



Maine Energy Burden Study

Electric Ratepayer Advisory Council,

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Principal

VEIC: High-impact energy solutions that decarbonize buildings, transportation, and utility grids, today.

- Nonprofit founded in 1986
- National consulting practice working across over 75% of the country
- Program design & implementation for award winning energy efficiency and clean energy programs

Making an impact.



Study Background & Goals

Background

- 2018 study established a low-income energy efficiency baseline
- 2019 study reported an average building energy burden of 19% for low-income HH

Scope

Characterize household spending & burden

- Electricity
- Heating
- Transportation

By county and census tract



Data

- DOE LEAD Tool
- EIA Residential Energy Consumption Survey (RECS)
- NREL ResStock
- NREL SLOPE Tool
- US Census data (HH Income, tenure)
- Program data
- Interviews



Energy Burden =
% HH income spent on energy

Methods

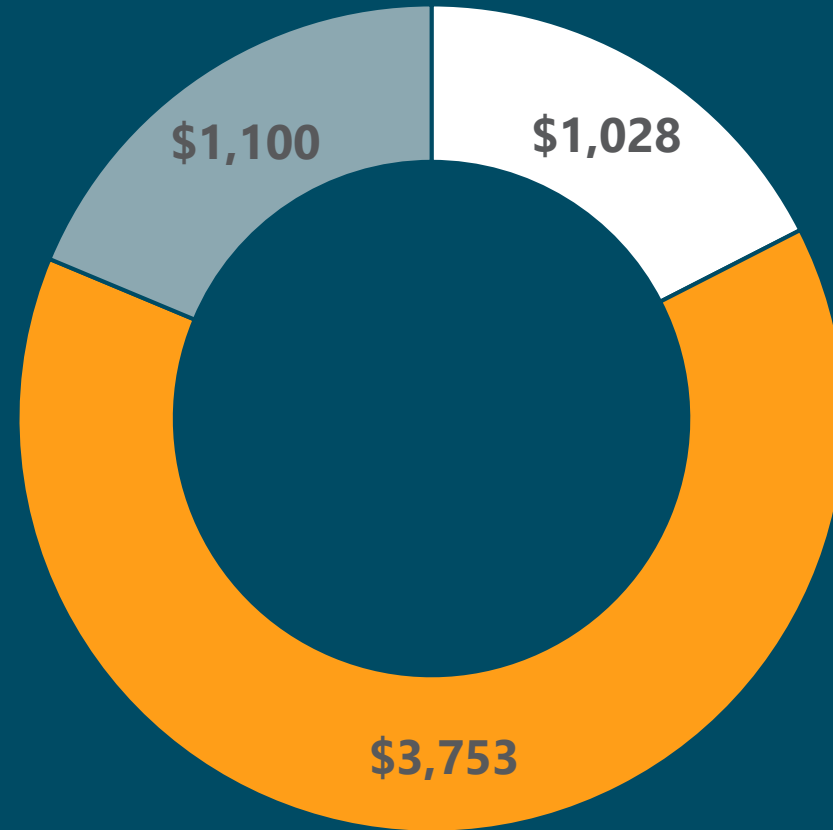
- Analysis by county and tract, demographics as data is available
- Calculate a benefits cliff statewide
- Interviews with partners/
Community Action Agencies to understand the experience with existing program landscape



Preliminary Data

(Source: DOE LEAD Tool,
Housing & Transportation Index)

