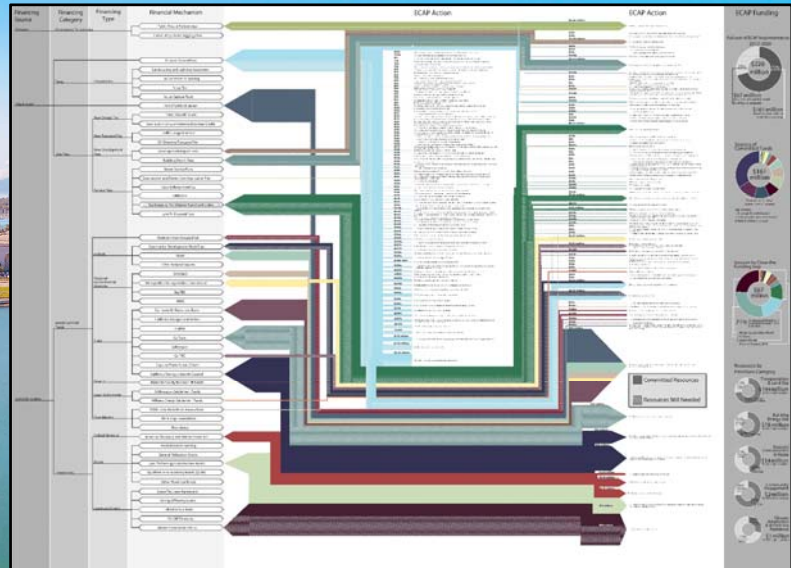


Understanding the True Cost of Actions

Map sources of financing to all ECAP Actions (2017)

- \$228M in total cost
- \$161M spent
- \$194M in transportation and land use
- Dozens of funding sources (General Fund, fees, grants, philanthropy, partnerships)



Understanding How Costs are Met

- Detailed review of climate action funding sources
- Graphic support for decision makers
- Comprehensive guide for American cities

FINANCING SUSTAINABLE CITIES SCAN & TOOLKIT



A Scan of Financing Mechanisms, Key Metrics, & Potential Funders for Climate Action

Executive Summary, pages 1 to 54
[Full Report](#), pages 56 to 251
 October 2016

USDN urban sustainability directors network

HIP: INVESTOR Human Impact + Profit

CITY OF PALO ALTO

Financing Sustainable Cities

Your Goals Financial Sources Key Metrics Potential Funders Five Step Process

1

Prioritizing Actions: Deep Decarbonization

“CURB” report provides Top Five actions to reach targets:

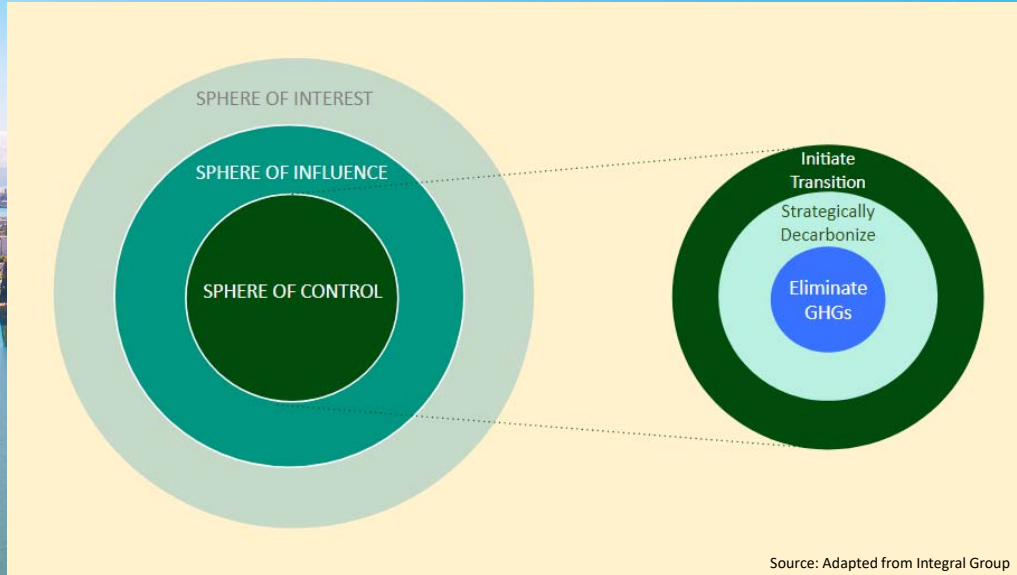
- Decarbonize the Grid
- Eliminate Fossil Fuel from Building Heating
- Improve Building Insulation & Windows
- Move Away from Private Auto Trips
- Electrify Remaining Vehicles



2030 ECAP Values

- **Realistic:** Actionable, measurable, & verifiable.
- **Ambitious:** Responsive to the Climate Emergency.
- **Equitable:** Prioritize actions that benefit frontline communities and minimize burdens.
- **Balanced:** Mitigation + adaptation; immediate + “moonshot” actions; core + consumption emissions.
- **Adaptive:** Flexible to accommodate technological, political, and cultural shifts over 10 years.

