WHAT DOES A 100% RENEWABLE ENERGY MADISON LOOK LIKE TO YOU?

PUBLIC KICK-OFF MEETING SEPTEMBER 27, 2017







WELCOME

Envisioning 100% Renewable Energy



SOLAR ENERGY PROGRAM



THE WORLD HAS CHANGED -- MADISON IS ALL IN





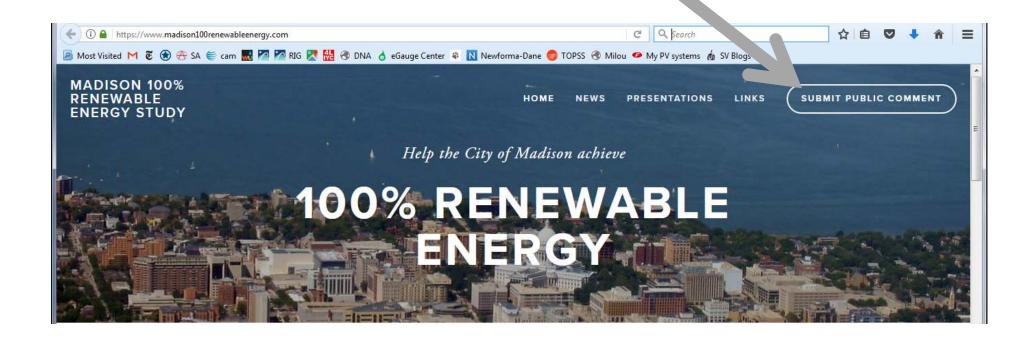
TONIGHT'S AGENDA

- Welcome
- Project Description/Tour of Renewable City Efforts (5 min)
- Thought Piece: Envisioning the Goal (5 min)
- Public Comment #1 Reducing Energy Use (20 min)
- Public Comment #2 Renewable Energy (20 min)
- Public Comment #3 Transportation (20 min)
- Public Comment #4 Community Connections (20 min)
- Special Guest (20 min)
- Next steps and wrap up (10 min)



WE WANT YOUR INPUT FOR 100% RENEWABLE MADISON

Submit comments at this link through Nov 17th

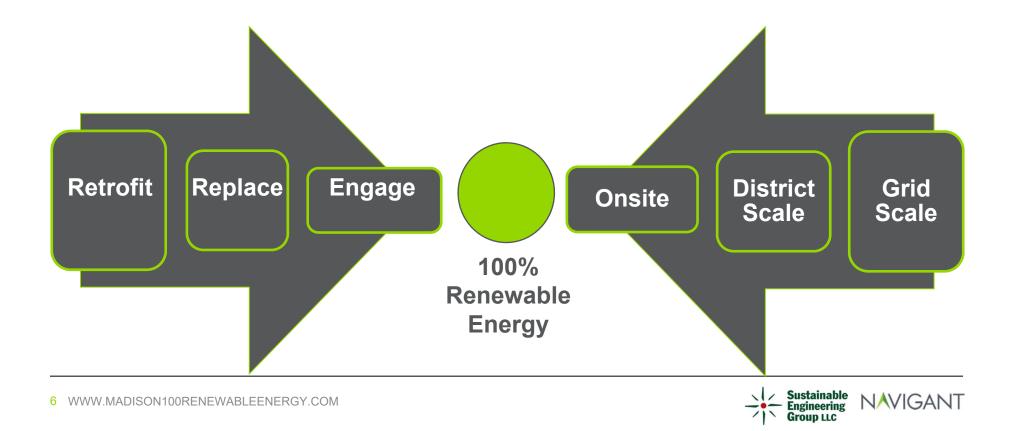




ACHIEVING 100% RENEWABLE ENERGY – NET ZERO CARBON

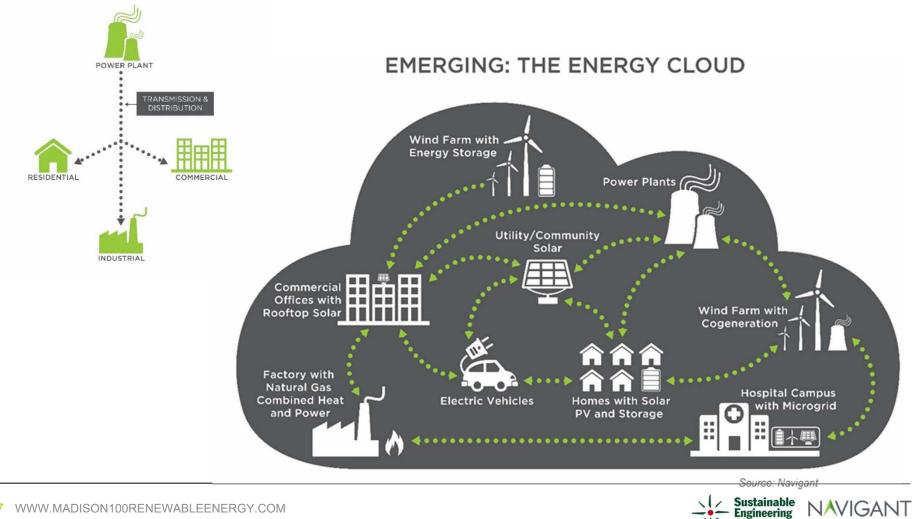
Reduce Consumption

Add Renewable Energy



HOW DO WE ENACT ENERGY TRANSFORMATION?