Low Income HH Energy Spending

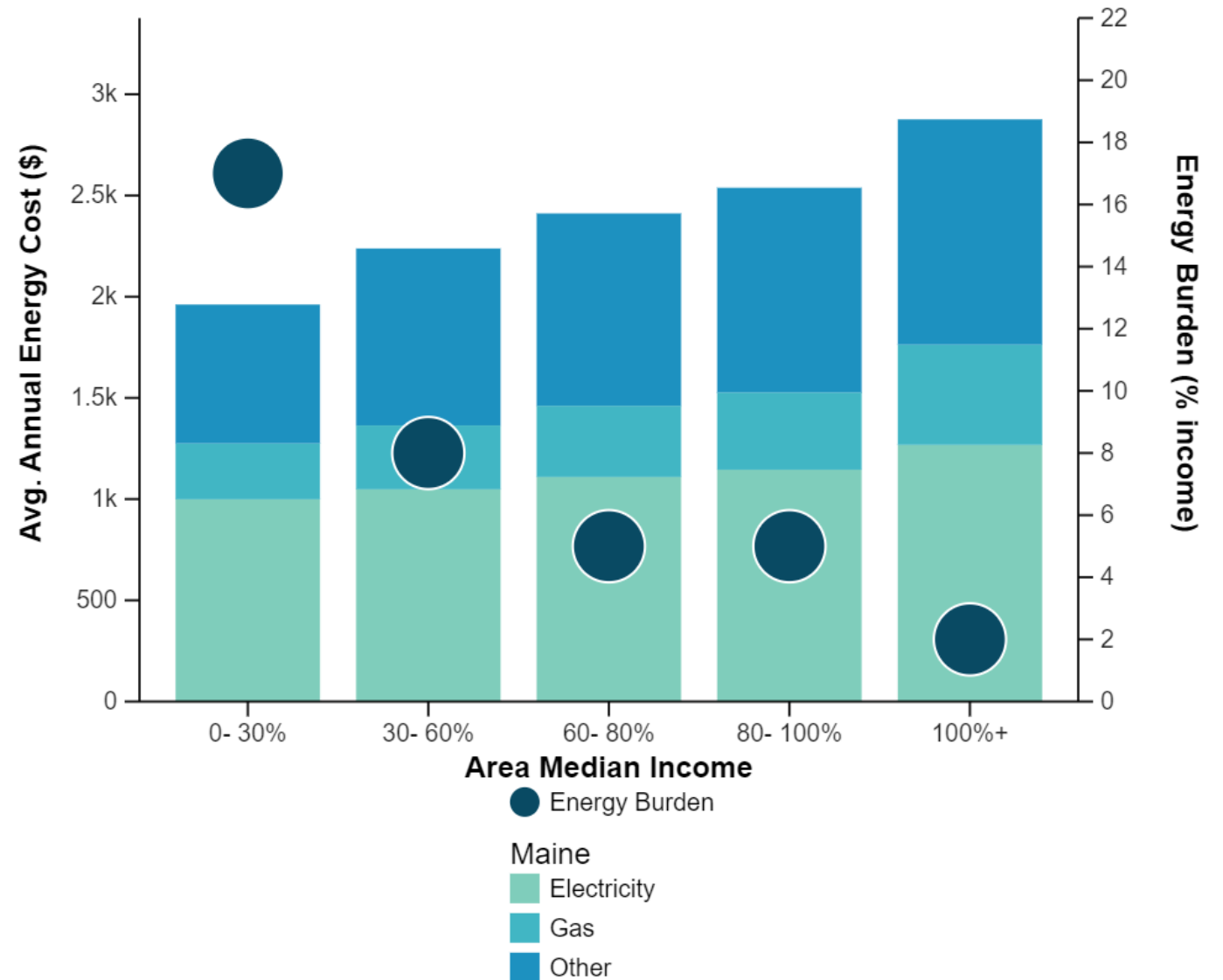


■ Electricity ■ Transportation ■ Fossil fuels/other

