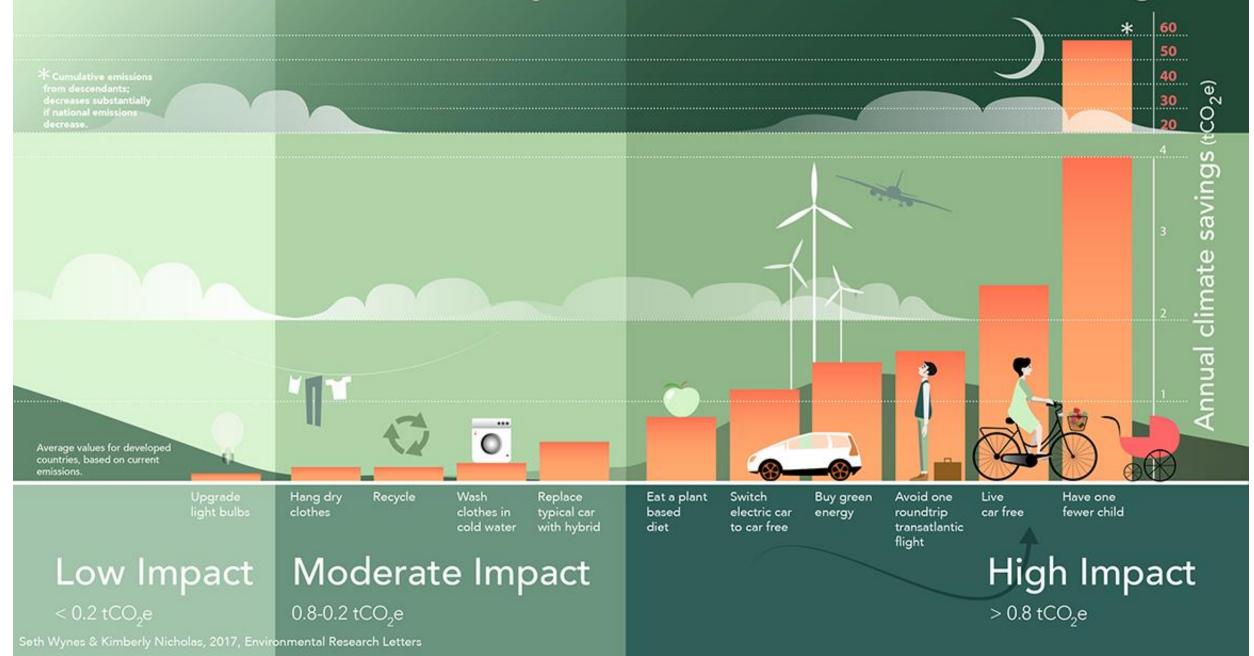
Electrification

Path to Carbon Neutrality

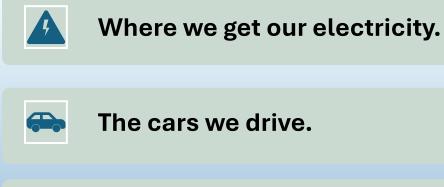


Steve Cea, Co-chair, Nyack Climate Smart Committee
<u>Nyack2030.com</u>

Personal choices to reduce your contribution to climate change



42% of our energy-related emissions decisions are made around the kitchen table.







L

How we cook our food.



How we dry our clothes.

Overview





1 Secure Renewal Electricity

- Community Choice
 Aggregation
- Orange & Rockland
- Energy Service Co.
- Rooftop Solar

Your electricity breakdown Rate: ELECTRIC RESIDENTIAL - DELIVERY

Electric Meter Detail - billing period from April 1, 2024 to May 1, 2024 (30 days)

Meter #	New Read	Read Type	Date	Prior Read	Read Type	Date	Read Diff	kWh
701012326	59659.06	Actual	May 01	59683.01	Actual	Apr 01	-24	-24

Your Supply Charges

Sales Tax	(Wh @0.13068¢ per kWh	\$0.0 \$0.0
Total ele	ctricity supply charges	\$0.00
	tricity supplier: CONSTELLATION NEW ENERGY CCA account number: 14145408	
Address:	1221 LAMAR ST STE 750 HOUSTON TX 77010	
Phone:	(855) 465-1244	
Messages	from your electricity supplier:	
NEW! Log	in to My Account at oru.com for a new ESCO bill comparison too	
Constella	tion NewEnergy CCA for Rockland Community Power	

