



Madison Sustainability

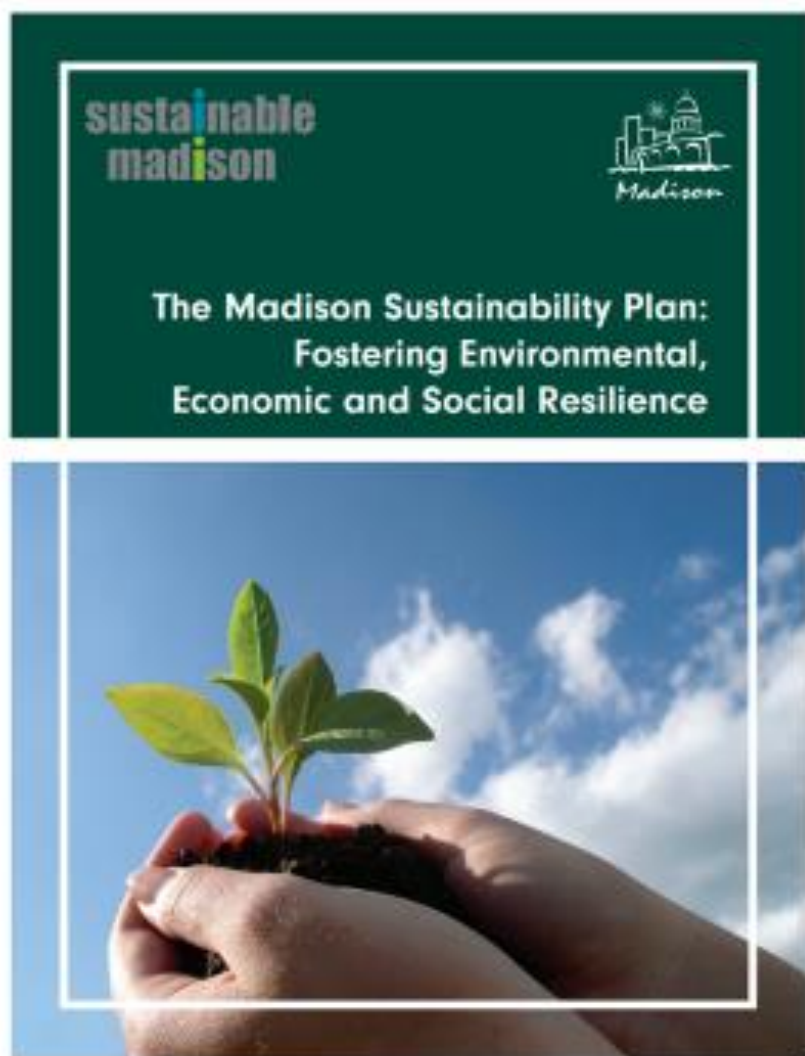
Solid Waste Advisory Committee

Thursday, May 2, 2019





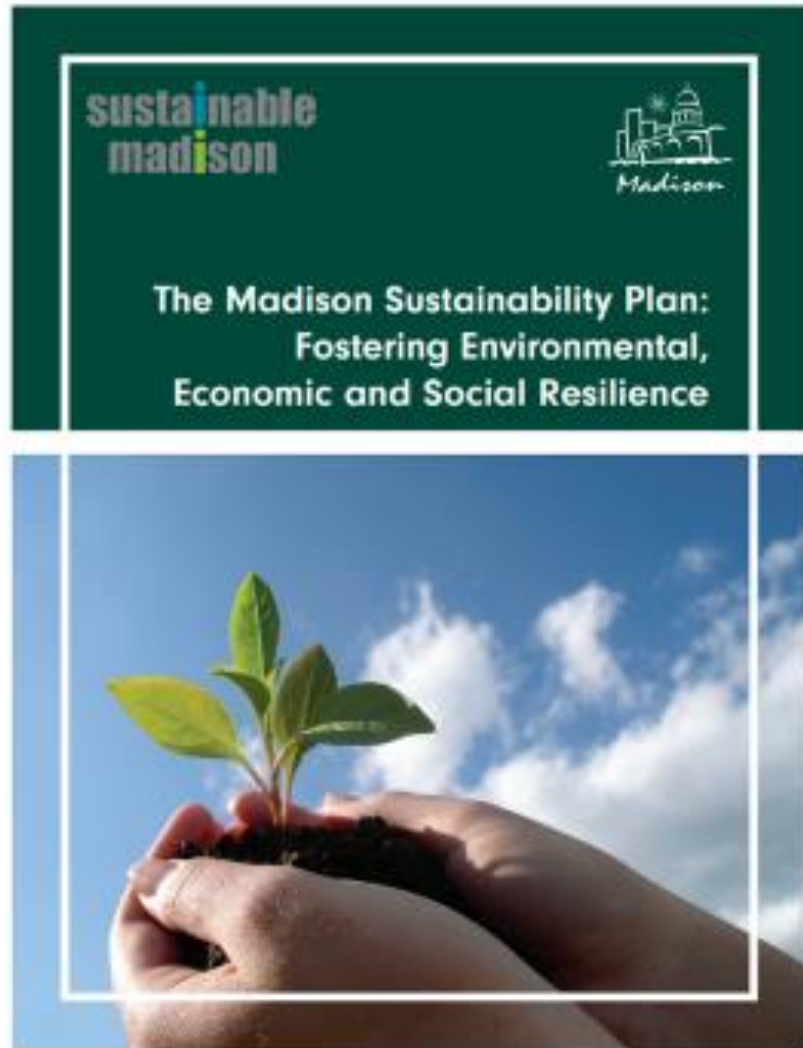
Madison Sustainability



	7	Natural Systems
	18	Planning & Design
	24	Transportation
	32	Carbon & Energy
	40	Economic Development
	48	Employment & Workforce Development
	55	Education
	61	Affordable Housing
	68	Health
	76	Arts, Design & Culture



Madison Sustainability



Natural Systems

Goal 6: Prevent Solid Waste from Entering Landfill

Plan, design and construct an anaerobic digester by 2015 and manage an anaerobic digester for all organic waste by 2017.

Actions:

- Develop programs to eliminate organics from landfill.
- Continue to develop a waste pilot project and construction of anaerobic digesters that capture energy from food waste and other organic waste.
- Establish municipal curbside pick-up of organic waste

Carbon & Energy

Goal 5: Obtain 25% of Electricity, Heating, and Transportation Energy from Clean Energy Sources by 2025

Actions:

- Divert urban organic wastes into fuel sources for local bio-digester energy production.



<https://https://imaginemadisonwi.com/document/comprehensive-plan-adopted>

Green & Resilient

Strategy 8: Reduce Landfilled Waste

- Actions: Establish a citywide food scrap recycling program.

Strategy 3: Increase the use and accessibility of energy efficiency upgrades and renewable energy.

- Actions: Implement the Energy Plan to reach the goal of 100% renewable and zero-net carbon emissions.

