



CITY COUNCIL WORKSHOP

SUSTAINABILITY PLAN STATUS REPORT

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sanmarcostx.gov





BACKGROUND

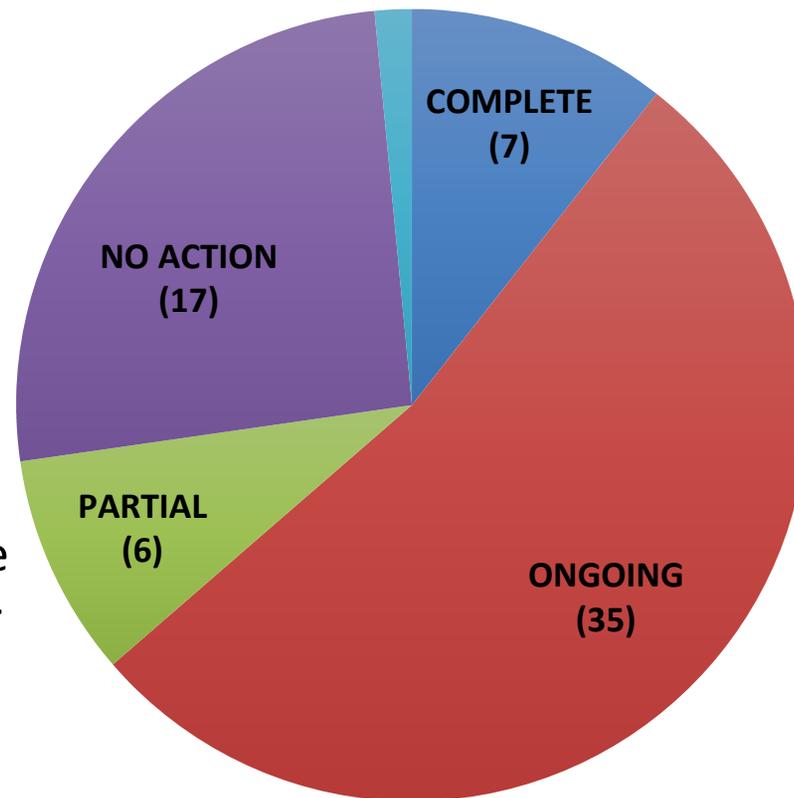
- Project initiated by CM and Green Team in 2011/2012
- Gresham, Smith and Partners selected to complete Sustainability Plan
- Plan completed and signed by CM in 2013



METHODOLOGY

- Vision statement: *From the River to the Historic Downtown, the City of San Marcos must lead by example to preserve the legacy that is San Marcos by maintaining a careful balance between our environment, economy and society, both now and in the future.*
- Conducted review of existing sustainability practices and policies.
- Conducted comparison and gap analysis of sustainability practices implemented by other cities.
- Potential opportunities scored and ranked by:
 - Environmental benefit
 - Social benefit
 - Economic benefit
 - Cost
 - Staff feasibility
 - Timeline to implement

