



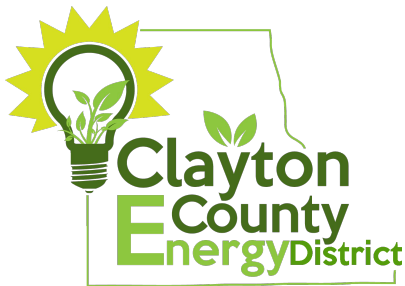
CLAYTON CO. ENERGY
DISTRICT PRESENTS

**RECAPPING
OUR
POSITIVE
IMPACT &
A LOOK
FORWARD**

JANUARY VIRTUAL
LUNCH & LEARN

WED JAN 27TH @ 12 PM

While we wait...
let's do a quick
poll!



A non-profit organization committed to strengthening our community by leading, implementing and accelerating the INCLUSIVE, LOCAL & CLEAN energy transition.

By putting boots on the ground in Clayton County we:

- **Positively affect the local economy by reducing energy costs**
- **Slow climate change by promoting wise energy-use**

We want to:

***Include
Everyone***

***Electrify
Everything***

***Decarbonize
Electricity***



**CHAIR: DR. JIM
OSTERHAUS**



**VICE CHAIR:
RANDY LENTH**



**TREASURER:
ELAINE FUNKE**



**SECRETARY: DR.
KEN ZICHAL**



RON KAISER



TOM KLINGMAN



KATHY KOETHER



**PROGRAM
MANAGER:
JOLEEN JANSEN**



**COMMUNICATIONS
SPECIALIST:
ASHLEY ALTHOFF**

Energy Districts are at the **INTERSECTION OF**

CLEAN ENERGY PROSPERITY

&

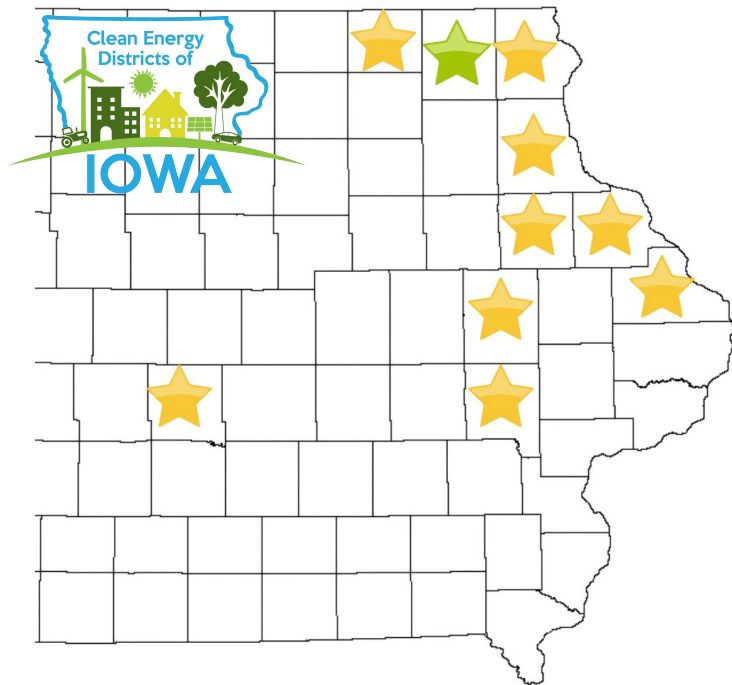
CLIMATE STEWARDSHIP



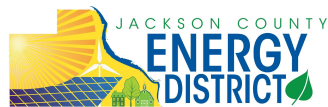
Proud Member



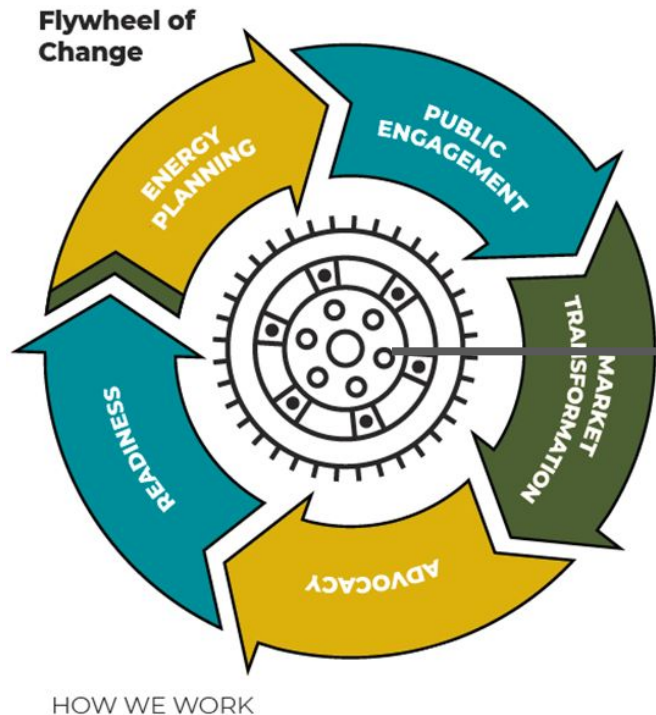
A UNIVERSAL & LOCAL APPROACH



Vernon County Wisconsin & Iowa County



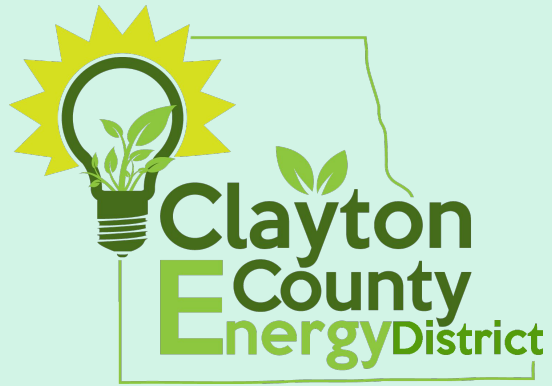
AND THIS IS HOW WE WORK...



