

Welcome

Grab a snack. Meet someone you ought to know. We'll get started shortly.



A vibrant graphic for the 2024 Clean Energy Forum. The background is a gradient of blue and teal, with white clouds and a large yellow sun in the top right. In the center, four hexagonal panels are arranged in a diamond shape, each depicting a different clean energy technology: solar panels, wind turbines, hydroelectric dams, and green buildings. The text "2024" is in a large, yellow, stylized font, and "CLEAN ENERGY FORUM" is in a bold, yellow, sans-serif font below it.

2024 CLEAN ENERGY FORUM



Kelsi Davis
Coordinator



Lori Egan
Board Chair



Kristin Eggen
Executive Director



Definitions

Clean Energy - Renewable energy sources that produce no greenhouse gas emissions during operation.

Energy Efficiency - Reducing overall energy usage by utilizing more efficient technology (insulation, HVAC, appliances, etc).

Energy Burden - Percentage of income spent on energy, a household above 6% is considered burdened.

Energy Coaching - An energy consultation with a building owner to discuss energy efficiency or renewable energy opportunities.

Energy Audit - A technical analysis of a building resulting in measured energy use, identified areas of waste, and specific options for energy savings.



What is an Energy District?



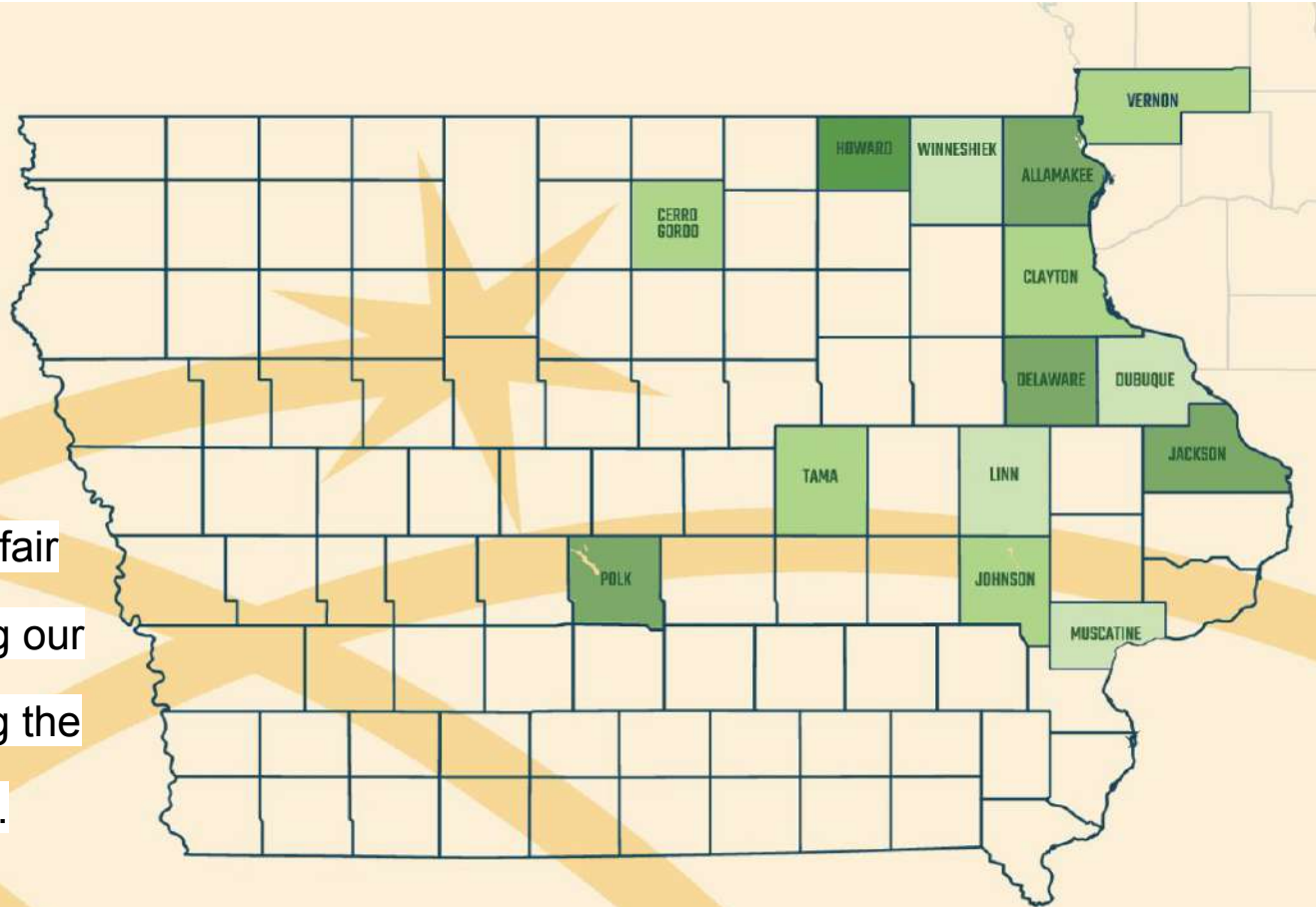
Energy District: (n) a local non-profit institution created to strengthen communities by leading, implementing, and accelerating the equitable and locally owned clean energy transition..



