



### The Community Choice Energy Agency for 13 Santa Clara County communities

Providing clean electricity and innovative programs to fight climate change











Campbell | Cupertino | Gilroy | Los Altos | Los Altos Hills









**Los Gatos** 

Milpitas |

Monte Sereno |

**Morgan Hill** 









Mountain View | Santa Clara County | Saratoga | Sunnyvale

Mission: Reduce dependence on fossil fuels by providing carbon free, affordable, and reliable electricity and innovative programs for the SVCE community.



## (V) What We Do



#### Fight climate change by cutting carbon emissions

Help our communities lead the fight against climate change by supplying clean electricity and building new renewable energy projects



#### Accelerate the adoption of innovative electric technologies

Encourage the advancement of new technologies and initiatives to transform and reduce the use of fossil fuels for energy, transportation and buildings



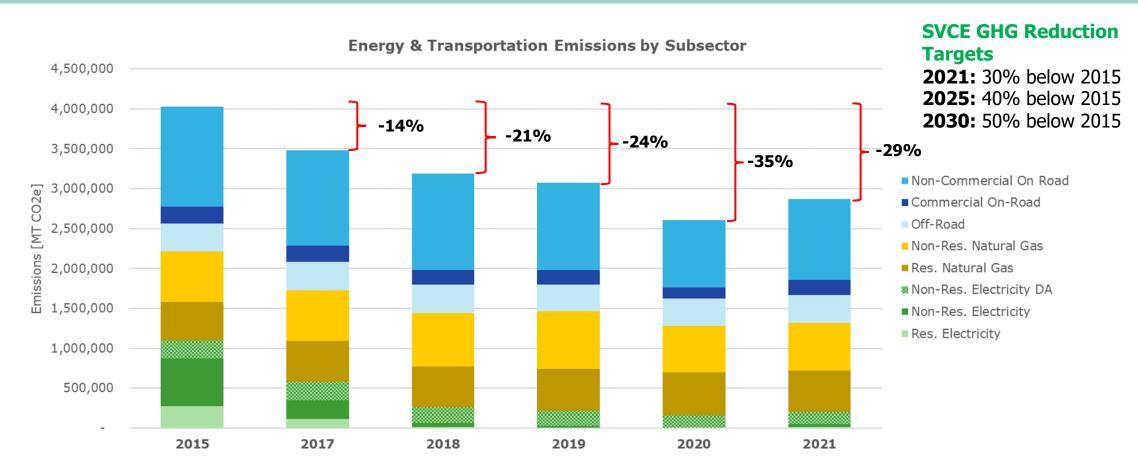
#### Benefit our community by reinvesting locally

SVCE returns value to our customers through competitive rates, clean energy programs, projects, scholarships, grants, and improved access and education.