Preliminary data

Spending and Burden by income quintile and fuel type

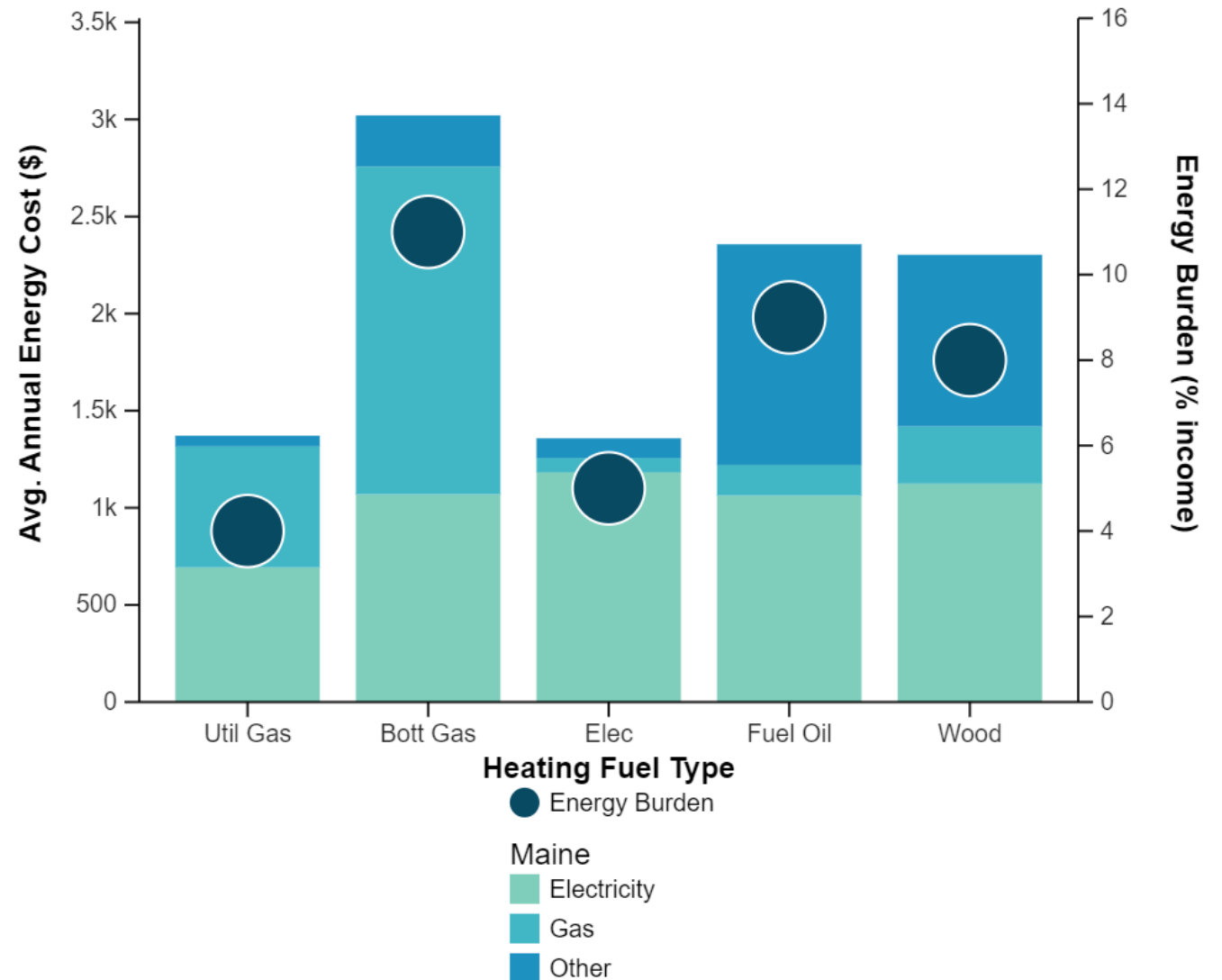
(Source: DOE LEAD Tool)



