



THE
**POWER OF
PEOPLE**



NPPD Retail Residential Energy Burden Update

NPPD Board of Directors Meeting
March 2023

Pat Hanrahan, General Manager of Retail



Nebraska Public Power District

Always there when you need us

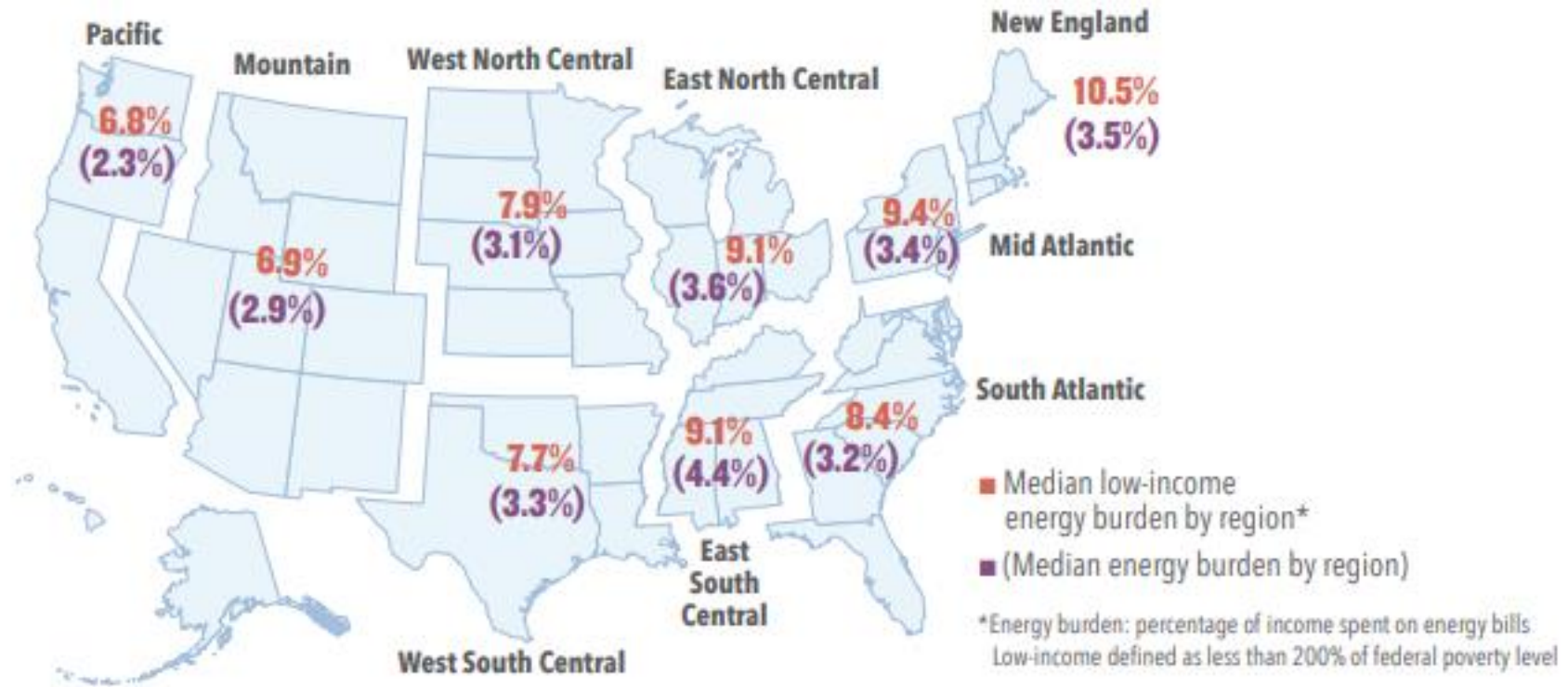
What is Energy Burden?

$$\text{Energy Burden} = \frac{\text{Annual Home Energy Bills}}{\text{Annual Income}}$$

Includes impacts from Electricity, Natural Gas, and other heating and cooling fuel sources

