



ELEVATE

# Innovative Approaches to Combine Solar, Storage, and Electrification on Affordable Multifamily Housing in Wisconsin

August 10, 2023

# Agenda

- Introduction to Elevate
- What kinds of work are we doing in WI, and why?
- Project Highlights
  - Leland Drive
  - Villa West Apartments
  - Lakeview Village
  - Southridge Apartments
- Barriers
- Solutions



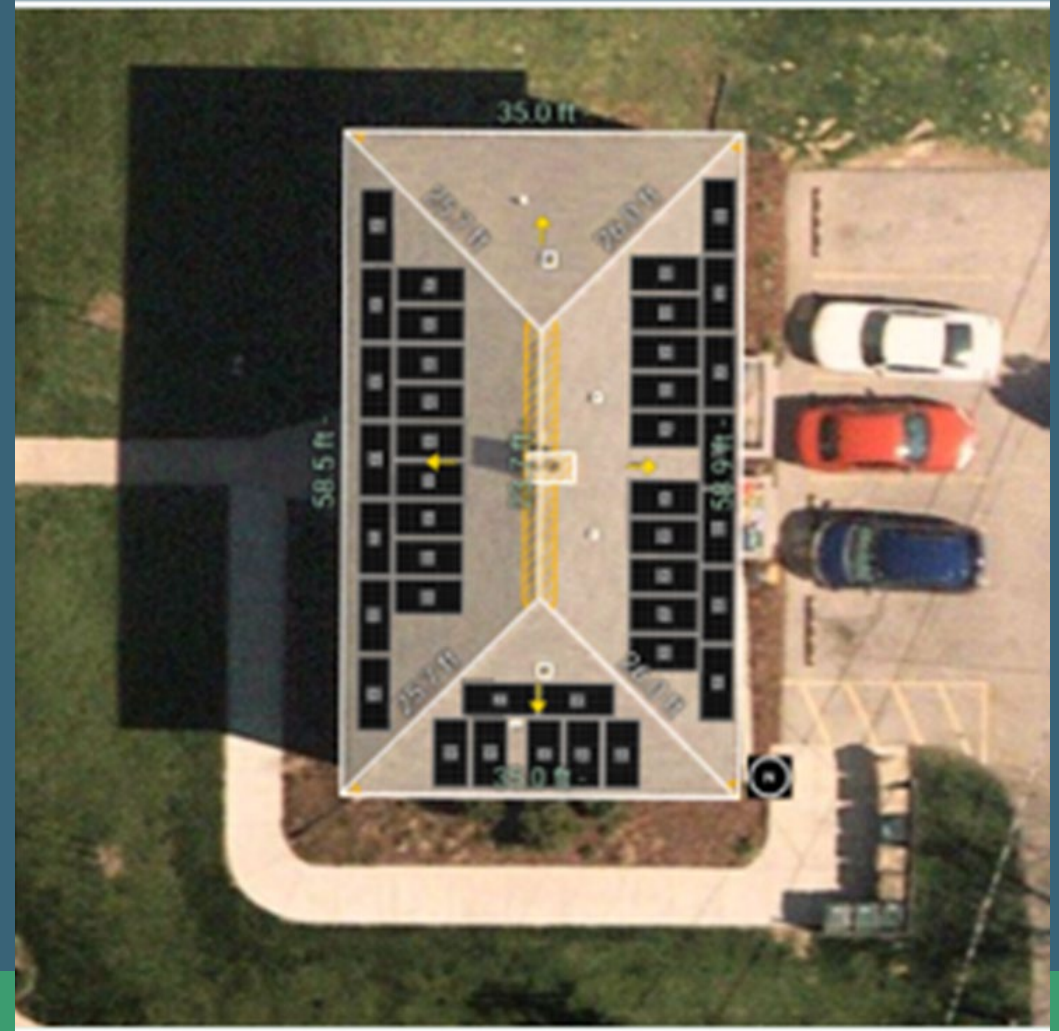
## OUR MISSION

*We design and implement programs that reduce costs, protect people and the environment, and ensure the benefits of clean and efficient energy use reach those who need them most.*