TODAY: ONE-WAY POWER SYSTEM



Group LLC

AUSTIN, TEXAS HAS ACHIEVED 31% RENEWABLES AND LOOKING TO INCREASE TO 55% BY 2025.

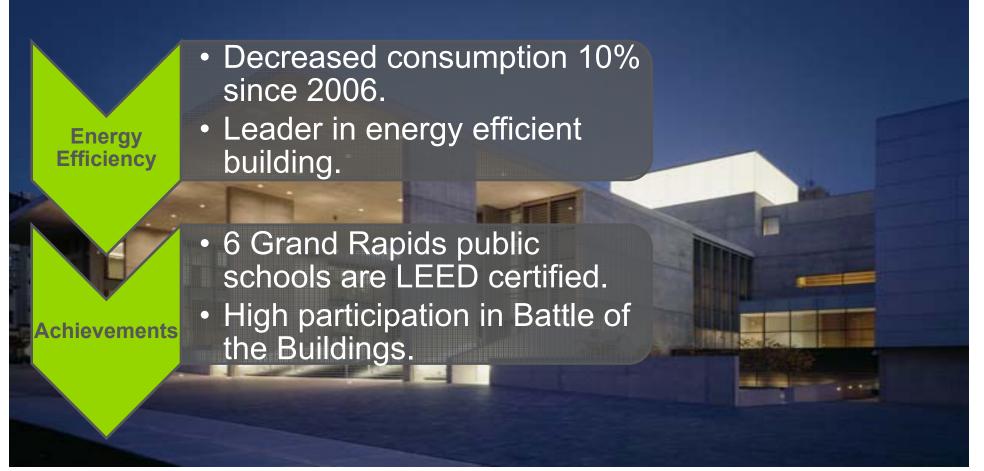


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Sustainable Engineering Group LLC

GRAND RAPIDS, MICHIGAN – REDUCING ENERGY CONSUMPTION THROUGH HIGH PERFORMANCE BUILDINGS



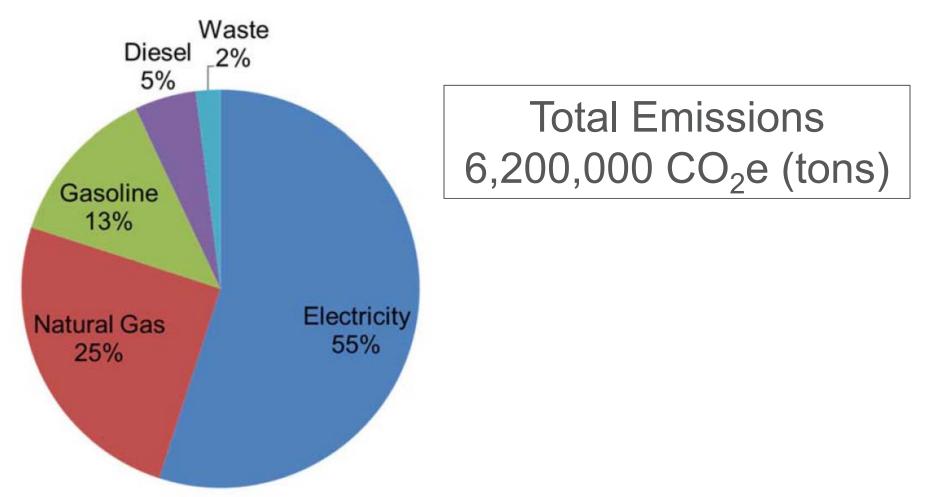


COLUMBUS, OHIO PURSUING SMART CITY STRATEGY WITH RENEWABLES AND TRANSPORTATION

Image: Contract of the second seco	Since the second
Traffic Engineerir	 Connected Vehicles Multimodal Trip Planning Enhanced parking
Charging Infrastructu	 Investment from AEP Ohio DC fast chargers, level 2 smart chargers