Preliminary data

Low Income HH (<60% AMI)
spending and burden by fuel type

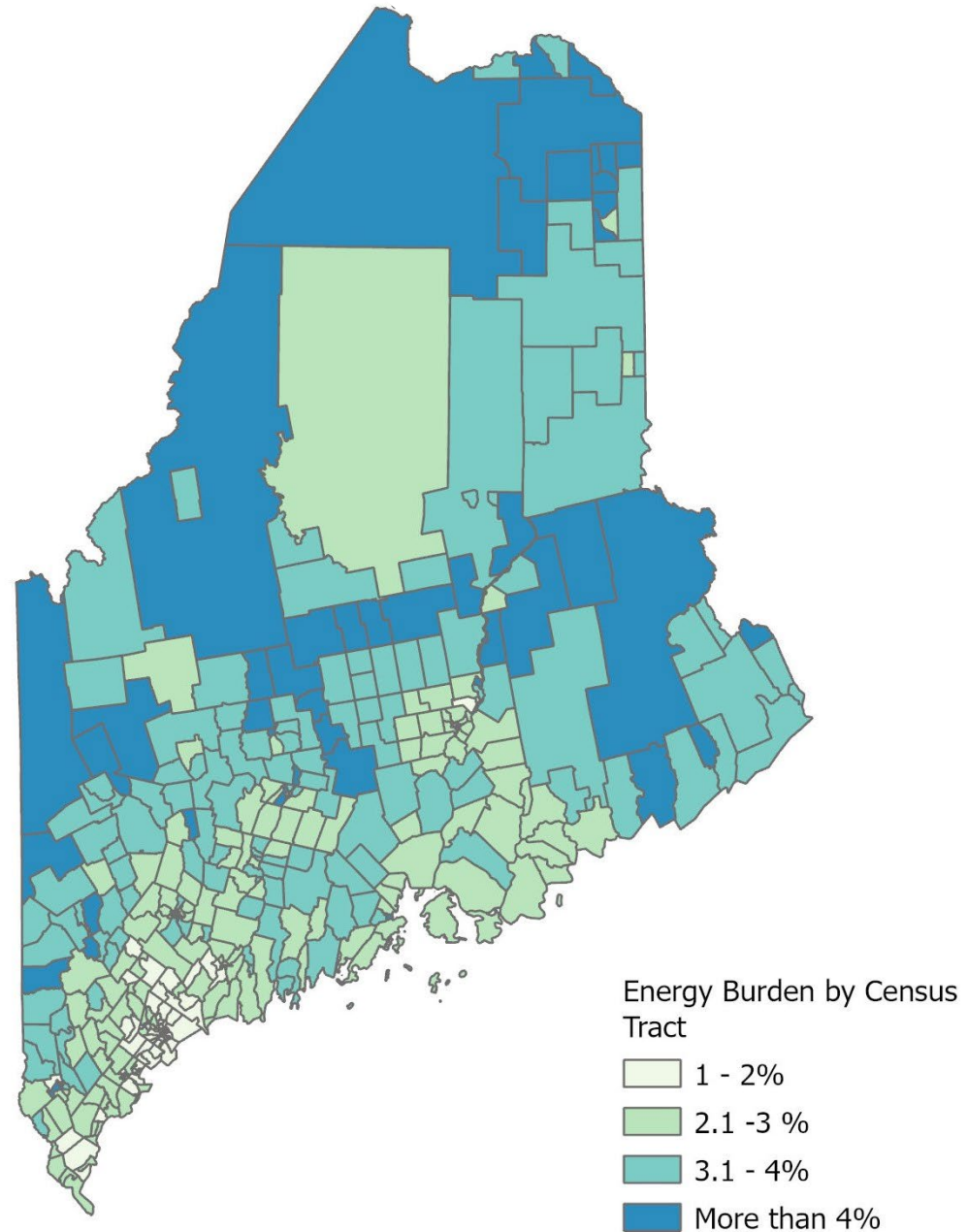
(Source: DOE LEAD Tool)