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# Leland Dr, Madison



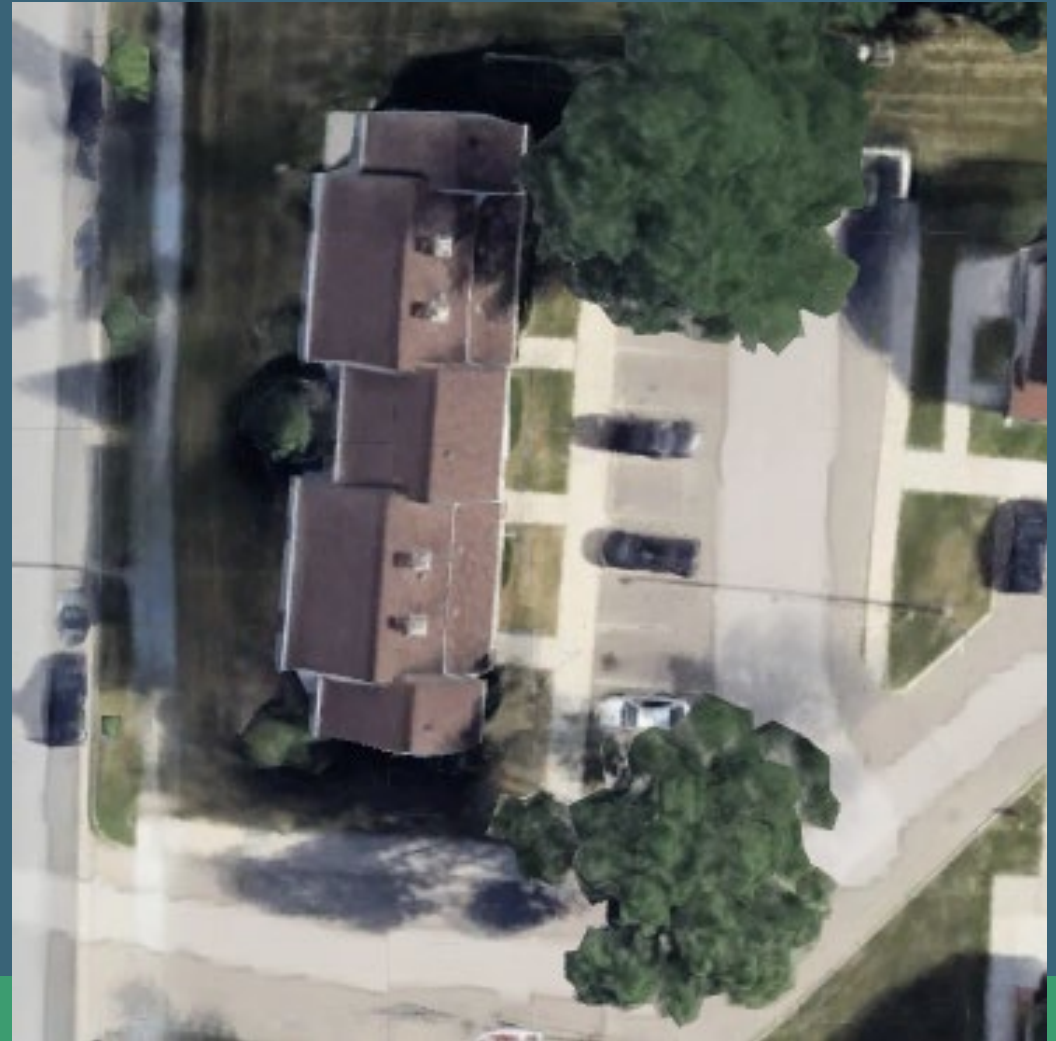
# Challenges

- Presenting unique approach to Madison Gas & Electric (MG&E)
  - Tenant heating/cooling typically not allowed on common meter
    - Exception for centralized systems
- High electrical costs
  - Panel upgrades, meter relocations, and service upgrade



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# Southridge Village, Madison