## 2021 GHG Inventory

#### On-road transportation accounts for most of the increase in 2021 emissions



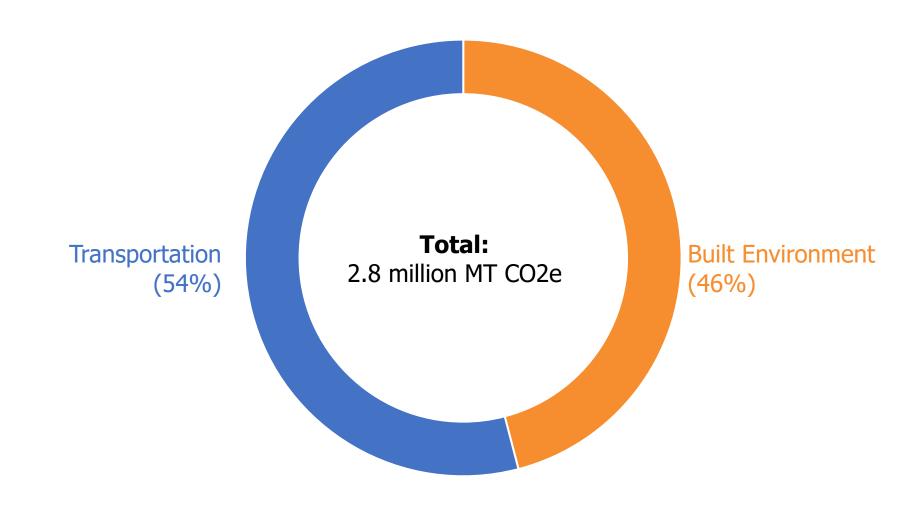
## (b) Four Paths

- A. Reduce Emissions
- B. Carbon Capture
- C. Green Hydrogen
- D. Be an Ostrich

We are Team A



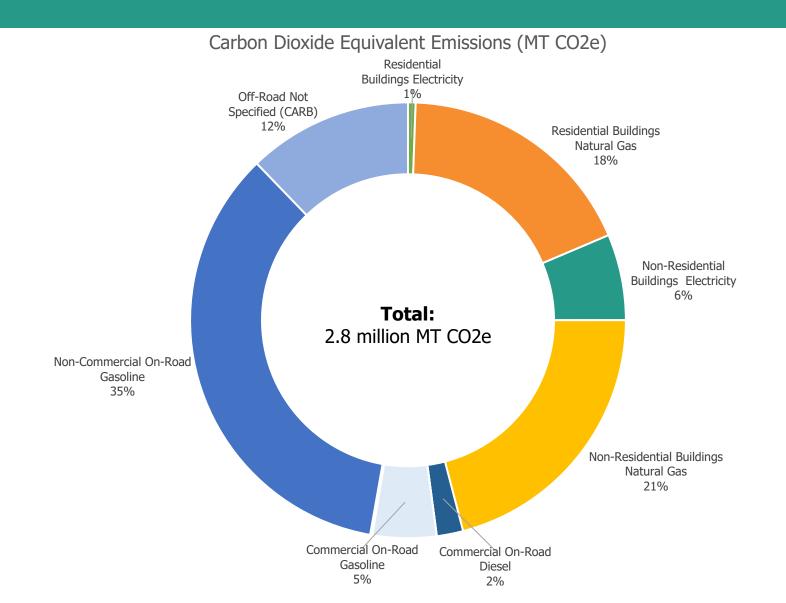
### **SVCE Territory 2021 GHG Emissions by Sector**



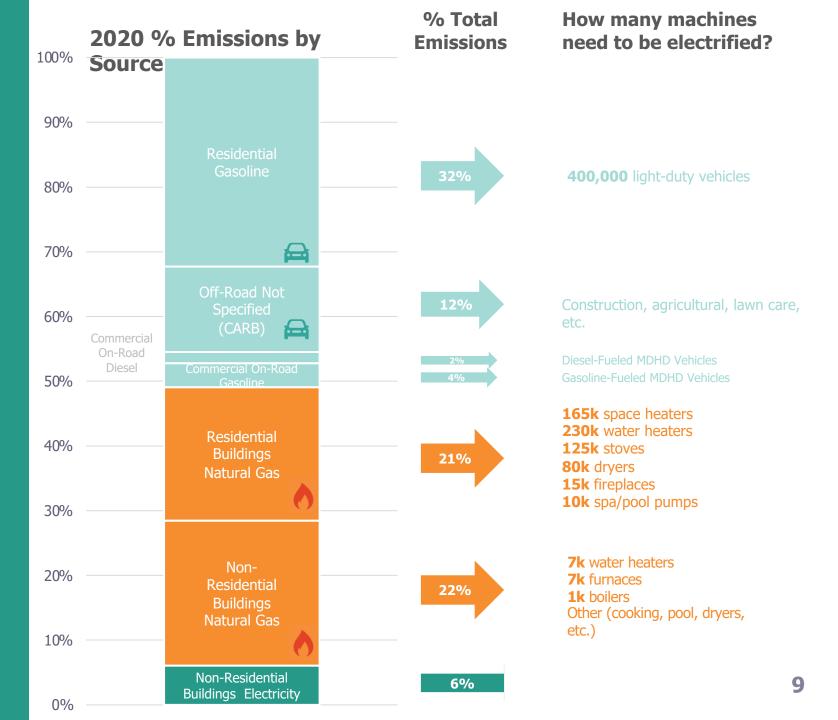


Source: SVCE 2020 GHG Inventory

### **SVCE Territory 2021 GHG Emissions by Subsector**



# Over 1 Million Machines to Replace



## Three-Legged Stool

- A. Regulation (rules that prohibit the sale and installation of polluting devices)
- B. Assistance (financial, concierge, direct install, financing)
- C. Change Infrastructure (rate design, training, permitting modernization, cheerleading)