Keeping Energy Local, Clean and Affordable



Local Energy Districts are facilitating a local, clean, and fair energy movement, stimulating our local economy, and sustaining the planet for the next generation.



OUR VISION:

100%

BY 2050

local

RENEWABLE

energy

LET'S MAKE THIS REALITY

Three Strategies for Community Building



1. Positively affect the local economy by retaining & reinvesting energy dollars.
2. Reduce the impact of climate change through the promotion of wise energy use.
3. Facilitate equal access to clean, locally owned clean energy.

Rural Energy for America Program Grants

- Grants and guaranteed loans for rural small businesses and farm clean energy or energy efficiency upgrades.
- 2 CEDI REAP Program Manager and Energy Coaches
- Allamakee, Clayton, and Winneshiek coach: steve.hopkins@cleanenergydistricts.org
- Audit funds available: CEDI covers 75% up to \$2,000.



Steve Hopkins



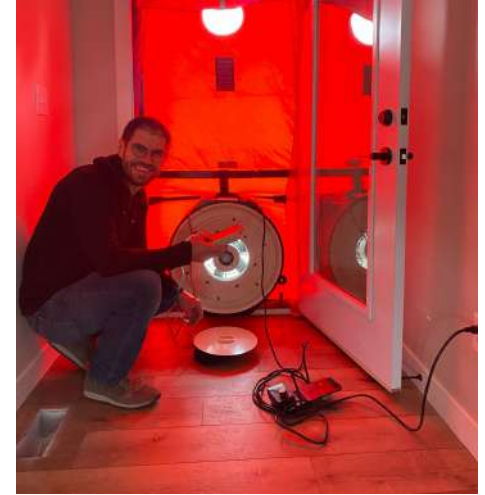
Winneshiek Energy District

🚢 Flagship Energy District, founded in 2010

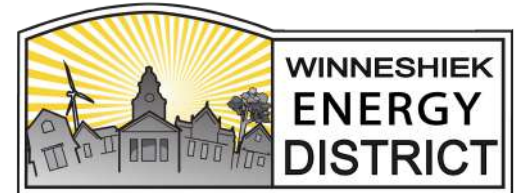
🔌 Utilities serving Winneshiek County: Alliant Energy, MiEnergy, Allamakee-Clayton, Black Hills Energy

🔑 Key strategies: Market Transformation, Education, Technical Services, and Advocacy

✊ Participated in defending Iowa solar net metering, supporting locally owned (distributed) power generation