Your Delivery Charges

	Your electricity total	\$22.72
llo	Total electricity delivery charges	\$22.72
	Government Surcharge - Delivery	\$0.72
	Billing Charge	\$0.00
	SBC Chg 0 kWh @0.000 ¢	\$0.00
	RDM Adjustment 0 kWh @0.000 ¢	\$0.00
	Transition Adj Chg 0 kWh @-0.00013000¢	\$0.00
	Energy Cst Adj 0 kWh @0.000 C	\$0.00
\$0.00	EVMR Surcharge 0 kWh @0.00073 ¢	\$0.00
\$0.00	First 0 kWh @0.10363¢ each	\$0.00
\$0.00	Basic Service Charge	\$22.00

Your electricity supplier: CONSTELLATION NEW ENERGY CCA Supplier account number: 14145408 Address: 1221 LAMAR ST STE 750 HOUSTON TX 77010 Phone: (855) 465-1244 Messages from your electricity supplier: NEW! Login to My Account at oru.com for a new ESCO bill comparison tool! Constellation NewEnergy CCA for Rockland Community Power Secure Renewal Electricity

- Community Choice
 Aggregation Rockland
 Community Power
- 0&R
- Energy Service Co.
- Community Solar Campaign
- Rooftop Solar

Solar

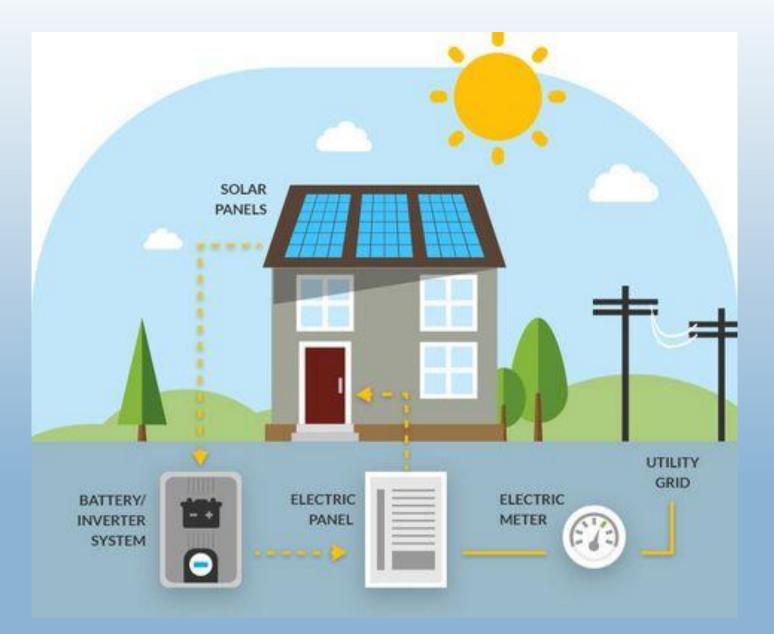
Generate Your Own Electricity

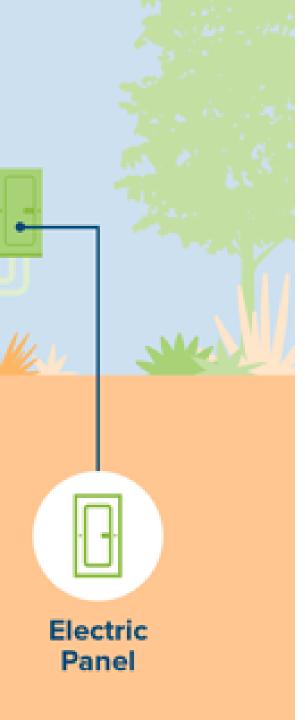
- Google Project Sunroof
- Energy Sage
- Call a local installer
- Incentives:
 - NYSERDA 25% tax credit capped at \$5,000
 - IRA 30% tax credit No Cap



Battery Storage

- Complements Rooftop Solar
- Functions as a Generator
- Potential Demand Response Benefits
- Incentives:
 - IRA 30% Tax Credit with capped at \$4,800

