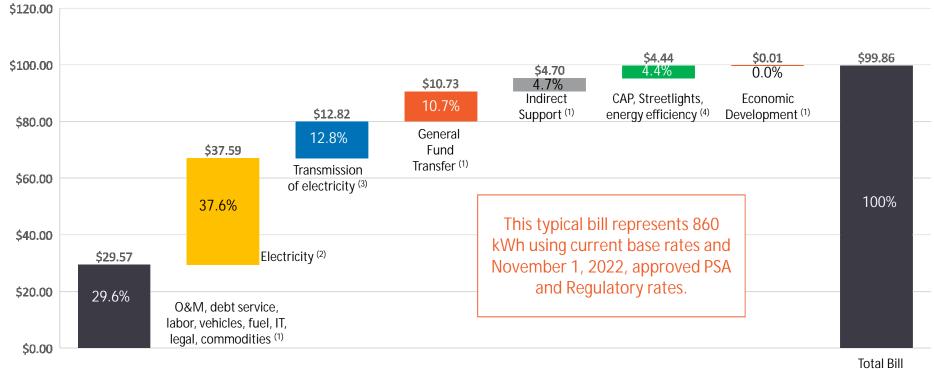
General Fund Transfer

Austin Energy 2022 Base Rate Review When Consumers Use Less, They Can Reduce Their Variable Costs





Breakdown of Costs Recovered on a Typical Inside City of Austin Non-CAP Residential Monthly Bill Consuming 860 kWh



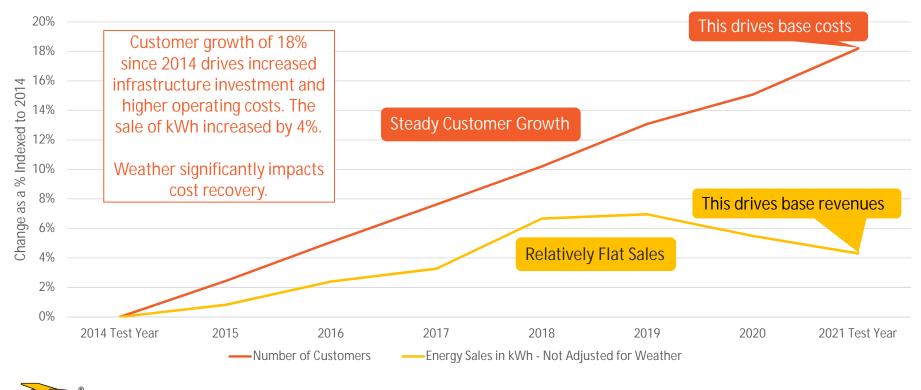
(1) Customer Charge of \$10 and Energy Charge "Base Rates"
(2) Power Supply Adjustment
(3) Regulatory Charge

(4) Community Benefits Charge

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Recovering Fixed Costs at a Variable Energy Rate (kWh) is the Challenge





Austin Energy 2022 Base Rate Review Austin Energy needs an increase of \$35.7 million in revenue requirements



Austin Energy 2022 Base Rate Review It's Required: Master Bond Ordinance

Master Bond Ordinance states: "if net revenues are less than the aggregate amount specified, then rates, charges and fees must be revised and adjusted to comply with such rate covenant."

Net Revenues Components in Millions of \$	With Fund Balance GAAP Fiscal Year 2021	Without Fund Balance GAAP Fiscal Year 2021
Gross Revenues	\$1,276,554	\$1,276,554
Less:		
Operating Expenses	(980,277)	(980,277)
Subordinate Lien Obligations	(11,106)	(11,106)
Separate Lien Obligations	(146,025)	(146,025)
Fund Balance	383,843	
Other Financial Obligations to be Paid from Gross Revenues:		
General Fund Transfer	(114,000)	(114,000)
Cash for Construction	(143,083)	(143,083)
Economic Development Fund	(8,367)	(8,367)
Net Revenues	\$257,539	(\$126,304)



Without the \$383.8 million in cash from the Fund Balance, Austin Energy would not comply with the Rate Covenant in the Master Ordinance. Without an improvement in Gross Revenues, accomplished with an increase in base rates, cash will continue to deplete, and Net Revenues will be insufficient.

