

Chapter #	Chapter Name	Goal #	Goal Name	Action #
4	Carbon & E	1	Influence reductions in transport	2
4	Carbon & E	2	Systematically upgrade existing	9a
4	Carbon & E	2	Systematically upgrade existing	1b
4	Carbon & E	2	Systematically upgrade existing	3b
4	Carbon & E	2	Systematically upgrade existing	4b
4	Carbon & E	2	Systematically upgrade existing	5b
4	Carbon & E	2	Systematically upgrade existing	7b
4	Carbon & E	2	Systematically upgrade existing	9b
4	Carbon & E	4	Engage the public in energy eff	8
4	Carbon & E	5	Obtain 25% of electricity, heating	6
4	Carbon & E	5	Obtain 25% of electricity, heating	9

4	Carbon & E	1	Influence reductions in transport	10
4	Carbon & E	1	Influence reductions in transport	12
4	Carbon & E	3	Improve new buildings and dev	9
4	Carbon & E	5	Obtain 25% of electricity, heatin	1
4	Carbon & E	5	Obtain 25% of electricity, heatin	2
4	Carbon & E	5	Obtain 25% of electricity, heatin	5
4	Carbon & E	6	Report carbon footprint to the p	2
4	Carbon & E	6	Report carbon footprint to the p	3
4	Carbon & E	6	Report carbon footprint to the p	6
4	Carbon & E	6	Report carbon footprint to the p	4
4	Carbon & E	1	Influence reductions in transport	1
4	Carbon & E	1	Influence reductions in transport	4
4	Carbon & E	1	Influence reductions in transport	5
4	Carbon & E	1	Influence reductions in transport	6

4	Carbon & E	1	Influence reductions in transport	7
4	Carbon & E	1	Influence reductions in transport	9
4	Carbon & E	1	Influence reductions in transport	13
4	Carbon & E	2	Systematically upgrade existing	3a
4	Carbon & E	2	Systematically upgrade existing	5a
4	Carbon & E	2	Systematically upgrade existing	2b
4	Carbon & E	3	Improve new buildings and dev	2
4	Carbon & E	3	Improve new buildings and dev	7
4	Carbon & E	3	Improve new buildings and dev	8
4	Carbon & E	4	Engage the public in energy eff	6
4	Carbon & E	4	Engage the public in energy eff	10
4	Carbon & E	4	Engage the public in energy eff	11
4	Carbon & E	5	Obtain 25% of electricity, heating	3
4	Carbon & E	5	Obtain 25% of electricity, heating	12

4	Carbon & E	6	Report carbon footprint to the p	5
4	Carbon & E	2	Systematically upgrade existing	10a
4	Carbon & E	2	Systematically upgrade existing	8b
4	Carbon & E	2	Systematically upgrade existing	10b
4	Carbon & E	2	Systematically upgrade existing	11b
4	Carbon & E	3	Improve new buildings and dev	1
4	Carbon & E	3	Improve new buildings and dev	4
4	Carbon & E	3	Improve new buildings and dev	5
4	Carbon & E	3	Improve new buildings and dev	6
4	Carbon & E	4	Engage the public in energy eff	7
4	Carbon & E	5	Obtain 25% of electricity, heatin	4
4	Carbon & E	5	Obtain 25% of electricity, heatin	10
4	Carbon & E	5	Obtain 25% of electricity, heatin	13
4	Carbon & E	5	Obtain 25% of electricity, heatin	14
4	Carbon & E	2	Systematically upgrade existing	6b

4	Carbon & E	4	Engage the public in energy eff	3
4	Carbon & E	4	Engage the public in energy eff	12
4	Carbon & E	5	Obtain 25% of electricity, heating	11
4	Carbon & E	1	Influence reductions in transport	11
4	Carbon & E	2	Systematically upgrade existing	1a
4	Carbon & E	2	Systematically upgrade existing	6a
4	Carbon & E	2	Systematically upgrade existing	7a
4	Carbon & E	2	Systematically upgrade existing	8a
4	Carbon & E	2	Systematically upgrade existing	2a
4	Carbon & E	2	Systematically upgrade existing	11a
4	Carbon & E	4	Engage the public in energy eff	2
4	Carbon & E	2	Systematically upgrade existing	4a
4	Carbon & E	6	Report carbon footprint to the p	1

Action description	Progress (none, in progress, completed)
Encourage and promote the use of electrical vehicles and the creation of electrical vehicle infrastructure.	none
Hire an energy manager for the City to measure and track efficiencies, savings and carbon reduction.	in progress
Promote and incentivize upgrading existing commercial and residential building stock to improve energy efficiency, indoor air and building environment quality.	in progress
City and community partners participate in EPA's Better Building Competition or institute an award program for building owners who: a) measurably reduce energy consumption over a 12 month period, and b) provide an educational report about how they did it.	none
Analyze current housing stock: square footage, demographic data, age, etc., to determine target areas for energy retrofiting.	in progress
Educate the private business owner about the value of disclosing information on lower energy use to commercial and residential buyers or leasees. » Residential: at time of sale, or when major additions are added or by 2015 » Multifamily: same as above » Commercial buildings: » Greater than 200,000 square foot benchmark using ENERGY STAR Portfolio Manager by 2013 » Greater than 50,000 square foot benchmark by 2014 » Less than 50,000 square foot benchmark by 2016	in progress
Investigate developing an energy performance level requirement for new construction or renovation of 50% or more of the gross square footage of a commercial building that could be activated at the time of plan review. (Current LEED ENERGYSTAR level is prescribed in LEED EB: OPERATIONS & MAINTENANCE or an equivalent third party measure could be used.)	none
Investigate impact of promoting a 30% reduction in energy use below code for existing buildings that receive TIF funding.	none
Ask businesses, institutions, trade associations, Chambers of Commerce and other organizations to actively and regularly promote energy efficiency and climate change information to their members and members' employees.	none
Create solar charging stations to recharge electric vehicles.	in progress
Divert urban organic wastes into fuel sources for local bio-digester energy production.	in progress