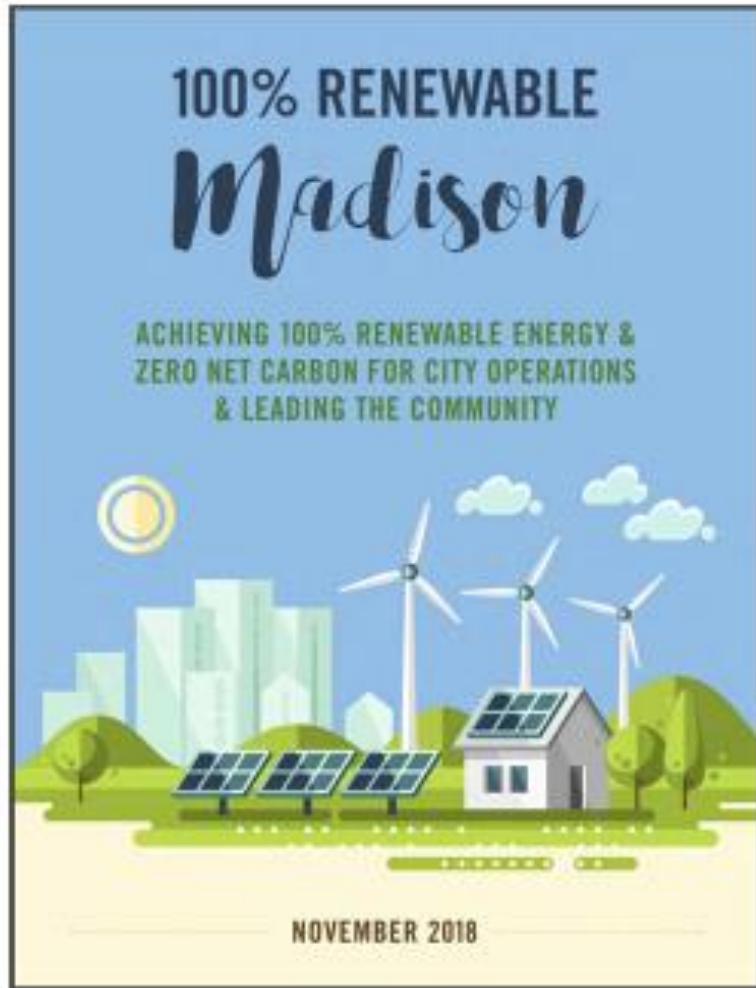
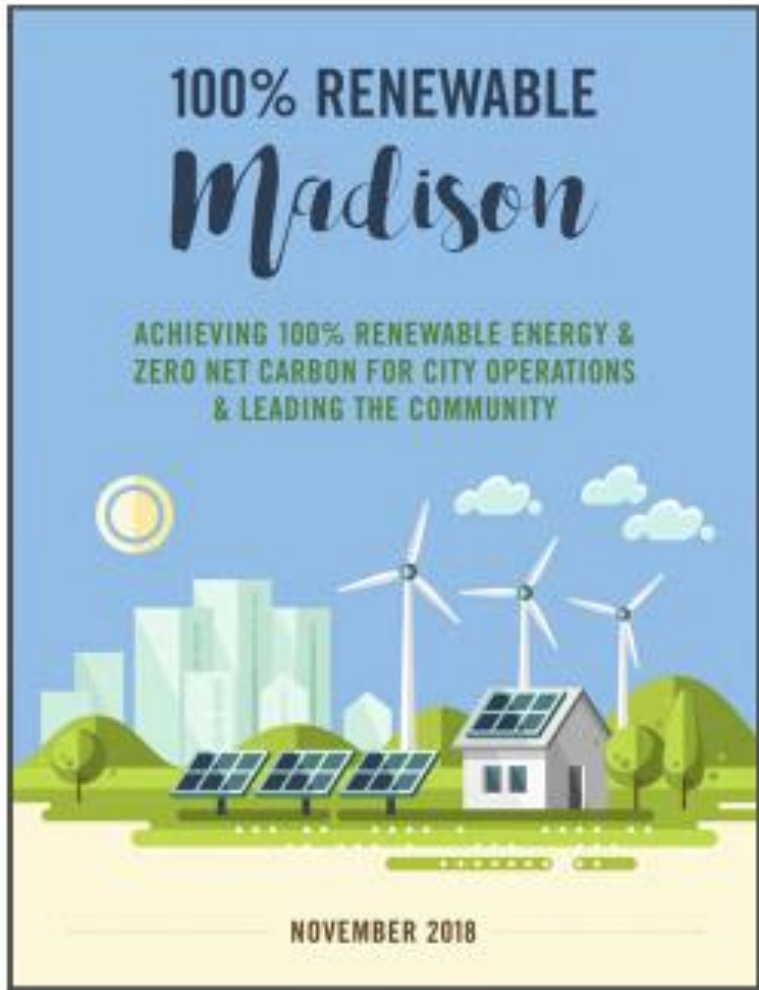