High energy burden > 6%

Severe energy burden > 10%



Energy Burden Factors

Physical

- Housing Age & Type
- Heating & Cooling System & Fuel
- Poorly Insulated / Inadequate Air Sealing
- Inefficient Appliances
- Climate / Weather Extremes

Economic

- Low Income / Economic Hardship
- Inability to afford up-front energy efficiency investments
- Difficulty qualifying for credit or financing options for energy efficiency investments

Behavioral

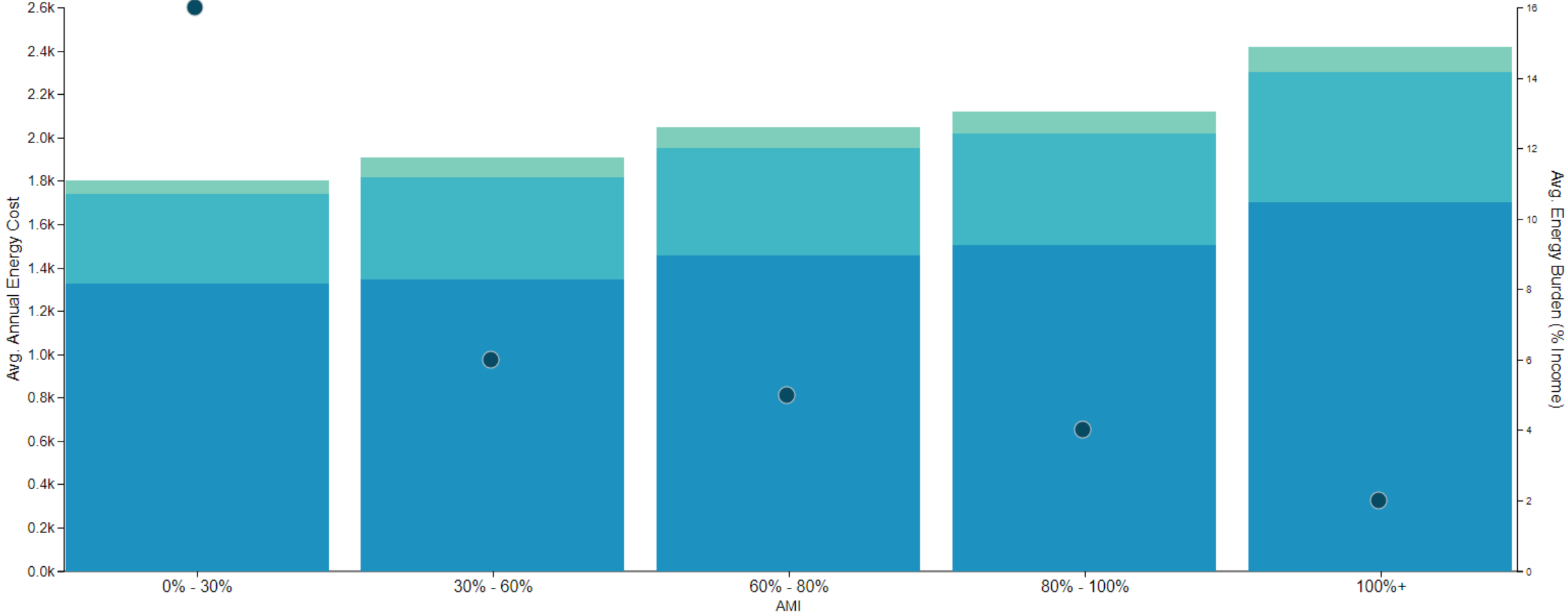
- Information barriers related to bill assistance and energy efficiency programs
- Lack of trust towards energy efficiency investments
- Increased energy use due to age, health, disability, or occupancy

Policy

- Insufficient or inaccessible policies and programs for bill assistance, energy efficiency, and weatherization for low-income households
- Utility rate design may limit customer ability to respond to high bills through energy efficiency or conservation
(High Fixed Customer Charge)

U.S Average Energy Cost

Avg. Annual Energy Cost for the United States



- The United States**
- Electricity
 - Gas
 - Other
 - Avg. Energy Burden (% Income)

Electricity Burden

$$\text{Electricity Burden} = \frac{\text{Annual Electricity Bill}}{\text{Annual Income}}$$