Mandate the use of low carbon fuels in City operations and vehicle purchases.	none
Create a City Fleet Transition Plan to incorporate low or no-carbon/efficient fuel supply options, including biogas, CNG, plug-in hybrids and electric car charging (including on- versus off-peak) and other fuels.	none
Have Common Council adopt Zero Net Energy (ZNE) by 2030 and create ZNE stakeholders group to implement plans.	none
Buy energy from clean power sources (i.e., bio-fuel, wind, geothermal, bio-mass, etc.).	in progress
Expand City's renewable electrical energy purchase (now at 24%) as example to the community	in progress
Investigate ways to increase on-site renewable energy generation, initially with City facilities and then within the community	in progress
Develop a carbon footprint estimate for all facilities and activities within City limits (residential, commercial, industrial sites).	in progress
Develop a baseline carbon analysis, carbon budget and outline a climate action plan with benchmarks and targets for future years (e.g., 2020, 2030, 2050).	in progress
Create Carbon Footprint measures and take CO2 into account when determining City Projects. » Create an internal carbon pricing system for the City. Determine a price per ton of CO2 . Add the cost	none
Hire energy manager to assist in carbon analysis and coordination.	in progress
Investigate imposing a moped license fee that would generate revenues for funding air clean-up.	none
Promote and provide incentives for biking, walking and public transportation use.	none
Improve public transit options such as offering more service and integrating multimodal transportation options.	in progress
Improve and expand bike lanes and trails to accommodate walkers, rollerblading and bikes.	in progress

Develop and promote incentives for alternative fuel vehicles, such as “preferred parking” and graduated parking rates based on fuel efficiency / emissions.	none
Invest in infrastructure for dense development.	in progress
Promote low carbon fuel use in the private sector through education.	none
Create an incentive for City agencies to allocate operating budget resources to retool capital assets under their control.	none
Investigate creation of a Long Term Capital Budget (more than five-years) and “Citizens’ Budget Commission” to better oversee the City’s stewardship of capital assets that affect sustainability and energy use.	in progress
Gather benchmark information on private buildings related to energy use and its impact on property sales, rental and occupancy rates, to show value of upgrading systems.	in progress
Develop a green building (energy efficiency, water conservation, construction materials, landscaping, etc.) program that help City staff guide new commercial and public construction.	none
Create and adopt strategies and requirements to minimize urban heat islands, optimize carbon sequestration and promote water retention (e.g., green roof, bio swales, urban tree canopy, vegetative parking).	none
Allow on-site energy generation (e.g., ground source heat pumps or other district clean energy source, or on-site solar generation).	none
Continue Mpower Madison member partnership program on climate change.	in progress
Encourage communities of faith to provide ongoing campaigns to change members’ behaviors and raise awareness around energy conservation and carbon emissions reduction.	in progress
Develop a series of special action days that ask people to take specific actions on energy conservation, carbon reduction and sustainability.	in progress
Encourage private sector green power purchase (residential/commercial).	in progress
utilities (e.g., wind installations and solar canopies in mall parking lots, etc.) on public and private structures, while minimizing impact on existing architecture and historic areas and recognizing that state law currently prohibits regulatory protections	none

City will publicize the plan and incorporate the goals into future planning, budget and outreach activities.	in progress
Implement low cost behavior-based operational programs that minimize energy use in operations.	in progress
foster upgrades of existing buildings. » Target the bottom performing 30% by 2020 to a specific performance level » Target the middle performing 30% by 2022 to a specific performance level	none
Encourage businesses to participate in the MPower champions program.	in progress
Encourage incentives for the private sector to convert to low carbon or alternative fuel vehicles.	none
Create incentives (e.g., expedited permitting, decreased permit fees, etc.) for new residential construction / remodels that meet Home Performance with ENERGY STAR at the top 20% level. Assess fee for additions to new buildings, a percentage of which will be rebated if addition meets ENERGY STAR standards.	none
Develop by 2015, with the support of key Zero Net Energy stakeholders, a Zero Net Energy program and incentives for new and retrofitted residential/commercial buildings and development.	none
Design all buildings to incrementally improve their energy efficiency to achieve Zero Net Energy (ZNE) by 2030, to standards set by the ZNE stakeholders group.	none
Incorporate zero net renewable energy infrastructure into neighborhood plans where applicable.	none
Create rotating 5-year marketing campaign partnerships with media groups that spread the message on energy conservation and carbon reduction.	none
Encourage higher renewable energy content in the grid.	in progress
Work with MMSD, Dane County Landfill and local businesses to identify and rank various opportunities for greater biowaste-to-energy projects.	in progress
Promote solar-powered City infrastructure where feasible.	in progress
Encourage new above-grade parking facilities to have solar canopies or green areas on top level.	none
Track energy retrofit for low-income housing EECSBG (Energy Efficiency and Conservation Block Grant) program. Collect pre- and post-tests and statistical data.	none