# Challenges

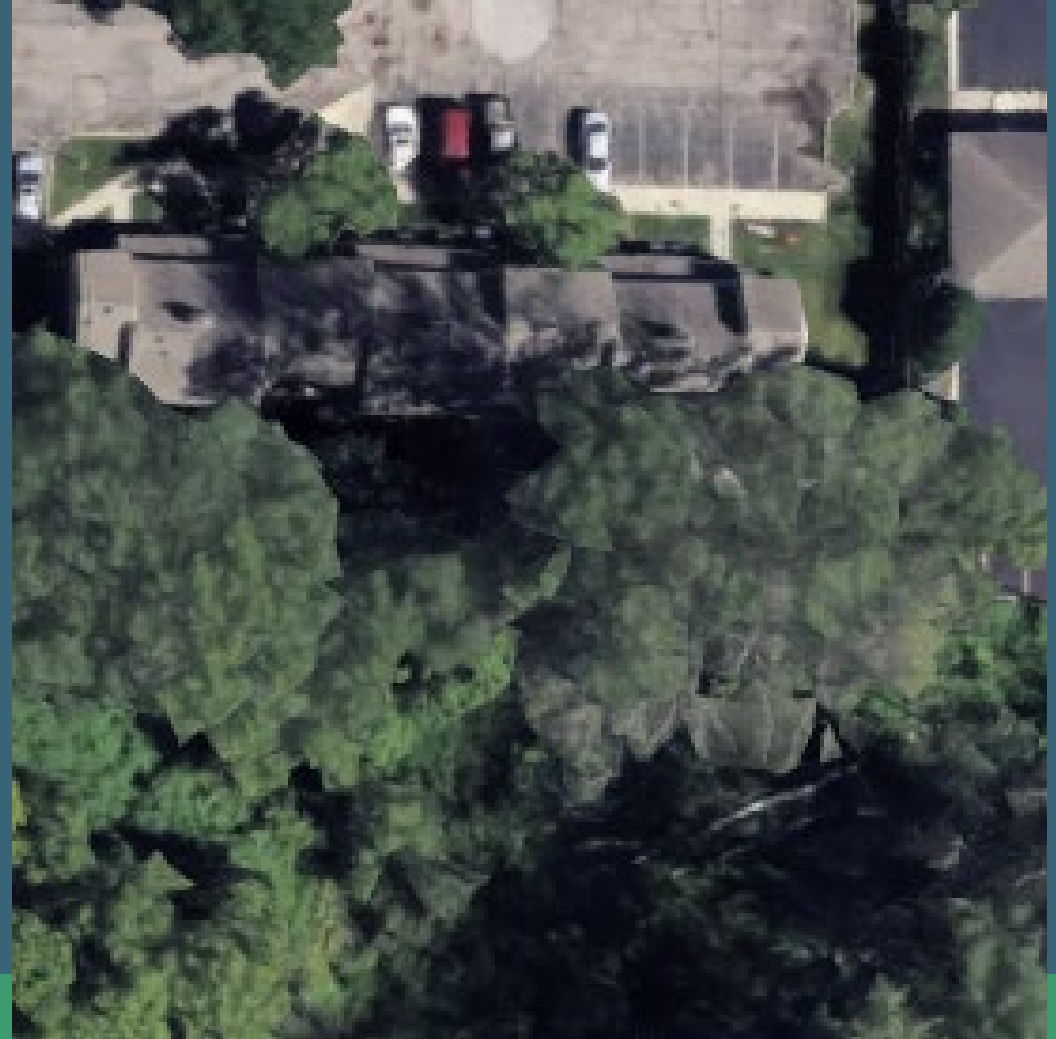
- High cost of individual wiring
  - Pivot to new technology
- Piloting new solar tech
  - Need buy-in from city and utility
  - Find and train vendor willing to experiment





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# Lakeview Village, Middleton





# Site Overview



# Challenges

- Poor solar access
  - Carport solution requires extensive trenching
- Installing new common meter
  - Using exception for central heating



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# Villa West, Green Bay



# Challenges

- Battery design and placement
- Feasibility of full microgrid



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# Challenges and Solutions

# Challenges and Solutions

- Getting benefits to tenants
  - Creative metering and/or increased project cost
- Electrical upgrades
  - Coordinate multiple contractors
- Increased electrical loads from building electrification
  - Efficiency then solar
- Site suitability
  - Creative solar layouts
- Funding
  - Tax benefits, incentives, grants

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