FIGURE 3-1. KEY STRATEGIES FOR ACHIEVING 100% RENEWABLE ENERGY GOAL



SCENARIO 3: 100% Renewable Energy and ZeroNet Carbon by 2030

- 55% carbon reduction with 25% self-generated renewable energy
- 45% RECs and carbon offsets
- \$95M investment over 13 years; IRR 17%
- Cost savings to city of \$78M by 2030
- Reduce total carbon emissions by 426,000 tons by 2030
- Societal co-benefits range from \$21M - \$162M by 2030



4.1.12 Landfill CNG Pilot (pg. 57)

- **Vehicle Fleet Diesel (Municipal, 2016)**
CO₂ (MT) = 6841.3 (8%)

4.1.16 Future Opportunities for Local Biogas Production (pg. 59)

- **Solid Waste (Community, 2014)**
Organics = 20-25% Waste Stream
CH₄ (MT) = 178.55 (GWP 28-36)



Madison
Sustainability



[Environmental Topics](#)

[Laws & Regulations](#)

[About EPA](#)

Search EPA.gov



News Releases

[CONTACT US](#)

SHARE



News Releases from Region 05

EPA to Award \$39,000 to Madison for Food Waste Management and Infrastructure Project

04/09/2019



Dane County begins turning gas from landfill's trash into vehicle fuel



SHELLEY K. MESCH smesch@madison.com Apr 26, 2019

TRY 3 MONTHS FOR \$3



Robert Kinzler, a design engineer with BIOFerm Energy Systems, describes the process of removing carbon dioxide and other excess materials from natural gas sourced at the Dane County Landfill. Compression is used to extract the carbon dioxide, which then goes into the two large, spherical bladders. The county must clean the gas before it can be sold as vehicle fuel.

SHELLEY K. MESCH, STATE JOURNAL

MOST POPULAR

- 1 GOP lawmakers to strip pillars of Tony Evers' budget: Medicaid expansion, tax hikes, pot reforms
- 2 Developer downsizes plans for project on Madison's Essen Haus block
- 3 Immigrants, backers rally for driver's licenses in Wisconsin
- 4 Wisconsin Supreme Court restores all 82 Scott Walker appointees
- 5 Foxconn CEO to hold first meeting with Tony Evers Thursday