Help building owners compare their energy usage with other comparable buildings.	in progress
Create a City-wide recognition program for innovative energy savings initiatives that achieve measurable results.	none
Rewrite zoning codes and other regulations to permit district and decentralized energy generation and distribution systems.	none
Identify City government transportation fuel use and supply a carbon footprint measurement as part of an annual carbon/sustainability reporting on City operations. Include a measure of fuel	in progress
City government prioritizes and accelerates City's government building and equipment upgrade schedule.	in progress
Create an upgrade schedule for existing buildings with energy performance targets to upgrade: The bottom performing 30% by 2020 to 69% ENERGY STAR level. The middle performing 30% by 2022 to 75% ENERGY STAR level.	in progress
Create a policy of retro-commissioning existing City buildings for energy efficiency and operation.	in progress
Upgrade at least one City building per year and certify to LEED-EB: OPERATIONS AND MAINTENANCE or equivalent certification program.	in progress
Reallocate a portion of all City agencies' operating budgets to the annual replacement of capital assets to improve energy efficiency and reduce carbon emissions. Oversee and ensure implementation.	in progress
Give preference to LEED certified or equivalent certificated buildings in acquiring leased space for City government use.	in progress
Publish and post City Government agencies' utility bills for public to view.	in progress
and Finance Department to ensure that budgeted upgrades are spent on the approved items.	none
Develop a carbon footprint baseline for public, City-owned and/or controlled facilities and activities. Prepare a matrix of metrics, both measurable and value-based, to establish baselines and track progress.	completed

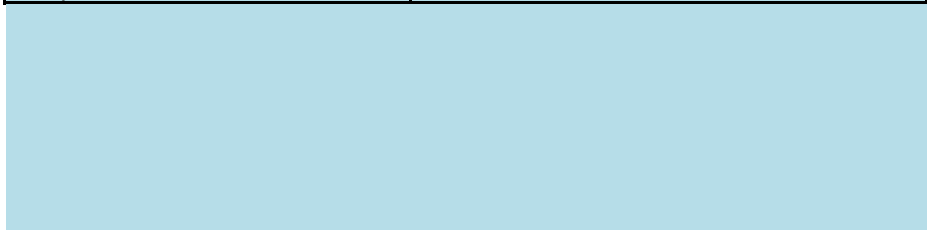
priority for SMC	reasons for priority
high	See in progress line item about charging stations.
high	Involves working into the 2018 budget.
high	Green Madison could lead this, involves allocating additional budget funds to them.
high	Leveraging an existing voluntary program.
high	Clear path to accomplish this, ask MGE to supply energy data.
high	What's happening with Voluntary Benchmarking? It's part of the Energy Plan.
High	Update action to "Review building codes."
High	Explore policy options around TIF. Find data behind new buildings going up. Promote with an op-ed in the paper?
High	Clear path to accomplish this.
high	Could be part of MGE's plan, or stand alone as a City Project.
high	Technology is here now, pilot is now a program. Explore private public partnership to aid financially (Pelleteri? Gunderson Lutheran?).

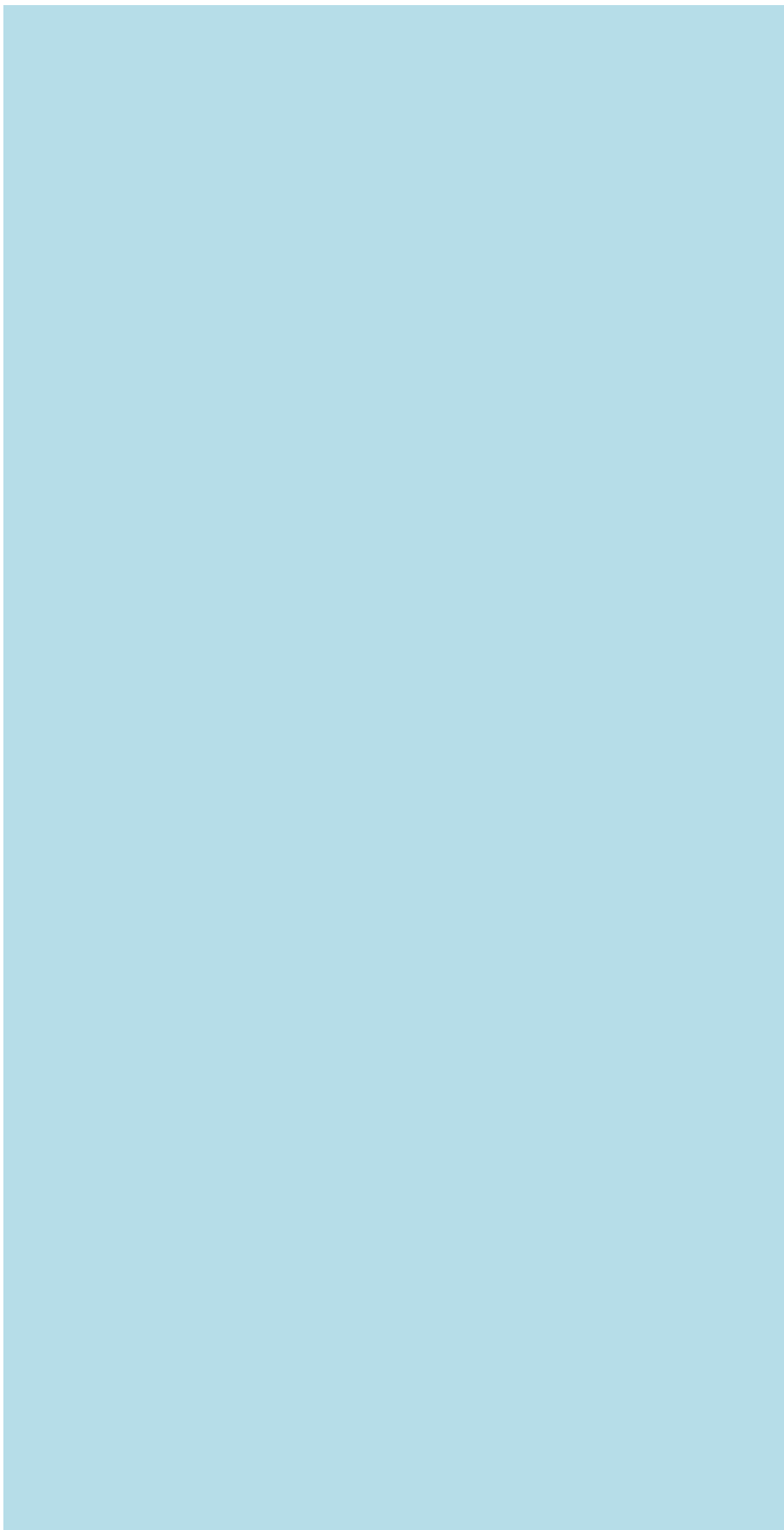
high - part of resolution	Part of the resolution.
high - part of resolution	Part of the resolution.
high - part of resolution	Resolution -- except for Stakeholder comment
high - part of resolution	This is happening -- need to keep SMC involved in this one as Resolution 44575 moves forward.
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high - part of resolution	This is happening -- need to keep SMC involved in this one as Resolution 44575 moves forward.
high - part of resolution	Clear path to accomplish this and it's part of the Resolution.
high - part of resolution	Part of the Resolution.
high - part of resolution	Part of Resolution, an internal carbon pricing calculation is already in place.
high - part of the energy plan	Part of the Energy Plan.
low	Need to work closely with UW on this, and they are already taking measures.
low	Involves the budget, already lots of engagement.
low	Would require state funding, and Madison in motion is already addressing. We dont have a TIGER grant.
low	Successful actions are already in motion for this goal.