Austin Energy 2022 Base Rate Review It's Necessary: Financial Health

The financial health of Austin Energy has deteriorated and is no longer in compliance with its adopted financial policies. Benefits of policy compliance ⁽¹⁾:

- Institutionalize good financial management practices
- Clarify and crystallize strategic intent
- Define boundaries
- Support good bond ratings
- Promote long-term and strategic thinking
- Manage risks to financial condition

Metric	Target	4 th QTR 2019	4 th QTR 2020	4 th QTR 2021	4 th QTR 2022 ⁽²⁾
Days Cash on Hand	> 150 Days	217 Days	224 Days	218 Days	118 Days
Debt Service Coverage	> 2.0	4.0	2.2	2.0	2.2
Operating Margin	> 10%	6.1%	-3.0%	-3.0%	2.0%
Debt to Capitalization	< 50%	51%	53%	54%	54%
Budget Excess (Deficiency)	> \$0	(\$31M)	(\$34M)	(\$129M)	(\$3M)

Current revenue does not cover current operating costs. As a result, Austin Energy is out of compliance with critical financial metrics. Slight improvement in Operating Margin and Budget (Deficiency) due to extremely hot weather in the summer of 2022.

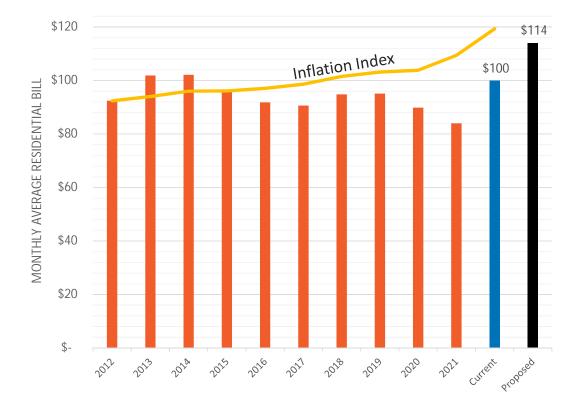


Government Finance Officers Association, Best Practices, Adopting Financial Policies
 4th Quarter 2022 results are unaudited and subject to adjustment.

Austin Energy 2022 Base Rate Review It's Reasonable: Bill Comparison Year-Over-Year Trends

Austin Energy's proposed rates produce reasonable bills that have increased less than inflation for our residential customers.

The following graph displays the historical trend of a typical Austin Energy residential customer bill since 2012 and an index relative to inflation⁽¹⁾. This chart uses the actual average monthly bill to capture the benefit of customers' decreasing average consumption.





(1) Average bills 2012 – 2021 based on EIA data. 2022 bills based on 860 kWh average consumption and proposed rates with approved PSA rate for November 1, 2022.

Austin Energy 2022 Base Rate Review Residential base rate structure must change to reflect actual consumption patterns

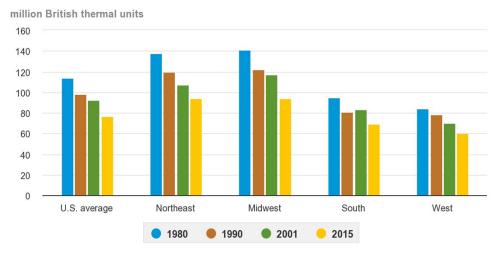


Austin Energy 2022 Base Rate Review Energy Efficiency and Conservation are Driving Reduction in Electric Use

The typical U.S. household now uses more air conditioning, appliances, and consumer electronics than ever before. However, average annual site energy use per home has declined. The reasons for this decline include:

- Improvements in building insulation and materials
- Improved efficiencies of heating and cooling equipment, water heaters, refrigerators, lighting, and appliances
- Population migration to regions with lower heating and thus lower total energy—demand

Energy consumption per household, U.S. average and by census region in selected years



Data source: U.S. Energy Information Administration, *Residential Energy Consumption Survey* for indicated years

eia) Note: Excludes losses in electricity generation and delivery, and consumption of wood fuels.

