

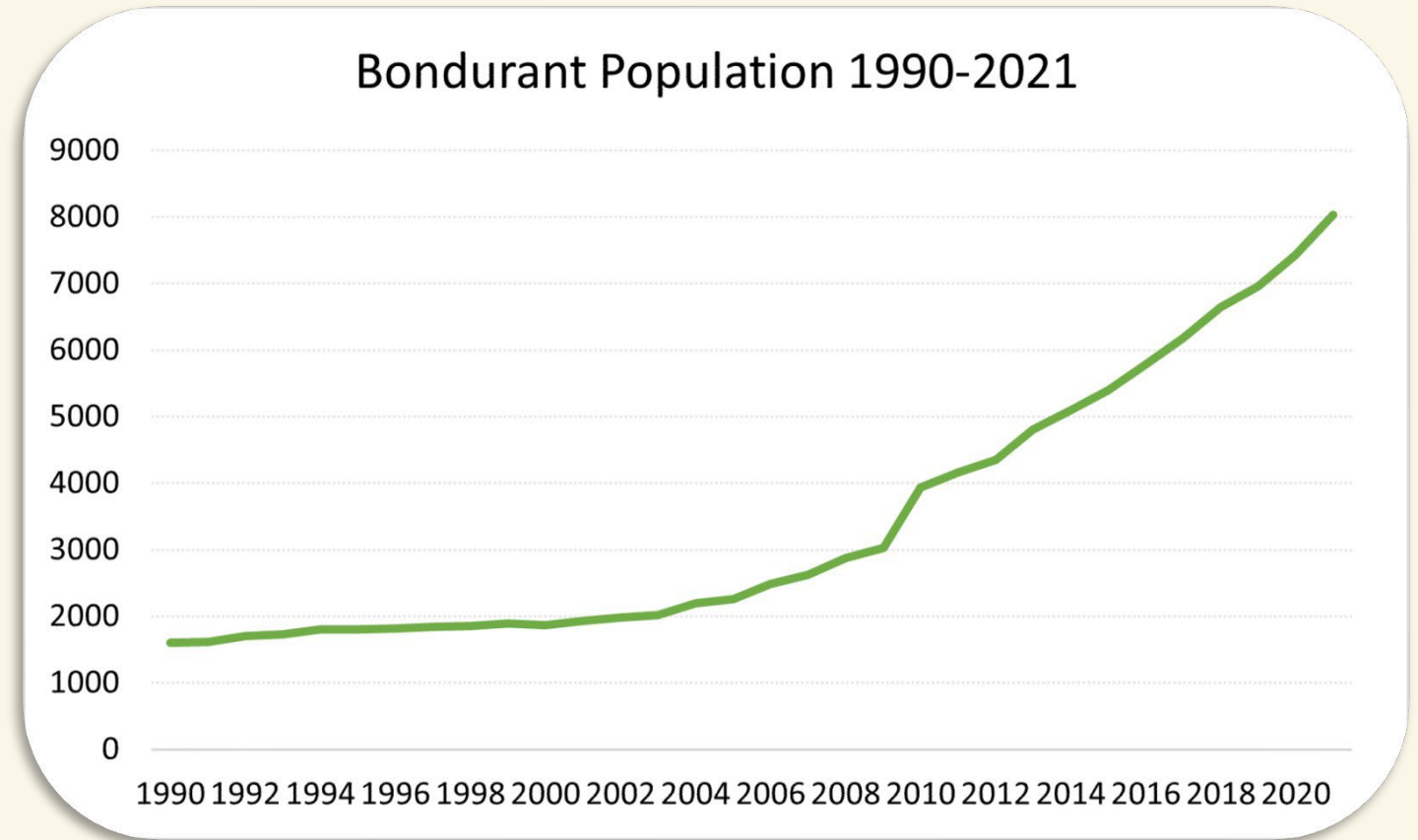


# Bondurant “Green” Initiatives

Miranda Faux, Tomas Hallsby, Patrick Hardy, Olivia Martin, and Anthony Mortale

## Background of the Issue

- Bondurant population **doubled** from 2010 to present
- Bondurant faces a **critical** sustainability crossroads
  - Current actions affect future growth