We are Teams A, B, and C



## **SVCE Building Electrification Programs**

### Whole-Home Incentives

- Self-serve
- Layering
- Customer finds contractor

#### Concierge Service (Hotline)

- Answer questions, provide guidance
- Electrification roadmaps
- Support finding contractors

#### Water Heater Loaner

- For emergency replacements (burnout)
- Temporary gas water heater until heat pump can be installed

## Multifamily Direct Install

- No-cost upgrades
- Includes baseboard electric heating replacement
- SVCEmanaged

**Planning** 

#### Tariffed On-Bill Financing

- Proposed pilot to CPUC
- Co-pay for some
- Single family and small multifamily
- Renters and owners
- SVCE-managed

Planning, will return to BOD

**Active** 

Development

Summer 2023

...... 2025

~\$1.15M

Hard to estimate

Fall 2023

\$11.5M

~1,500 households Early 2024

 $\sim$ \$3M (+ $\sim$ \$3M from state)

~500 households

~450 households

\$2.6M

11

## **FutureFit Homes**

**Up to \$8,000** to make the switch to clean, electric appliances.



- Rebates available for: heat pump water heater, heat pump HVAC, Pre-wiring, main panel upgrade, and gas meter removal
- Available for single family homes swapping out existing equipment.
- Additional rebates of \$5,000 for incomequalified CARE and FERA customers.

SVCleanEnergy.org/Home-Rebates

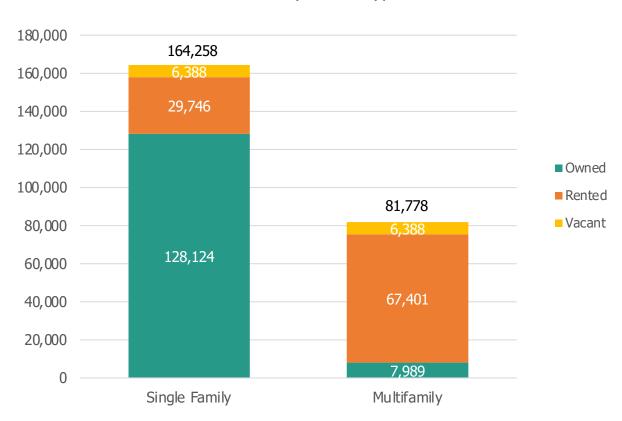
### (\*) Meet People Where They Are

- A. Housing Type
- B. Age
- C. Occupancy
- D. Income



### () Housing Counts by Type





SVCE territory includes ~250,000 housing units, the majority being single-family or multi-family in large (5+ unit) buildings.

