# Climate Change and Rising Temperatures: Strategies to Protect Vulnerable Utility Customers



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## National Consumer Law Center (NCLC)

Since 1969, the nonprofit National Consumer Law Center® (NCLC) has used its expertise in consumer law and energy policy to work for consumer justice and economic security for low-income and other disadvantaged people, including older adults, in the U.S.

### Roadmap

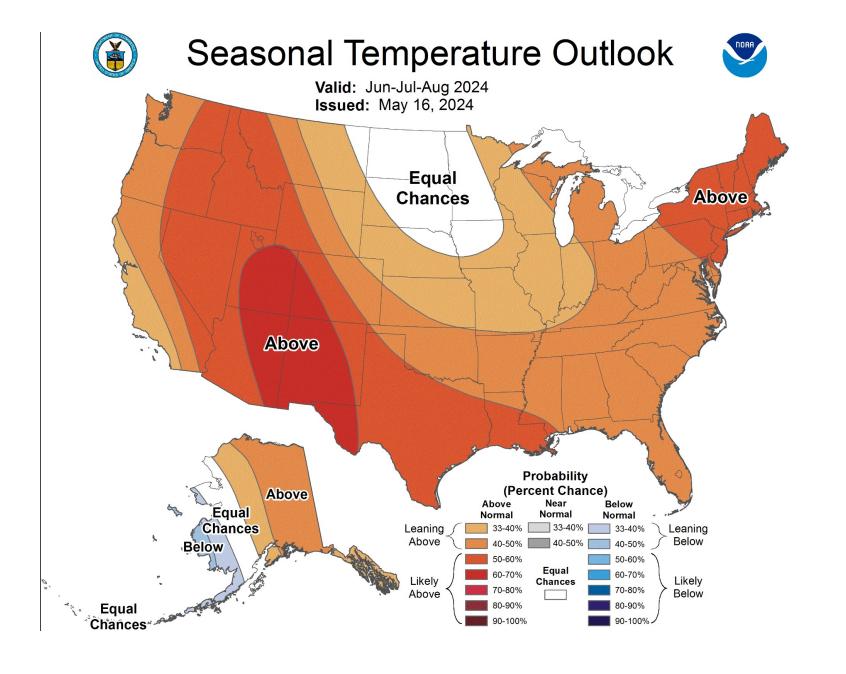
- Extreme Heat and Utility Unaffordability
- What's Needed Now: Implementation of Proactive Policies Addressing Affordability and the Protection of Vulnerable Populations from Disconnections
  - Robust, tiered discount rates or percentage of income payment plans (or both)
  - Summer moratorium protections
  - Emergency orders invoking disconnection moratoriums
  - Disconnection protections for vulnerable populations (infants/children 6 and under; seniors, chronically ill and disabled customers)
  - New credit and collection provisions that lock in more flexible, less punitive practices
  - Monthly reporting of disconnections, arrearages, other unaffordability metrics via monthly zip code level data filings

### 2023: Warmest Year on Record

- 2023 was the warmest year in a 174year climate record.
- 2024 expected to bring record heat

\*Declared by The National Oceanic and Atmospheric Administration's (NOAA)





### Extreme Heat and Weather-Related Deaths

Extreme heat is the leading cause of weatherrelated deaths

- Nearly a quarter of people in the U.S. are vulnerable to extreme heat.
- According to the Centers for Disease Control and Prevention, approximately 1,220 people in the United States are killed by extreme heat every year.
- One estimate pegs the cost of heat events in the U.S. at \$1 billion in excess health care costs each year and if unaddressed, could cost the U.S. economy \$14.5 trillion over the next fifty years.