Towards a LOCALLY LED & LOCALLY OWNED clean energy transition!

Local Clean Energy Champions

***Local Energy Districts =
Energy Prosperity +
Climate Stewardship***



ENERGY PLANNING IN A PANDEMIC

HOW DO WE GET THE COUNTY TO SAVE OVER \$400,000??

\$83.50 savings for lifetime of the LED bulb

5000 LED's x \$83.50 = \$417,500 savings for Clayton County over 13.6 years

5000 LED's x 765 kWh saved = 4200 metric ton CO2e reduction for Clayton County over 13.6 years which equates 10.3 Million miles driven by an average passenger vehicle

LEDS & ENERGY EFFICIENCY = STRONGER COMMUNITIES

Spend less on power-- have more to spend in your local community

- **Free LED Delivery Program --** **Delivered 3000 LEDs to the porches of 375 homes**
- **Holiday Giveaway | Guttenberg, Strawberry Point, Garnavillo** **275 households in need**
- **Swap Stations**
 - Motor Mill
 - Osborne Nature Center
 - Clayton County Food Shelf
 - Guttenberg Library
- **Holiday String Light Collection**
 - County partnerships



THANK YOU TO



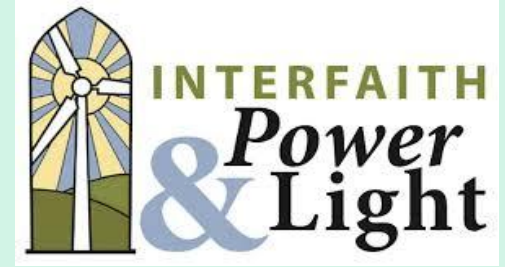
Clayton County
IOWA

**The Clayton County
Board of
Supervisors is
generously covering
transportation costs
of CFL bulbs and
holiday string lights
to the Winneshiek
County Recycling
Center!**



COOL CONGREGATIONS

- CoolCongregations.org
- “A religious response to global warming”
- Measure and reduce carbon footprint by at least 10%-certification
- Promote a culture of sustainability within the church and spread this awareness to the homes

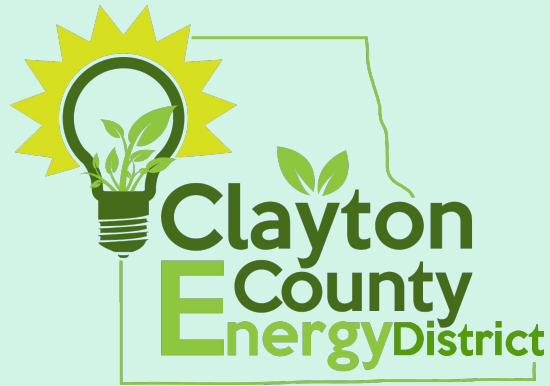




ENERGY REDUCTION

- Father Haugen noticed an overly expensive electric and natural gas bill
 - Utility units ran 100% nonstop
- Put in a programmable thermostat
- LED Transition in Church, Parish Hall & Exterior Lighting
 - Major improvements in bills!

	2016/ 2017	2017/ 2018	SAVINGS:
Gas Total	13,322 therms	6,952 therms	<i>6,370 therms!</i>
Electric Total	33,616 kWh	5,951 kWh	<i>27,665 kWh!</i>



PUBLIC ENGAGEMENT/ INFORMATION AND LEARNING IN A PANDEMIC

MONTHLY *VIRTUAL* LUNCH & LEARNS

- **April/Earth Day** | Cool Congregations
- **July** | Community Owned Solar - Osage Municipal Utility Solar Farm with Utility Manager Josh Byrnes
- **August** | Summer Intern Reports
- **September** | Local Weather Patterns & Climate Change
- **October** | West Union Shared Geothermal System - A model for others?
- **October** | Clean Energy Tour for Local Leaders
- **November** | Joint Energy District & the Ratepayer Bill of Rights
- **December** | EV Charging Stations & Clayton County Tourism



5TH GRADE LED CURRICULUM & BULB DELIVERY



[LED efficiency demonstration](#)

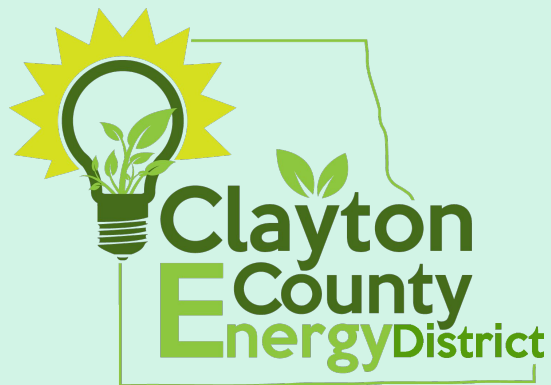
- **95 students in 4 5th Grade Classrooms**
 - Edgewood-Colesburg
 - Clayton Ridge
 - Postville

