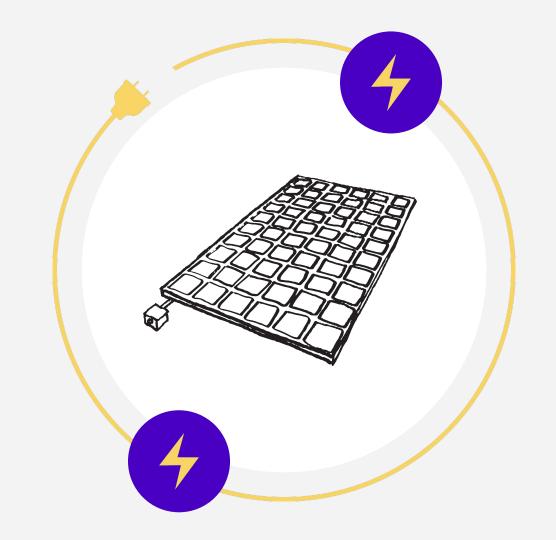
REWIRING AMERICA

What the IRA Means for You





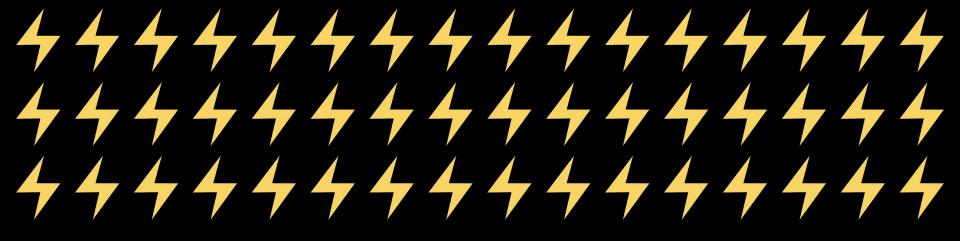
We already know how to produce clean electricity





47%

of our energy-related emissions come from **directly burning fossil fuels** in our buildings & vehicles



Electrify everything!

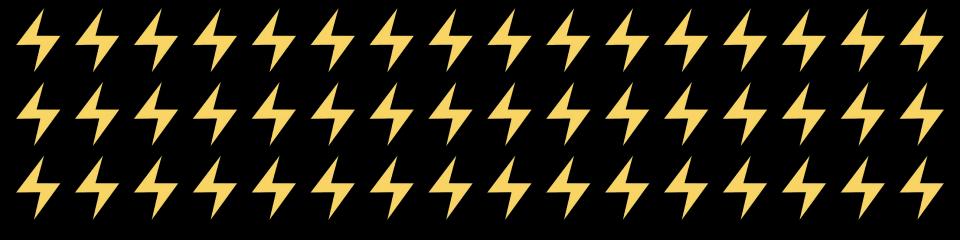
Clean electricity + electrification = decarbonization.





80%

of our energy-related emissions could be eliminated with clean electricity + **electrification of buildings & vehicles**



The Inflation Reduction Act will jumpstart the electrification movement.



Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B
Energy Efficiency Rebates	HOMES	Rebates	Whole-home improvements (including heat pumps)		\$4,000 (LMI) \$8,000 (non- LMI)	\$4.5B
Electrification/ efficiency tax credits	25C	Tax Credits	Heat pumps, heat pump water heaters, weatherization, panels		30%, up to \$3200 per year	Unlimited
Solar/storage tax credits	25D	Tax Credits	Solar, storage, geothermal		30%	Unlimited
EV tax credits	25E/30D	Tax Credits	New EVs (25E)/Used EVs (30C)	Non-high income households	\$7,500 (new) \$4,000 (used)	Unlimited

HEEHRA: Unlocking electrification for the households that need it most

High-Efficiency Electric Home Rebates (HEEHRA)

Point-of-sale rebates up to \$14,000 for LMI households that install new, efficient electric appliances

- \$8,000 for a heat pump
- \$4,000 for electrical panel upgrades
- \$2,500 for rewiring
- \$1,750 for a heat pump water heater
- \$1,600 for basic weatherization
- \$840 for a heat pump clothes dryer
- \$840 for an electric or induction stove

Costs cover purchase & installation: 100% covered for low income; 50% for moderate income

Includes \$500 contractor incentive

Administered by state energy offices & tribes

\$4.5B budget from 2023-2031

Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B

HOMES:

Incentivizing whole-home energy efficiency upgrades

Home Energy Performance-Based, Whole-House Rebates (HOMES, formerly known as HOPE for HOMES)

Rebates for energy-saving retrofits, including heat pumps

- Up to \$8,000 per LMI household, 80% of project costs covered
- Up to \$4,000 per non-LMI households, 50% of project costs covered

Must achieve >35% energy savings for maximum rebate (lower rebates available for less energy savings)

Includes both single-family & multifamily (per unit)

Rebates cannot be stacked together for the same piece of equipment (HEEHRA & HOMES), but rebates can be stacked with tax credits

\$4.3B in rebates through 2031

Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B
Energy Efficiency Rebates	HOMES	Rebates	Whole-home improvements (including heat pumps)		\$4,000 (LMI) \$8,000 (non- LMI)	\$4.5B

25C: Incentivizing non-LMI consumers to #electrifyeverything

25C: Residential Energy Efficiency Tax Credit

Provides 30% tax credit for residential efficiency and electrification upgrades (install included)

Annual credit cap per item for upgrades:

- \$2,000 for heat pumps and heat pump water heaters
- \$1,200 for weatherization
- \$600 for electrical panel/circuits (if installed in conjunction)
- \$150 for energy audit
- \$600 for everything else

Total annual credit capped at \$1,200 per household per year (except heat pumps/heat pump water heaters)

Old version of retroactive to 2022; new version starts 2023

Estimated value: \$12.5B through 2031

Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B
Energy Efficiency Rebates	HOMES	Rebates	Whole-home improvements (including heat pumps)		\$4,000 (LMI) \$8,000 (non- LMI)	\$4.5B
Electrification/ efficiency tax credits	25C	Tax Credits	Heat pumps, heat pump water heaters, weatherization, panels		30%, up to \$3200 per year	Unlimited

25D: Keeping rooftop solar shining (and affordable)

25D: Residential Clean Energy Credit

Provides 30% tax credit for:

- Geothermal heat pumps
- Solar panels (or community solar)
- Battery storage
- Solar water heating, fuel cells, and property wind energy installations

Non-refundable, but can carry over from year to year

New version retroactive to all of 2022

Estimated value: \$22B through 2031

Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B
Energy Efficiency Rebates	HOMES	Rebates	Whole-home improvements (including heat pumps)		\$4,000 (LMI) \$8,000 (non- LMI)	\$4.5B
Electrification/ efficiency tax credits	25C	Tax Credits	Heat pumps, heat pump water heaters, weatherization, panels		30%, up to \$3200 per year	Unlimited
Solar/storage tax credits	25D	Tax Credits	Solar, storage, geothermal		30%	Unlimited

30D and 25E:

Jump-starting new (and used!) EV's market takeover

30D: Clean Vehicle Credit

\$7,500 tax credit for new EVs tied to critical mineral, battery component, and final assembly requirements

Credits are income-limited:

- \$150K single
- \$225K head of household
- \$300K joint filers

Credits will be transferable to dealers in exchange for a point-of-sale rebate

Revokes unit-per-manufacturer cap on tax credits

Estimated value: \$7.5B through 2031; starts 2023

30D and 25E:

Jump-starting new (and used!) EV's market takeover

25E: Credit for Previously-Owned Clean Vehicles

\$4,000 tax credit for used EVs

Credits are income limited and MSRP limited

- \$75K single
- \$112.5K head of household
- \$150K joint filers

Credits will be transferable to dealers in exchange for a point-of-sale rebate

Estimated value: \$1.4B through 2031; starts 2023

Name	Technical Name	Type of Program	Technologies	Target Population	Maximum \$ Amount per Household	Total Budget
Electrification Rebates	HEEHRA	Rebates	Heat pumps, heat pump water heaters, electric stoves, heat pump clothes dryers, panels, wiring, weatherization	Low- and moderate- income households	\$14,000	\$4.5B
Energy Efficiency Rebates	HOMES	Rebates	Whole-home improvements (including heat pumps)		\$4,000 (LMI) \$8,000 (non- LMI)	\$4.5B
Electrification/ efficiency tax credits	25C	Tax Credits	Heat pumps, heat pump water heaters, weatherization, panels		30%, up to \$3200 per year	Unlimited
Solar/storage tax credits	25D	Tax Credits	Solar, storage, geothermal		30%	Unlimited
EV tax credits	25E/30D	Tax Credits	New EVs (25E)/Used EVs (30C)	Non-high income households	\$7,500 (new) \$4,000 (used)	Unlimited