### Dangers Accompanying Increased Heat

### 2023: Record number of heat-related deaths:

- Maricopa County, Arizona reported nearly 500 heat-related deaths, the region's deadliest year on record.
- Texas Department of State Health Services reported 334 people died from heat-related causes -- more than double the number recorded in 2011.
- In 1995, more than 700 Chicagoans died due to extreme heat in a single week. <sup>3</sup>

### **Urban Heat Islands**

Heat Islands bring increased heat risk to vulnerable populations by increasing:

High all-day temperatures and pollution

Energy consumption

Utility Bills

3

## Urban Heat Islands: Dangers of Increased Heat

Heat Islands exacerbate heat waves, leaving vulnerable populations at risk for serious illness and death:

### Seniors

#### Risk Factors:

- Poor Health
- Lower Mobility
- Heat Sensitivity

### Children

#### Risk Factors:

 Increased sensitivity to ozone pollution and smog

### LMI Populations

#### Risk Factors:

- Poor housing conditions
- Lack of cooling access

### Disabled and Chronically III

#### Risk Factors:

- -Mobility constraints
- -Diabetes
- -Cognitive deficits

#### **Outdoor Workers**

#### Risk Factors:

- prone to heat exhaustion and stroke
- exposure to ozone pollution

### Average Electricity Prices Increasing Across the U.S.

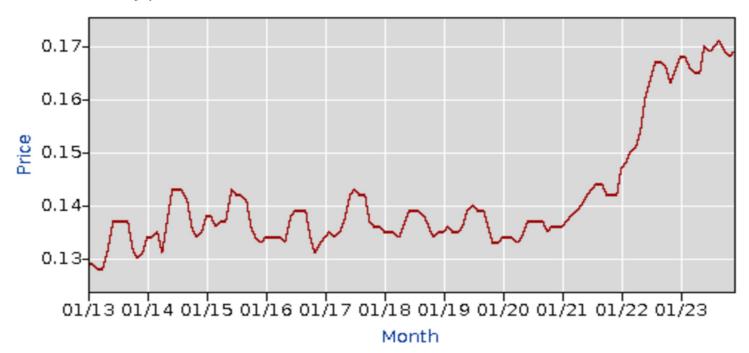
#### **Consumer Price Index Average Price Data**

**Series Id:** APU000072610

Series Title: Electricity per KWH in U.S. city average, average price, not seasonally adjusted

**Area:** U.S. city average

Item: Electricity per KWH



### **Energy Burden**

- 44% of Americans, or about 50 million people, qualify as low-income and have a disproportionately high energy burden
- As such, the percentage of gross household income they spend on energy is three times higher than it is for non-lowincome Americans. "This disparity stands in the way of nationwide energy accessibility and affordability."

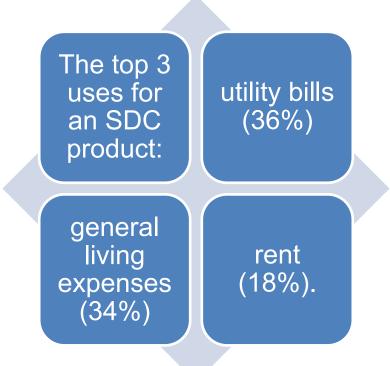
### Climate Change Policies can Increase Utility Bills

Utility customers are being asked to subsidize new state clean energy goals and climate change policies through the monthly utility bill.

- State legislators and regulators rely on the utility bills to subsidize the transition away from fossil fuels to renewable energy sources and EV.
- New clean energy policies have placed upward pressure on utility rates, increasing the need for regulatory and public policy additional assistance for low-income customers.

## Utility Debt is the No. 1 Reason for Payday Loans

When utility bills become unaffordable, the likelihood that consumers will seek expensive payday loans significantly increases.



## Effects of Extreme Heat and Payday Loan Activity

More extreme temperature days in a month increases payday loan demand.

More extreme heat days in a month leads to deteriorating performances of existing payday loans.

Increases in online payday loan inquiries, delinquency, and default rates with decreases in accounts opened and credit issued with more extreme heat days.

Payday loan lenders reduce credit supply during extreme heat days out of concern for an increase in default and delinquency rates.

## Practical Strategies to Address Affordability



## Proactive monthly bill affordability programs

### Percentage of Income Payment Plans (PIPPs)

- Ohio PIPP: Gas heat customers pay 5% of gross household income for gas bill, and 5% gross household income for electric bill.
- If electric heat, the monthly payment is 10% of gross household income. The balance of utility bill is subsidized by the state of Ohio. Minimum monthly payment of \$10.00.
- Paying on-time and in-full each month reduces customer's outstanding balance. If 24 on-time and infull payments made, the outstanding utility arrearage is eliminated.