**The Clayton County
Energy District's
5th Grade
Led Giveaway!**



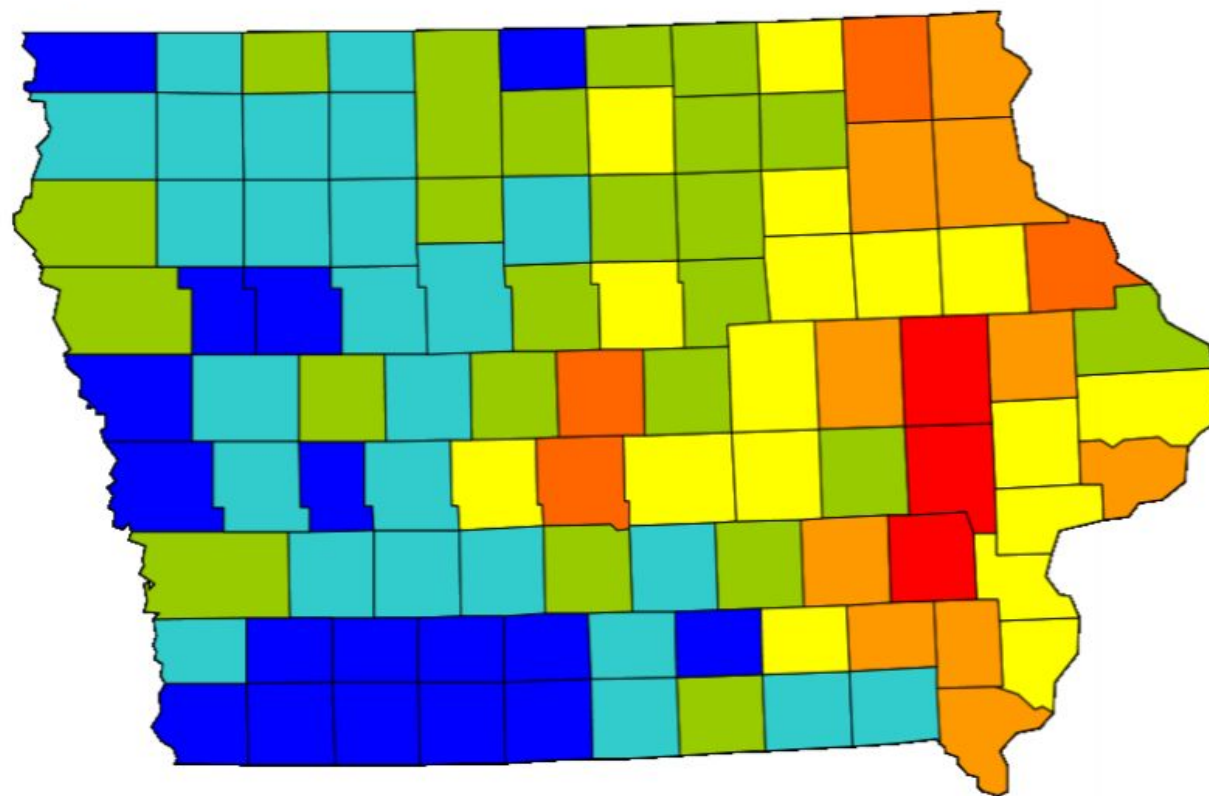
**TIME TO SAVE ENERGY!
Install your new LED's ASAP.**