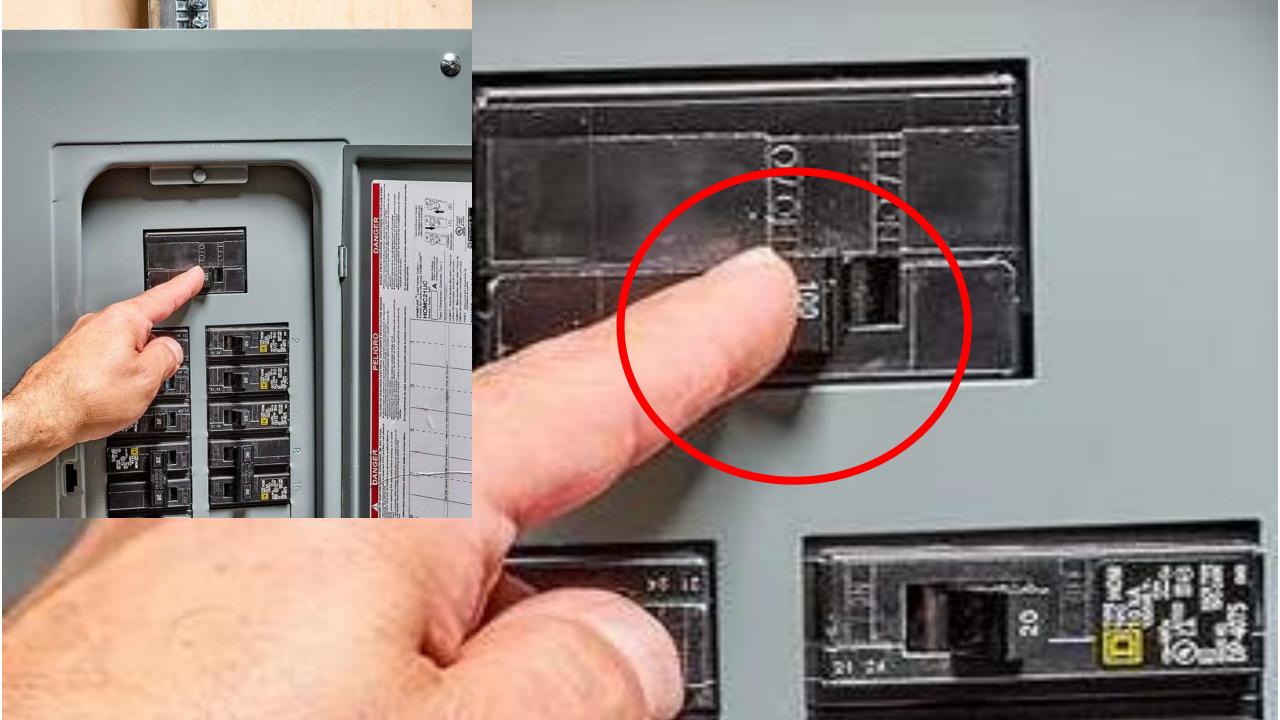


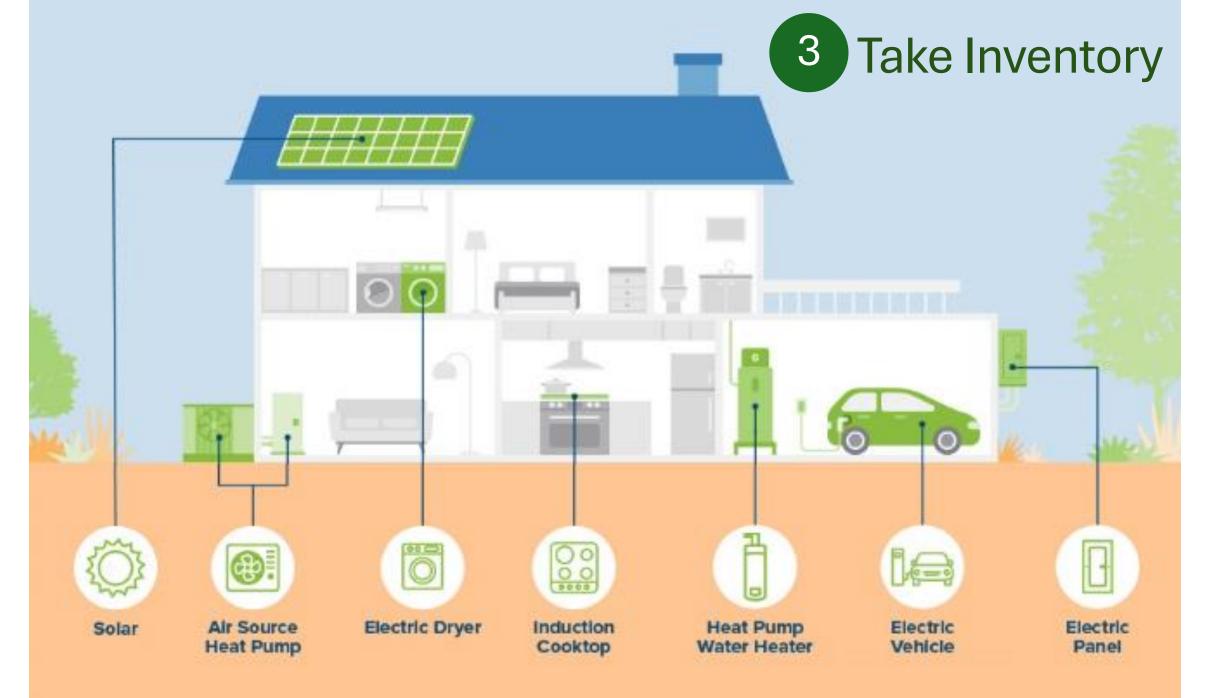


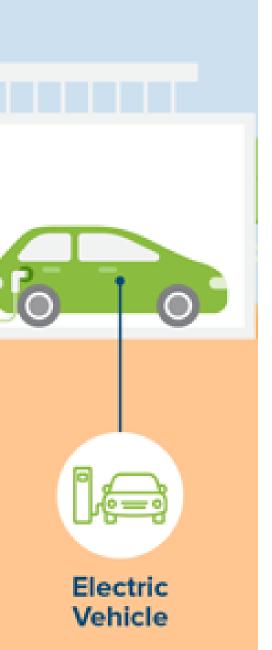
2 Ensure Electrical Capacity

Do you have sufficient capacity to add additional electrical appliances?

- Required Service: 150 200 amps
- Upgrade Incentives:
 - Federal Home Electrification and Appliance Rebates (HEAR) Rebate: Panel=\$4,000, Wiring=\$2,500
 - IRA 30% Tax Credit up to \$600