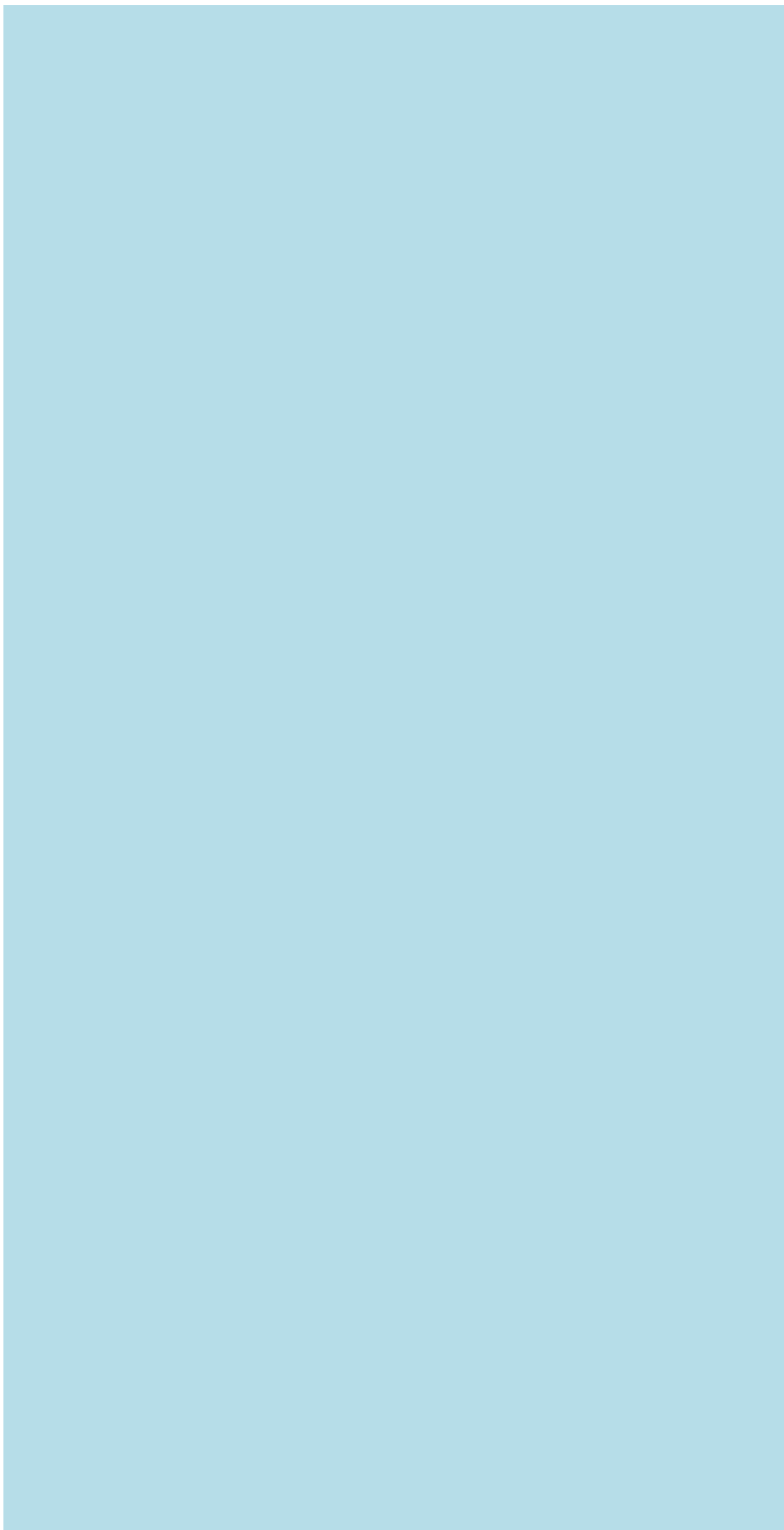
low	Difficult to implement and a contentious issue.
low	TIF funding already paving way.
low	Could be part of an engagement strategy.
low	Already happening through city-building retrofit programs (year to year budget allocation).
low	This would be a very large systemic change -- beyond the scope of SMC.
medium	External forces from realtors exist, policy / procedures, hard to quantify impact. But it could be a useful endeavor.
low	Keep idea as part of a more expansive project.
low	Action too broad to tackle all at once.
low	May be outdated issue.
low	This is always an opportunity to increase participation.
low	Important background constant action. This could be under the umbrella of other engagement strategies.
low	This would be under an overall engagement program.
low	This could be under an overall engagement program.
low	Part of another action.