MARKET TRANSFORMATION

2020



Number of Installations				
1-5	6-15	16-50	51-100	
101-200	201-400	401 or More		

Note: Reflects applications awarded tax credits as of December 11, 2020

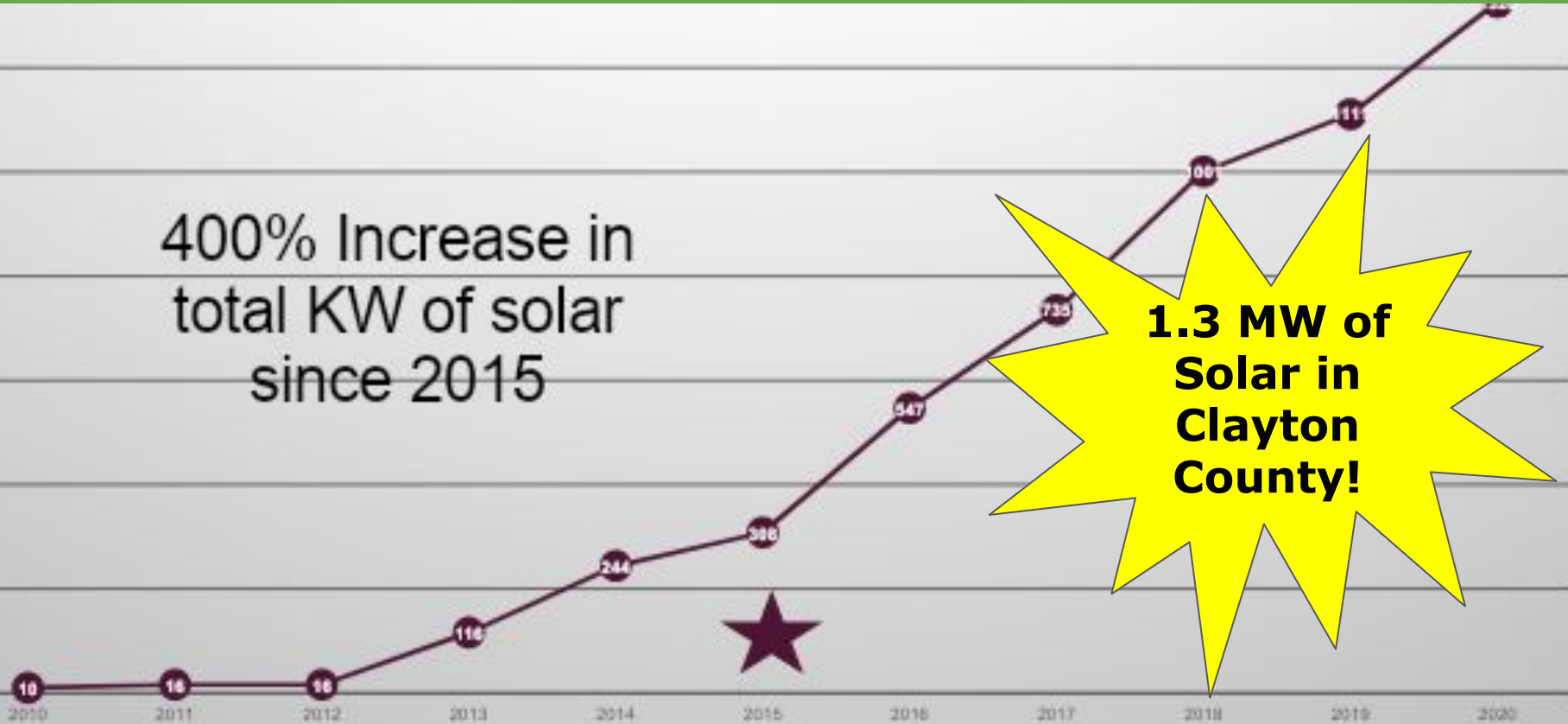
Source: Iowa Department of Revenue CACTAS Award Database

Year	# of Installs	Total KW	Cumulative Installments	Cumulative KW
2010	1	6	1	6
2011	1	6	2	12
2012	0	0	2	12
2013	6	100.3	8	112.3
2014	7	127.3	15	239.6
2015	8	109.4	23	349
2016	18	238.4	41	587.4
2017	12	188.4	53	775.8
2018	16	265.2	69	1041
2019	10	114.9	79	1155.9
2020	4	170.5	83	1326.4
Total	83	1326.4	83	1326.4

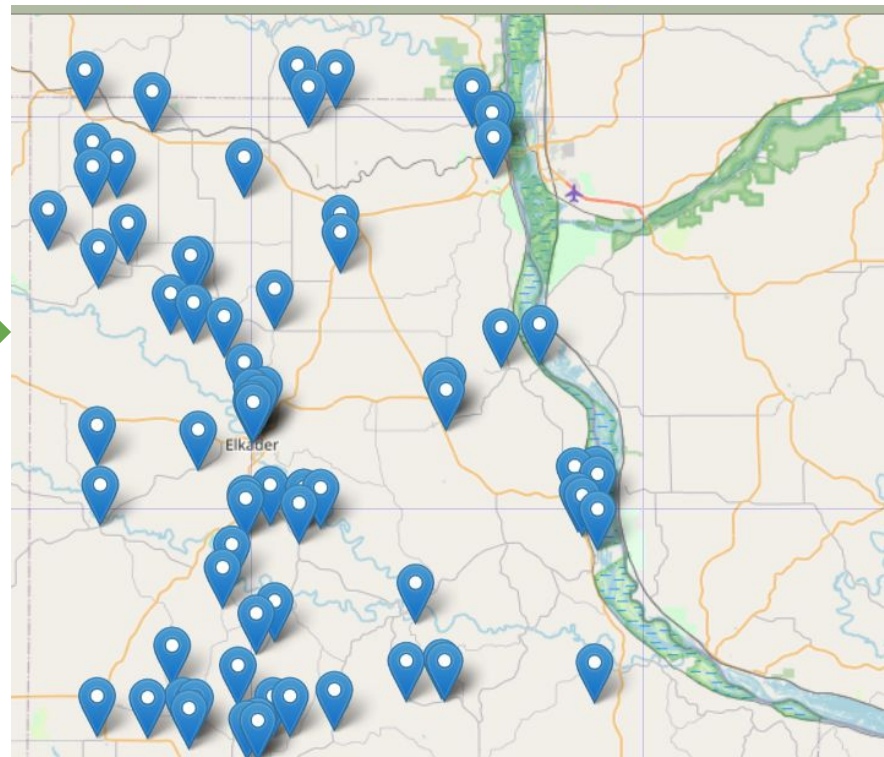
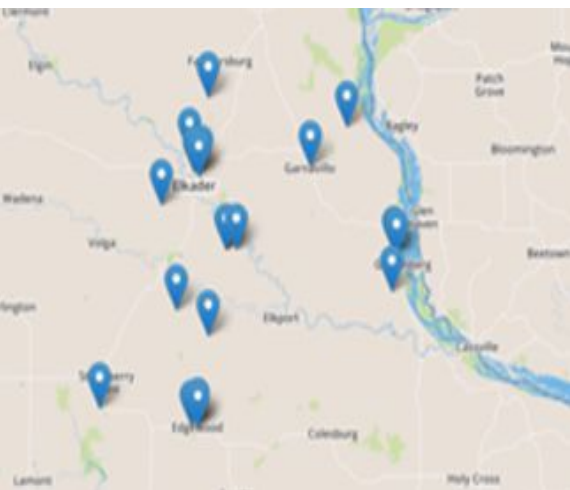
TOTAL KW OF SOLAR IN CLAYTON COUNTY

