

Equitable climate action for a healthy and resilient Richmond

climate Action

What is Climate Change?



Climate change is a shift in the long-term, average weather pattern



Human-caused emissions—especially from burning fossil fuels—are driving climate change

What Causes Climate Change?



Richmond GHG Emissions BY SOURCE



- Methane and other off-gassing from the treatment of our drinking water and wastewater
- Methane and other off-gassing from our landfilled waste
- Pollutants from fuel oil and kerosene for heat and industrial processes
- Pollutants from the transport and off-gassing of natural gas used to heat our spaces and hot water
- Emissions from the combustion of gasoline and diesel for fueling vehicles
- Emissions generated from the production of electricity that we use to power our lights, run industrial processes, generate heating and cooling, power our technology, etc...

Richmond GHG Emissions BY SECTOR

- Treatment of sewage and drinking water
- Solid waste transferred to landfill
- Transportation emits pollutants to run our buses, cars, trains, and trucks for transport)
- Power from all sources to provide lighting, heating and cooling, technology, etc in all of our residential, commercial, government, and industrial buildings



Building Energy **66%**

2018 Community GHG Emissions Source: Richmond Greenhouse Gas Inventory

Richmond GHG Emissions FROM BUILDINGS

- Residential: Emissions generated from all energy sources within our homes and on residential properties (i.e. heating/cooling, lighting, cooking, and general plug load)
- Industrial: Emissions from energy used in our manufacturing and industrial facilities
- Commercial/Government: All of the energy used by commercial and government buildings and public operations



Climate and Energy Modeling Process

What action is needed to achieve Richmond's climate and energy goals?



GHG Mitigation Modeling

GHG Reductions for Goal Scenario (80% by 2050)



What Role do We Play in Climate Change?