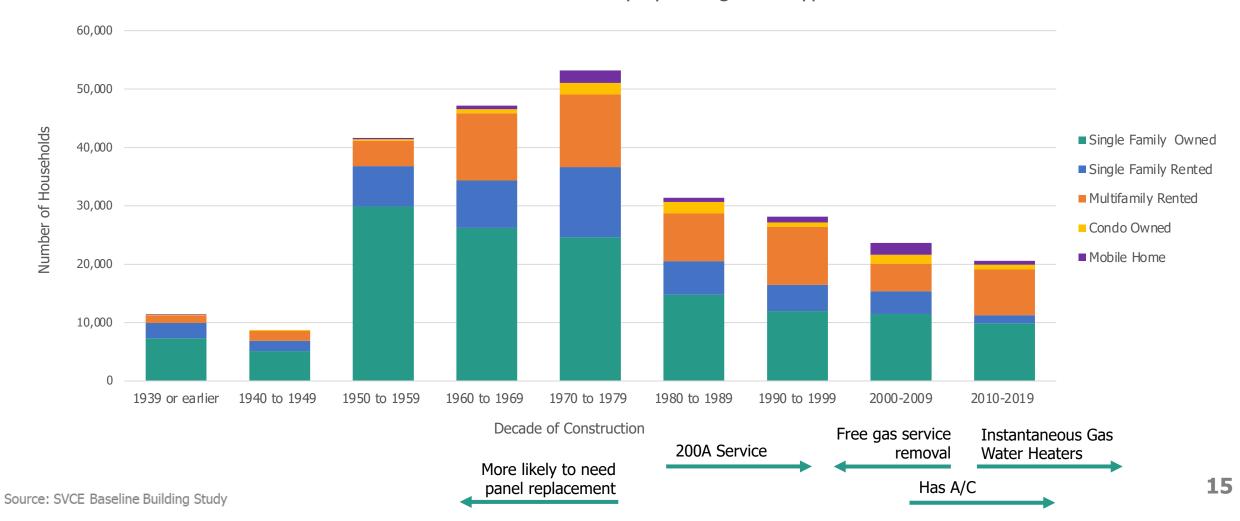
20% of single-family homes are rented

90% of multifamily homes are rented



### () Housing Units by Vintage and Type





## **Programs Equity Framework**

Guiding principles - Identify our values that will structure our approach to bringing greater equity to our programs.

- **1. Meaningful community engagement** We will actively listen to and collaborate with individuals and organizations with strong ties to communities across our customer base.
- **2. Multi-sector approach through strategic partnerships** By coordinating with and leveraging other programs and funding, we will maximize the energy, economic, and health benefits of decarbonization for our customers.
- **3. Data-based equity decisions** By increasing the use of equity data metrics in our program design and evaluation, we will improve our effectiveness, increase transparency, and facilitate accountability.
- **4. Tailored, adaptable programs** We will design programs tailored to the target community's needs and adapt our design as necessary, informed by our program impact evaluations.

## **Programs Equity Framework**

Primary and secondary equity indicators establish designations for underserved communities.

#### **Primary: Socioeconomic Vulnerability Index (SEVI)**

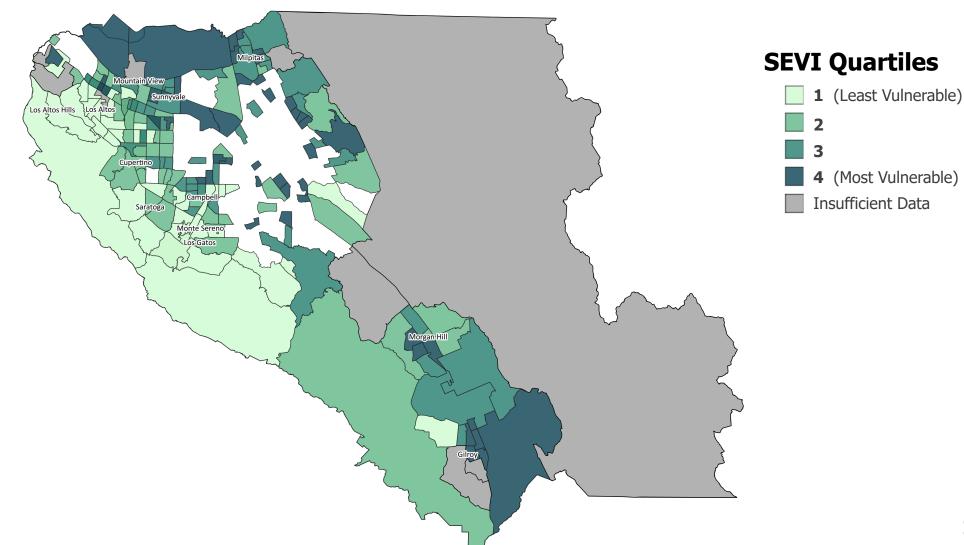
- Census tract metric calculated from scores for poverty, linguistic isolation, education attainment, housing burden, unemployment
- Regionalized, ranked into quartiles (SEVI I-4)
  - SEVI 1 = lowest SEVI scores, most affluent
  - SEVI 4 = highest SEVI scores, most underserved/vulnerable