400% Increase in
total KW of solar
since 2015

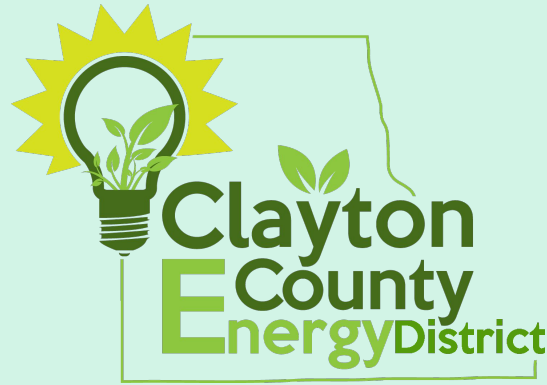
**1.3 MW of
Solar in
Clayton
County!**



20 SOLAR POINTS TO **75** SOLAR POINTS!



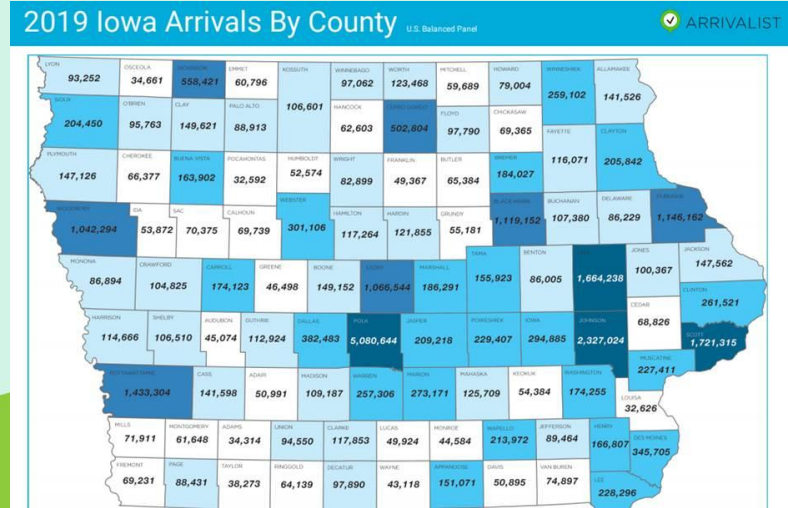
MAP AVAILABLE ONLINE!