The decline in average household site energy consumption has offset the increase in the number of homes overall, resulting in relatively flat residential sector energy consumption since the mid-1990s



Trends in Residential Consumption: All Homes are Becoming More Energy Efficient Newer Homes are More Efficient, and Multi-Family Uses the Least

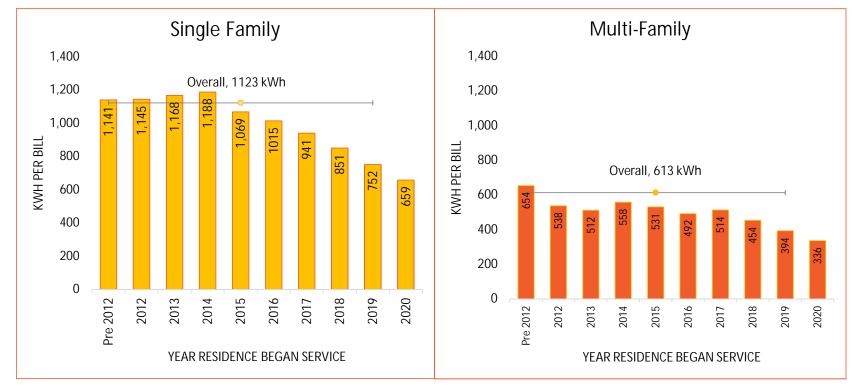
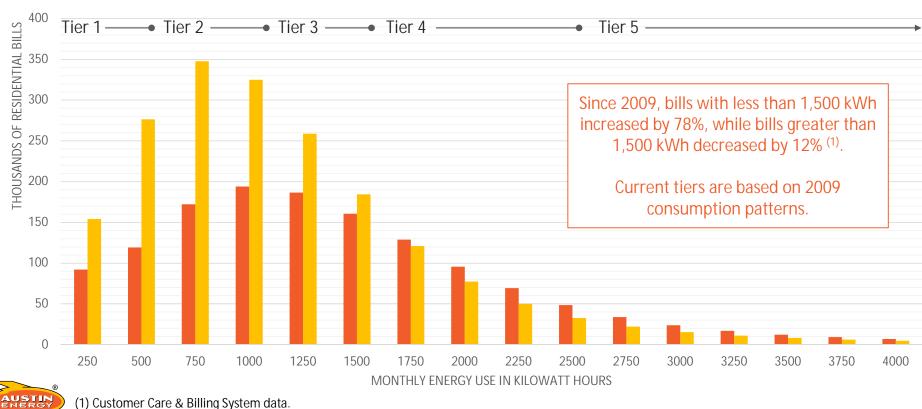




Figure 7-9: Consumption per Premise by Year of Initiation of Service, Single-Family v. Multi-Family Austin Energy Base Rate Review 2022, page 85, published April 18, 2022

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Residential Summer Consumption Patterns Dramatically Changed Between 2009 and 2021



FY 2009 FY 2021

(1) Customer Care & Billing System data.

Austin Energy 2022 Base Rate Review Bunching Analysis: If the price changes, does the demand change?

The Theory: Customers respond to tiered prices by reducing consumption.

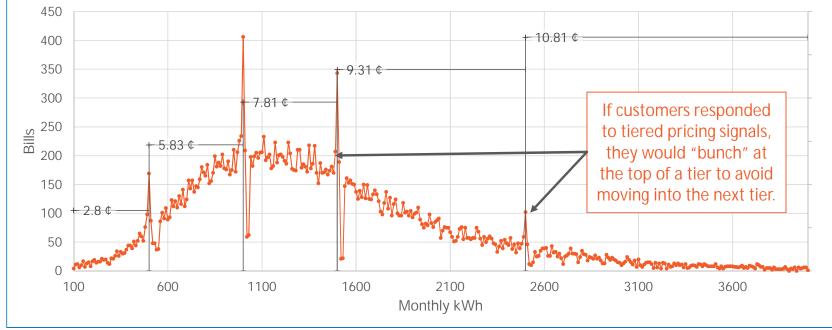
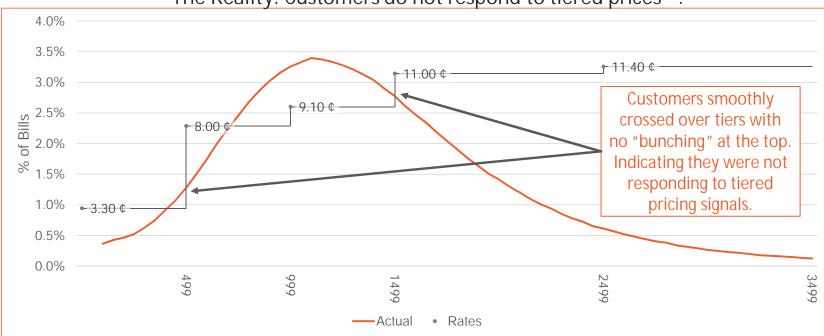




