

CITY OF MADISON 100% RENEWABLES

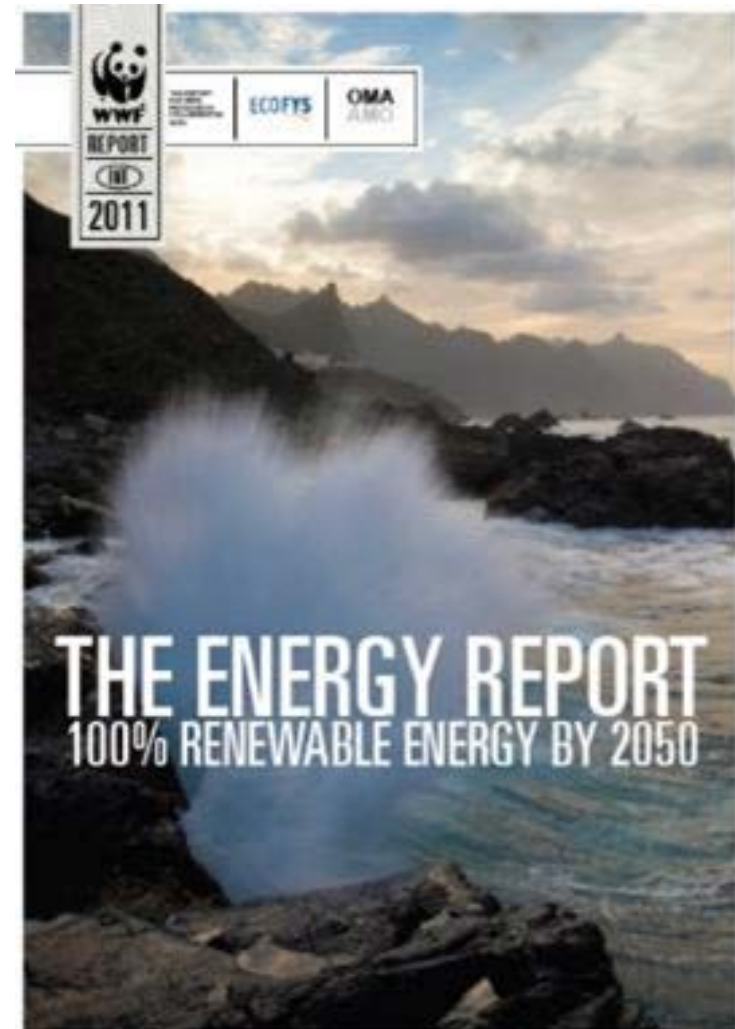
*SUSTAINABLE MADISON COMMITTEE
AUGUST 21, 2017*



AGENDA

- Introductions
- Our Approach (10 min)
- Discussion (10 min)

Image: Navigant/Ecofys provided scientific analysis for World Wildlife Fund Energy Report (2011)



OUR TEAM = LOCAL PRESENCE + GLOBAL BEST PRACTICES

	WHY OUR TEAM?	VALUE TO MADISON		WHY OUR TEAM?	VALUE TO MADISON
	Successful track record of energy efficiency and renewable energy consulting in Madison	Ability "to hit the ground running," reducing learning curve to obtain data & perform facility reviews		Our team is an industry leader in renewables planning and procurement	Obtain knowledge from over \$500B in renewables planning and procurement experience
	Local Madison presence and relationships	Authentic, thoughtful and knowledgeable engagement of stakeholders and community		State of the art technical and financial models and research	Credible findings and analysis for stakeholder and regulatory review
	Low Carbon and Smart Cities consulting experience	Access best practices and benchmarking from similar efforts in Europe and North America		Long-standing community partnerships throughout Madison	Ability to share information and collaborate with community members

SEG HAS HELPED THE CITY PLAN AHEAD FOR RENEWABLES

Central Library



Madison Municipal Building



Fire Station 12



Goodman Park Maintenance



Nakoosa Fleet Facility



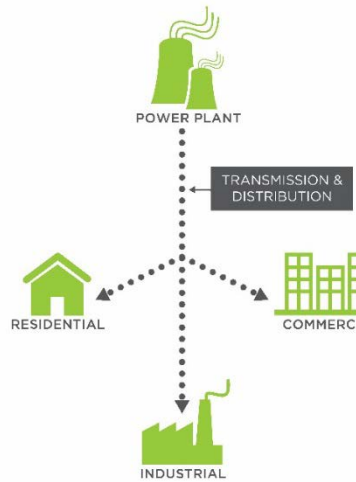
ENERGY ANALYSIS, COMMISSIONING AND M&V TO IMPLEMENT NET ZERO STRATEGIES AT THE NEW SEWER DISTRICT MAINTENANCE CENTER