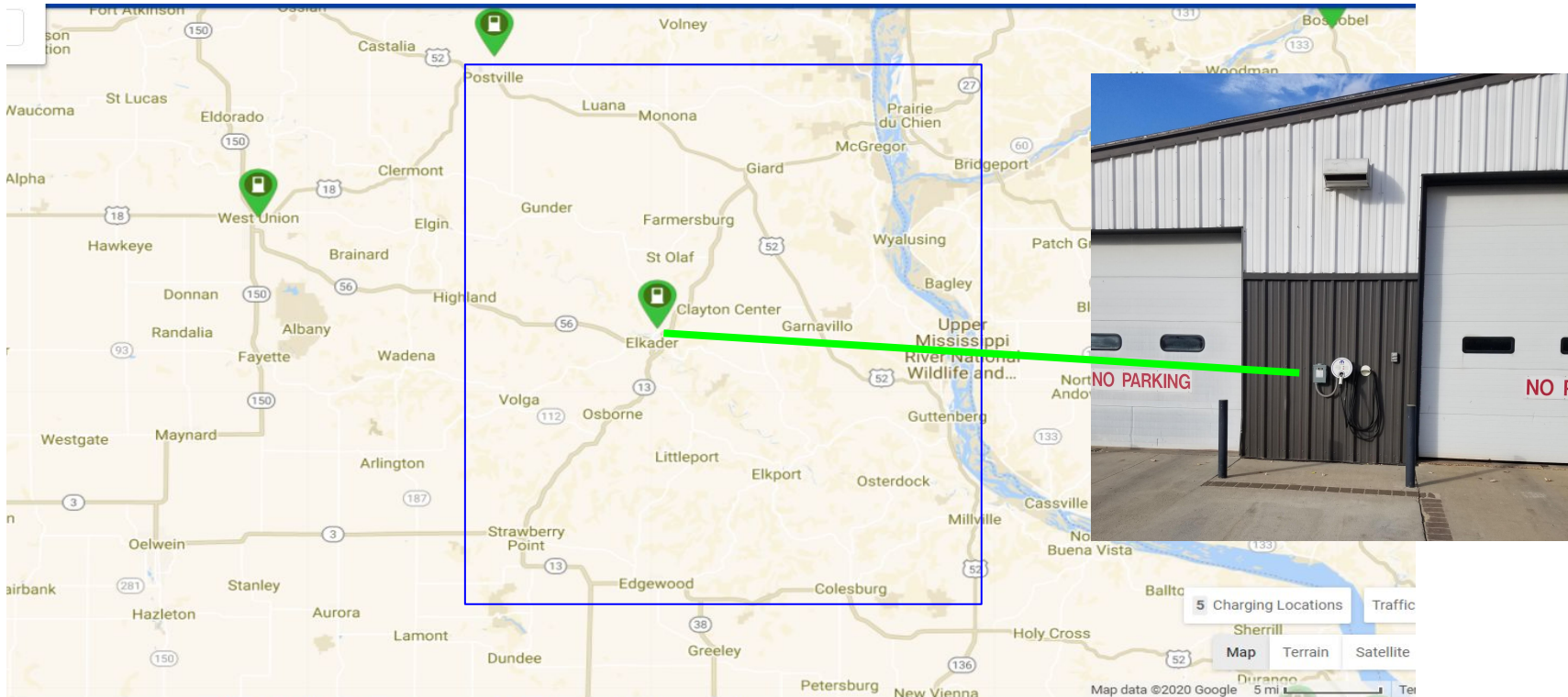
CHANGING THE CLIMATE IN CLAYTON COUNTY'S EV CHARGING STATION DESERT

CLAYTON COUNTY'S TOURISM INDUSTRY

- Hwy 3 & 13 in Strawberry Point see 2,800 cars/day
- 13 & High St Elkader 4650/day
- 2019 Arrivals = almost 206,000
- Clayton County's scenic byways are rated 2nd most scenic in the State, next to Allamakee County



CHARGING STATION DESERT



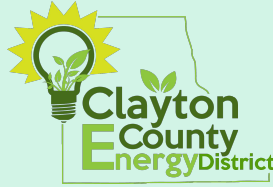
CONNECTING CLEAN ENERGY TRANSITION TO CC TOURISM

- Electric cars can range up to 200 miles before charging
- Total project cost: \$67,000
 - (5) Dual Port Level 2 w/ up to 19.2 kW of charging output EV Charging Stations \$8300/station
 - Can charge up to 80 miles/hour



UPPER MISSISSIPPI
GAMING
CORPORATION

COMMUNITY PARTNERS



City councils of Elkader, McGregor, Strawberry Point, Guttenberg & Marquette

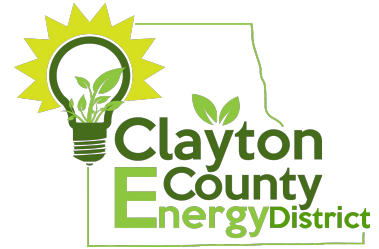
- 1) Installation Cost & Provide location for the charger
- 2) Provide the power for the station & insure cell data access network services
- 3) Accept transfer of ownership

CONNECTING CLEAN ENERGY TRANSITION TO CC TOURISM

Strawberry Point



Elkader

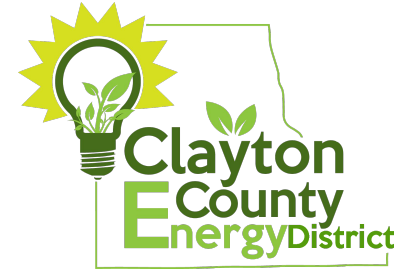


CONNECTING CLEAN ENERGY TRANSITION TO CC TOURISM

Guttenberg



McGregor



CONNECTING CLEAN ENERGY TRANSITION TO CC TOURISM





ADVOCATING & INCLUDING EVERYONE



PROTECTING IOWA'S ELECTRIC RATEPAYERS

CLEAN POWER
To, Of, and For the People



Iowans Need a Ratepayer Bill of Rights



RATEPAYER BILL OF RIGHTS

CLEAN POWER
TO, OF & FOR THE PEOPLE

- I _____
- II _____
- III _____
- IV _____
- V _____
- VI _____
- VII _____
- VIII _____
- IX _____
- X _____

- **Energy Efficiency**
- **Consumer-owned generation**
- **Community-owned clean energy and distribution**
- **Consumer protections, transparency, and public health**

**Reduce Costs and
Increase Access for Everyone**

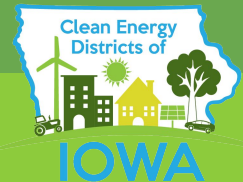


RATEPAYER BILL OF RIGHTS

**CLEAN POWER
TO, OF & FOR THE PEOPLE**

- I _____
- II _____
- III _____
- IV _____
- V _____
- VI _____
- VII _____
- VIII _____
- IX _____
- X _____

Iowans must have the right to access, contribute to, and benefit from a clean energy transition. In order to create a just and liveable Iowa for all, an Energy Ratepayers Bill of Rights is needed today, and for future generations.