RECOMMENDED



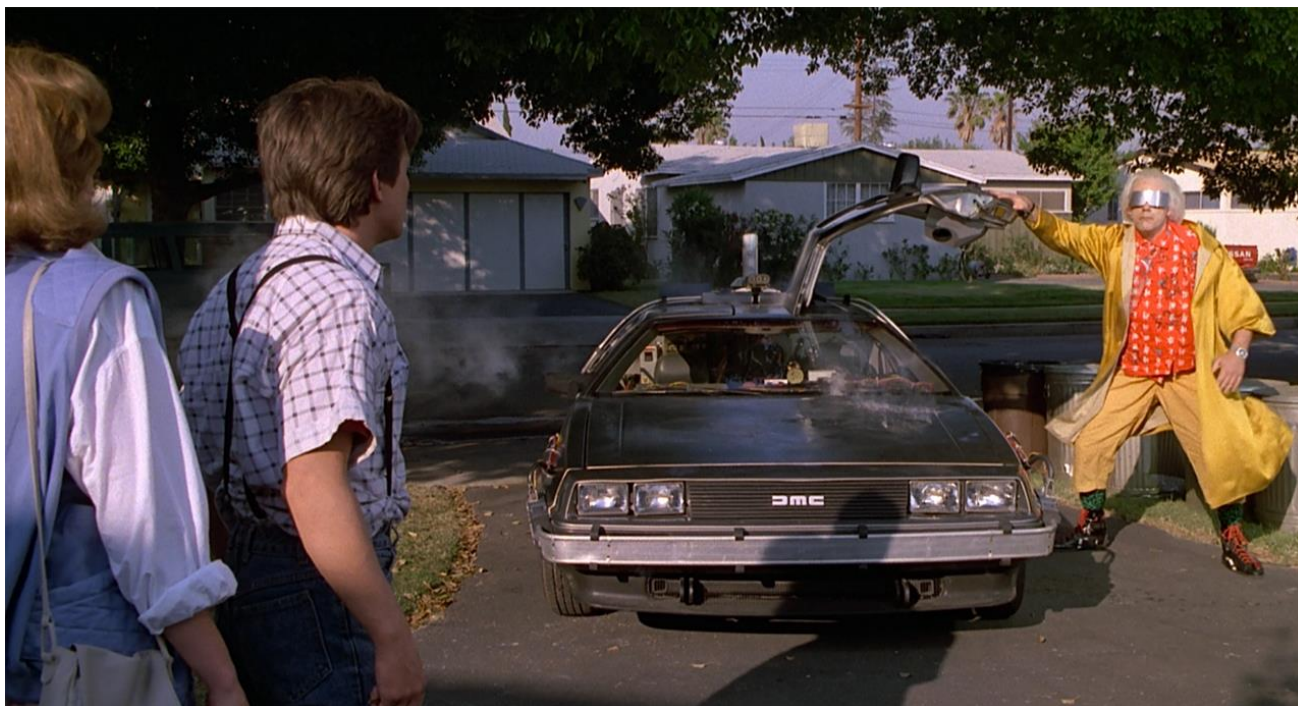
PROMOTION SPOTLIGHT

Who said it: Belichick or Churchill?

The Patriots are headed to yet



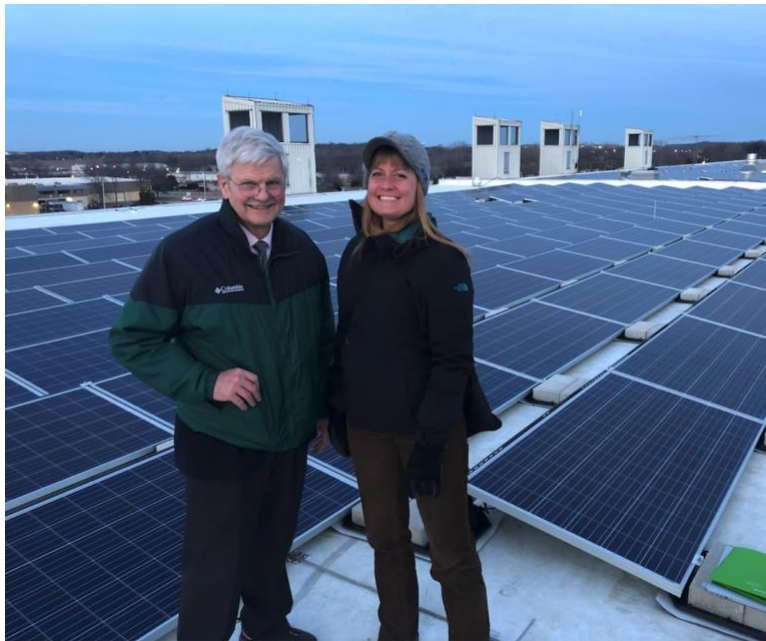
Madison Sustainability





Madison
Sustainability

THANK YOU! – Q & A



Stacie Reece

Sustainability Program Coordinator

Engineering Division

210 MLK, Jr. Blvd. CCB Room 115

Madison, WI 53703-3342

sreece@cityofmadison.com

608-261-9823

Source: RENEW Wisconsin