### Other PIPP Programs

- Illinois PIPP: Heat and electric bill set at 6% of monthly income, but with benefit cap; currently budget-constrained
- California PIPP Pilot: Monthly bill caps based on 4% of monthly income
  - Customers with incomes between 0-100% FPL --\$37
  - Customers with income 101-200% FPL -- \$109 bill cap

## Proactive monthly bill affordability programs

### **Tiered discount rates**

 Percentage discounts should aim for energy burden reduction, similar to PIPPs: e.g., tiered discounts set at 3% energy burden for financially eligible electricity customers and 3% for financially eligible gas customers rates

## Illinois Gas Utility Discount Rates, (October 1, 2024)

- Peoples Gas Light & Coke Co. discounts (serving City of Chicago):
  - *Tier 1 (0-50% FPL)*: 83%
  - Tier 2: (50-100% FPL) 68%
  - Tier 3: (100-150% FPL) 45%
  - Tier 4: (150-200% FPL) 20%
  - Tier 5: (200-300% FPL) 5%
- Nicor discounts (serving Northern Illinois suburbs and outer counties):
  - *Tier 1 (0-50% FPL)*: 75%
  - Tier 2 (50-100% FPL): 55%
  - Tier 3 (100-150% FPL): 25%
  - *Tier 4 (150-200% FPL)*: 10%
  - Tier 5 (200-300% FPL): 5%

## Illinois Gas Utility Discount Rates, (October 1, 2024)

- Ameren Gas discounts (serving Central and Southern Illinois):
  - *Tier 1 (0-50% FPL)*: 75%
  - Tier 2 (50-100% FPL): 55%
  - *Tier 3 (100-150% FPL)*: 25%
  - Tier 4 (150-200% FPL): 10%
  - *Tier 5 (200-300% FPL)*: 5%
- North Shore Gas discounts:
  - *Tier 1*: (0-50% FPL): 79%
  - Tier 2: (50-100% FPL): 68%
  - Tier 3: (100-150% FPL): 36%
  - *Tier 4*: (150-200% FPL): 12%
  - *Tier 5*: (200-300% FPL): 5%

## Arrearage Management Programs

## Arrearage Management Programs (AMPs): reduce customer debt by 1/12 for every on-time monthly bill payment

- When accompanied by PIPPs or discounted rates, wipes out customer debt
- Examples: MA AMPs, Illinois PIPP, Washington State programs

### **Extreme Heat Protections**

- Best Practices: Calendar-Based Moratoriums
  - Example: Arizona: June 1 Oct. 15
  - Lessens the disparate burden on residents in urban heat islands, multifamily housing, housing in poor condition, mobile homes
- In the alternative, if temperature is chosen it is essential to add heat index (Nat'l Weather Service warnings) to account for humidity
- Most effective if part of a comprehensive set of affordability and disconnection protections

## Arizona Weather-Related Disconnection Regulation

- A. Restrictions on termination of service...
- 11. A utility shall adopt only one of the following conditions under which it shall not terminate residential service:
  - a. During any period for which the local weather forecast, as predicted by the National Weather Service, indicates that the weather in the customer's service address:
    - i. Will include temperatures that do not exceed 32° F;
    - ii. Will include temperatures that exceed 95° F; or
    - iii. Will include other weather conditions that the Commission has determined, by order, are especially dangerous to health; or
  - b. During the calendar days of June 1 through October 15 of each year, which shall be specified as non-termination dates in a utility's tariffs.

## Emerging heat-related moratorium strategies

Illinois: 220 ILCS 5/8-205(b):

If gas or electricity is used as the only source of space cooling or to control or operate the only space cooling equipment at a residence, then a utility may not terminate gas or electric utility service to a residential user, including all tenants of master metered apartment buildings, for nonpayment of bills:

- (1) on any day when the National Weather Service forecast for following 24 hours covering the area of the utility in which the residence is located includes a forecast that the temperature will be 90 degrees Fahrenheit or above:
- (2) on any day preceding a holiday or weekend where National Weather Service for the following 24 hours covering the area of the utility in which the residence is located includes a forecast that the temperature will be 90 degrees Fahrenheit or above during the holiday or weekend; or
- (3) when National Weather Service issues an excessive heat watch, heat advisory, or excessive heat warning covering the area of the utility in which the residence is located.