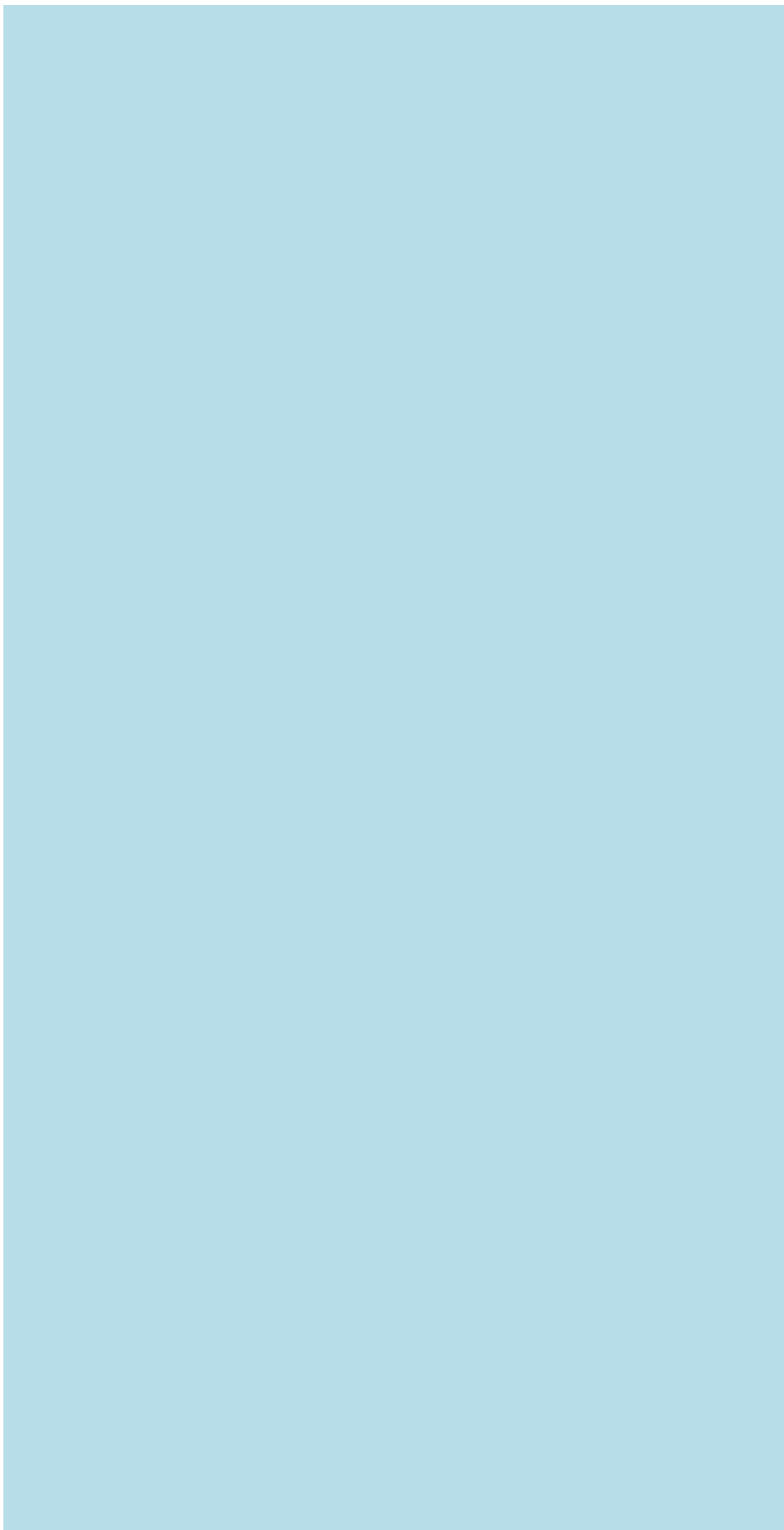
low	The three pieces of this action fall under other sections with varying priorities.
medium	After GUEP, what happens? Consider low cost behavioral interventions.
medium	What kind of policy? Already FoE funding for voluntary upgrades.
medium	Keep it up.
medium	Reference in progress action.
medium	Difficult for SMC to tackle. Already included in the FoE New Homes funding.
medium	Could be part of another umbrella program.
medium	Could explore further, as part of a building codes discussion.
medium	Should be ongoing discussions with neighborhood plans.
medium	We need to focus on marketing and communicating our message.
medium	Continue talks regarding Energy Plan with MGE.
medium	Although this is in progress it could be expanded.
medium	Doing the job training already, adding to buildings as they retrofit and build. Seems to be moving forward without additional need for SMC.
medium	Do parking structures fall under purview? (see other in-progress actions)
medium - high	Could be part of continuation of Green Madison.