Preliminary data

Electricity and Heating Burden –
All households

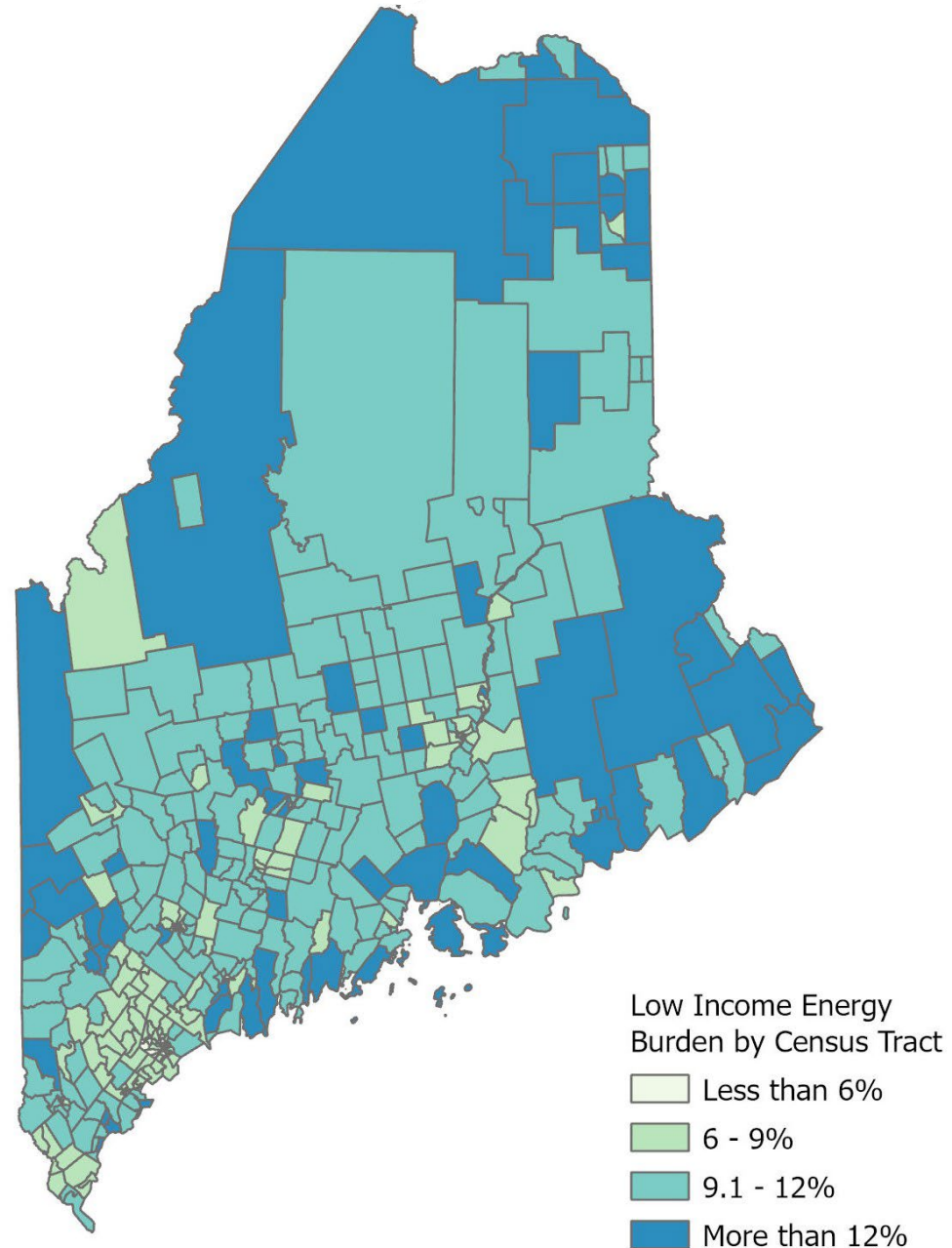
(Source: DOE LEAD Tool)



Preliminary data

Low Income Electricity and Heating Burden (HH <60% AMI)

(Source: DOE LEAD Tool)



Timeline

	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tasks								
1. Project Management		ERAC						
2. Data Gathering			D					
3. Analysis				D	D			
4. Final Report						D	D	

Discussion

Suggestions?

How will you use this study?