Focusing Where it Counts

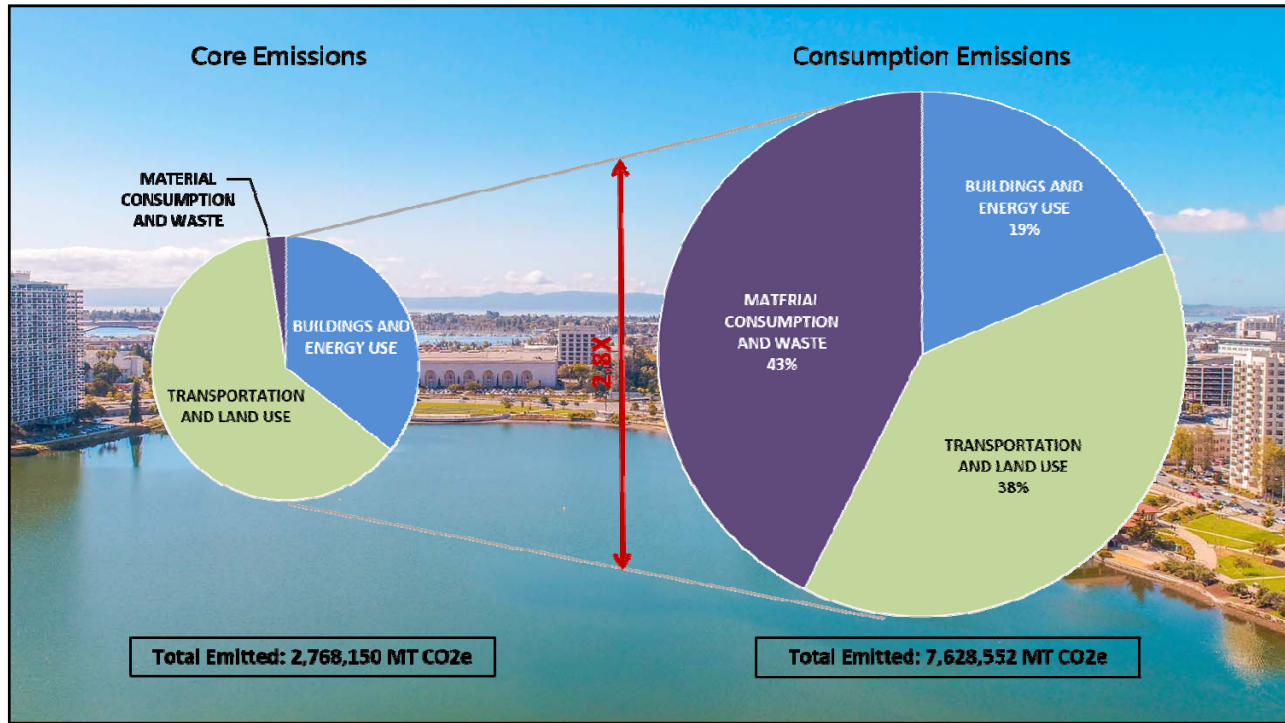


Equity Principles

- Equity in Governance: Democracy From the Ground Up
- Equity Today Builds Equity for Tomorrow
- A Connected & Resilient City
- Civic Engagement for All

Priority Community Needs

- Health / Public Health
- Adaptation / Resilience
- Economic Security
- Land Use



Why Natural Gas?

- Burned at power plants and in homes, and leaking system-wide
- Short-Lived Climate Pollutant 86 times stronger than CO₂ over 20 years
- Elimination is critical for 2050 targets
- Also increases seismic risk

○

CO₂

●

Methane

7 Steps to a Clean Energy Oakland Home

1. Upgrade your electric panel. When you install solar, switch to electric appliances or add an electric vehicle charger, you will probably need to upgrade your electric service panel. Please consult the expert. Talk to your electrician about installing enough capacity in the panel to make the switch from gas to electric or the future. Panel upgrades are eligible for the 30% Federal Tax Credit if done after including solar panels.
2. Ensure Clean Energy. Make sure the electricity you're using at home is clean by going solar, installing other renewable energy sources, or choosing to go "green" power with your electric utility. Join the Bay Area coalition of over 100 organizations to sign and get distributed home solar by November 10, 2017. Renewable energy systems purchased and installed at your home are eligible for the 30% Federal Tax Credit.
3. Get a clean energy vehicle and install a home charger. One of the highest price and most costly of the project. Switch to an electric vehicle or 48V plug-in charger or lease of an electric bike share, instead of driving or walking.
3. Federal Tax Credits are available for certain EV models. See www.SustainableEnergySource.com
4. Identify your leaking. One of the easiest and most cost-effective ways to save your home off natural gas is to switch to electric cooking. Use only government-recognized electric stoves. To get included stoves, visit www.ElectrifyAmerica.com for more information on natural gas. Some areas have temporary connection issues.
5. Choose alternatives to a gas clothes dryer. The best form of clothes drying is a clothesline, and electric dryers are your next best choice. Electric clothes dryers are the most efficient and can be installed just as easily as their gas alternatives. For the most efficient dryer to meet your needs, visit EnergyStar.gov. Also, there are energy-efficient gas clothes dryers.
6. Get a high-efficiency water heater. Numerous technologies are available for electric hot water heating, including on-demand heaters. Heat pump water heaters are three times more efficient than the most efficient natural gas water heaters. "CO₂ get" them. For more, visit www.ElectrifyAmerica.com and visit www.SustainableEnergySource.com.
7. Identify your space heating. You can easily convert your gas furnace to a heat pump heating system. Heat pump technology has been around since the early 1950s, and is widely used in Europe, the Middle East, and Asia. Transitioning to one powered by the US's best heating and cooling. Also, heating or cooling systems made best in a well-insulated, airtight building. Visit www.ElectrifyAmerica.com for more.

Methane Math: How Cities Can Rethink Emissions from Natural Gas

This report was funded by the Urban Sustainability Director Network, a peer-to-peer network of local government professionals from cities across the United States and Canada dedicated to creating a healthier environment, economic prosperity, and increased social equity.

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