



MEMO

DATE: FOR THE MAY 17, 2018 ENVIRONMENTAL PROGRAMS COMMITTEE MEETING

TO: THE ENVIRONMENTAL PROGRAMS COMMITTEE

FROM: NESTOR DELGADO, ASSISTANT PLANNER / SUSTAINABILITY COORDINATOR

SUBJECT: ITEM 4B: IMPLEMENTATION OF CLIMATE ACTION PLAN PRIORITIZED GREENHOUSE GAS REDUCTION (GHG) REDUCTION MEASURES

RECOMMENDATION

Review, comment and discuss implementation efforts for the top Greenhouse Gas (GHG) reduction measures, or additional measures as time allows, as approved by the City Council.

BACKGROUND

In January 2017, the City Council approved a prioritized list of identified Greenhouse Gas (GHG) reduction measures from the Town's Climate Action Plan. Specifically, the Council approved a list identifying 16 of the 25 adopted GHG reduction measures as prioritized for more immediate implementation, as recommended by the EPC. The 16 prioritized measures will enable the Town to reach 78.37% of the targeted GHG reduction levels by 2020 and 81.80% by 2030. The remaining 9 measures that were not prioritized were acknowledged as still pertinent to effectively reduce the Town's carbon footprint, however were recommended to be addressed at a later time. These 16 prioritized measures are listed within Attachment 1.

At the February 1, 2018 meeting, the EPC discussed of a series of recommendations on how to implement the top 2 prioritized GHG reduction measures; residential energy and green building. During this meeting the committee requested staff to draft a Green Buildings Award program for further Committee discussion. Additional discussions also centered around the creation of educational materials on a seasonal basis regarding sustainable home features such as water conservation or energy efficiency.

ANALYSIS

Draft Green Building Award

During the February 1, 2018 EPC meeting, committee members expressed interest in possibly

developing a Town Green Building Awards program. Staff has drafted a preliminary Green Building Award application for EPC review, discussion and elaboration. (f Attachment 2).

As drafted, “green building” award program would publically recognize and award homes that voluntarily incorporate green building strategies in the exterior and/or interior of their remodeled and/or rebuilt homes. For reference, the Town’s Tree Committee currently supports a Tree Award Program, in which certificates of recognition are issued to development projects which have proven to support the care and nourishing of heritage trees. Nominations are submitted to the Town Arborist, winners selected by the Tree Committee, and certificates issued by the City Council. A similar recognition program could be created to showcase green buildings constructed.

Similarly, Staff has drafted a Green Building Awards program. Homes that have been either constructed or remodeled in the past five years with significant Green Building features can apply to this award. The EPC could serve as the judging panel to name winners of the award. The application materials could include: a site plan, photographs of green features, and a write up detailing how the home addresses the Green Building criteria listed below. The award can take the form of a commemorative plaque, recognition on the Town’s website and social media platforms, and/or a document with a running list of participants and winners to be updated by the EPC or staff.

Judging criteria for the award could include:

- ✓ Home Energy Conservation and Efficiency
- ✓ Construction Materials and Resources
- ✓ Footprint and Community Impact
- ✓ Indoor Air Quality
- ✓ Water Conservation
- ✓ Innovation and Design
- ✓ Cost Effectiveness of Construction
- ✓ Presentation and Other Considerations
- ✓ Others

For reference, the County of San Mateo runs a similar awards program <http://www.sustainablesanmateo.org/home/awards/>. The Green Building Award program is a program sponsored by Sustainable San Mateo County and the American Institute of Architects San Mateo County Chapter. The award recognizes a newly constructed building or building remodel that has occurred within the last 5 years that promotes green design and construction practices. The

Educational Materials

During the February 1, 2018 EPC meeting, committee members discussed the creation of educational and promotional materials on a seasonal basis for different sustainability features. Staff also presented the idea of creating a “master” brochure with an overview of Town sustainability features such as home energy efficiency or water conservation strategies. Previous discussions by the EPC brought up the idea of having themes for sustainable brochures according to the seasons, i.e. releasing a brochure regarding storm water management and water conservation during rainy season or releasing a home energy efficiency brochure during the summer months.

For reference, the City of Palo Alto released their “Green Living Resources” brochure. This 16 page document contains local and regional information regarding: home energy efficiency, kitchen and bathroom upgrades, sustainable yard and landscaping maintenance, recycling and composting,

renewable energy, and rebate programs.
<https://www.cityofpaloalto.org/gov/depts/utl/residents/resrebate/smartenergy/default.asp>

The committee could discuss the possibility of creating an Ad-Hoc Committee to work with staff on developing these draft materials for presentation at the next regularly scheduled EPC meeting.

ATTACHMENTS

1. Approved, prioritized GHG Reduction Measures
2. Draft Green Building Award Application

ITEM 4B, ATTACHMENT 1
List and Description of Approved Prioritized CAP Measures

Priority #	Measure Topic Area	GHG Reduction Measure(s) *	Total 2020 GHG Emissions Avoided (MT C0²e)	% of total 2020 proposed GHG Emissions Avoided	Total 2030 GHG Emissions Avoided (MT C0²e)	% of total 2030 proposed GHG Emissions Avoided
1	Residential Energy	<ul style="list-style-type: none"> • EC2: Incorporate available Energy Upgrade programs and similar rebates 	291	5.52%	458	6.57%
2	Green Building	<ul style="list-style-type: none"> • EC1: Voluntary residential green building ordinance for new construction • EC4: Voluntary commercial green building ordinance for new construction and major additions • EM4: Energy efficiency in municipal buildings 	193	3.66%	154	2.21%
3	Community Choice Aggregation	<ul style="list-style-type: none"> • EC6: Community Choice Aggregation 	2,065	39.15%	3,380	48.51%
4	Bicycle and Pedestrian Master Plan	<ul style="list-style-type: none"> • TRC1: Implement the Town's Bicycle and Pedestrian Master Plan faster to create a walkable/ bikable street landscape • TRC2: Fund and Implement Bicycle Master Plan priorities and make having safe routes to school a Town priority 	352	6.67%	360	5.17%

5	Waste Management	<ul style="list-style-type: none"> • WC1: Set higher community waste diversion goals • WC2: Require Commercial recycling through mandatory ordinance • WC3: Promotion of recycling/ diversion of yard waste • WM1: Create Sustainable Vendor Policy for Public Events • WM2: Environmentally preferred purchasing policy-waste reduction • WM3: Approach a zero waste policy in government operations 	1,110	21.04%	1,169	16.78%
6	Water Conservation	<ul style="list-style-type: none"> • WTRC1: Water conservation incentives • WTRC2: Water conservation ordinance • WTRC3: Voluntary water conservation programs 	123	2.33%	178	2.55%
		TOTAL	4,134	78.37%	5,699	81.80%
<i>*Measure Codes: EC (Energy Community), EM (Energy Municipal), TRC (Transportation), WC (Waste Community), WM (Waste Municipal), WTRC (Waste Community)</i>						

Draft Green Building Award Application

Required Submittals

- Site Plan. Remodel Projects must submit “before” and “after” photographs.
- Floor Plans
- Photographs of Green Building features.
- A 1-2 page written summary of how the project incorporates Green Building design

The following section must be completed:

Building Size (square footage) _____
Type of Project: ___ New ___ Remodel ___ Both (___ % new ___ % remodel)
Final Inspection date _____

Project Address _____

Project Start Date _____

Applicant _____

Address _____

Phone _____ Email _____

Architect _____

Address _____

Phone _____ Email _____

Builder _____

Address _____

Phone _____ Email _____

Owner _____

Address _____

Phone _____ Email _____