Practical Guide to the Inflation Reduction Act



Cook Stoves

Research over many years has shown that gas-burning stoves can release harmful chemicals into the air that can trigger asthma, worsen existing conditions, and increase the risk of cancer. A recent study linked gas stoves to more than 12% of childhood asthma cases in the US. Gas stoves can release benzene, a known human carcinogen. Unproperly vented burning of natural gas can result in Carbon monoxide poisoning which impacts the brain and heart. Gas stoves release nitrogen dioxide and methane, which contribute to air pollution and climate change.

The Rewiring America website has a wealth of information on how you can cook faster, better, and safer without gas.

Induction and conventional electric stoves are the best way to cook. They don't burn fossil fuels or release toxic pollutants into your home and the environment. Let's start with conventional: free standing conventional electric ranges or stoves are the unsung heroes of many kitchens. They are affordable, safe and efficient, with versatile cooktops and consistent ovens. Another option to consider is a convection oven that uses a fan to circulate hot air around the food, cooking it more evenly and efficiently than a conventional oven. These conventional radiant ranges operate at 75 to 80% efficiency as compared to 32% for a gas range and are a lot more sophisticated than they used to be.

If you can afford a bit more for a top of the line cooking experience and even more efficiency (85%), check out induction options. These cooktops are faster, use less energy, keep your kitchen cooler and do not emit harmful pollution into your home or the atmosphere. Induction cooking appliances blend the instant response of gas with the easier cleanup and environmental benefits of electric appliances. They also rate well in the safety category since there is no open flame and the burners won't heat without a pan in place. Keep in mind that induction cooking appliances require cookware that is magnetic so you may need to purchase a few new pans as well. Information on Induction ranges and cooktops: **New York Times** and **Consumer Reports**.

Series Topics

Series Introduction

Inflation Reduction Act (IRA) and Bipartisan Infrastructure Law (BIL) Summary

Rewire America IRA Calculator

Energy Audits and Energy Efficiency

Electric Vehicles

Solar Panels

Heating, Ventilation and Air Conditioning Heat Pumps

Heat Pump Water Heaters

Cook Stoves

Heat Pump Clothes Dryers

Installation: If you already have an electric stove, you should be able to directly plug in an induction upgrade. If you will be **replacing a gas stove**, you will likely need a new 240 Volt circuit with a 20-30 Amp circuit breaker.

Pro Tips: Research your options now before your stove fails. A portable one or two burners conventional electric or induction hotplate might be a good way to ease the transition from gas to electric. Some lending libraries have ones you can check out.

Federal Tax Credits and State Rebates

Disclaimer: As you can imagine, the recently signed **federal energy policy** executive order has the potential to negatively impact the IRA **tax credits and rebate programs**. For now, tax credits seem to be unchanged but information on state level rebates that we linked to in previous IRA fact sheets is no longer available. Ohio is currently awaiting approval from the U.S. Department of Energy (DOE) on our IRA rebate program application, which was submitted Nov. 12, 2024 with an expected 60-day review process. However, as of March 1, 2025, it doesn't appear that a response has been received.

Once Ohio's rebates are approved, the **Department of Development** states that ENERGY STAR certified induction cooktops, electric stove, cooktop, range, or oven may be eligible for **either:**

- A **Home Electrification and Appliance Rebate (HOMES)** of up to $840, or
- A **Home Efficiency Rebate (HEEHRA),** which provides up to $8,000 off projects that significantly reduce household energy use.

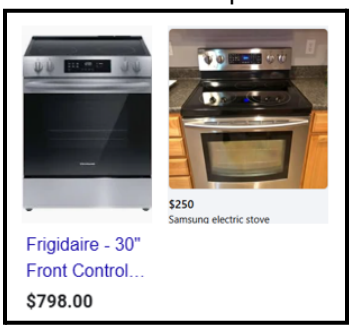
The HOMES rebate program is intended for all Ohioans, regardless of income. The HEEHRA rebate program is an income-qualified program and will be accessible to individuals earning less than 150% of the **Area Median Income** (AMI).

Example Options and Prices:

Example: New induction range and cooktop.



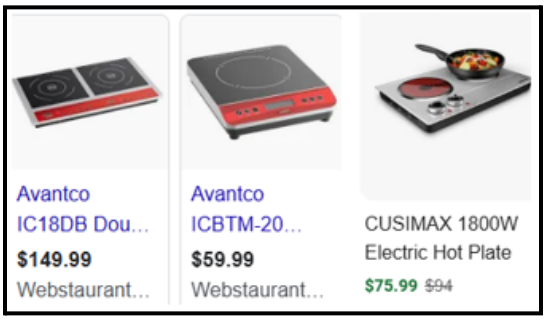
Example: New and used conventional range and cooktop.



Example: Built in induction cooktops



Example: Portable hotplates both induction and conventional



Brought to you by TH!RD ACT OHIO's Democratizing Energy Committee