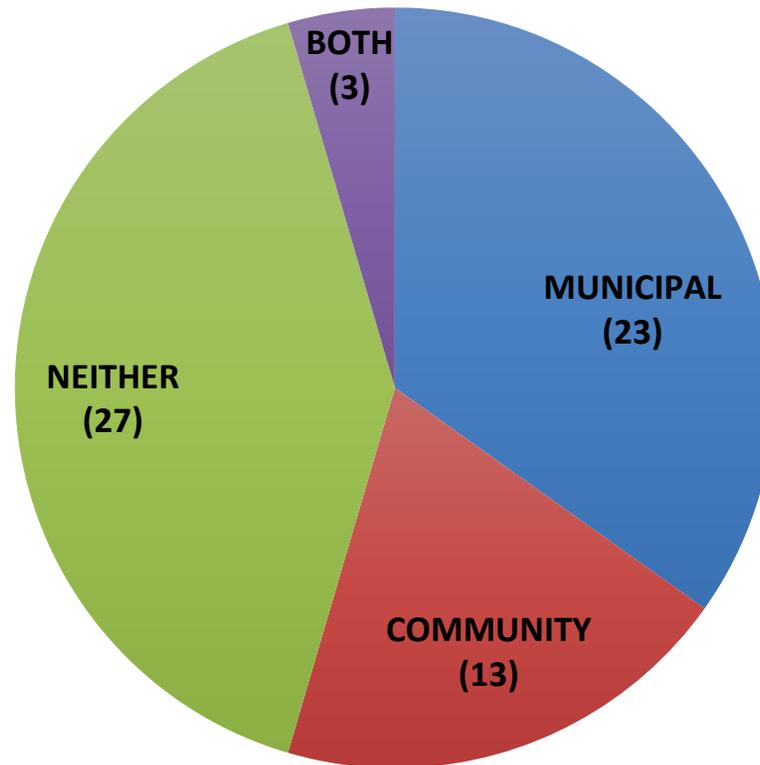
STATUS OF SUSTAINABILITY PLAN ENVIRONMENTAL OPPORTUNITIES



48 of the 66 items are complete, ongoing or partially complete
= 73%

NUMBER OF SUSTAINABILITY PLAN ENVIRONMENTAL OPPORTUNITIES THAT PRODUCE MEASURABLE GHG REDUCTIONS

For either the municipality or the community, or neither or both



COMPLETED OPPORTUNITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Expand Police bike patrol	15	Y	N	PD	COMPLETE	Expanded downtown bike/foot patrol unit from 2 to 4 officers in 2013.
Develop and utilize a sustainability checklist for City capital improvement projects that incorporate Low Impact Development, endangered species protection, etc.	14	N	Y	ENG/CIP PARD PLANNING/DEV	COMPLETE	Items are incorporated into standard professional engineering scope of work
Create and implement an Integrated Pest Management Plan	14	N	N	FACILITIES	COMPLETE	
Formally integrate Low Impact Development and Complete Streets practices into City development planning processes	12	N	Y	PLANNING/DEV	COMPLETE	
Retrofit street lighting with energy efficient bulbs	12	Y	N	SMEU	COMPLETE	
Install white roofing on facilities as applicable	8	Y	N	FACILITIES	COMPLETE	
Migrate to virtual servers	6	Y	N	IT	COMPLETE	

ONGOING ACTIVITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Convert paper processes to electronic processes, when possible	15	N	N	RR ALL	ONGOING	
Create and implement internal water conservation education program for city employees	15	N	N	W/WW	ONGOING	
Continue to purchase and develop open space per the Parks, Recreation and Open Space Master Plan	14	N	Y	PARD	ONGOING	
Become a Tree City	14	N	Y	PARD	ONGOING	
Identify and evaluate all waste streams for potential elimination, reuse, and/or recycling	14	N	N	RR	ONGOING	
Continue system water audits	14	N	Y	W/WW	ONGOING	
Extend sustainability outreach efforts beyond City employees	13	N	Y	COMM ALL	ONGOING	

ONGOING ACTIVITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Create a bike/alternative vehicle share program for City employees	13	N	N	HR	ONGOING	City bike share program going to Council 9-18-18
Implement a carpool, mass transit incentive, telecommuting and/or flexible work schedule program for City employees	13	N	Y	HR	ONGOING	Some employees on flex work schedules or alternative schedules (4 day/10 hour)
Establish a City policy that requires staff in municipal facilities to turn off lights and computers when not in use	13	Y	N	HR IT	ONGOING	IT does not enable the Power Save mode so they can patch computers at night Occupancy sensors installed in most offices
Purchase more energy from renewable sources	13	Y	Y	SMEU	ONGOING	The Council approved 3/18 the purchase of 12 MW of AEP wind generated power for a ten year period starting in 2023
Maintain employee green team	13	N	N	SMEU	ONGOING	Informal environmental staff luncheons quarterly
Continue water distribution system leak detection/repair program	13	N	Y	WWW	ONGOING	Annual contracts and internal efforts
Install occupancy sensors at City facilities where appropriate	12	Y	N	FACILITIES	ONGOING	Most office areas completed. Ongoing with new facilities

ONGOING ACTIVITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Evaluate and establish rebate programs or environmental fees to fund additional sustainability programs	12	N	Y	FINANCE	ONGOING	Water/energy conservation rebate programs; beautification fee on utility bills
Continue to maintain City vehicles according to preventative maintenance program to reduce emissions	12	Y	N	FLEET	ONGOING	
Develop and implement a tree planting and protection program at City facilities	12	N	Y	PARD	ONGOING	
Develop and implement sustainable landscaping requirements for use at City facilities	12	N	N	PARD FACILITIES	ONGOING	
Replace or upgrade HVAC at municipal facilities where appropriate	11	Y	N	FACILITIES	ONGOING	Multiple units have been replaced in many City Facilities in last 5 years with additional funds budgeted
Implement idle reduction technology	11	Y	N	FLEET	ONGOING	AVL funding in FY 18-19 budget will facilitate
Maintain and restore riparian areas under the City's control by planting native species and removing hardscaped banks and non-native species	11	N	Y	PARD	ONGOING	

ONGOING ACTIVITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Establish and implement a compost program to include landscape waste and/or biosolids	11	N	N	RR	ONGOING	
Develop and implement a policy for City staff and contractors that requires construction debris recycling	11	N	N	RR	ONGOING	
Implement MS4 permit including controls and best practices	11	N	N	TRANS	ONGOING	
Install variable frequency drives (VFD) on motors where appropriate	11	Y	N	W/WW	ONGOING	
Develop and implement a comprehensive water facilities master plan	11	N	N	W/WW	ONGOING	Water Master Plan updated May 2016, next update will be 2021
Weatherize City facilities	10	Y	N	FACILITIES	ONGOING	
Revise existing training courses to incorporate sustainable practices, where applicable	10	N	N	HR	ONGOING	Sexual harassment, Ethics, Core Values, MS4 Training