medium - high	Revisit Benchmarking Concerns
medium - high	This would be under an overall engagement program.
Need more info	
need progress report	Last MM is 2014
need progress report	
need progress report	Is it in the 2017 budget? What happened in 2016?
need progress report	See 6a, 8a.
need progress report	
question	Is it in the 2017 budget? Who is overseeing?
question	How does the City lease space?
question	Low priority, but where is it posted?
need more info	
completed	











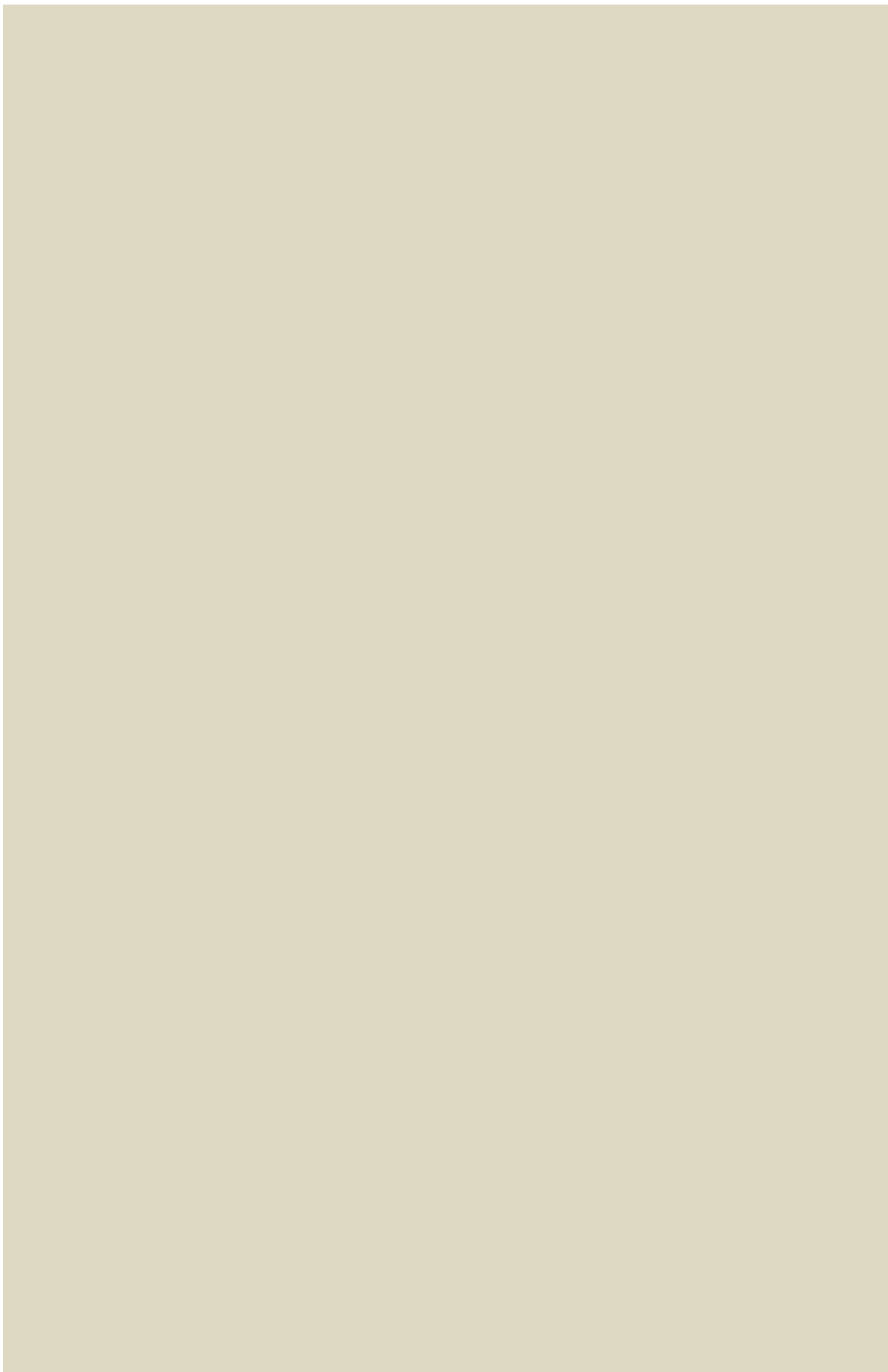
Completed	Incomplete
Some charging stations created	Needs review
Energy leadership program established for facilities managers. Item addressed in Energy Plan	Needs review
Residential stock handled in GUEP-limited.	Needs review on commercial and indoor/bldg environment
GUEP tied to municipal bldgs and residential bldgs energy reductions	Needs review
Better data collected on housing stock.	Not done
Voluntary benchmarking proposed	Needs review
	Not done
	Needs review - TIF governed by State Statute
	Needs Review
	Status unknown
600 household pilot project developed. Budget for digester established	