#### **Additional indicators:**

- CARE/FERA
- Medical baseline



### Socioeconomic Vulnerability Index (SEVI)











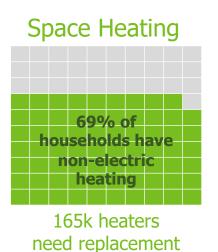


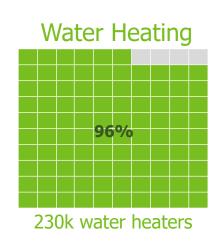


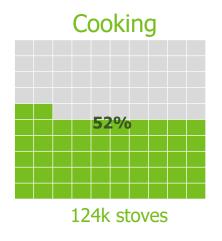
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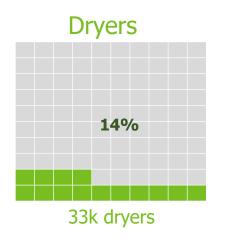


#### How many SVCE homes will need electrification measures?

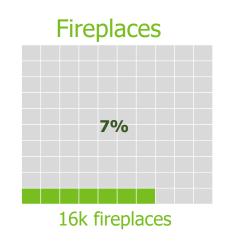






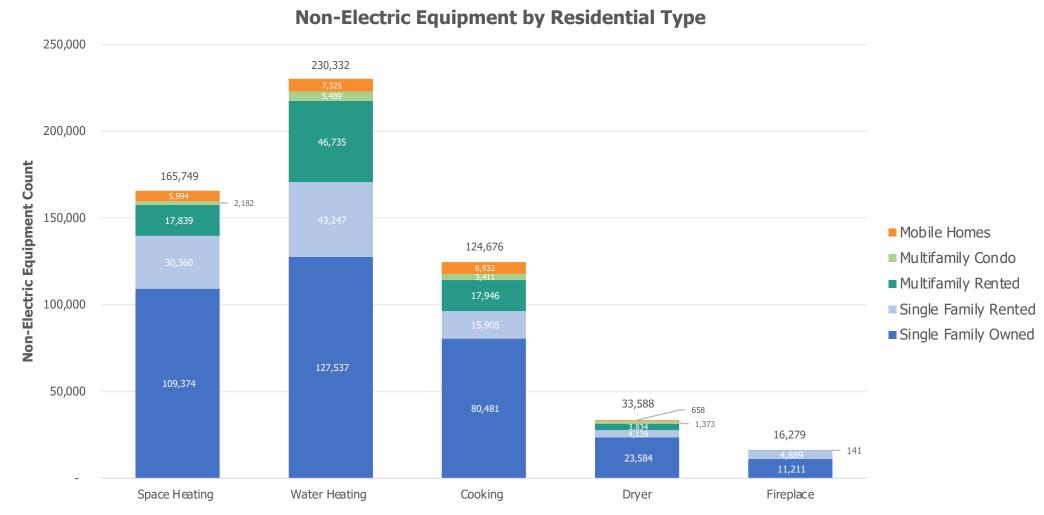






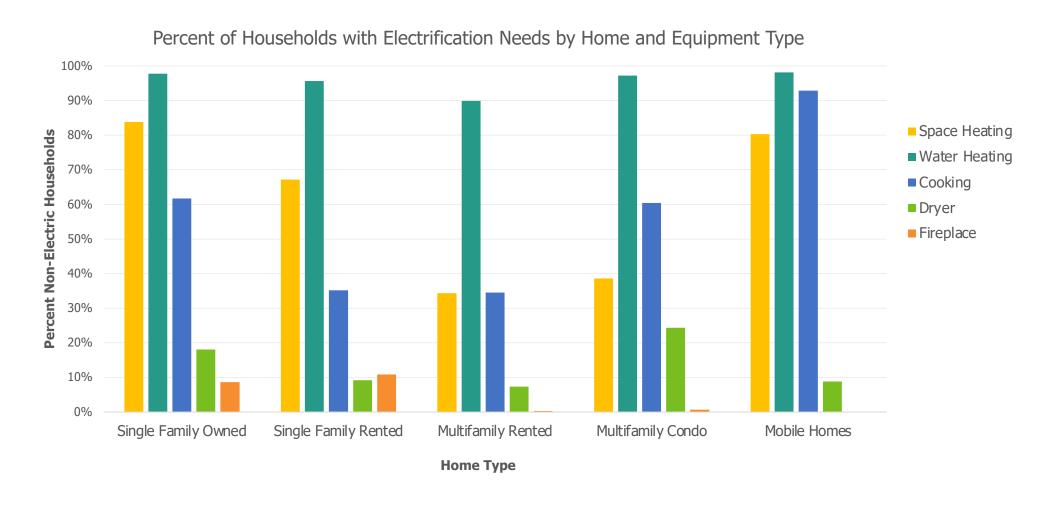


### Scale of Electrification by Housing Type





### **Electrification Needs by Home Type**

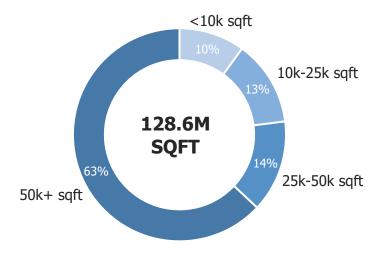




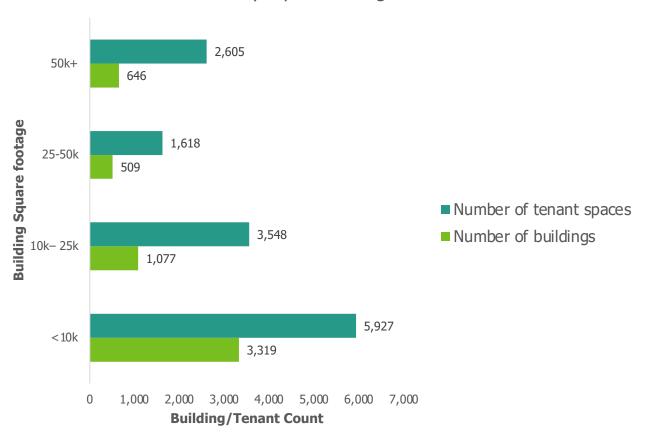
### **Commercial Buildings in SVCE Territory**