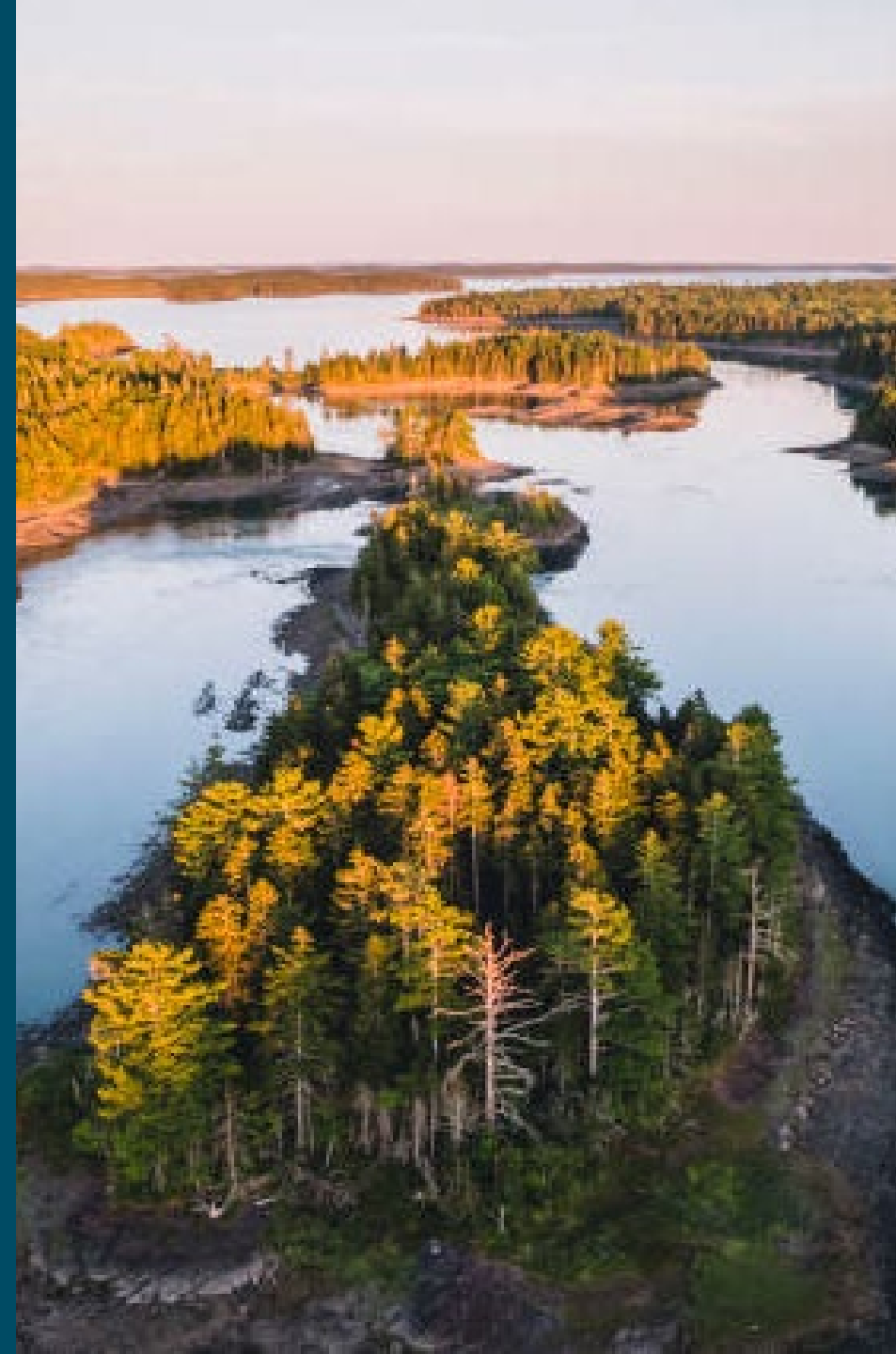


Thank you

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An aerial photograph of a road and surrounding green fields. The road is a two-lane highway with a white center line, curving from the bottom left towards the top right. The fields are lush green, with some areas showing signs of being recently plowed or having different crops. A large, white, semi-circular graphic element is positioned on the right side of the image, partially overlapping the road and fields.

veic

Appedix

Preliminary data

Annual Spending by fuel type (\$/HH)

(Source: 2020 EIA Residential Energy Consumption Survey)