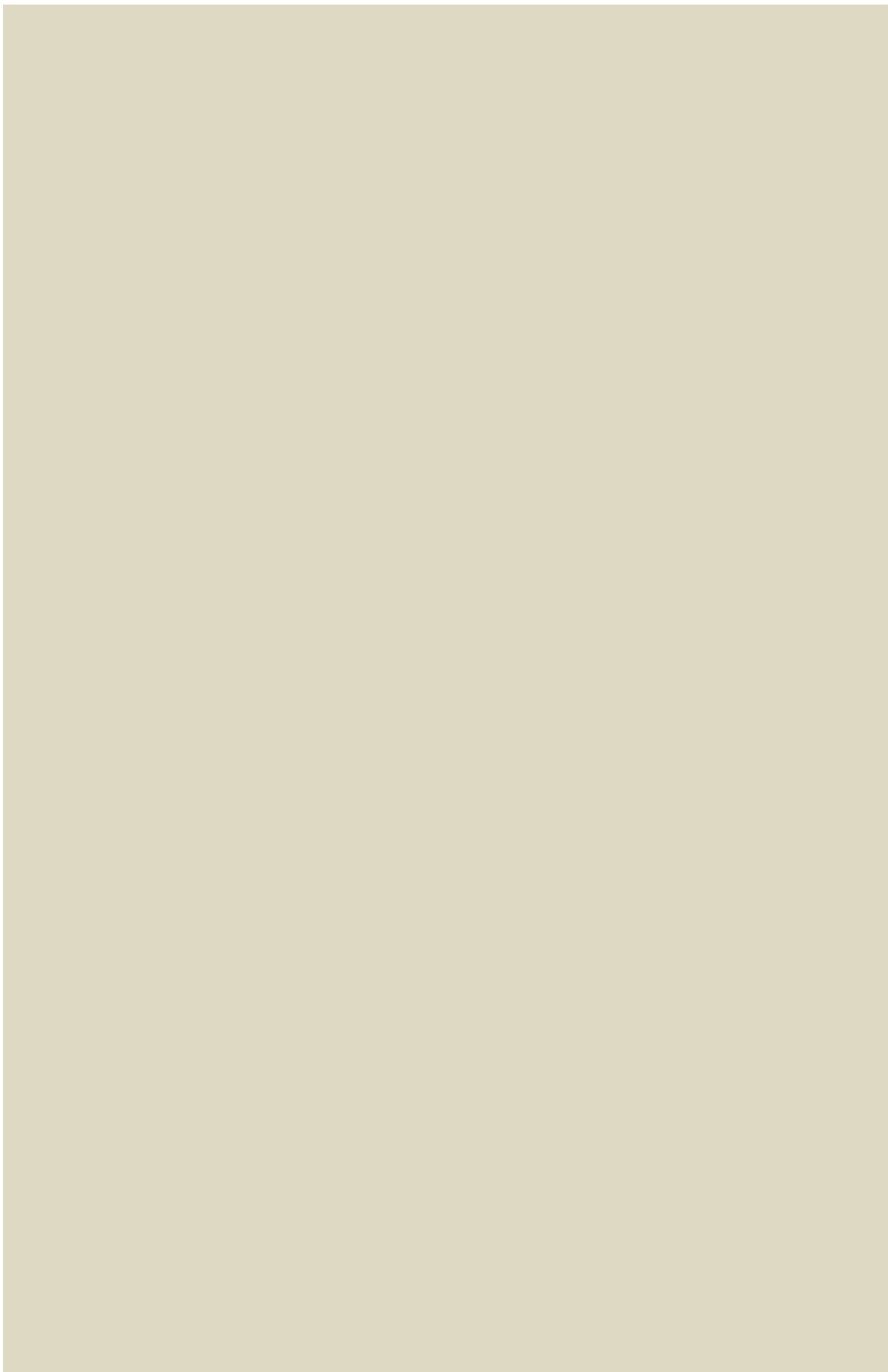
	Needs review
	Needs review
	Not done
Was done regularly - changes by utility led to modifications	Needs Review
Was done-utility modifications lead to refocus	Needs Review
PV arrays set up on many city buildings	
City buildings and general community carbon footprint in Madison Measures	
Carbon footprint baseline created for City activities and general community	Carbon budget and plan needs review
Track carbon footprint.	Internal carbon pricing needs review
Fac./Sustainability Manager handles. Energy Plan proposes new position.	
	Not done
	Not done
Some internet access on buses, increased routes, modified routes. Connectivity highlighted in NH plans	Needs review
Large infrastructure improvements to network	