Appendix 1: Summer and Winter Shutoff Protections by State

Protections Listed by State			
Summer Protections	No Summer Protections	Winter Protections	No Winter Protections
Arizona	Alabama	Alabama	Alaska
Arkansas	Alaska	Arizona	California
Colorado	California	Arkansas	Colorado
Delaware	Connecticut	Connecticut	Florida
District of Columbia	Florida	Delaware	Hawaii
Georgia	Hawaii	District of Columbia	Kentucky
Illinois	Idaho	Georgia	North Dakota
Louisiana	Indiana	Idaho	Virginia
Maryland	Iowa	Illinois	5
Minnesota	Kansas	Indiana	
Mississippi	Kentucky	Iowa	
Missouri	Maine	Kansas	
Nevada	Massachusetts	Louisiana	
Oklahoma	Michigan	Maine	
Oregon	Montana	Maryland	
Texas	Nebraska	Massachusetts	21
Washington	New Hampshire	Michigan	
Wisconsin	New Jersey	Minnesota	
	New Mexico	Mississippi	
	New York	Missouri	
	North Carolina	Montana	
	North Dakota	Nebraska	
	Ohio	Nevada	
	Pennsylvania	New Hampshire	
	Rhode Island	New Jersey	
	South Carolina	New Mexico	
	South Dakota	New York	
	Tennessee	North Carolina	
	Utah	Ohio	
	Vermont	Oklahoma	
	Virginia	Oregon	
	West Virginia	Pennsylvania	2
	Wyoming	Rhode Island	
		South Carolina	5.0
		South Dakota	
		Tennessee	
		Texas	9
		Utah	
		Vermont	
		Washington	
		West Virginia	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		Wisconsin	
		Wyoming	

Source: Center for Energy Policy and Climate

### **Emergency Disconnection Moratorium Orders**

- California enacted a model emergency disconnection moratorium (and other protections) order post wildfires that the Commission now can re-issue when needed to address public health and safety concerns that arise, including during extreme weather events.
- "We recognize the need for prompt Commission consideration of disaster preparedness and disaster relief as California experiences the harsh effects of climate change, which increases the probability and severity of disasters like wildfires."
- "The aim of this decision is to provide continuity and support to customers during times of crisis by establishing interim, minimum disaster relief emergency protocols and protections to assist customers with recovery from indiscriminate harm."

## Vulnerable populations need protection from disconnection

Moratorium on disconnection for vulnerable customers, including:

- Seniors (customers age 60 and older)
- Infants/children (households with children under the age of 6)
- Disabled and chronically ill

## What else is needed? Change in Current, Punitive Approach to Credit and Collections Procedures

Overdue for change: Our 100+-year-old approach to collecting utility revenue that punishes people for being poor.

- End late fees
- No security deposits for residential customers
- No reconnection fees for AMI customers (cost-based for non-AMI)
- End discriminatory risk-ranking
- Longer deferred payment arrangements (DPAs) that assess customer's ability to pay monthly bill
- Improve medical certification rules (Does the provision address the realities of illness in terms of the length of the protection? Does it provide certification access to a variety of health care providers?)
- No disconnections of customers waiting to hear on LIHEAP applications

## Impact of Unaffordable Utility Services

- Who most frequently bears the hammer of disconnection?
- Zip code data reveal that Black and Brown/environmental justice communities are disproportionately impacted.