NPPD Retail Electricity Burden

Minimum = 1.64%

Average = 2.81%

Maximum = 3.93%

NPPD Community
Annual Bill

Minimum = \$1,182

Average = \$1,511

Maximum = \$1,850

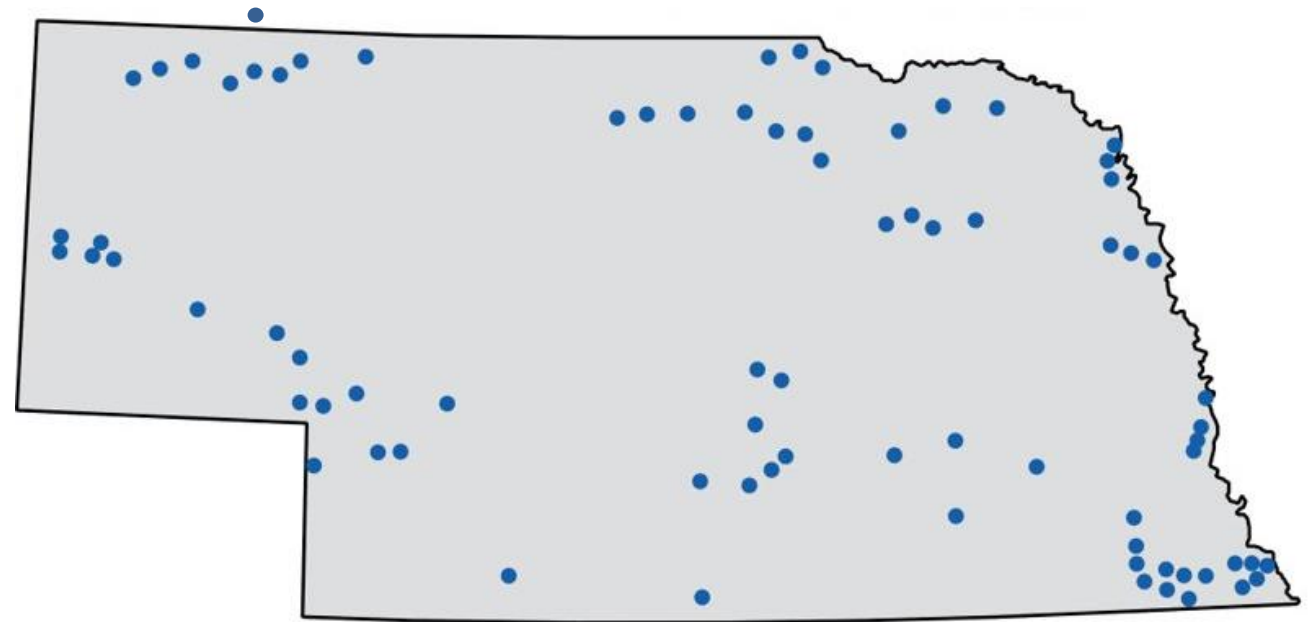
NPPD Community
Median Income

Minimum = \$38,444

Average = \$55,411

Maximum = \$79,732

NPPD Retail Communities = 2.81%

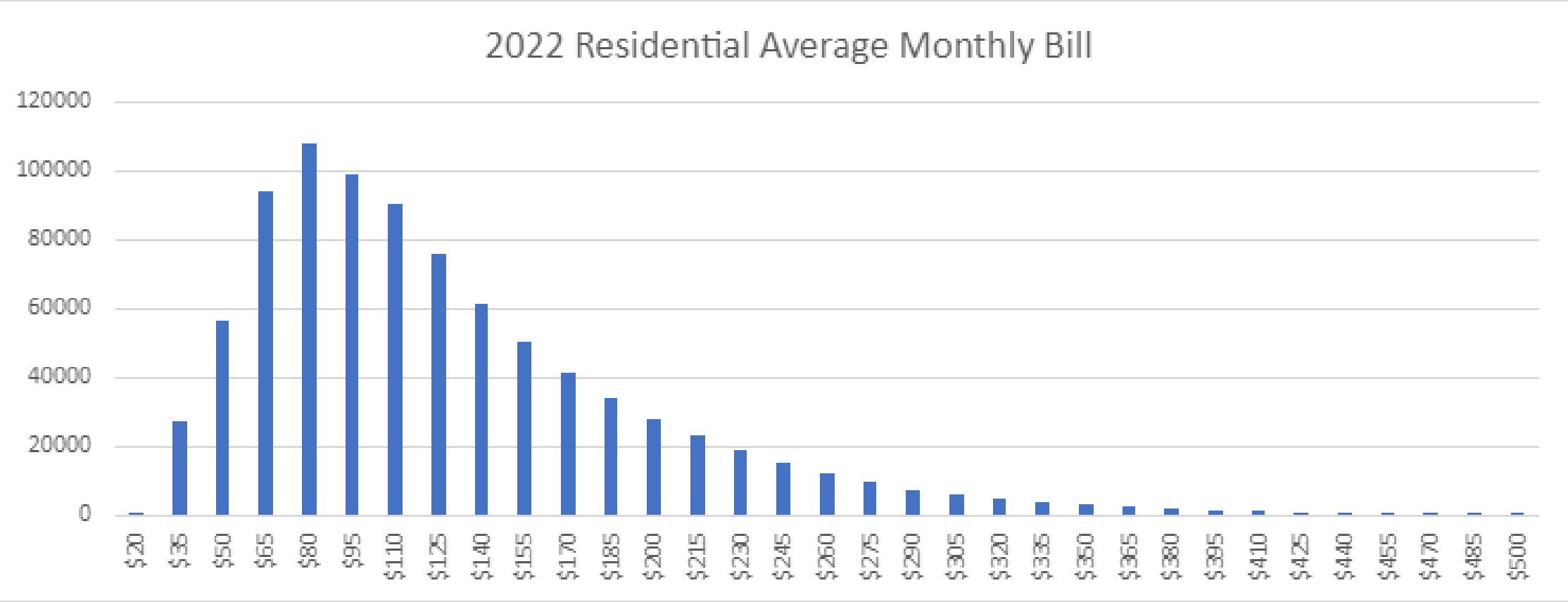


NPPD Residential Account Data

Summary of 2022 Residential Aged Debt

	Q1	Q2	Q3	Q4
% of Accounts Current	85.7%	86.3%	87.3%	86.0%
% of Accounts in Arrears	14.3%	13.7%	12.7%	14.0%
Total Aged Debt >30 Days <90 Days	\$949,126	\$777,649	\$1,124,044	\$952,158
Total Aged Debt 91+ Days	\$10,449	\$2,827	\$8,737	\$10,547
Number of Accounts >30 Days <90 Days	3,354	3,100	3,526	3,505
Number of Accounts 91+ Days	56	18	58	67

