



NYSERDA Grant Challenge

Town of Hurley



Hurley Climate Smart Task Force

For the Town of Hurley, February 27, 2024

Kristen Schara, Coordinator

Lynne Bailey, Communications Manager



**Climate Smart
Communities**

Certified Bronze

Hurley's 2024 Challenge for \$20k+ Grant Money



Community Solar Sign-ups

If 50 residents or businesses in Hurley sign up for community solar, the Town can receive a \$10,000 grant

All subscriptions begun on or after June 1, 2023, are eligible



Heat Pump Installations

If we report five installations of heat pumps or heat pump water heaters in the Town, we can receive a \$5,000 grant; \$10k available for 10 installations

Installations completed after Nov. 29, 2023, qualify



EV Purchases/Leases

When we report that five electric vehicles purchases by town residents or entities, the Town can receive a \$5,000 grant

Purchases from Nov. 29, 2023, qualify

\$25mm Available State-Wide

- Clean Energy Funding from *systems benefit charge* on utility bills
- 4-Electric vehicles of 5 purchased
 - Requires \$\$+
- 1-Heat pump installation reported
 - Requires \$++
- Community Solar
 - Requires NO money to sign-up and can save up to 10% on your electric bill



Introducing Tom Konrad



ecc

Marbletown Environmental
Conservation Commission

Tom Konrad, Ph.D., CFA

Chair, Marbletown Environmental Conservation Commission
Energy Coach, New Yorkers for Clean Power



Tom Konrad, PhD, CFA, is a portfolio manager, financial analyst, and freelance writer specializing in renewable energy and energy efficiency, to review energy updates and state programs with community members



Why Electrify?

- Save money
 - Especially with a good plan
 - Better performance
 - Electric vehicles
 - Induction stoves
 - A/C
 - Better for the environment
- Help town get grants
 - Did I say **SAVE MONEY?**



Making Your Renewable Energy Plan



Tom Konrad, Ph.D., CFA

Chair, Marbletown Environmental Conservation Commission
Energy Coach, New Yorkers for Clean Power



NEW YORKERS
FOR
CLEAN POWER

Why have a plan? Affordability



Heat Pumps,
Evs, etc cost
less to run, but
what about up-
front cost



Replacing
working
equipment is an
extra expense



Replacing
equipment near
its end-of-life
means you can
use money you
would already
have to spend



Having a plan
means you will
know what to
do if something
needs to be
replaced in a
hurry



Don't get
trapped buying
fuel oil for
another 25
years!



How to Make a Plan



Inventory

What uses fossil fuels in my home?

- Vehicle
- Heating
- Hot Water
- Cooking
- Lawnmower
- Snowblower
- Back-up generator...



Replacement Option

Identify Electrification Alternatives

- EV/PHEV
- Heat pumps
- Heat pump water heater
- Induction
- Electric yard tools
- EV to home...
- Solar Panels



Preparation

Preparation

- Home weatherization
- Added insulation

Electrical Upgrades Needed?

- Replace before end of life
- Source green electricity-CDG, ESCOs, solar...



Create a personalized plan at
[RewiringAmerica.org](https://www.RewiringAmerica.org)

Example Home Fossil Fuel Use Inventory

Item	Annual Fuel	Replace in	Replace with	Do first
Electric Supply	10,000 kWh	With new roof	Solar	Comm solar., Roof, panel upgrade
Boiler	300g fuel oil	5 years?		
Aux water heat	See above	"		
2015 Prius	400 gal gas			
Gas Stove	Low			
Riding Lawnmower	?? gal			
Snowblower	? gal			

Electrification Opportunity #1

Heat, A/C and Hot Water

Heat Pumps



Tom Konrad, Ph.D., CFA

Chair, Marbletown Environmental Conservation Commission
Energy Coach, New Yorkers for Clean Power



Heat, A/C, and Hot Water

- Insulate and Air Seal FIRST!
- Makes home more comfortable
- Saves money / reduces fuel use
- Allows smaller sized units
- Allows air source heat pumps to work well even on very cold days
- Eliminates ice dams
- LMI - 50% to 100% paid for by state programs
- Federal tax credits and rebates available