Figure 7-13: Hypothetical Bill Frequency Histogram under Hypothetical "Bunching" Austin Energy Base Rate Review 2022, page 91, published April 18, 2022

Bunching Analysis: If the price changes, does the demand change?



The Reality: Customers do not respond to tiered prices⁽¹⁾.

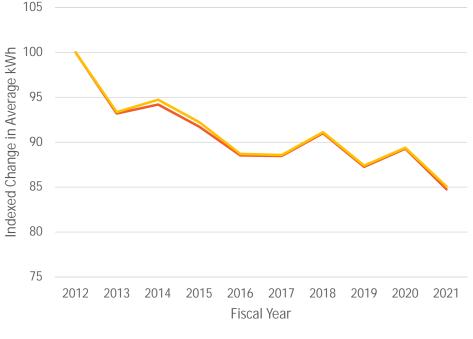
Figure 7-14: Actual Residential Bill Frequency Histogram, kWh per Month, using 2013 – 2016 Billing Data Austin Energy Base Rate Review 2022, page 92, published April 18, 2022



(1) Figure represents a population of 145,000 customers with continuous service who resided in single-family residences within the City of Austin from 2013 through 2016. Tier pricing reflects summer base rates approved in the 2012 Base Rate Review.

Reduction in Residential Consumption Nearly Identical for Both 3-Tiered and 5-Tiered Pricing

- Residential customers outside the City of Austin have seen a similar reduction in the average kWh per month as customers inside the City of Austin
- Outside the City of Austin, customers use 3 tiers rather than 5 tiers of pricing
- Indicates the number of tiers does not directly contribute to reduced energy consumption



-Inside COA -Outside COA

Figure 7-12: Indexed Trends in Average kWh Energy Consumption, Inside-City v Outside-City Residential Customers, 2021 to 2021 Austin Energy Base Rate Review 2022, page 89, published April 18, 2022



5-Tiered Structure Disproportionately Recovers Costs from Our Vulnerable Customers

- On average, in FY 2020 CAP customers used 11.1% more energy than non-CAP
- 39.6% of our CAP customers are billed at the higher tiered rates, while only a 29.4% of non-CAP customers are in those tiers
- Some high-income households do not use much electricity, and some low-income households use a lot

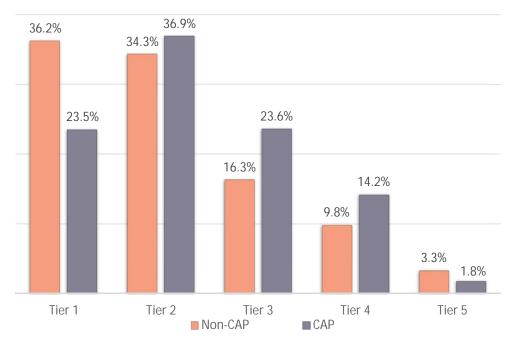


Figure 7-29: Proportion of Consumption in Each Tier Under Current Rates, CAP v. Non-CAP Residential Customers, FY2020 Austin Energy Base Rate Review 2022, page 107, published April 18, 2022



Lower Income does not Always Translate to Lower Consumption: Unintended Consequences

78701 (Downtown)

- \$448k (median housing value)
- \$122k (household median income)
- 0.2% (CAP)
- 78% (Bachelor or higher)
- 1.6 (household size)
- \$3.4m (revenue)
- \$66 (average bill)
- 18.4% Single Family
- 26.3% Built post-December 2014



78724 (Northeast)

- \$147k (median housing value)
- \$50k (household median income)
- 21.9% (CAP)
- 15% (Bachelor or higher)
- 3.7 (household size)
- \$10.7m (revenue)
- \$102 (average bill)
- 74.4% Single Family
- 19.4% Built post-December 2014