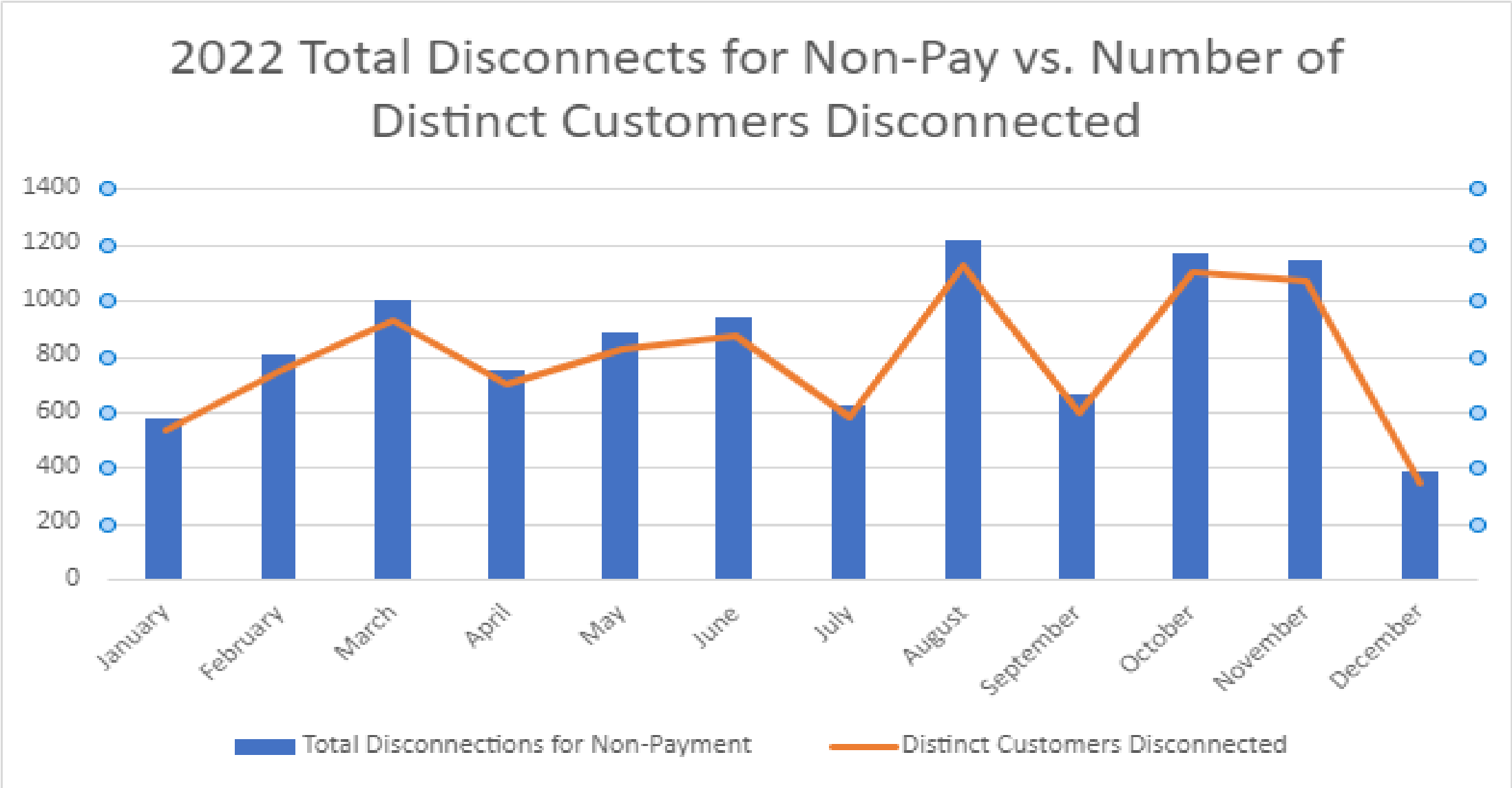
NPPD Residential Average Monthly Bill



Average Residential Monthly Bill	\$122.99
Minimum Residential Monthly Bill	\$8.11
Maximum Residential Monthly Bill	\$1,934.45

61.26% of NPPD Residential Customer Bills are less than the Monthly Average

Disconnects for Non-Pay Residential



Impact of Assistance Programs

Residential

Pennies for Power

Nebraska 211 – United Way of the Midlands

LIHEAP – Low Income Home Energy Assistance Program

- ACCESSNebraska

Nebraska Department of Health and Human Services

NebraskaHAF (Homeowner Assistance Fund)