## Disparate impacts of disconnection policies -- ComEd

- There is a striking overlap between race and service disconnections.
- ComEd: Among the 20 zip codes with the highest disconnections ratio, 13 were among the top 20 zip codes with the highest non-white populations.\*
- 16 of the 20 zip codes cited fall within Environmental Justice Communities and all 20 fall within the state's definition of Equity Investment Communities.\*\*
- Relevant data point: Only 14.7% of Illinois' population is Black; Latiné or Hispanic population is 18.0%. (60% white) (<a href="https://www.census.gov/quickfacts/IL">https://www.census.gov/quickfacts/IL</a>)

## Case in Point: What Illinois Zip-Code-Level Data Reveals

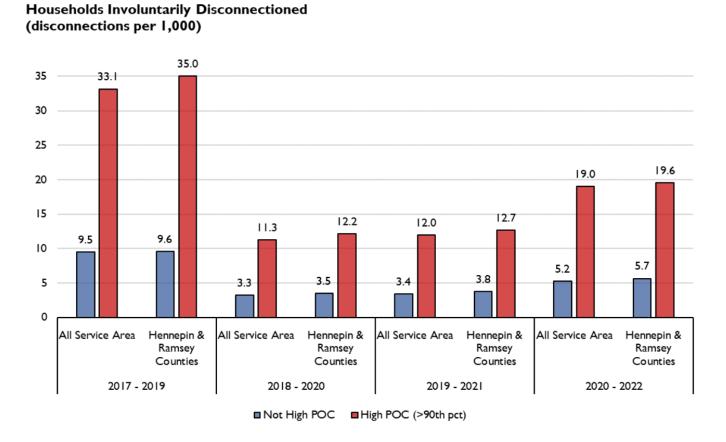
- Tufts University analysis of zip-code-level disconnection data, 2013-2020\*:
  - Controlling for income distribution and other demographics, customers in non-white neighborhoods were four to five times more likely to have their power disconnected, both in normal times and during the COVID-19 pandemic.
  - During the COVID-19 pandemic, there was a 9X expansion in low-income assistance to pay utility bills, but disconnections were double and deferred payment plans triple their historical averages in October 2020. About 20% of all accounts were charged late fees. The odds for each of these measures were multiples higher in non-white zip codes.
- How to change these outcomes? Significant change in disconnection practices is needed – now and in future.

<sup>\*</sup>The incidence of extreme economic stress: Evidence from utility disconnections, S. Cicala, Tufts University, June 28, 2021.

### New evidence from University of Minnesota researchers highlighting racial disparities in shut-offs in Xcel Energy service territory

■ Non-Disadvantaged
■ Disadvantaged

**Figure 3**. Disconnected households, comparing non-disadvantaged versus disadvantaged CBGs in Xcel Energy's service area and in Hennepin and Ramsey Counties from 2017-2021.



**Figure 4.** Disconnected households, comparing CBGs with high percentage of people of color (POC) with others in Xcel Energy's Service Area and in Hennepin and Ramsey Counties from 2017-2022.

## Monthly, Zip Code-Level Reporting Needed

- Monthly zip-code level (or Census tract) data filed by all electric, gas, water/sewer utilities
- IL: (220 ILCS 5/8-201.10) Requires monthly reporting of data, including customer numbers, disconnection notices, disconnections, existing DPAs, new DPAs, failed DPAs, reconnections, deposits, late fees, arrearages past 30 days, number of customers in arrears
- Broken down by customers class, including total residential and low-income subset

### In a nutshell...



## Promoting Continued Access to Essential Utility Services

### **Strategies:**

- Robust, tiered discount rates or PIPPs for eligible customers that keep energy burden at no higher than 6% of monthly income for heat and electricity.
- Summer moratorium protections to incorporate heat index assessments and non-voluntary winter disconnection moratoria
- Emergency orders invoking disconnection moratoriums
- Year-round disconnection protections for vulnerable populations (infants/children 6 and under; seniors, chronically ill and disabled customers)
- New credit and collection provisions that lock in more flexible, less punitive practices:
  - End discriminatory risk-ranking
  - Longer deferred payment arrangements (DPAs) that assess customer's ability to pay monthly bill
  - Improve medical certification rules (Does the provision address the realities of illness in terms of the length of the protection? Does it provide certification access to a variety of health care providers?)
  - No disconnections of customers waiting to hear on LIHEAP applications
- Monthly reporting of disconnections, arrearages, other unaffordability metrics via monthly zip code level data filings