Image: Madison Metro Sewer District Maintenance Center Opened 2016

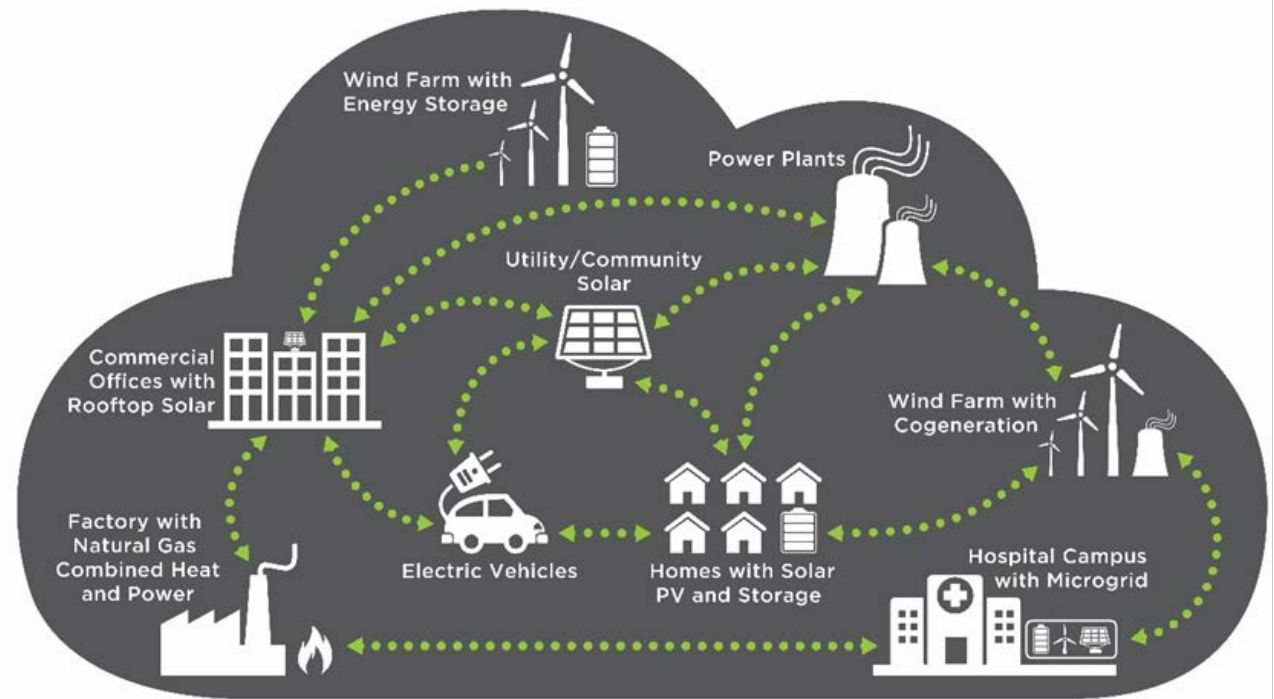
NAVIGANT WILL WORK WITH THE CITY OF MADISON TO PREPARE AN ENERGY TRANSFORMATION

TODAY: ONE-WAY POWER SYSTEM




©2016 Navigant Consulting, Inc. All rights reserved.

EMERGING: THE ENERGY CLOUD



Source: Navigant

TASK 1: KICK-OFF MEETING DETAIL

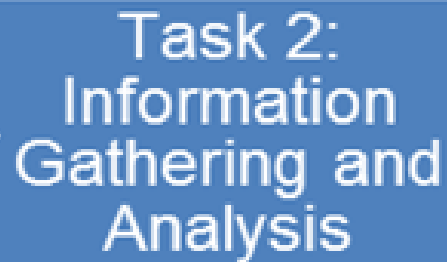


Task 1: Kick-off Meeting

Timing: August 2017

- Initial meetings with City staff
- Build out scope of work, schedule
- Develop data requests
- Meeting with SMC (monthly)
- Develop agenda for public meetings
- Sept 27 kick-off meeting (see flyer)

TASK 2: INFORMATION GATHERING AND ANALYSIS DETAIL



Task 2: Information Gathering and Analysis

Timing: August – Nov 2017

- Gather and review data
- Begin analysis
- Interview City staff
- Interview stakeholders

TASK 3: DEVELOP TIMELINE OPTIONS



Timing: Oct 2017 – Feb 2018

Three timelines offer policymakers options to achieve the goal:

- Aggressive
 - Moderate
 - Incremental
-
- Second Public Meeting to review draft options

TASK 4: REPORTING AND PRESENTATIONS



Task 4: Reporting and Presentations

Timing: Sept 2017 – Mar 2018

- Analysis and findings in written draft report
- SMC feedback
- Third Public Meeting to review final draft report
- Final Report

DISCUSSION TOPICS FOR SEPT 27 PUBLIC MEETING

- Overview of City of Madison efforts to date (Jeanne)
- Setting the Stage - (Raj)
- Discussion
 - Defining 100% Renewable Energy/Zero Net Carbon for the City of Madison
 - Strategies to Pursue:
 - Energy Efficiency
 - Electric Transportation
 - Renewables
 - RECs
 - Other Strategies



DISCUSSION...



WE ARE READY TO WORK WITH OUR PARTNERS IN MADISON