Blower Door Test



Winneshiek Energy District

😎 Thriving local solar market

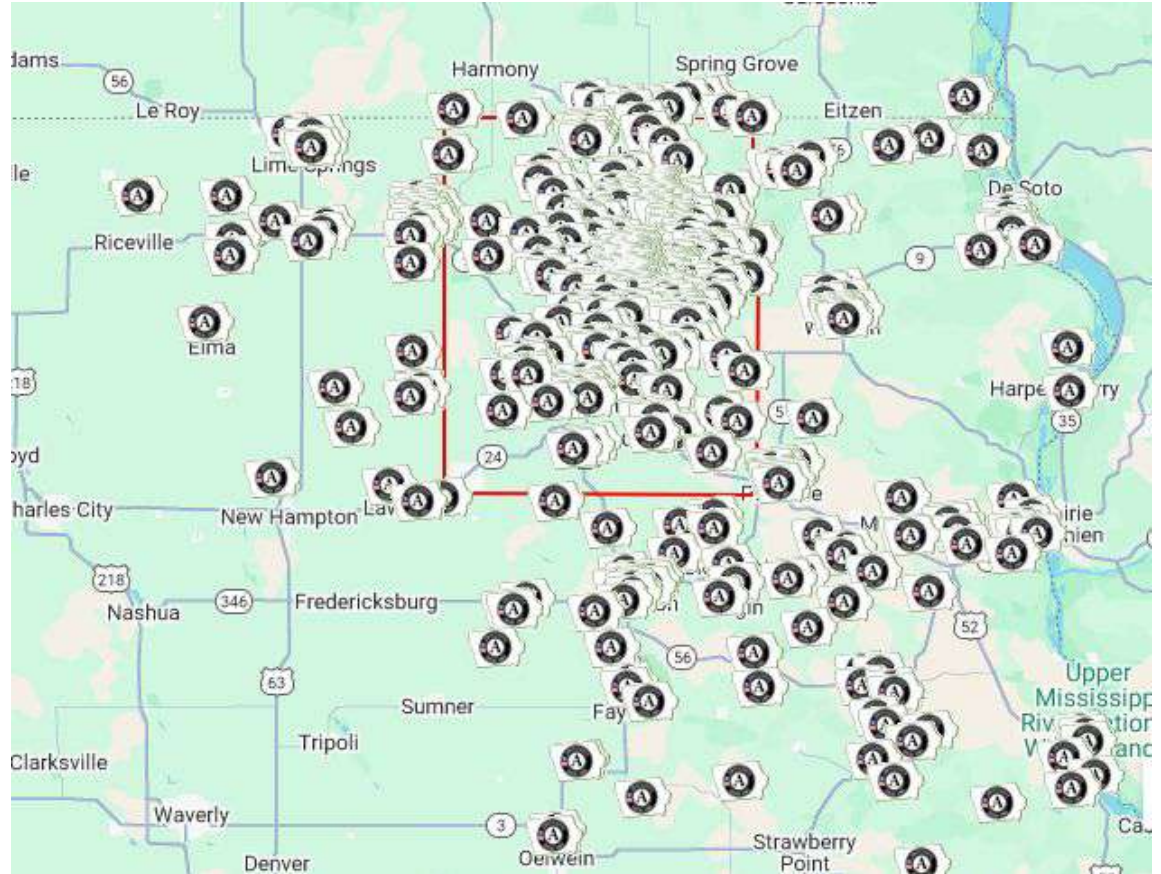
Most solar per capita in Iowa!



💰 Saved northeast Iowa's an estimated **\$1.7 million on energy** and **14,000 tons of CO2** through energy efficiency services, including farm energy upgrades.