Slide 5: National Weather Service/National Oceanic and Atmospheric Administration (NOAA)Seasonal Temperature Outlook, June – August, 2024:

https://www.cpc.ncep.noaa.gov/products/predictions/long\_range/seasonal.php?lead=2 Slide 6:

Centers for Disease Control, Extreme Heat and Your Health, <a href="https://www.cdc.gov/extreme-heat/about/index.html#:~:text=Key%20points.by%20extreme%20heat%20every%20year">https://www.cdc.gov/extreme-heat/about/index.html#:~:text=Key%20points.by%20extreme%20heat%20every%20year</a>

Kaiser Family Foundation website: *Continued Rises in Extreme Heat and Implications for Health Disparities*, N. Ndugga, S. Artiga, August 24, 2023; see <a href="https://www.kff.org/racial-equity-and-health-policy/issue-brief/continued-rises-in-extreme-heat-and-implications-for-health-disparities/">https://www.kff.org/racial-equity-and-health-policy/issue-brief/continued-rises-in-extreme-heat-and-implications-for-health-disparities/</a>

#### Slide 7:

- 1. https://www.maricopa.gov/ArchiveCenter/ViewFile/Item/5722
- 2. https://www.texastribune.org/2024/01/12/texas-heat-deaths-2023-record-climate-change/
- 3. See Cooked: Survival by Zip Code, J. Helfand, <a href="https://www.pbs.org/independentlens/documentaries/cooked-survival-by-zip-">https://www.pbs.org/independentlens/documentaries/cooked-survival-by-zip-</a>

code/#:~:text=About%20the%20Documentary&text=Cooked%3A%20Survival%20by%20Zip%20Code%20tells%20the %20story%20of%20this,%2C%20elderly%2C%20and%20African%20American.

Slide 8: See https://www.epa.gov/heatislands

#### Slide 9:

https://www.epa.gov/heatislands/heat-island-impacts

#### Slide 9 (cont'd):

Source: U.S. EPA; https://www.epa.gov/heatislands/lheat-island-impacts Heat Island Impacts:

- Maxwell, K., S. Julius, A. Grambsch, A. Kosmal, L. Larson, and N. Sonti. 2018. <u>Built environment, urban systems, and cities</u>. In *Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II* [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC. pp. 438–478.
- Zamuda, C., D.E. Bilello, G. Conzelmann, E. Mecray, A. Satsangi, V. Tidwell, and B.J. Walker. 2018. Energy supply, delivery, and demand. In Impacts, Risks, and Adaptation in the United States: Fourth National Climate Assessment, Volume II [Reidmiller, D.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, K.L.M. Lewis, T.K. Maycock, and B.C. Stewart (eds.)]. U.S. Global Change Research Program, Washington, DC. pp. 174–201.

#### Vulnerable populations:

Gamble, J.L., B. J. Hurley, P.A. Schultz, W.S. Jaglom, N. Krishnan, and M. Harris. 2013. <u>Climate Change and Older Americans: State of the Science</u>. *Environmental Health Perspectives* 121(1): 15-22.

U.S. Climate Change Science Program. 2008. <u>Analyses of the effects of global change on human health and welfare and human systems</u>. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research. [Gamble, J.L. (ed.), K.L. Ebi, F.G. Sussman, T.J. Wilbanks (Authors)]. U.S. Environmental Protection Agency, Washington, DC, USA.

Vaidyanathan. A., J. Malilay, P. Schramm, and S. Saha. 2020. <u>Heat-related deaths — United States, 2004–2018</u>. *Morbidity and Mortality Weekly Report* 69(24):729–734.

#### <u>Slide 10</u>:

Source: U.S. Bureau of Labor Statistics, data extracted January 15, 2024;

See;

https://data.bls.gov/timeseries/APU000072610?amp%253bdata\_tool=XGtable&output\_view=data&include\_graphs=true

#### Slide 11:

Source: U.S. Dept of Energy, Office of Energy Efficiency and Renewable Energy, available at:

https://www.energy.gov/eere/energy-accessibility-and-affordability

See also Home Energy Affordability Gap website (R. Colton): http://www.homeenergyaffordabilitygap.com/index.html

#### Slide 13:

Source: A Complex Portrait: An Examination of Small-Dollar Credit Consumers, The Center for Financial Services Innovation, Rob Levy, Manager, Innovation and Research, Joshua Sledge, Analyst, Innovation and Research, August 2012, p. 4.

