

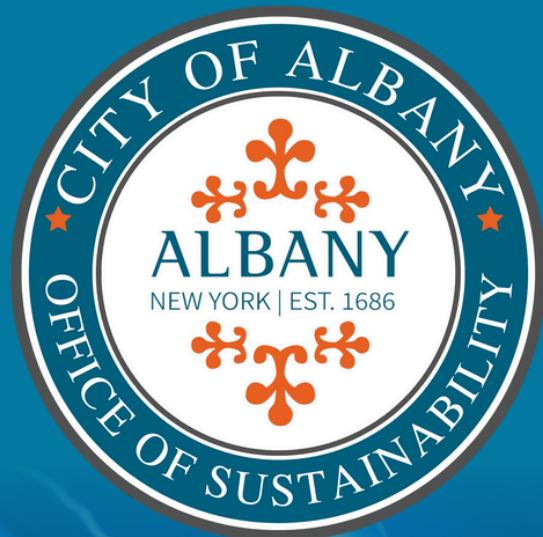
# INCENTIVES

## NYSERDA's Drive Clean Rebate for Electric Cars Program

- Up to \$2,000 rebate for EV purchase or lease.
- Can be combined with an Inflation Reduction Act tax credit of up to \$7,500

## NYSERDA's Empower+ Program

- Low-income, single-family households are eligible for no-cost audit and energy efficiency improvements capped at \$10,000 per project.
- Moderate-income single-family households are eligible for a discount of up to 50% of the cost of eligible work, capped at \$5,000 per project.



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Climate Solutions  
ELECTRIFY  
EVERYTHING



# WHY ELECTRIFY EVERYTHING?

Electrification involves shifting from using fossil fuels to using clean electricity in everything from transportation to cooking to heating our homes.

At the same time, we also need to replace fossil fuel power plants with renewables so that we are using only clean, emissions-free electricity. There are several reasons why electrification is being promoted as a sustainability priority :



## CLIMATE CHANGE

Electrification reduces greenhouse gas emissions and combats climate change. By switching from fossil fuels to electricity, we can reduce the carbon footprint of activities such as transportation, heating, and industrial processes



## ENERGY EFFICIENCY

Electric systems are more energy-efficient than their fossil fuel counterparts. For example, electric vehicles (EVs) are more efficient than internal combustion engine vehicles, using less energy to travel the same distance.



## BETTER AIR QUALITY

Electrification reduces local air pollution, especially in urban areas. Electric vehicles and electric heating systems produce no emissions, which improves both air quality and public health.



## ENERGY SECURITY

Electricity can come from a range of local energy sources, including renewables like wind, solar, and hydropower. Societies can become independent of a single source of energy, like imported fossil fuels, thereby enhancing energy independence.

# KEY ISSUES IN ENVIRONMENTAL SUSTAINABILITY

## ELECTRIC VEHICLES

40% of Albany's greenhouse gas emissions come from cars, trucks, and other fossil fuel vehicles. The faster we all move to electric vehicles, the faster we can reduce our community emissions.

Electric vehicles are already being used by several City of Albany Departments and plans are being made now to electrify the City fleet.

## SIX BENEFITS OF EVS

1. Zero tailpipe emissions, helping to reduce air pollution and combat climate change.
2. More energy efficient than traditional vehicles.
3. Electricity is generally cheaper than gasoline or diesel fuel.
4. Fewer moving parts, resulting in reduced maintenance and repair costs.
5. Electric motors deliver instant torque, resulting in quick acceleration and a smooth driving experience.
6. Better air quality leads to multiple health benefits.

## ELECTRIC COOKING

Electric ovens with induction cooktops can heat pots just as fast as a hot flame, but reduce indoor air pollution and carbon dioxide emissions.

## HEATING & COOLING

Half of Albany's emissions - 54% - come from powering, heating, and cooling our buildings.

Heat pumps transfer heat from one source to another. Highly efficient, they can be used for heating, cooling, and even heating water.

There are two types of heat pumps: air-source, which extracts heat from the ambient air, and ground source, which uses the stable temperature of the ground as a heat source or sink.



## DISTRICT HEATING

District geothermal (also known as district heating) is a system that utilizes geothermal energy to provide heating and sometimes cooling to multiple buildings or properties within a specific district or community. It is an emissions-free and sustainable way of meeting the heating and cooling needs of a group of buildings or an entire neighborhood.

Two studies are currently being done to look at the feasibility of installing district geothermal in Sheridan Hollow and the South End of Albany.