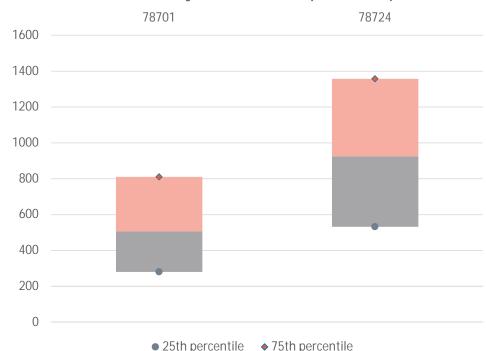


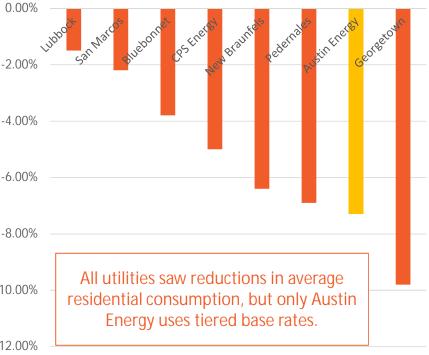
Figure 7-30: Comparison of Income-Related Demographics, Census Data, Zip Codes 78701 and 78724 Austin Energy Base Rate Review 2022, page 108, published April 18, 2022

2020 Monthly kWh Consumption Boxplot

Residential Consumption, Customer Charges, and Tiered Base Rates for Texas Utilities

Utility	Customer Charge ⁽¹⁾	Number of Tiers ⁽¹⁾	Average Consumption 2020 (kWh) ⁽²⁾	Reduction In Ave
Lubbock ⁽³⁾	\$8.07	One	959	Lubboth M
San Marcos	\$10.25	One	917	-2.00% <u> </u>
Bluebonnet Co-op	\$22.50	One	1,225	-4.00%
CPS Energy	\$9.10	One Summer adder >600kWh	1,099	-6.00%
New Braunfels	\$17.06	One	1,209	
Pedernales Co-op	\$22.50	One	1,209	-8.00%
Austin Energy	\$10.00	5 Inside City 3 Outside City	851	-10.00% - All resid
Georgetown	\$24.80	One	860	-12.00%

erage Residential Consumption Between 2013-2020⁽²⁾



(1) Respective published tariffs as of September 19, 2022 (2)

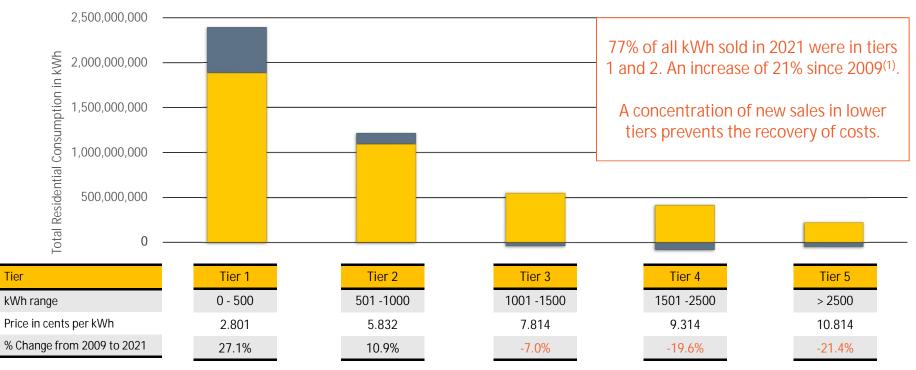
Energy Information Administration Form 861 Data for Calendar Year 2020, published October 2021

(3) Lubbock Power and Light was not located in ERCOT in 2021

Residential base rate structure must change to reflect actual consumption patterns

