

# Climate & Resiliency

## HAZARDS WE FACE AS A COMMUNITY

Hazard <sup>1</sup>	Potential Future	Potential Impacts
Floods	Shifting of snowfall to rain precipitation with earlier snowmelt runoff	Increased flood risk and damage from flood events
Expansive Soils	Soils absorb rain, snowmelt, and moisture that pushes up on surfaces	Increased likelihood for damage to people, property, and infrastructure
Land Subsidence	Gradual caving or sinking of land due to historical coal mining	Increased likelihood for damage to people, property, and infrastructure
Severe Winter Storm	Increased severity and frequency	Hampered community function and access to resources
Drought	More frequent and intense periods of drought	Strained ability to support growth and ability to meet the needs of water users
Extreme Heat	Rising average and annual seasonal temperatures	More days with extreme heat impacting human health and well-being (e.g., heat stress, air quality)

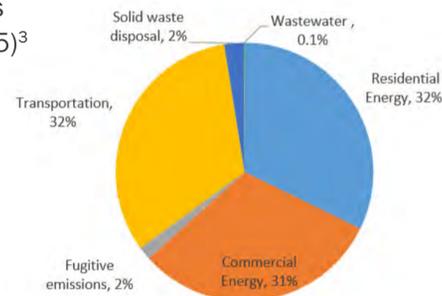
**What Lafayette assets are most vulnerable or at-risk?**

## ADDRESSING OUR CLIMATE IMPACTS

A major factor that has and will continue to shape Lafayette's future is a changing climate. The City is committed to reducing its impact on a changing climate and has adopted community-wide climate goals to achieve 100% renewable energy by 2030 and an 80% reduction in greenhouse gas (GHG) emissions by 2050.

As of 2015, Lafayette's total GHG emissions inventory was 287,604 metric tons of carbon dioxide equivalent (mtCO<sub>2</sub>e).

Total Emissions by Sector (2015)<sup>3</sup>



Recent efforts have outlined a roadmap<sup>2</sup> to achieving these goals. Strategies from that roadmap that closely relate to the Comprehensive Plan include:

- Identifying and developing local solar projects.
- Developing a code-path to zero energy
- Establishing building electrification programs.
- Prioritizing transit-oriented development.
- Contributing to electric vehicle adoption and electric vehicle charger deployment.
- Increasing state and regional cooperation.

## BUILDING COMMUNITY RESILIENCE

It is important for the Lafayette Comprehensive Plan to address how the community will prepare and plan for, absorb, respond to, recover from, and more successfully adapt to a changing climate and adverse hazard events.

Building a more resilient Lafayette is a continuous process of compiling many efforts, steps, and projects. Some preliminary considerations to reduce emissions and enhance resiliency through the Comprehensive Plan include:

- Limiting development in the 100-year floodplain (especially critical facilities).
- Implementing energy and water efficiency measures reduce demand on resources.
- Providing a connected system of open lands, natural areas, wildlife corridors, habitat areas, tree canopy, and greenways to allow natural systems the opportunity to function naturally.
- Identifying locations across the community where people of various abilities can seek refuge or assistance during hazard events.
- Increasing low and no-emission transportation options like walking, bicycling, transit, and electric and alternative fuel vehicles.
- Locating and distributing critical facilities across the community.

**What ideas do you have to enhance resiliency in Lafayette?**

## FAST FACTS:



Residential and commercial energy use comprises 63% of the city's GHG emissions



Our community has 1,000 + acres of open space



\$1 spent today on hazard mitigation today saves \$6 down the road<sup>4</sup>

**31**

Critical facilities offering key recovery services to the community<sup>1</sup>

Sources: (1) Boulder County Hazard Mitigation Plan, (2) Roadmap to Community Energy Sustainability, (3) 2015 GHG Emissions Inventory Comparison Report, (4) Multihazard Mitigation Panel 2017 Interim Report