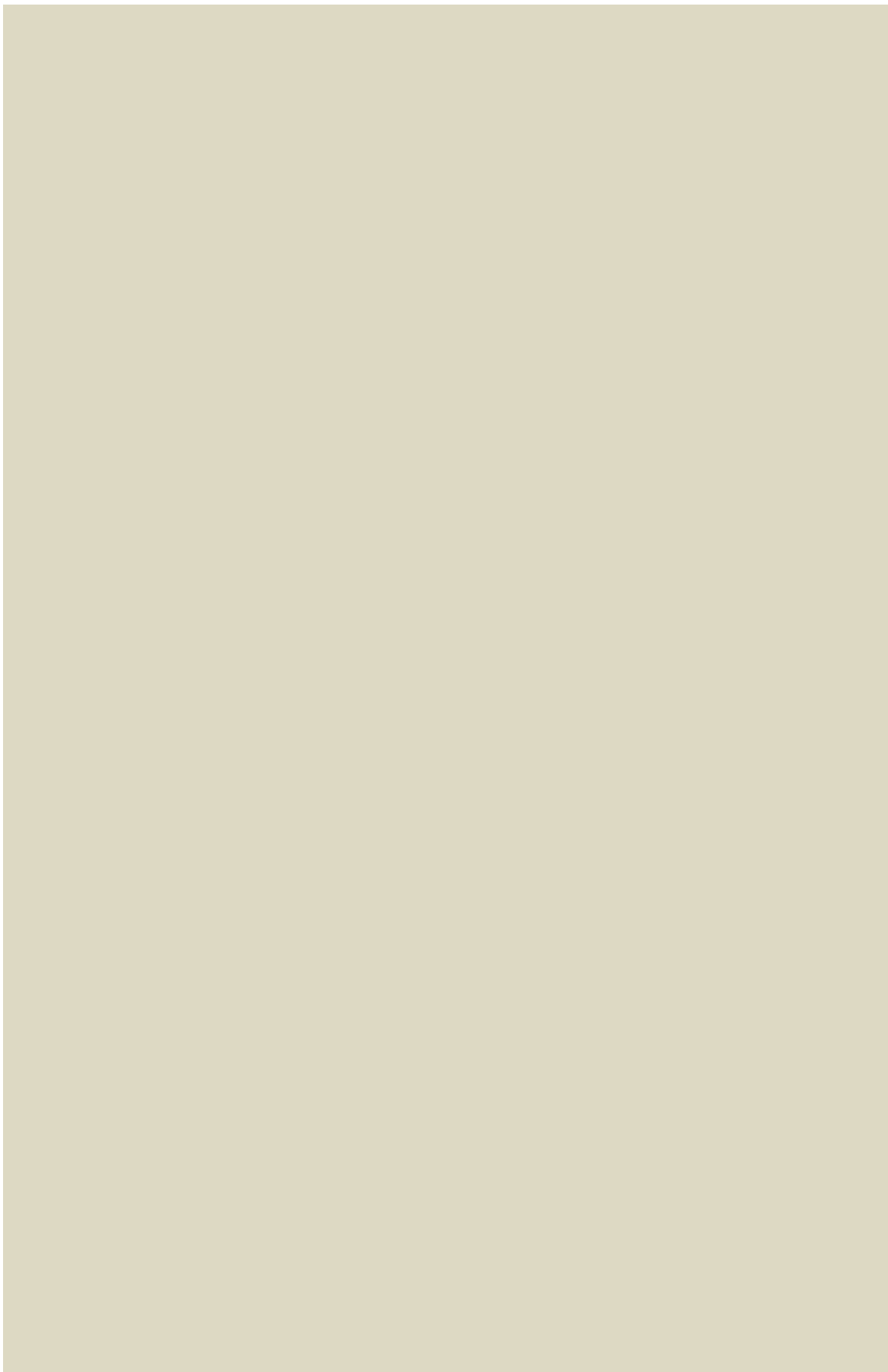
	Needs review
Transportation Master Plan	
	Needs review
Budgets for energy efficient upgrades created	
CIP looks out over 5 years	Citizens' budget commission not created
	Needs review - voluntary benchmarking
	Not done
Incorporated into development review informally	Needs review
Potential within Energy Plan MOU	Needs review
City supports Sustain Dane in leading this program	
Cool Choices within GUEP on residential	Needs Review
Earth Day, Earth Hour Day promoted by City	Needs Review
GUEP-MadiSun-MPower Champions support	
	Needs review

	Needs review
Cool Choices used internally for GUEP	
Voluntary benchmarking proposed	Not done
City supports MPower financially	
	Not done
	Not done
	Not done
	Not done
	Not done
	Not done
	Not done
	Not done
GUEP-MPower-PV sets up used by City	
Many solar installations on City buildings and properties	
Specific to development projects. Two proposed	
	Status unknown

Voluntary benchmarking proposed	Needs review
	Not done
	Needs review
Done in Madison Measures by Facilities and Sustainability Manager Fuel use reported in Madison Measures (MM) by Fleet.	
Part of GUEP-Budget created for energy upgrades	
Brendle Group assessed and recommended buildings-put into 2016 budget	
Part of GUEP and Madison Megawatt budgeting	
New buildings meet LEED standard	Needs review
Madison Megawatt budget allocation created for energy efficiency and alternative energy projects	
	Needs review
Energy use is posted annually, but not energy bill	
Done in Madison Measures for several years	









In-process	City Agencies	Committee - primary	Committee - secondary
	Engineering, Planning	LONG RANGE TRANSPORTATION PLANNING COMMITTEE	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Planning	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Planning	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Streets, Engineering, PWI	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL

	Fleet Services	SUSTAINABLE MADISON COMMITTEE	
	Fleet Services	SUSTAINABLE MADISON COMMITTEE	
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Engineering	SUSTAINABLE MADISON COMMITTEE	
Potential in Energy Plan	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	PEDESTRIAN/BICYCLE/MOTOR VEHICLE COMMISSION	
	Mayor's Office	LONG RANGE TRANSPORTATION PLANNING COMMITTEE	
	Planning, Metro Tranist	TRANSIT AND PARKING COMMISSION	
On-going	TE, Engineering, Planning	PEDESTRIAN/BICYCLE/MOTOR VEHICLE COMMISSION	

	PU	TRANSIT AND PARKING COMMISSION	
On-going	Planning, MPO	LONG RANGE TRANSPORTATION PLANNING COMMITTEE	
Some private education in GUEP plan	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Finance	BOARD OF PUBLIC WORKS	
	Finance, Mayor's Office	COMMON COUNCIL	
	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Parks, Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
	Planning/Inspection	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL

	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	BOARD OF PUBLIC WORKS	
	Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Engineering, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering, Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	PLAN COMMISSION
	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Engineering, PWI	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	PU	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
	Planning, Mayor's Office	SUSTAINABLE MADISON COMMITTEE	

	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
	Mayor's Office	SUSTAINABLE MADISON COMMITTEE	
Perhaps as part of MG&E MOU	Planning/Inspection	SUSTAINABLE MADISON COMMITTEE	COMMON COUNCIL
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	BOARD OF PUBLIC WORKS	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Finance	BOARD OF PUBLIC WORKS	COMMON COUNCIL
	Engineering	COMMON COUNCIL	SUSTAINABLE MADISON COMMITTEE
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	
On-going	Finance	COMMON COUNCIL	
On-going	Engineering	SUSTAINABLE MADISON COMMITTEE	