VIRTUAL TOUR HELD 10/28/20



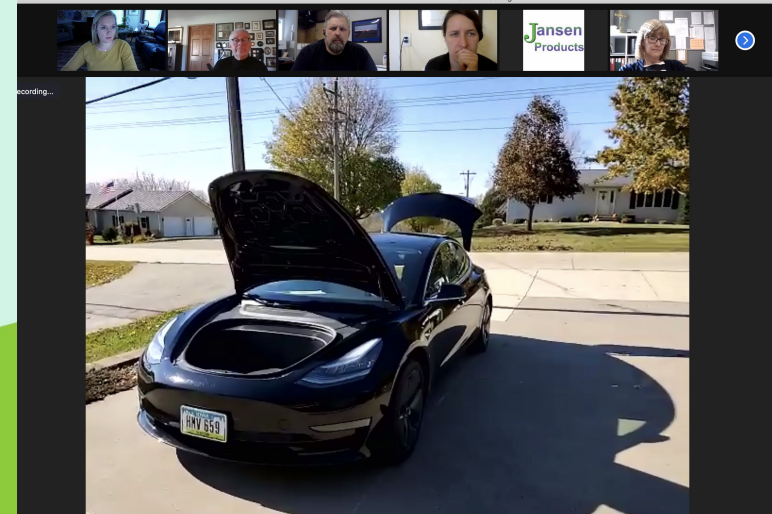
**CLEAN ENERGY
TOUR FOR LEADERS**

 **Clayton
County
Energy District**

VIRTUAL | WED, OCT 28TH | 10:30 AM

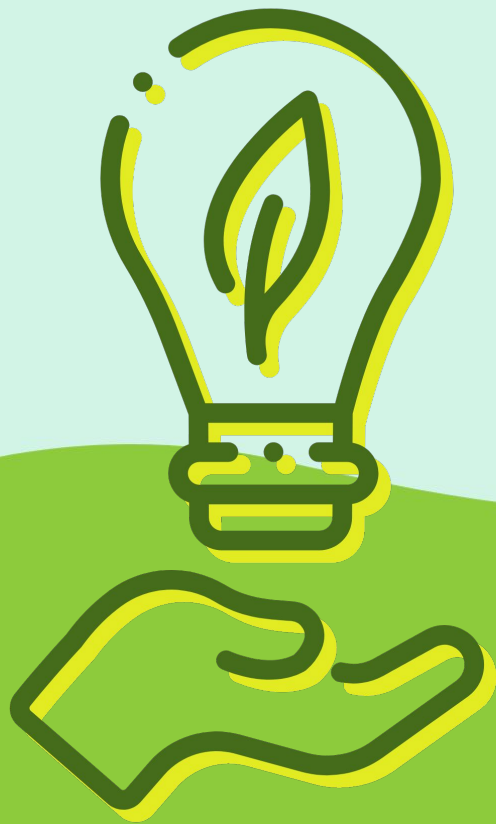
CLEAN ENERGY TOUR FOR COMMUNITY LEADERS

- **Provide clean energy education and updates to community leaders/decision makers**
 - 2 Church Pastors
 - 5 State Reps
 - 8 City Reps including Clerks, Mayors, Council Members, Economic Development Directors, Church Manager, Hospital Coordinator
 - Clayton County Development Group Director
- **Topics:**
 - Project timelines
 - Project financing structures
 - Anticipated savings
 - Carbon emission reductions
 - Community-wide benefits
 - Solar Tax Credits
- **Tour Stops:**
 - St. Joseph Church (Elkader), energy efficiency story
 - Marquette city solar energy transformation
 - Electric vehicle transportation and Clayton County's tourism sector



**Recording available at
claytoncounty.energydistrict.org*

ADVOCACY

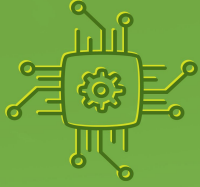


- **Net Metering Codified into Iowa Law - Partnered with Iowa farmers and solar industry**
- **Spoke in organized sessions with federal legislators about the now paused repeal of the Renewable Energy Tax Credits**
- **Working hard at the state level to decouple the State Solar Tax Credits from the Federal; eliminate the 2 year waiting list and to lift the cap to eliminate the wait list**

***Planning + Education +
Market Transformation + Advocacy***

=

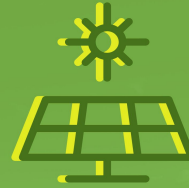
***READY & RESILIENT
COMMUNITIES!***



**HOSTED 8
VIRTUAL
LUNCH &
LEARNS**



**INTRODUCED
COUNTYWIDE
CHURCHES TO THE
ENERGY SAVING
PROGRAM "COOL
CONGREGATIONS"**



**GREW OUR VIRTUAL
SOLAR MAP FROM
26 TO 75 POINTS...
AND GROWING**



**IMPACTED 95 5TH
GRADE STUDENTS
THROUGH LED
EDUCATION &
GIVEAWAY**



**HOSTED
VIRTUAL CLEAN
ENERGY TOUR
FOR LEADERS**



**DELIVERED
3,000 BULBS
TO 375
HOUSEHOLDS**



**HOSTED HOLIDAY LED
GIVEAWAY &
RECYCLED 100S OF
POUNDS OF HOLIDAY
STRING LIGHTS**



**RECEIVED
GRANT TO INSTALL
5 EV CHARGING
STATIONS**

What impresses you about our work??

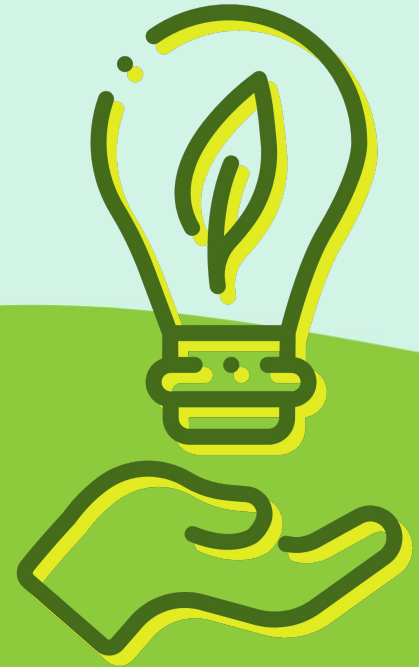
Chat your answer....

What Should Be Next??

Chat your answer....