Total Buildings: 5,551

Percent of Total Non-Residential Building Square Footage



Number of Non-Residential Buildings and Tenant Spaces by Square Footage

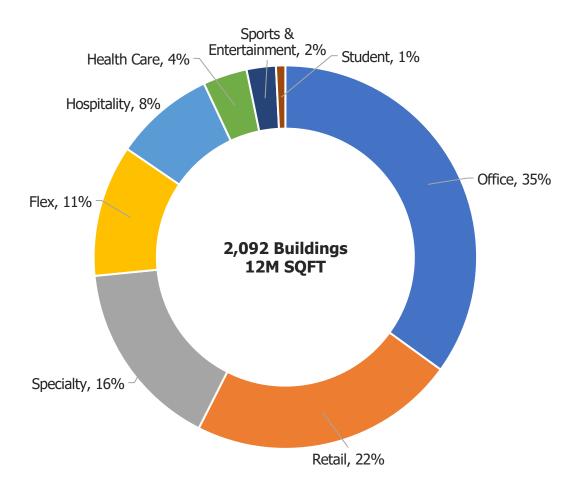


/CF Buildings Baseline Study

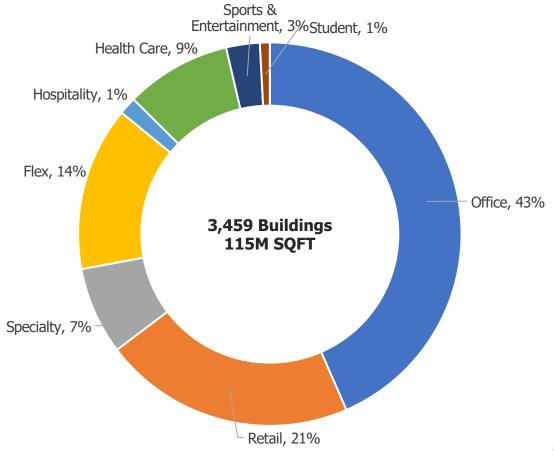


### **Commercial Building Occupancy by Tenant Type**

#### **Single Tenant Buildings**



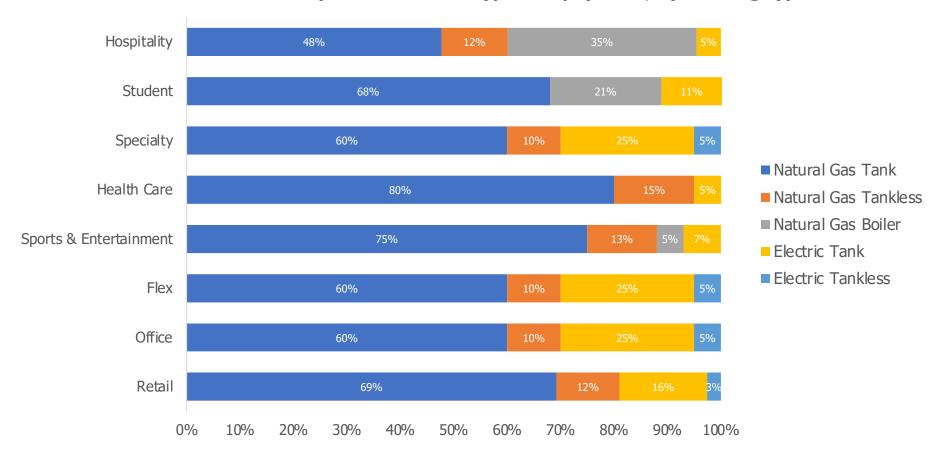
### Multi-Tenant buildings with separate HVAC systems





## **Commercial Water Heating Equipment Types** (<30k SQFT)

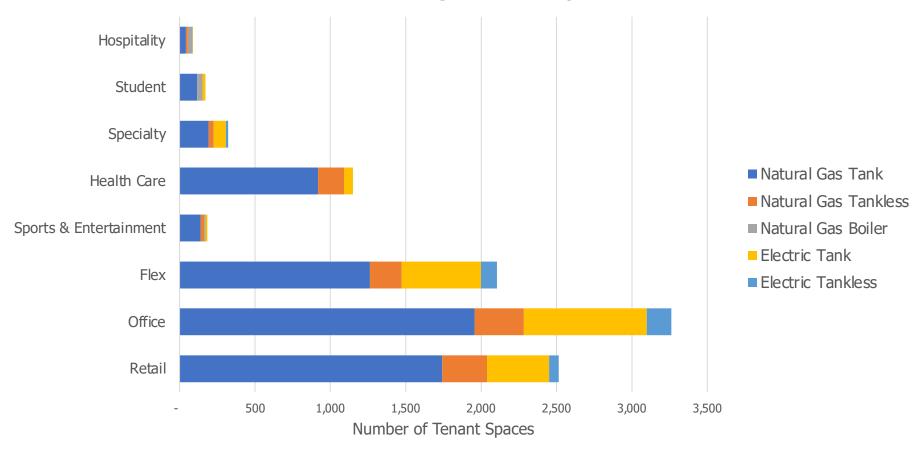
Water Heating Equipment Type Estimates for Buildings <30k sqft
Percent of tenant spaces with each type of equipment, by building type





## **Commercial Water Heating Equipment Types** (<30k SQFT)

#### Total quantity of tenant spaces with each type of equipment by building type for buildings <30,000 sqft





## **Commercial HVAC Equipment Types** (<30k SQFT)

**HVAC Equipment Type Estimates for Buildings <30,000 sqft** 

