

Goals and Strategies for Deep Decarbonization at MGE

Presented at:

Dane County Climate Action Council Meeting

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Energy 2030 and Beyond



Carbon Reduction Goals

- 20% reduction¹ in carbon emissions realized in 2015 (previous goal)
- 40% reduction¹ in carbon emissions by 2030
- At least 80% reduction in carbon emissions by 2050

If we can go further faster, we will.

Renewable Energy Goals

- 25% by 2025
- 30% by 2030

¹ Baseline year of 2005

Cleaner Energy



- Ongoing transition from coal and investments in renewable energy
 - Reduced our ownership share in Columbia Energy Center
 - Increasing MGE-owned wind resources > 200%
 - Constructing 66-megawatt (MW) Saratoga Wind Farm
 - Purchased portion of Forward Energy Center Wind Farm
 - Adding 100 MW of solar from two Wisconsin projects, if approved
 - 50MW from Badger Hollow and 50MW from Two Creeks
 - Pursuing second Shared Solar project
 - Renewable Energy Rider providing opportunities to partner with industrial/commercial customers for renewable projects

1 Baseline year of 2005

Electrification of Transportation



- Growing the Use of Electric Vehicles (EVs)
 - MGE continues to grow our public charging network
 - 29 MGE-owned charging stations in Madison area powered by 100% wind
 - Includes 2 DC Fast Chargers and 2 more expected soon
 - Overall charging network
 - 50 charging stations, including 7 DC Fast Chargers + Tesla
 - MGE's home charging program, Charge@Home
 - Also work with multifamily properties, workplaces, fleet customers
 - Partnerships to promote deep discounts on EVs
 - Partnered to secure funding and to support charging infrastructure for three all-electric buses at Madison Metro Transit

Energy Efficiency



- Smart thermostat program – MGE is conducting a pilot program for reducing peak demand via smart thermostats
- Sense Home Energy Monitor – MGE is conducting a pilot with customers using the Sense home energy monitor technology to reduce their use
- Shared Savings program – MGE provides capital for qualified efficiency projects, which are payed back via energy savings
- On Demand Savings program – MGE works with large customers to reduce their peak energy use

Visit energy2030together.com to learn more.