Heat, A/C, and Hot Water Solutions

- Air Source Heat Pumps + Heat Pump Water Heater (most common)
 - Requires good home insulation
 - Optional: wood/pellet stove backup for power outages & very cold nights
 - Requires space for a water heater
- Can't do radiant heat
- Requires space in electric panel
 - \$2,000 tax credit for panel
 - LMI rebates later this year
 - Central Hudson rebates

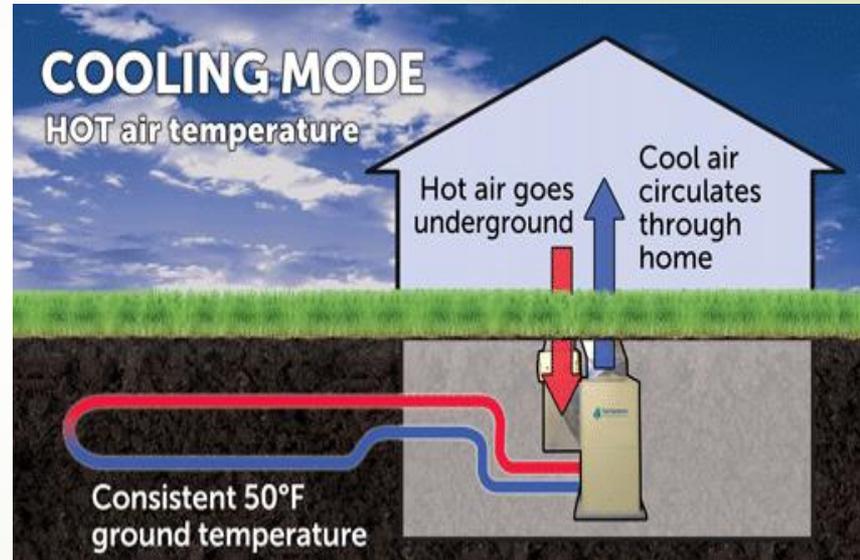


Photos: Air source heat pump at Sun Creek office building in Stone Ridge

Heat, A/C, and Hot Water

➤ Geothermal/Ground source heat pump (most efficient)

- Can do heat, A/C, hot water
- Usually more expensive
- Requires air ducts: Can adapt existing ductwork
- No outdoor units (aesthetics)
- Best if building cannot be well insulated
- 30% tax credit
- Central Hudson rebates



<https://www.cleanenergyresourceteams.org/sites/default/files/geothermal-cooling-and-heating-animated.gif>

Heat Pump/Hybrid Water Heaters

- ➔ Water heating is 3rd largest energy user (after HVAC and driving)
- ➔ Heat pump water heaters take heat/humidity out of room around them to heat hot water.
- ➔ \$2000 tax credit, \$1000 CH rebate.
- ➔ Can do self-install to get



Expert Installation Available

\$1998⁰⁰

Get up to \$2,000 in Rebates for 12484

★★★★★ (17)

Model# XE50T10HM00U0

Rheem
Performance Platinum ProTerra 50 Gal. Tall 0W Element Residential Electric Water Heater w/Heat Pump & 10-Year Warranty

Expert Installation Available

\$1699⁰⁰

Get up to \$2,000 in Rebates for 12484

★★★★★ (2853)

Model# XE40T10HS45U0

Rheem
ProTerra 40 Gal. 10-Year Hybrid High Efficiency Smart Tank Electric Water Heater with Leak Detection & Auto Shutoff

Financial Incentives: Inflation Reduction Act

www.rewiringamerica.org/app/ira-calculator

Enter your info on this webpage to see what you qualify for and when it will be available.

**REWIRING
-AMERICA**

Enter your household information to find out. [Reset calculator](#)

Zip Code
 Homeowners Status
 Household Income

Tax Filing
 Household Size

Your Personalized Incentives
 These are available to American homeowners and renters over the next 10 years.

UPFRONT DISCOUNTS N/A	AVAILABLE TAX CREDITS \$18,900	ESTIMATED BILL SAVINGS PER YEAR \$1,150
--	---	--

Total Incentives \$18,900 ⚡

Disclaimer: This is an estimate. We do not yet know how or when electrification rebates will be implemented in each state, so we cannot guarantee final amounts or timelines.