SO WHAT DOES THIS MEAN FOR MADISON? MADISON'S ANNUAL CARBON FOOTPRINT: BY FUEL

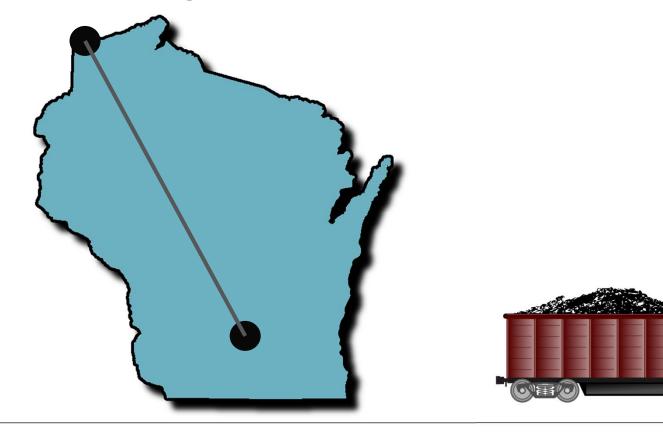


*Data obtained from 'Madison Community Operations 2014 Carbon Emissions Inventory'



SO WHAT DOES THIS MEAN FOR MADISON? CITY OF MADISON'S ANNUAL CARBON FOOTPRINT

 $6,200,000 \text{ CO}_2\text{e}$ (tons) = 30,000 rail cars of coal stretching from Madison to Superior each year.





100% RENEWABLE THOUGHT EXPERIMENT

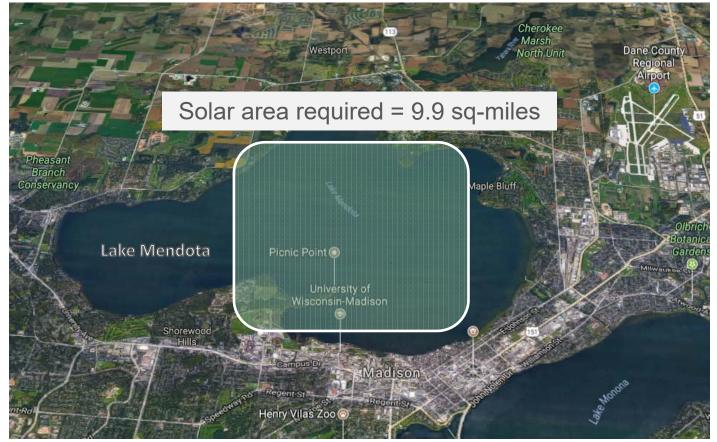
• How many wind turbines would Madison need to produce all electricity needs from wind power?





100% RENEWABLE THOUGHT EXPERIMENT

 How much solar would Madison need to produce all electric needs from solar power?





ENVISIONING THE GOAL – THOUGHT EXERCISE AND COMMENT

What is your day like?

What is your home like?

What about your workplace?

What transportation do you use?

Any other ideas?

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PUBLIC COMMENT #1 - REDUCING ENERGY USE

• What opportunities should we consider to reduce energy consumption?

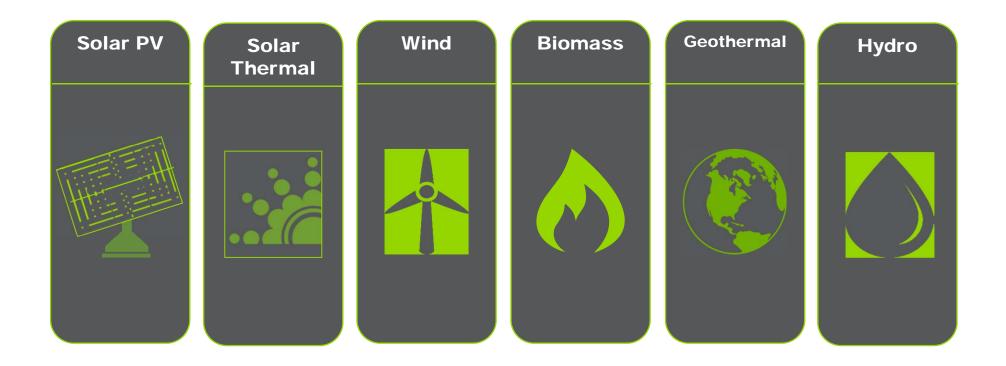
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PUBLIC COMMENT #2 - RENEWABLE TECHNOLOGIES

What technologies should we consider for achieving 100% renewable energy?







PUBLIC COMMENT #3 -- WHAT STRATEGIES SHOULD WE CONSIDER FOR TRANSPORTATION?





PUBLIC COMMENT #4 - WHAT COMMUNITY PARTNERS ARE IMPORTANT TO ACCOMPLISHING THIS GOAL?



Photo: Sunset Village Ice Cream Social



IMPORTANT NEXT STEPS TO STAY INVOLVED



- Tell your friends, family and people you know.
- Engage your policy makers.
- Stay tuned for project updates and the next public meeting!





THANK YOU FOR ATTENDING!

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