A regional approach that seeded the energy district idea.

tools.energydistrict.org/map



Winneshiek Energy District



Earth Day Fair

Public education and market transformation for emerging technologies



Solar Financing for Nonprofits

Helping public and nonprofit entities access affordable, solar-powered energy



2024 Clean Energy Home Tour

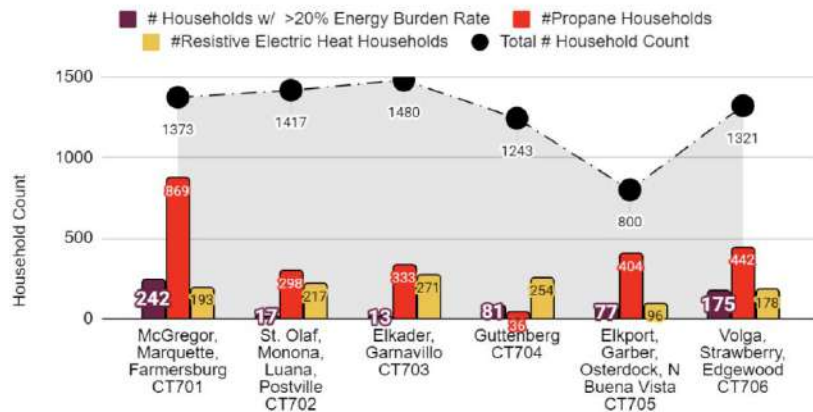
Sharing examples of renewable and efficient home energy systems.

Clayton County Energy District



- Founded in 2016 - 2nd Energy District
- “Green meets Green” advocacy
 - Reducing energy burden & retaining wealth
 - Reducing ghg emissions
 - Including everyone
- Community education, outreach, & technical assistance
- Conservation Partnership
 - Full-time Coordinator hired in Aug.

Excessive Energy Burden House Count vs High Cost Heating Type by Census Tract



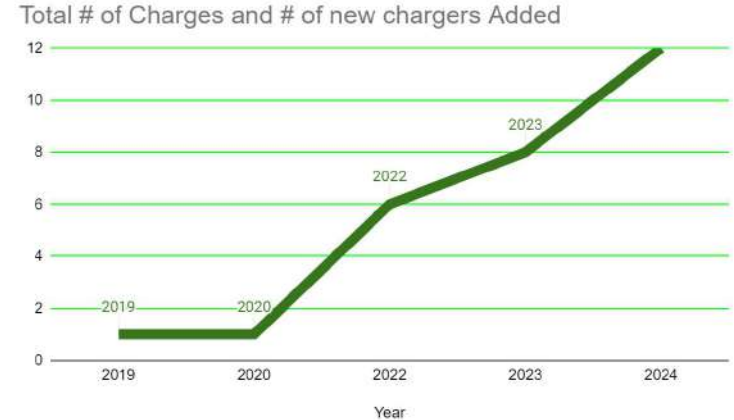
Municipal Utilities

- 3 Municipal electric utilities (2x state average)
 - Guttenberg
 - McGregor
 - Strawberry Point
- Serve nearly 1/3 of electric meters
- Opportunity for community-owned clean energy



EV Charger Transformation

- 2019: 1 public charger
- 2024: 12 public chargers
- Grant funded community chargers
 - Strawberry Point
 - Guttenberg
 - McGregor
 - Marquette
 - Elkader
- Brown's fast charger & EV test drives
- Charging desert to oasis!



Community Organization: RISE Ltd.

- CCED energy coaching session recommended solar and LED lighting
- Solar Array
 - 36.9 kw system
 - Production - 47.5k kwh
 - System cost - \$78k
 - Estimated IRA payment - \$23k
 - Total cost - \$55k
 - Payoff period - 6 yrs
 - Projected ROI - \$175k
- Energy savings = more program benefits

System active
Nov 2023 →

Electric Bill

\$926.11
\$948.32
\$956.87
\$638.47
\$417.47
\$289.82
\$437.81
\$327.40
\$20.58
\$19.93
\$19.93
\$21.25