 - Also allowed if solar or battery installation requires panel upgrade.





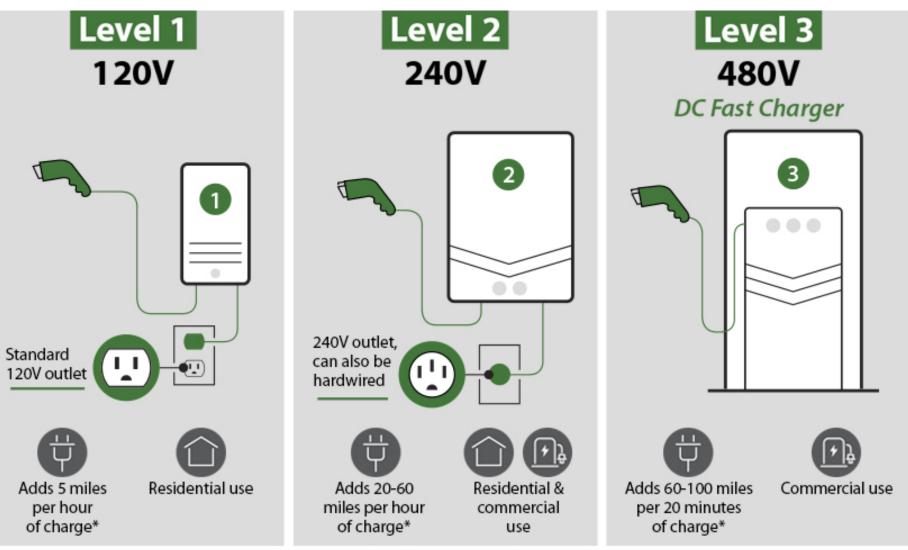


Electric Vehicles (EV) & Charging

- Personal vehicles represent 20% of overall emissions.
- Hybrid vs. Plug-In Hybrid vs. All Electric
- Range Anxiety State of Mind
- Drive Electric Nyack Campaign
- Incentives:
 - <u>NYSERDA</u> Up to \$2,000 rebate
 - <u>IRA</u> Tax credit up to \$7,500 for new vehicles & \$4,000 for used vehicles with income and component limits.