■ 2009 Consumption ■ 2

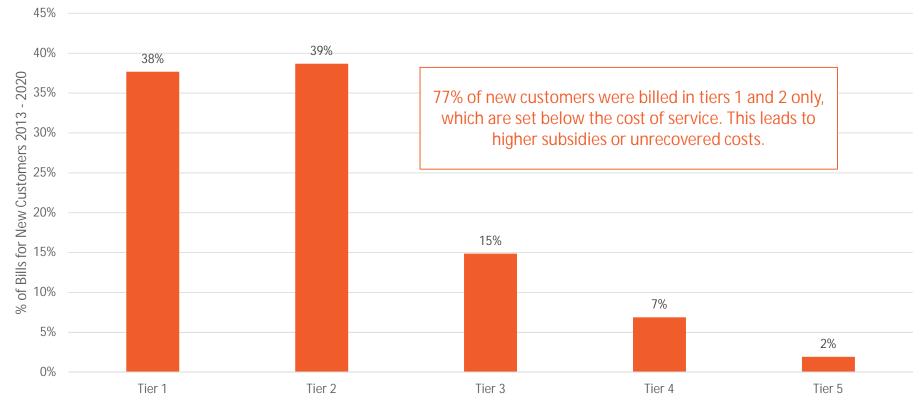
■ 2021 Change in Consumption





(1) Customer Care & Billing System data.

Growth in Sales in Lower Tiers is Due to New Customers not Migration of Customers⁽¹⁾



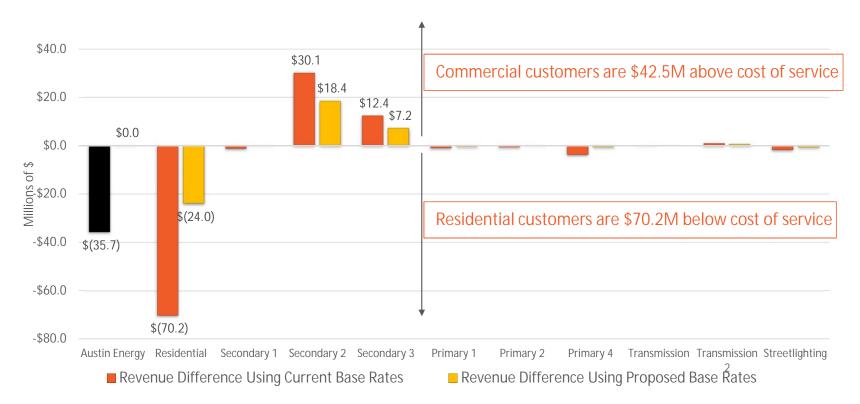
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(1) Customer Care & Billing System data. Selection criteria were residential customers with 200+ annual kWh with premises with 12 bills and approximately 365 billing days constructed from service points built two years before the billing year.

Austin Energy 2022 Base Rate Review Residential and commercial customers need to move closer to their cost of service



Residential and Commercial Customers Need to Move Closer to Their Cost of Service





Data presented in Comparison of Cost of Service, Current Base Rates, and Proposed Base Rates, Schedule G-10.2. Austin Energy Base Rate Review 2022

Inside City of Austin Residential Rate Structure and Pricing Comparison

\$10.00 Customer Charge	Price per kWh	Current	kWh ⁽¹⁾	As a %	
Below Cost of Service	2.801	Tier 1: 0-500 kWh	2,193,948,158	56.9%	Consumption
Below Cost of Service	5.832	Tier 2: 501-1000 kWh	1,024,259,393	26.6%	heavily
Approximately Cost of Service	7.814	Tier 3: 1001 – 1500 kWh	374,842,802	9.7%	weighted in lower tiers
Above Cost of Service	9.314	Tier 4: 1501 – 2500 kWh	193,880,427	5.0%	prevents cost
Above Cost of Service	10.814	Tier 5: > 2500 kWh	68,248,112	1.8%	recovery
		Total	3,855,178,893		
\$25.00 Customer Charge	Price per kWh	Proposed	kWh ⁽¹⁾	As a %	

\$25.00 Customer Charge	Price per kWh	Proposed	kWh ⁽¹⁾	As a %	_	
Below Cost of Service	3.633	Tier 1: 0-300 kWh	1,443,616,801	37.5%		Proposed
Approximately Cost of Service	4.133	Tier 2: 301-1200 kWh	1,970,938,514	51.1%	\mathbf{F}	tiers are more
Above Cost of Service	4.633	Tier 3: > 1200 kWh	440,623,577	11.4%		proportional
		Total	3,855,178,893			



(1) kWh represents Test Year 2021 weather normalized sales as used in the Austin Energy Base Rate Proposal.



Customer Driven. Community Focused.SM



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