ONGOING ACTIVITIES

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Incorporate stormwater improvements (vegetative filters, rain gardens, water-wise landscaping, etc) according to the Low Impact Development Manual	10	N	Y	PLANNING/DEV	ONGOING	All CIP stormwater projects incorporate LID/water quality components
Continue purchasing hybrid, propane, and flex fuel vehicles as appropriate	10	Y	N	PURCHASING FLEET	ONGOING	
Track disposal and recycling rates of all City facilities	10	N	N	RR	ONGOING	
Install solar energy at City facilities as appropriate	9	Y	N	FACILITIES W/WW TRANS	ONGOING	5 Mile Dam - 20 kw AC Pool - 956 BTU/day/sf (do not know sf)
Develop and communicate internal educational materials on sustainability topics	9	N	N	HR COMM SVCS	ONGOING	
Use alternative fuel, such as CNG, for City buses	9	N	Y	TRANSIT FLEET	ONGOING	TxLED (LOW EMISSION DIESEL)
Continue to upgrade water and wastewater facilities with efficient equipment	9	Y	N	W/WW	ONGOING	

PARTIALLY COMPLETE

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Implement and enforce a no-idling policy for City employees	14	Y	Y	HR PARD PLANNING/DEV	PARTIAL	City ordinance 2006-12 applies to City employees as well as public
Conduct an energy conservation or recycling employee challenge	13	N	N	SMEU RR	PARTIAL	Recycling challenges for paper etc. have been held
Continue to identify and apply for grant funding to support sustainability goals	12	N	N	COMMUNITY SVCS	PARTIAL	Community Services no longer has grant writer but CAMPO bike/ped and other project grants received
To minimize the amount of hazardous soil being disposed, upgrade pistol range to include a metal backstop	12	N	N	PD	PARTIAL	Included in PD renovation bond project
Install blower replacement and aeration airflow control where appropriate	8	Y	N	W/WW	PARTIAL	One blower replaced, second to be replaced after electrical load system rehabilitation and new feeds in place
Establish baseline and tracking methodology for City greenhouse gas emissions	6	N	N	SMEU	PARTIAL	Municipal GHG Inventory completed, not Community GHG Inventory

NO ACTION

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Create an incentive-based energy conservation contest between city departments	15	N	N	SMEU	NO ACTION	Departments are not individually metered so no ability to determine departmental usage where co-located
Encourage City employee participation at Keep San Marcos Beautiful events, including cleanups	14	N	N	RR	NO ACTION	
Require all new City-financed construction to meet LEED standards	13	Y	N	PLANNING/DEV	NO ACTION	
Create and utilize a project review process for major energy consuming projects	13	N	N	SMEU	NO ACTION	
Train a purchasing representative from each City department on green purchasing practices	12	N	N	PURCHASING	NO ACTION	
Create and implement Energy Master Plan	11	Y	N	SMEU	NO ACTION	
Create and implement a green fleet policy that mandates the purchase of alternative fuel/hybrid vehicles	10	Y	N	PURCHASING	NO ACTION	No formal policy but current practice where these alternatives are available
Require all new appliances purchased for City use to have Energy Star rating	10	Y	N	PURCHASING	NO ACTION	De facto likely as Energy Star is widespread

NO ACTION

	Score	Municipal GHG Reduction?	Community GHG Reduction?	Department(s)	STATUS	Notes
Set and achieve departmental green purchasing goals	10	N	N	PURCHASING	NO ACTION	
Using input from purchasing representatives and experience gained during the pilot program, develop a broad green purchasing policy	10	N	N	PURCHASING	NO ACTION	
Develop and implement a Climate Action Plan with a mitigation and adaptation component	10	Y	Y	SMEU RR	NO ACTION	
Track cost savings associated with sustainability initiatives	9	N	N	FINANCE SMEU	NO ACTION	
Apply for grants to support the purchase of alternative fuel/hybrid vehicles	8	Y	N	FINANCE COMMUNITY SVCS	NO ACTION	
Require the use of green cleaning chemicals and 20% post-consumer recycled office paper in City facilities	8	N	N	PURCHASING	NO ACTION	
Implement Energy Management System	8	Y	N	SMEU	NO ACTION	
Install solar water hot water systems at fire stations	7	Y	N	FACILITIES FIRE	NO ACTION	
Develop a cost-benefit analysis model to demonstrate feasibility of sustainability projects	6	N	N	FINANCE	NO ACTION	

CLEAN AIR ACT HISTORY

- **December 2002** – COSM enters into Early Action Compact Agreement with EPA and TCEQ to facilitate attainment of the 8-hour ozone standard by 2007 (2002-213-R)
- **July 2005** – COSM enters into MOU with TCEQ and implements rules for motor vehicle idling (2005-99-R)
- **March 2006** – COSM adds vehicle idling ordinance to City Code (2006-12)
- **August 2012** – COSM enters into “Site License for Air Quality Monitoring” with CAPCOG allowing use of air monitoring equipment on City property
- **August 2018** - City signs Amendment 2 extending terms of the air monitoring license with CAPCOG through 2023.

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-QUESTIONS-