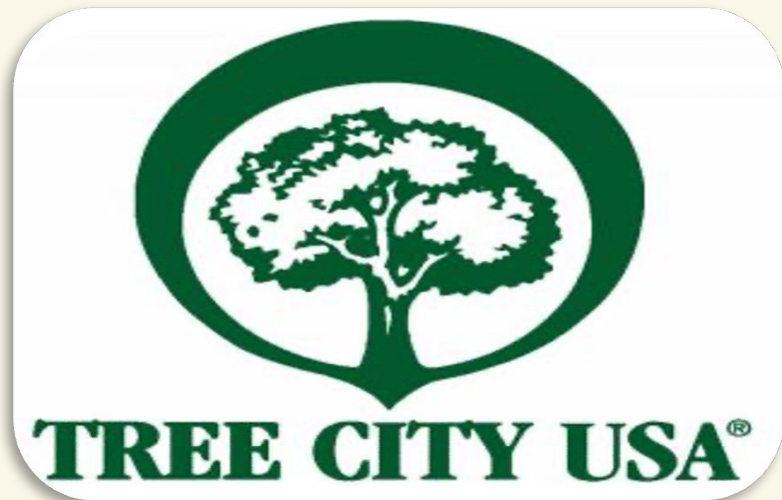




## Current State of the Issue

### Tree Board Committee (Local)

- Consists of 5 members
- Care and maintenance of trees
- Suggests locations for the planting of new trees



### Sustainability Initiatives (County)

- Educates communities on Environmental issues
- Meets Bi-monthly
- Registration required, but is free



# Best Practices in sustainability

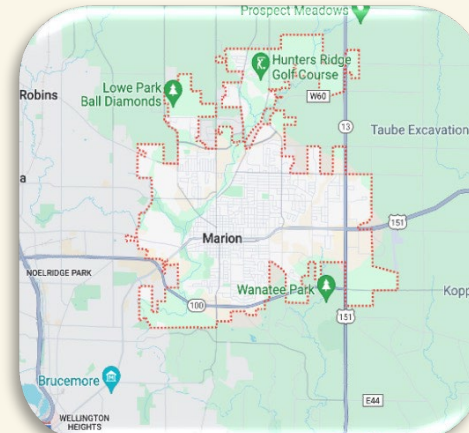
## Linn County, IA



### Sustainability Board

- Professionals from several fields of work
- Internal Sustainability Plan

## Marion, IA



### Parks and Rec

- 21 parks
- 29 Green Spaces
- 1000 acres for pollinators
- Master Trails Plan, 2014

## Johnson County, IA



### LEED Certification

- Water/Energy Efficiency
- Atmosphere/ Indoor Air Quality
- Buildings and Ambulances

# Policy Recommendation: Sustainability Commission

## Educate Residents

- Reduce personal environmental impact
- Promote environmental conservation and practices

## Commission Foundation

- 2 city officials, 1 resident
- 4-year term, unpaid
- Additional seats dependent on population
  - Increases in multiples of 3



# Policy Recommendation: Increase planting of trees and native grasses



## **Plant** more trees near parks and on city streets

- Shaded roads save 60% of repaving costs
- One tree can reduce stormwater runoff by 845 gallons annually
- Provide shade in parks, promote mental well-being



## **Utilize** low maintenance grasses

- Save \$ with less fertilizer, mowing, and watering costs
- Stay green longer and survive in harsher conditions



## **Create** prairie strips

- 1/10th acre from farmland to prairie = \$26-33/year
- Helps prevent flooding
- Reduces sediment and nutrient runoff by more than 90%
- Habitat for birds and pollinators



# Policy Recommendation: City Plan



## Develop a green municipal building standard like LEED

- Build new city campus in accordance to standards
- LEED certification is unnecessary and expensive (~\$58,250 for campus)

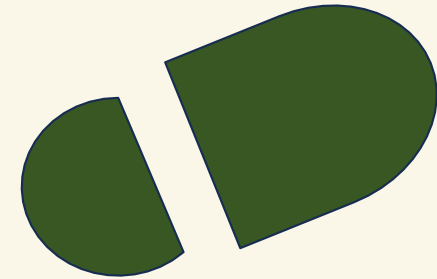
## Power city buildings with renewables

- Solar array at civic campus: 2 acres, 32,375 kWh/day, \$56,000-\$87,000
- Mixed use land?

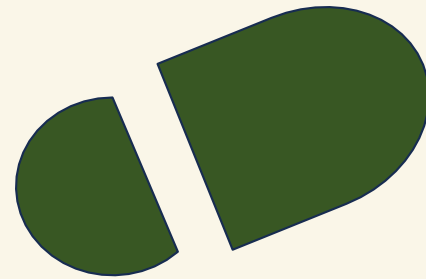
## Create an electric city fleet

- EGO Power+ Z6 Electric Mower: \$7000
- Transition vehicle fleet alongside infrastructure development

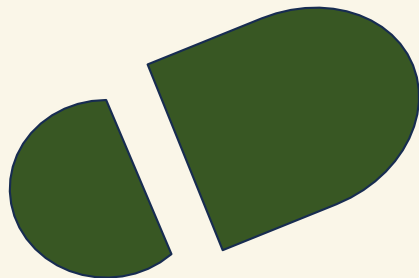
## Next Steps for the City of Bondurant



Hold a meeting to plan the sustainability commission and get input from community



Meet with contractors to determine pricing for sustainable building metrics



Get into contact with vendors for trees, grasses, and native plants



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