HOMES WORKFORCE

\$200M for states to develop a workforce training program

Training & education to contractors involved in energy efficiency or electrification upgrades

The Inflation Reduction Act: Workforce Incentives

HEEHRA INSTALLER REBATES

\$500 installer incentive rebate for a qualified electrification project

All other rebates in HEEHRA must be passed through to household

The Inflation Reduction Act: Builder Incentives

45L TAX CREDITS

Tax credit for new energy-efficient homes available to developers upon sale Base amounts:

- \$500/unit for multifamily meeting Energy Star New Construction
- \$1,000/unit for multifamily meeting Zero Energy Ready Homes (ZERH)
- \$2,500 for single-family meeting Energy Star New Construction
- \$5,000 for single-family meeting ZERH

5x the amount for multifamily units if prevailing wage requirements met

179D TAX CREDITS

Up to \$5.00/sq ft for energy efficiency in commercial buildings

Tax exempt entity can allocate deduction to property designer

DEFENSE PRODUCTION ACT

IRA increases DPA budget by \$500 million to bolster the domestic manufacturing of heat pumps

The Inflation Reduction Act: Manufacturing Incentives

MANUFACTURING TAX CREDITS: 48C

Investment tax credit for facilities manufacturing clean energy technology Baseline 6%, increases to 30% if project meets labor requirements

LOAN PROGRAMS OFFICE

\$3.6 billion to guarantee loans up to \$40 billion in principal amounts

REWIRING AMERICA

Electric inspiration

Case studies to help you build your own electric plan

The Colemans care about cost and climate

With a modest income, this family in Cleveland can realize their electric dreams

Household Profile: Size: 4 people; Income: \$128,000; AMI: Under 80 percent; Location: Cleveland, OH



The Colemans go electric

	Replacing	Buying	Est. cost, installed	Up-front discount	30% Tax credit	Final cost
2022	Dirty electricity	Clean electricity	\$0			\$0
2023	Propane Range	Electric range	\$749	-\$749 (HEEHRA)		\$0
2023	_	Electric wiring	\$1,500	-\$1,500 (HEEHRA)		\$0
2024	Tank propane water heater	Heat pump water heater	\$3,000	-\$1,750 (HEEHRA)	-\$375 (25C)	\$875
	_	Weatherization	\$1,600	-\$1,600 (HEEHRA)		\$0
	Propane Furnace	Ducted mini-	\$7,500	-\$7,500		\$0
2025	Window AC unit	split heat pump	\$1,500	(HEEHRA)		\$ 0
	Propane clothes dryer	Heat pump clothes dryer	\$798	-\$798 (HEEHRA)		\$0
2027	Cap gas line!					-\$160/ year
2027	Gasoline car	Used EV	\$14,000	-\$4,000 (25E)		\$10,000
TOTAL	AFTER TEN YEARS		\$29,147	-\$17,897	-\$375	\$10,075

Upgrades considered but not currently planned:

	100A electric panel	200A electrical panel	\$2,000	-\$2000 (HEEHRA)		\$0
	_	EV charger	\$1,000		-\$300 (30C)	\$700
	_	Rooftop solar	\$19,000		-\$5,700 (25D)	\$13,300
	_	Battery storage	\$16,000		-\$4,800 (25D)	\$11,200

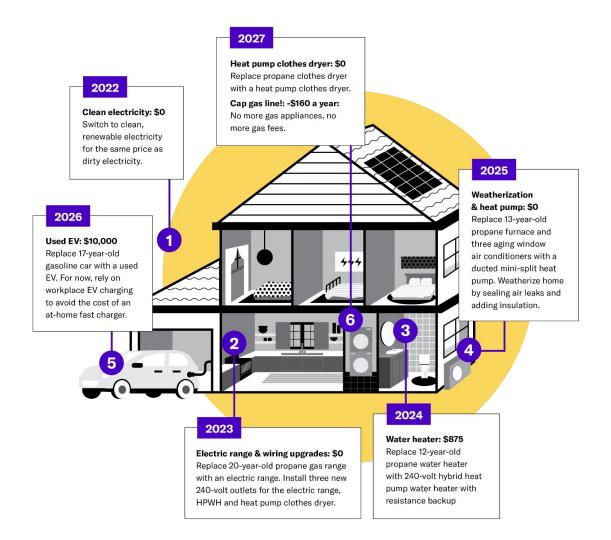
Household Profile:

Size: 4 people

Income: \$128,000

AMI: Under 80%

Location: Cleveland, OH





The Garcias want a beautiful future for their child

They can do their part for the climate crisis, and save money

Household Profile: Size: 3 people; Income: \$130,000;

AMI: Under 150%; Location: Sacramento, CA



The Garcias go electric

	Replacing	Buying	Est. cost, installed	Up-front discount	30% Tax credit ¹	Final cost
	Gasoline car	Used EV	\$17,000		-\$4,000 (25E) ²	\$13,000
2023	_	EV charger	\$1,200		-\$360 (30C)	\$840
	_	Electric wiring	\$2,500	-\$1,250 (HEEHRA)		\$1,250
	60A electric panel	200A electric panel	\$2,000	-\$1,000 (HEEHRA)	-\$300 (25C)	\$700
2024	Gas range	Induction range	\$1,300	-\$650 (HEEHRA)		\$650
	_	Weatherization	\$1,600	-\$800 (HEEHRA)		\$800
2026	Gas furnace	- Central heat pump	\$12,000	-\$6,000	-\$1,800	\$4,200
	Central AC	Central near pump	\$12,000	(HEEHRA)	(25C)	\$4,200
2027	Tankless gas water heater	Heat pump water heater	\$3,000	-\$1,500 (HEEHRA)	-\$450 (25C)	\$1,050
2027	Cap gas line!					-\$160/ year
2028	_	Rooftop solar	\$19,000		-\$5,700 (25D)	\$13,300
TOTAL	AFTER TEN YEARS		\$59,600	-\$11,200	-\$12,610	\$34,990

Upgrades considered but not currently planned:

- Battery storage	\$16,000	-\$4.800 (25D)	\$11,200
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¹ The 30 percent tax credit hits a \$4,000 cap for the used EV purchase.

² Starting in 2024, the used EV tax credit can become an up-front discount. But the Garcias didn't want to wait till then, so they'll recoup the \$4,000 as an end-of-year tax credit.

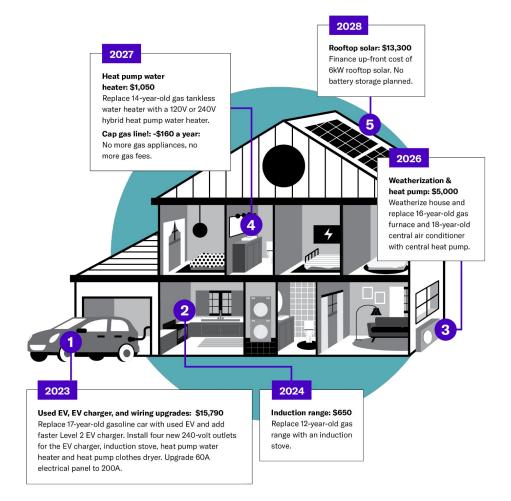
Household Profile:

Size: 3 people;

Income: \$130,000

AMI: Under 150%

Location: Sacramento, CA



A retired Georgia couple electrify their apartment

These renters on a budget show it can be done

Household Profile: Size: 2 people; Income: \$30,000;

AMI: Under 80%; Location: Atlanta, GA



The Nguyens go electric

	Replacing	Buying	Est. cost, installed	Up-front discount	30% Tax credit	Final cost
2023	_	Portable induction burner and oven	\$300	-\$300 (HEEHRA)		\$0
2024	2 window unit ACs	2 window unit	# 4.000	-\$4,000		\$0
2024	Gas furnace	heat pumps	\$4,000	(HEEHRA)		Ų.
2025	_	Combo washer & clothes dryer	\$840	-\$840 (HEEHRA)		\$0
2000	60A electric panel	100A electric panel	\$2,000	-\$2,000 (HEEHRA)		\$0
2026	_	Electric wiring	\$2,000	-\$2,000 (HEEHRA)		\$0
TOTAL	AFTER TEN YEARS		\$9,140	-\$9,140	-\$0	\$0

Upgrades considered but not currently planned:

Gas range	Electric range	\$540	-\$540 (HEEHRA)	\$0	
Gasoline car	Used EV	\$10,000	-\$3,000 (25E)	\$7,000	

Household Profile:

Size: 2 people

Income: \$30,000

AMI: Under 80%

Location: Atlanta, GA

Wiring & panel upgrades: \$0 Work with landlord to utilize the IRA's funding for retrofits of affordable housing. 2023 Portable induction burner and oven: \$0 Switch to an induction stove and countertop electric oven to avoid using the installed gas range. 2025 Electric clothes dryer: \$0 Install a combined 120V washer & dryer unit once the 2024 price falls below rebate limit. Window unit heat pumps: \$0 Replace 15-year-old window-unit air

conditioners with window-unit heat pumps, which can also be used instead of the gas furnace for heating.



Reaching for resilience

A well-resourced Oklahoma family electrifies for security and the climate crisis

Household Profile: Size: 5 people; Income: \$280,000; AMI: Above 150 percent; Location: Oklahoma City, OK



The Sandovals go electric

5 The 30 percent tax credit hits a \$2,000 cap for the heat pump purchases.

	Replacing	Buying	Est. cost, installed	Up-front discount	30% Tax credit⁵	Final cost	
2023	_	Rooftop solar	\$19,000		-\$5,700 (25D)	\$13,300	
	_	Battery storage	\$16,000		-\$4,800 (25D)	\$11,200	
	100A electric panel	200A smart panel	\$5,000		-\$1,500 (25D)	\$3,500	
	_	Electric wiring	\$2,500			\$2,500	
2024	Gasoline car	New EV #1	\$40,000	-\$7,500 (30D)		\$32,500	
	-	EV charger #1	\$1,000			\$1,000	
2025	Gas Furnace	Central heat pump (year 1)	\$13,000		-\$2,000 (25C)	\$11,000	
	Central AC						
202	6 Window ACs	Ductless mini-split heat pump (year 2)	\$7,000		-\$2,000 (25C)	\$5,000	
2027	Tank gas water heater	Heat pump water heater	\$4,000		-\$1,200 (25C)	\$2,800	
	Electric range	Induction range	\$1,300			\$1,300	
	Electric clothes dryer	Heat pump clothes dryer	\$1,500			\$1,500	
	Cap gas line!					-\$160/ year	
2029	Hybrid car	New EV #2	\$30,000	-\$7,500 (30D)		\$22,500	
	_	EV charger #2	\$500			\$500	

TOTAL \$140,980 -\$15,000 -\$17,200 \$107,980

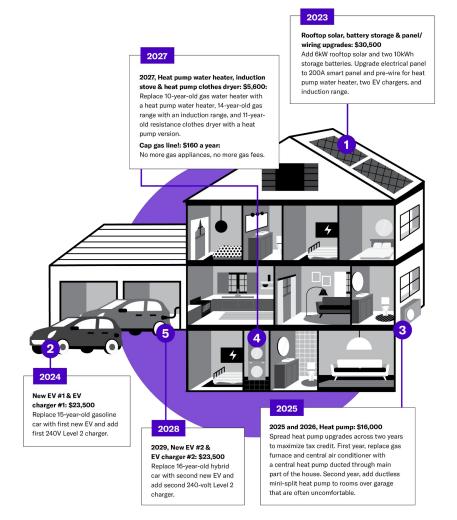
Household Profile:

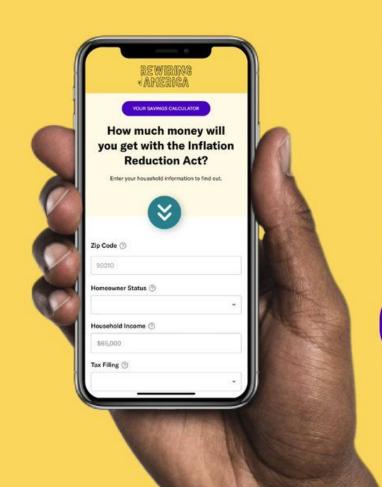
Size: Size: 5 people;

Income: \$280,000;

AMI: Above 150 percent;

Location: Oklahoma City, OK





The Inflation Reduction Act provides thousands of dollars for households to go electric.

How much will you get?

TRY OUR CALCULATOR!

https://www.rewiringamerica.org/app/ira-calculator