WHAT'S ON TAP:

- **Beneficial electrification**
 - Advance EV adoption in the heartland
 - Geothermal technology education and promotion
 - DC Fast Charger in Clayton County
- **Energy Planning - Generation & Efficiency**
 - Main Street & Farm energy coaching
 - a return to in-person energy audits
- **Advocacy & Equity**
 - Solar tax credits advocacy
 - RBoR story collection



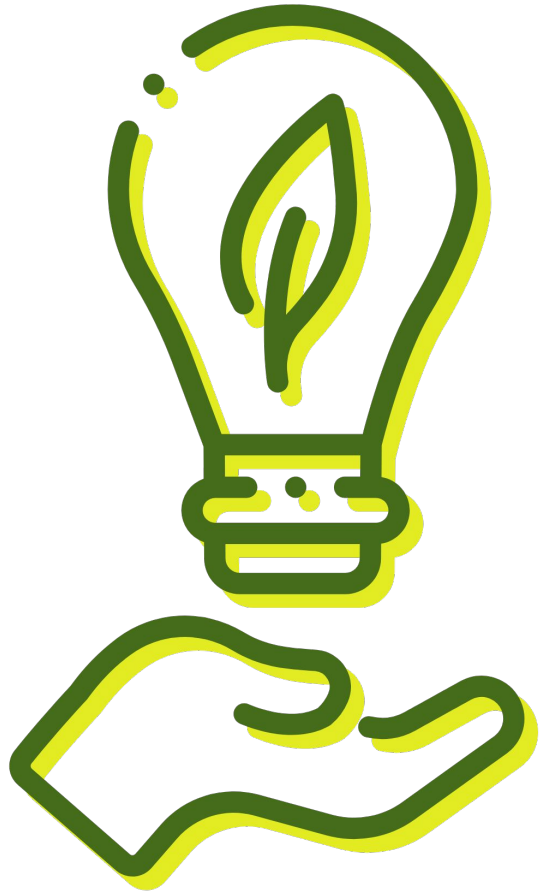
OUR PARTNERS



CITIES OF:
MCGREGOR
ELKADER
STRAWBERRY POINT
MARQUETTE
GUTTENBERG

OUR MEMBERS

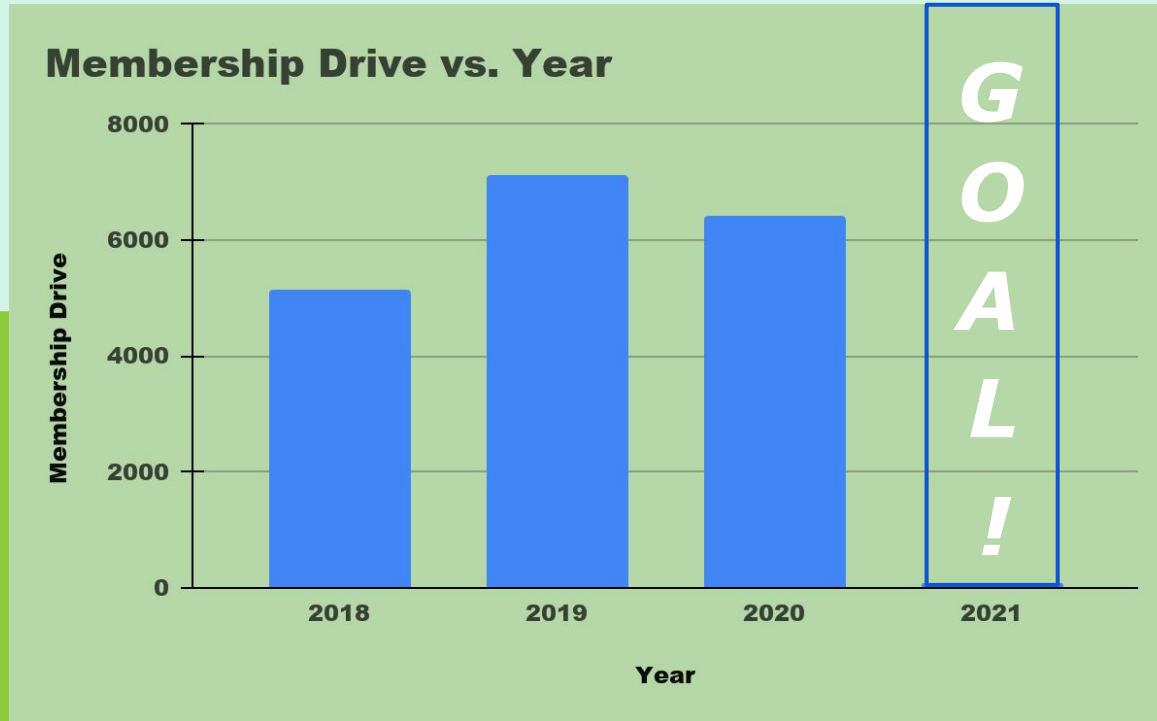




**Thank you for helping
us sustain our
mission.**

**Without the support of
our partners and
donors, our impact
would not be possible.**

DO YOU SHARE OUR VISION & VALUE OUR IMPACT?



The
**Clayton
County
Energy District**
annual

[DONATION
LINK](#)

OR SEND CHECK TO:
Clayton County Energy
District, PO Box 211
Edgewood, IA 52042

GREEN MEETS GREEN
appeal



text "SupportCCED" to 44321