Your income is above the threshold for upfront discounts and EV tax credits, but your tax liability will likely qualify you for equipment tax credits. You do qualify for a performance-based efficiency rebate worth \$4,000. However, we do not consider this an upfront discount. [Check out this relevant case study!](#)

Buying	Up-front discount, low-income	Up-front discount, moderate-income	Tax credit
Clean electricity			
Electrical wiring (pre-wire outlets early!)	100% up to \$2,500 (HEEHRA)	50% up to \$2,500 (HEEHRA)	
Electrical panel (if under 100-amps)	100% up to \$4,000 (HEEHRA)	50% up to \$4,000 (HEEHRA)	30% up to \$600 (25C) or 30% uncapped (25D), depending on the corresponding upgrade ⁹
Weatherization	100% up to \$1,600 (HEEHRA)	50% up to \$1,600 (HEEHRA)	30% up to \$1,200 (25C)
Heat pump	100% up to \$8,000 (HEEHRA)	50% up to \$8,000 (HEEHRA)	30% up to \$2,000 (25C)
Heat pump water heater	\$100% up to \$1,750 (HEEHRA)	50% up to \$1,750 (HEEHRA)	30% up to \$2,000 (25C)
Electric/induction stove	100% up to \$840 (HEEHRA)	50% up to \$840 (HEEHRA)	
Heat pump clothes dryer	100% up to \$840 (HEEHRA)	50% up to \$840 (HEEHRA)	
New EV	\$7,500 (30D) ¹⁰		
Used EV	30% up to \$1,000 (30C) ¹¹		

NYS Incentives

- NYSERDA low-cost loans
 - As low as 3.75% for Hurley area residents
- \$500 extra cash back for electric vehicles
 - Thruway discount (green pass), Cheaper elec at night using TOU rate or Smart Charge program
- Rebates through Central Hudson
 - Heat pumps, Hybrid Water heaters

Overwhelmed?

Sign Up for Energy Coaching



<https://nyforcleanpower.org/cleanenergycoaching>

Impartial advice on

- Solar
- Heat Pumps
- Electric & Plug-in electric vehicles
- Tax Credits
- Battery back-up
- Water heating
- Electric & Plug-in electric vehicles
- Electric lawnmowers
- Induction stoves... heat pump dryers... Community solar... EV chargers ... snow blowers....

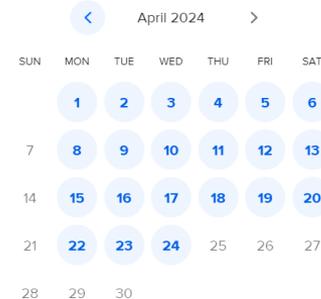
Tom Konrad

45 Minute Energy Coaching Session

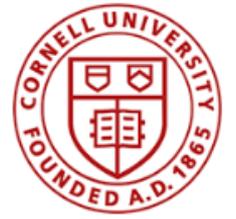
🕒 45 min

I'll answer questions about green tech, or help you plan your next steps for transitioning your life off fossil fuels.

Select a Date & Time



Tom Konrad



Sign Up for Energy Coaching

<https://midhudsonenergychoices.org/>



Regional Clean Energy Hub

Partnering Organization

- Focus on low income and accessing grant funding.



Next Steps – Q & A

- Get counted for Grant Money –
Let us know if you install heat pumps
 - Email climatesmart@townofhurley.org or
 - Go to www.climatesmarthurley.org
Select Heat Pump Page and fill out form
 - Need installer name & date of install
- Need help?
 - Send us an email
 - Review this information on our website
www.climatesmarthurley.org
 - Use an Energy Coach





**Hurley's Climate Smart Task Force thanks
Tom Konrad, the Hurley Town Board and residents
for their interest and participation**

Next Sessions

March 26: Community Solar

April 23: Electric Vehicles

Kristen Schara, Coordinator

Lynne Bailey, Communications Manager

Erin Nysten, Peter McKnight & Stephen Ballentine

www.climatesmarthurley.org



End of Part I

Electrification Opportunity: Heat Pumps