#### Slide 14:

Source: Extreme Weather and Low Income Household Finance: Evidence from Payday Loans, S. Xie, V. Wenxin Xie, X. Zhang, January 8, 2024

#### Slides 16, 17: (PIPP Programs)

Ohio: <a href="https://development.ohio.gov/individual/energy-assistance/2-percentage-of-income-payment-plan-plus">https://development.ohio.gov/individual/energy-assistance/2-percentage-of-income-payment-plan-plus</a> Illinois: <a href="https://development.ohio.gov/individual/energy-assistance/2-percentage-of-income-payment-plan-plus">https://development.ohio.gov/individual/energy-assistance/2-percentage-of-income-payment-plan-plus</a> Illinois: <a href="https://development.ohio.gov/content/dam/soi/en/web/dceo/communityservices/utilitybillassistance/documents/pipp-brochure-2019.pdf">https://development.ohio.gov/content/dam/soi/en/web/dceo/communityservices/utilitybillassistance/documents/pipp-brochure-2019.pdf</a>

California: California Public Utilities Commission, Rulemaking 18-07-005, Order of October 7, 2021 <a href="https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M413/K823/413823568.PDF">https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M413/K823/413823568.PDF</a>

#### Slide 18: (Discount rates)

WA Util and Trasp. Comm, See, e.g. Dkt. UE-230560, UE-230539, UG-230551, UG-230739

#### Slides 19, 20: (Tiered discount rates)

See Illinois Commerce Commission Docket Nos. 23-0066 (Nicor Gas)

ICC Docket No. 23-0068/0069 (North Shore Gas, Peoples Gas)

ICC Docket No. 23-0067 (Ameren Illinois Gas)

#### Slide 21:

See Helping Low-Income Utility Customers Manage Overdue Bills through Arrearage Management Programs (AMP), National Consumer Law Center, C. Harak, September 2013; <a href="https://www.nclc.org/wp-content/uploads/2022/09/ampUreportUfinalUsept13.pdf">https://www.nclc.org/wp-content/uploads/2022/09/ampUreportUfinalUsept13.pdf</a>

38

#### Slide 23:

Ariz. Admin. Code R14-2-211; ACC Docket No. RU-A-19-0132, Decision 78316 (Nov. 9, 2021)

<u>Slide 25:</u> Center for Energy Policy and Poverty/National Energy Assistance Directors Association: Summer Residential Cooling Outlook: Residential Electric Utility Expenditures Projected to Reach Record Levels, Highest in 10 years, p. 11.

<u>Slide 26:</u> See Decision Affirming the Provisions of Resolutions M-4833 and M-4835 as Interim Disaster Relief Emergency Customer Protections, California Public Service Commission Rulemaking 18-03-011, August 20, 2018

#### Slide 27:

Infant protection: MA – M.G.L. Ch. 164, section 124H

Senior protection: MA – 220 C.M.R. 25.05

Slide 30: See ICC Docket No. 22-0067, COFI Ex. 1.0 (2<sup>nd</sup> CORR), pp. 19-20; https://www.icc.illinois.gov/docket/P2022-0067/documents/322585

<u>Slide 31</u>: *The incidence of extreme economic stress: Evidence from utility disconnections,* S. Cicala, Tufts University, June 28, 2021.

#### Slide 32:

Racial and Economic Disparities in Electric Reliability and Service Quality in Xcel Energy's Minnesota Service Area, Bhavin Pradhan, Postdoctoral Associate, Gabriel Chan Associate Professor, February 2024; <a href="https://conservancy.umn.edu/items/8121c1ee-b191-4add-ac72-086af690e344">https://conservancy.umn.edu/items/8121c1ee-b191-4add-ac72-086af690e344</a>

### **Questions?**

### **Contact Info:**

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