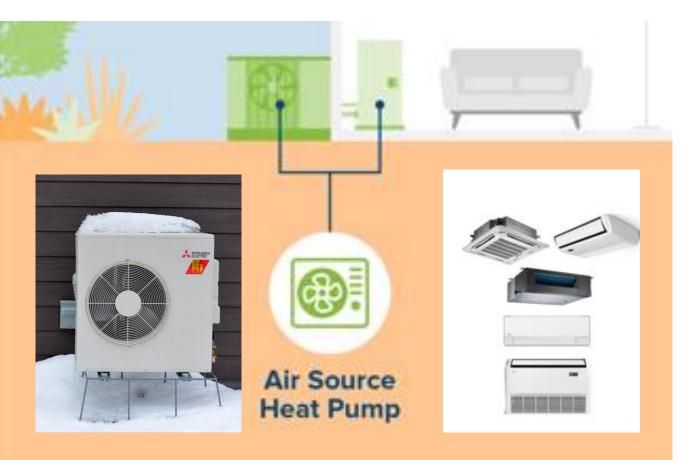
Electric Vehicle

EV Charging Levels



* Estimated. Actual charge times may vary.

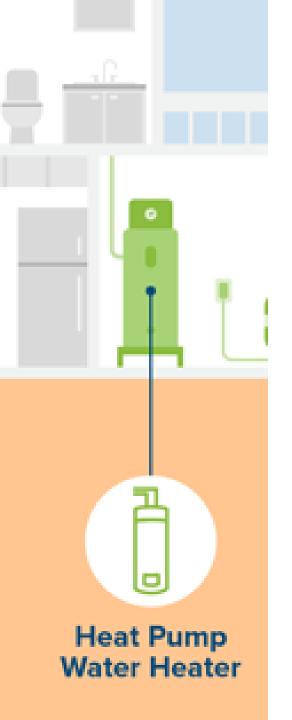
Heating & Cooling – 17% of Residential Emissions



æ.

How Do Heat Pumps Work? This Old House Explains.

- Heat Pumps
 - Air Source
 - Ground Source
 - Cold Climate Heat Pumps
- Incentives:
 - IRA 30% tax credit \$7,200 avg. for ground source install.
 - IRA \$8,000 rebate, pending federal approval.
 - O&R \$1,000 for heating/cooling or hot water heaters.
- Nyack Clean Heat Challenge



Heat Pump Hot Water

- Qualifies for Nyack Clean Heat Challenge
- May Require New Electric
- Incentives:
 - IRA 30% Tax Credit Up To \$2,000
 - Federal Home Electrification and Appliance Rebates (HEAR) Discount of \$1,750.
 - O&R \$1,000 for heating/cooling or hot water heaters.



Induction Cooking

Benefits

- Faster
- Safer Heat & Air Quality
- Easy to Clean
- May Require New Electric & New Cookware

- Incentives:
 - IRA Discount of Up to \$840
 - Electric Service Wiring Rebate, \$2,500

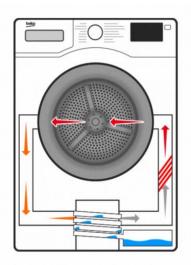


Induction Cooktop

A CLEANER, ELECTRIC FUTURE

Electric Dryer

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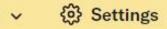


Heat Pump Electric Dryer

- Pros
 - 50% More efficient than traditional electric dryer
 - Last longer than conventional dryers
 - No outside venting put it anywhere
- Cons
 - Smaller than conventional dryers
 - Longer drying time
 - May require new electric depending on model
- Incentives:
 - IRA Discount of up to \$840

💮 My plan

n 🗋 My projects 🗸





Plan Ahead

My electrification plan

I'm electrifying to:

- LOWER MY ENERGY BILLS
- LOWER MY CLIMATE IMPACT

EDIT

Prework



HOW TO READ MY PLAN HOW THE DATA WORKS

Get a home energy audit	INCENTIVES \$150 BILL IMPACT None UPFRONT COST \$0 - \$900	View project
Pre-wire your home to get it ready	INCENTIVES \$6,500 BILL IMPACT None UPFRONT COST \$6,700 - \$16,300	View project

Project list				
	Install solar panels	INCENTIVES BILL IMPACT UPFRONT COST	\$9,600 ▼ ~\$1,800/yr \$28,700 - \$47,300	View project
. 🚑;	Add an electric vehicle	INCENTIVES BILL IMPACT UPFRONT COST	\$7,500 ▼ ~\$1,000/yr At least \$27,500	View project
	Install a heat pump water heater	INCENTIVES BILL IMPACT UPFRONT COST	\$3,800 ▼ ~\$85/yr \$3,200 - \$6,300	View project

Upgrade to a heat pump and weatherize	INCENTIVES BILL IMPACT HEAT PUMP COST WEATHERIZATION COST	\$12,800	View project
Install a heat pump clothes dryer	INCENTIVES BILL IMPACT UPFRONT COST	\$840 ▲ ~\$15/yr At least \$1,000	View project
Install an electric/induction stove	INCENTIVES BILL IMPACT UPFRONT COST	\$840 ▲ ~\$30/yr At least \$1,300	View project

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.

