



HOME ELECTRIFICATION

WHAT CAN WE DO NOW?

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MOTIVATION – WHY ELECTRIFY?

- Health
- Safety
- Financial
- Comfort
- Climate

WHAT CAN WE DO NOW?

- Improve home performance
- Electrify major energy using appliances
- Options for renters and homeowners on a budget
- Think outside the box

HOME PERFORMANCE

PROBLEMS

Moisture in Attic
or Crawl Space

Condensation on
Windows

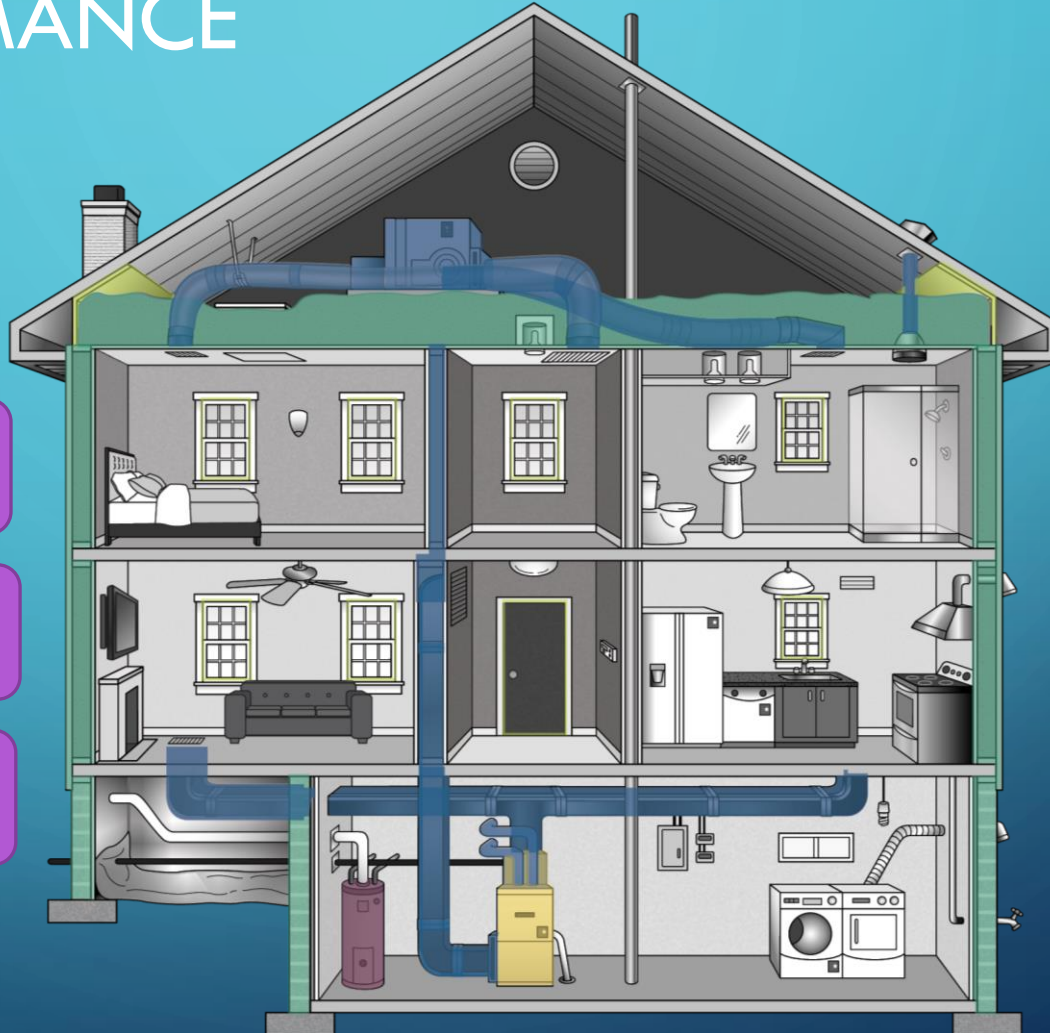
Drafty Rooms

Mold & Mildew

Hot/Cold Rooms

Unsafe Carbon
Monoxide Levels

Excessive Dust



SOLUTIONS

Air sealing

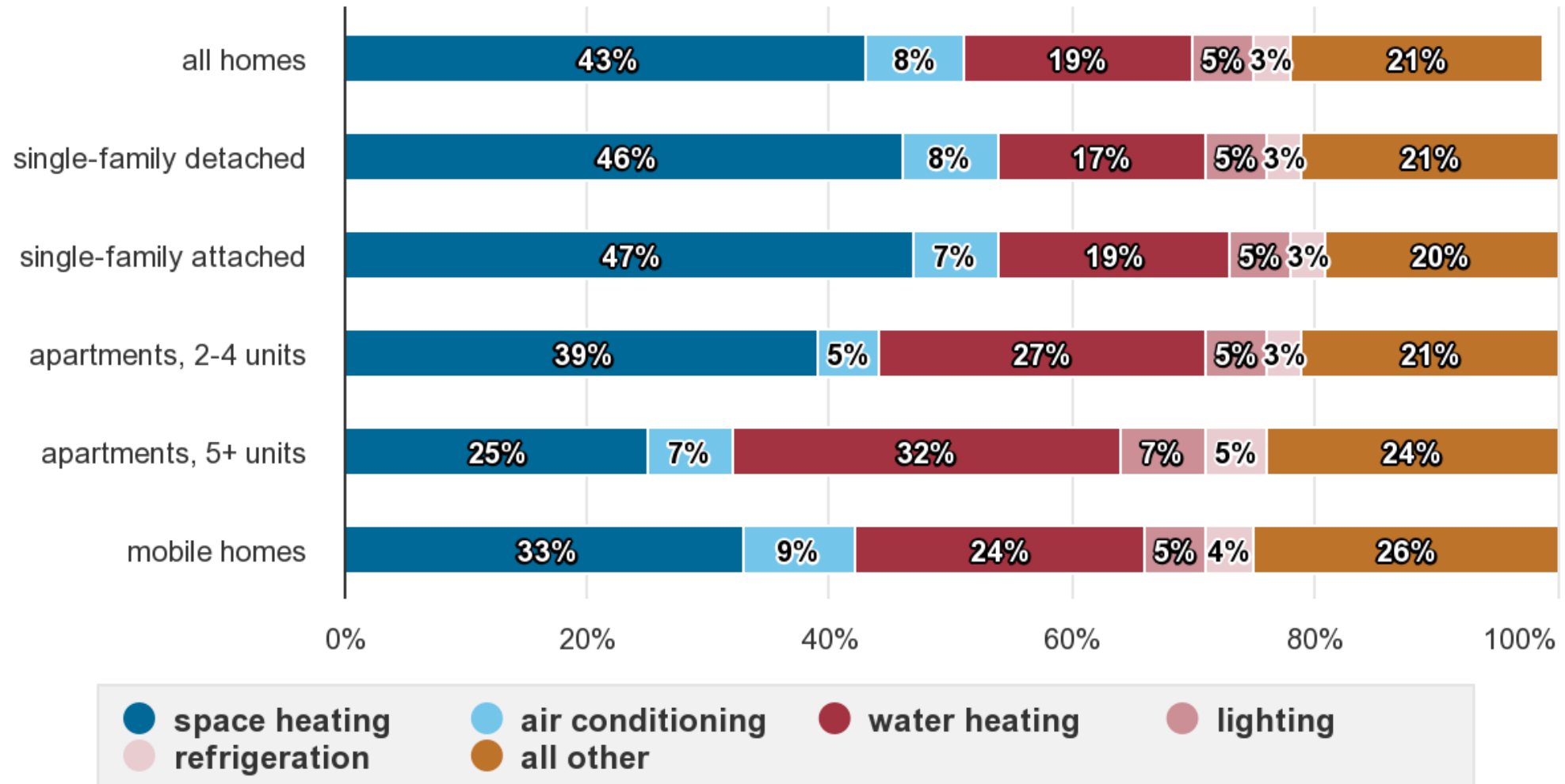
Insulation

Duct sealing

High-efficiency
heating and cooling

High-efficiency
water heater

End-use consumption shares by types of U.S. homes, 2015



Note: Shares are a percentage of annual site energy consumption. Site energy consumption excludes the losses in electricity generation and delivery.

Source: U.S. Energy Information Administration, 2015 Residential Energy Consumption Survey

OPPORTUNITIES FOR ELECTRIFICATION



Photo credit: A. O. Smith



ELECTRIFICATION ON A BUDGET / FOR RENTERS



ELECTRIFY EVERYTHING!



RESOURCES & COOL STUFF

(AN INCOMPLETE LIST)

- [BayREN](#) – Energy Advising
- [Blocpower.io](#) – heat pumps in multifamily buildings
- Redwood Energy – [Pocket Guide to All-Electric Retrofits of Single-Family Homes](#)
- [Rewiring America](#)
- [Watt it Takes Podcast](#) – interviews with founders focused on decarbonization
- [OhmConnect](#) – get paid to save electricity
- CA Air Resources Board – [Zero-Emission Lawn Equipment](#)

REFERENCES

- <https://www.eia.gov/energyexplained/use-of-energy/homes.php>
- <https://redwoodenergy.net/research/>