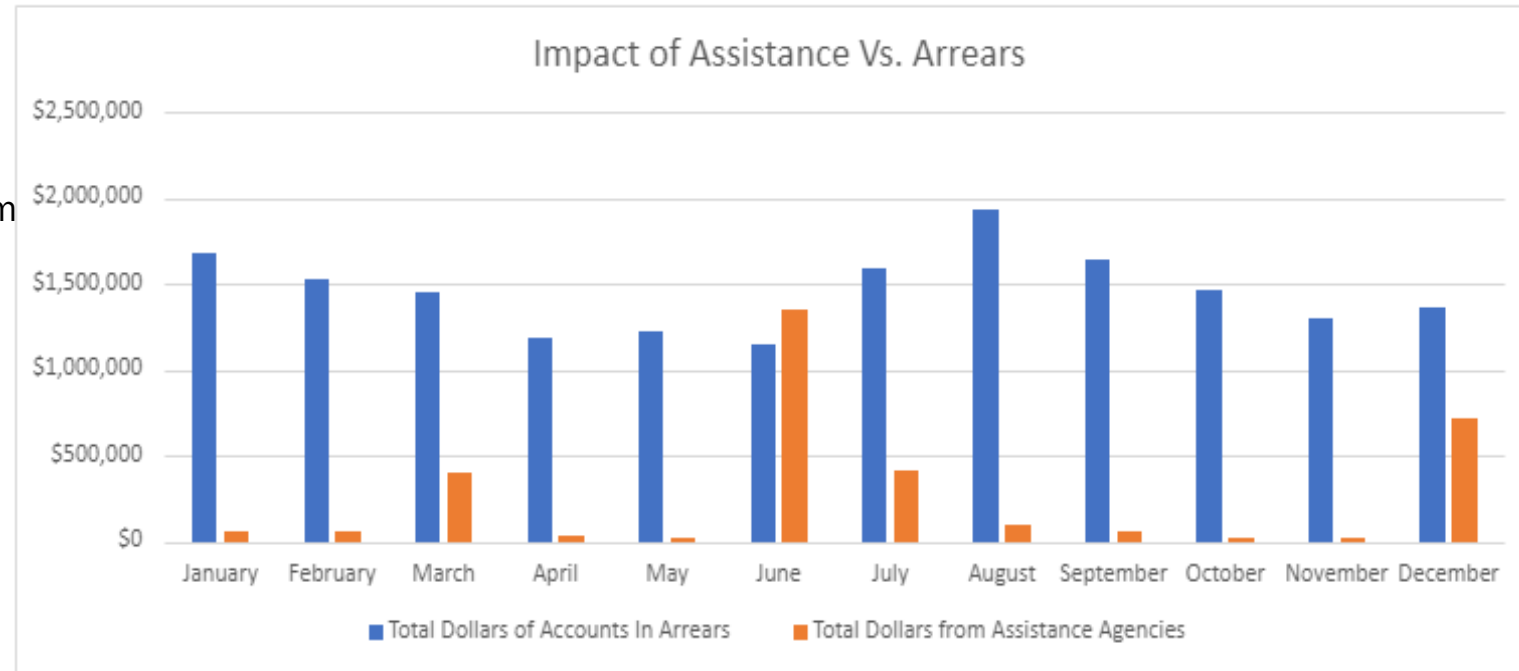
- Covid Relief

County and Community Health Services Agencies

Native American Programs

NPPD Customers have access to more than 50 different assistance programs

Energy Assistance Awareness Campaigns



**APPLY FOR
THE NEBRASKA HOMEOWNER
ASSISTANCE FUND**

Funds are available for pandemic-impacted homeowners

Apply at NebraskaHAF.com

**Solicite el Fondo de Asistencia
para Propietarios de Vivienda
de Nebraska**

Los fondos están disponibles para los dueños de viviendas afectados por la pandemia.

Se puede aplicar en NebraskaHAF.com

NPPD Products & Services

- Offer Customer Flexibility
 - Continue to explore opportunities for enhancing Products and Services portfolio

Residential	
Attic Insulation Incentive	Time-of-Use Rate
Cooling System Tune-Up Incentive	Pre-Pay*
High Efficiency Heat Pump Incentive	Net Metering
Heat Pump Water Heater Incentive	Community Solar
Induction Cooking Incentive	Simultaneous Buy-Sell
Smart Thermostat Incentive	Electric Vehicle Charging Station
Lawn and Garden Incentive Program	EV Charging Station Pre-Wiring

Commercial / Industrial / Agricultural	
LED Lighting	Net Metering
HVAC System Installation & Optimization	Community Solar
Industrial Process	Simultaneous Buy-Sell
Vairable Frequency Drive	Demand Waiver Rider
Heat Pump Water Heater	Off-Peak Rider
Prescriptive Irrigation	Standby Service Rider
Corner Pivot (VFD)	Demand Response Rider
EV Charging Station Commercial Conduit	EV Commercial Charging Station
Custom Ag	



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Questions

Stay connected with us.



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