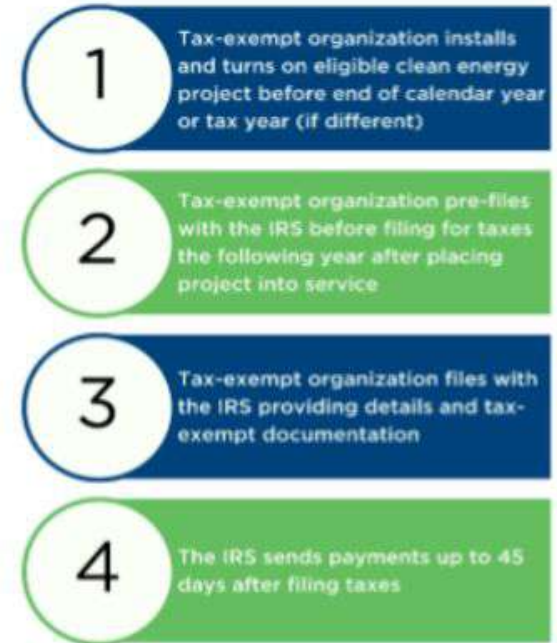
Mar - June
2024 ↓



Inflation Reduction Act Tax Credits

- 30% federal tax credits
 - Solar, wind, geothermal, and battery
 - Through 2032
 - No maximum dollar cap
- Direct Pay for non-taxable entities
 - Entities without tax liability are eligible for reimbursement of credit value

Direct Pay Timeline



City Energy Ownership - Marquette

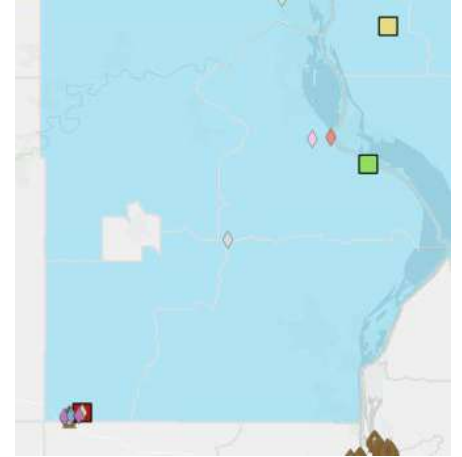
- Solar powered city services
 - Well #4 - 81% of usage
 - Driftless Wetland Center - 84% of usage
 - City shop - 86% of usage
 - Sewer plant - 72% of usage
- Total system size: 572 panels or 81% of electricity use
- Total cost: \$431,126
- Payoff period: 10 years
- 25 year savings: \$1,043,005
- Marquette can offset rising Alliant electricity by stabilizing city sewer/water prices.



Allamakee Energy District

- Established 2019
- Utilities: Alliant, Black Hills; Allamakee Clayton REC
- Just Transition Funding \$150,000

Coal Community- a coal community can be defined as a settlement closely tied to the coal mining industry, characterized by economic dependence, social cohesion and often provision of basic amenities by the mining (energy) company. The closure of these coal plants is creating economic upheaval in places where there is often a lack of good-paying jobs in sectors not tied to fossil fuels.



Just Transition Project

AED is working to **educate** the public & provide **technical assistance** (energy audits and education on tax credit application process) for municipalities and low-income households.

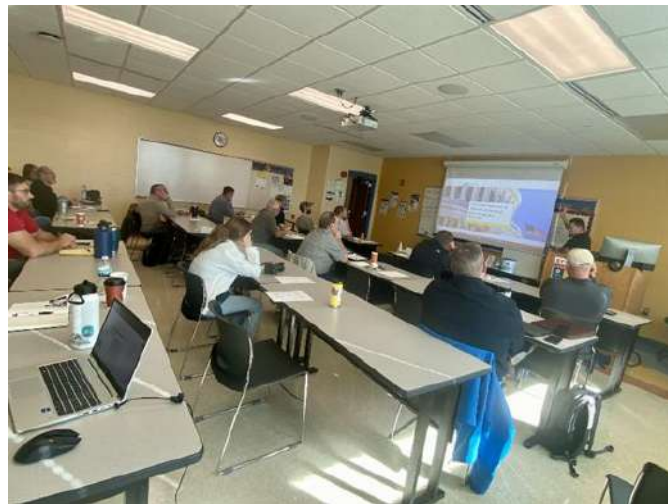
24 non-profits received technical assistance

Eligible Households may receive funding to support energy efficiency upgrades like water heaters, insulation and air sealing.