4 WHY DO IT?

Induction cooktops are faster, use less energy, and do not emit harmful pollution.

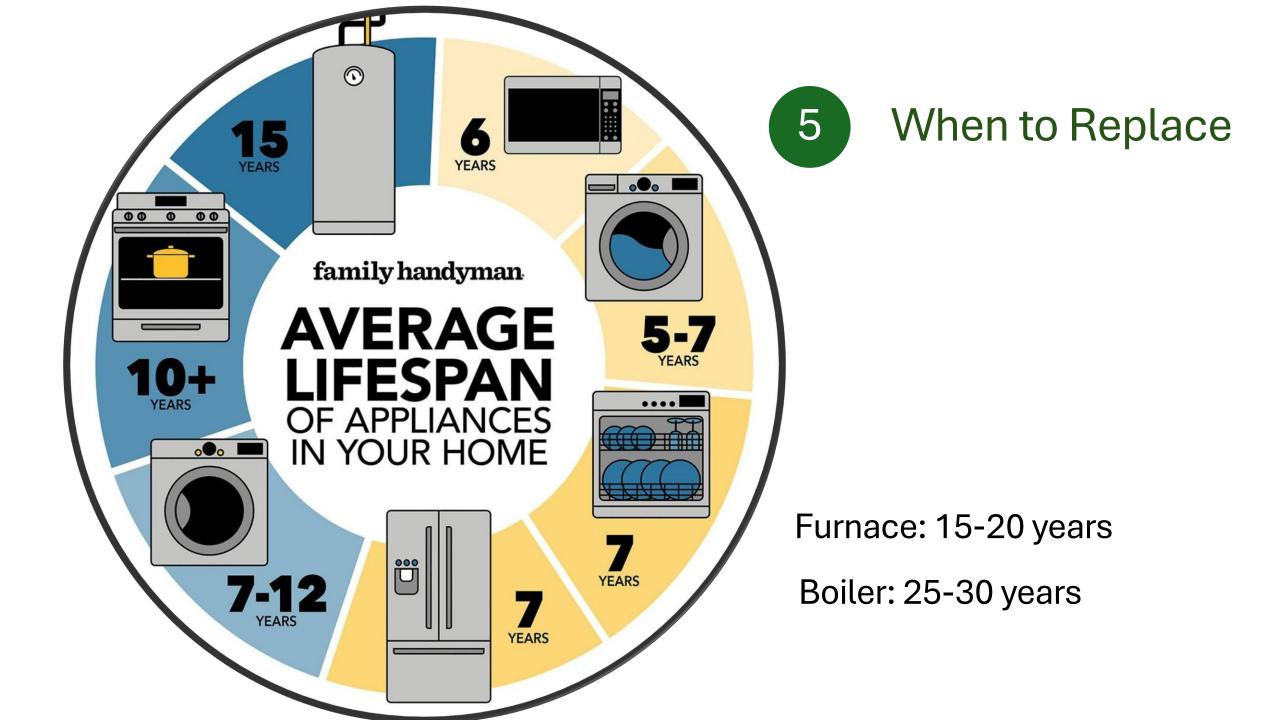
4 WHEN?

When your current stove is nearing end of life (usually about 13 years).

4 WHO IS THIS FOR?

Ranges for homeowners, portable ranges for renters.

Read more about electric cooking $\,\, \downarrow \,\,$



Other NYSERDA Programs



Income Eligible Programs Provide \$5-10,000 for Energy Improvement Projects

Household Size	EmPower Ll	EmPower MI
1	At/below \$36,420	\$36,420 - \$79,200
2	At/below \$47,640	\$47,640 - \$90,500
3	At/below \$58,848	\$58,848 - \$101,800
4	At/below \$70,056	\$70,056 - \$113,100

Home Comfort: \$1-\$4,000 for Insulation and Air Sealing

Household Size	Comfort Home/REA	Household Size	Comfort Home /REA
1	Above \$79.2K	3	Above \$101.8K
2	Above \$90.5K	4	Above \$113,100

If you qualify for these programs, contact
<u>Frankie Lede</u>
Community Energy Advisor
Cornell Cooperative Extension
845-605-0580
fl447@cornell.edu

Electrification Questions

Steve Cea, Co-chair, Nyack Climate Smart Committee scea2014@gmail.com Nyack2030.com