

Energy Insecurity in Texas

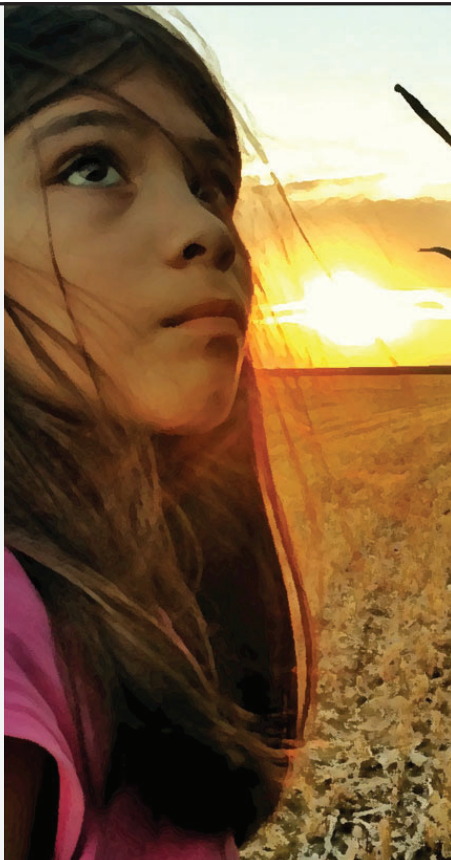
Opportunities for renewable energy in underserved communities



Prepared for UT Renewable Energy Law Institute
January 25, 2021

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About TEPRI



Mission:

Inspire lasting energy solutions

Approach:

Link community voices with science, data,
and innovative partnerships

Deliver best available information to
decision-makers

Outcomes:

Energy poverty reduction
Economic development
Community well-being

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Definitions

Energy Poverty: a household does not have access to essential energy services or it cannot afford the services to maintain a healthy lifestyle

Energy Burden: the percentage of household income that is needed to cover home energy expenses

Energy Affordability Gap: the difference between actual home energy bills and affordable home energy bills for the entire population where affordable energy is $\leq 6\%$ energy burden

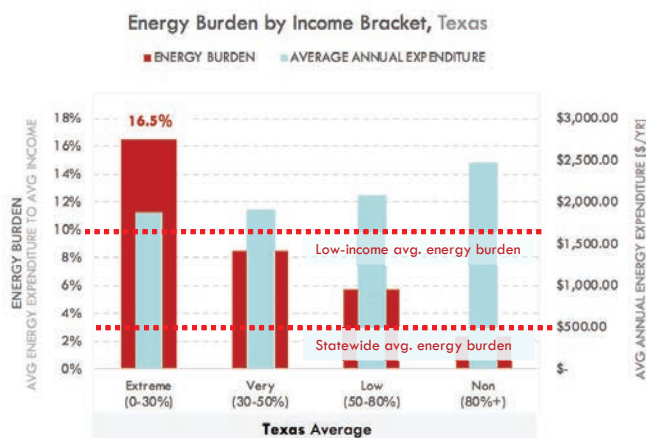
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LEAD DATA ANALYSIS

Energy Burden in Texas

This chart compares the energy burden average for Texas across the income brackets.



41% **Low-income Population**
Of the 9+ million households in Texas, 41% are 0-80% AMI (~3.8 million)

10% **Low-income Energy Burden**
For all low-income households in Texas, the average energy burden is 10%

3% **Statewide Average**
For all households in Texas, the average energy burden is 3%

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Drivers of Household Energy Burden

Physical

- Building envelope
- HVAC
- Appliances
- Extreme weather

Economic

- Chronic hardship
- Sudden hardship
- Inability to invest

Policy

- Insufficient or inaccessible programs
- Certain rate design practices

Behavioral

- Limited program awareness
- Lack of energy conservation education
- Increased usage

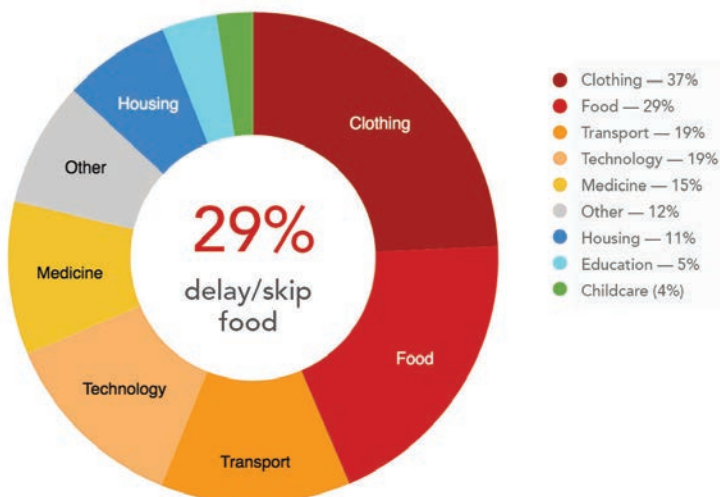
Adapted from: *Lifting the High Energy Burden in America's Largest Cities: How Energy Efficiency Can Improve Low Income and Underserved Communities*, by Ariel Drehotl and Lauren Ross

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LICP SURVEY INSIGHT

Trade-offs



36% of the **18- to 24-year-old** segment identified that they delay or skip **food** because of their utility bills.



Survey Question

Do your utility bills cause you to delay or skip necessary spending or payments in any of the following categories? Please select all of that apply.

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"Energy Insecurity and Other Issues for Underserved Communities"