2024 Air Source Heat Pump Workshop

- Held Oct 16 in Waukon
- Co-hosted by Allamakee and Clayton
- Presented by Slip Stream w/ support from Midwest Heat Pump Collaborative
- Information on...
 - ASHP Equipment
 - System sizing / load calculation
 - Marketing
 - Rebates
- Attendees included local HVAC/Plumbers and electricians



Looking Forward



How will the Energy Districts continue to advocate for clean energy resources to reduce greenhouse gas emissions and stimulate the local economy by retaining energy wealth?

Opportunities

- Iowa's IRA rebate program for low-income households
- Preserving federal IRA tax credit
- REAP funds for farms and small businesses
- Continue clean energy workforce development
- Energy efficiency and electrification
- Energy coaching and education

There's still work to be done!

GREEN MEETS GREEN!



Paying Less for Energy = More for Your
Bottomline = Better for the Community = Better
for the World

Energy Districts encourages energy efficiency & local
clean energy generation for EVERYONE:

Farmers, **Homeowners**, **Businesses**, and
Non-Taxable Entities



What questions do you have for the
Energy Districts?





How will you support local clean
energy efforts?



Small Groups



How has clean energy impacted
your community?





Which needs can Energy Districts meet
in your community?





Imagine, in 20 years, what could
clean energy look like in Northeast
Iowa?



Use Your Energy District as a Community Resource!



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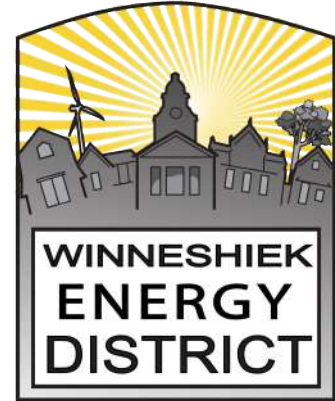


Lori Egan

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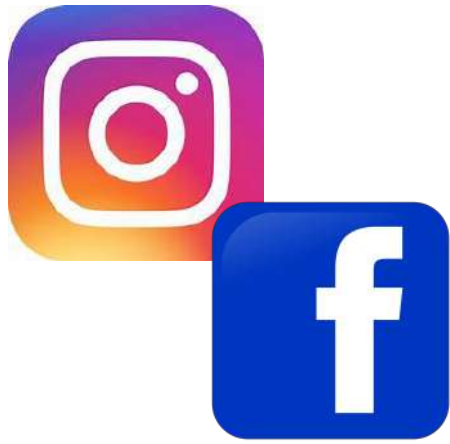


Kristin Eggen

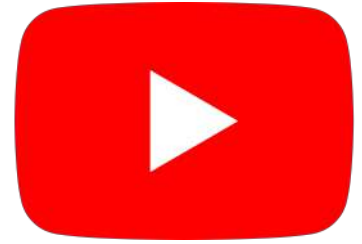
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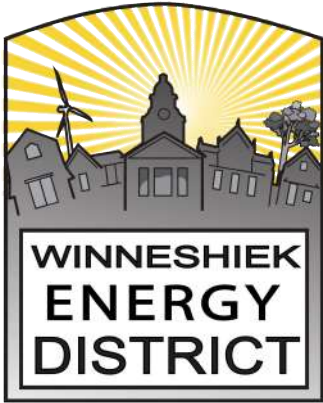
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allamakee.energydistrict.org

Thank you!