



Item No. 20 Town of Atherton

CITY COUNCIL STAFF REPORT – REGULAR AGENDA

TO: HONORABLE MAYOR AND CITY COUNCIL

THROUGH: GEORGE RODERICKS, CITY MANAGER

FROM: STEPHANIE B. DAVIS, AICP SENIOR PLANNER

DATE: JANUARY 18, 2017

SUBJECT: APPROVE PRIORITIZATION OF GREENHOUSE GAS REDUCTION MEASURES IN THE ADOPTED CLIMATE ACTION PLAN AS RECOMMENDED BY THE ENVIRONMENTAL PROGRAMS COMMITTEE (EPC)

RECOMMENDATION

It is recommended that the City Council review and approve the prioritized Greenhouse Gas (GHG) reduction measures in the adopted Climate Action Plan (CAP) as recommended by the Environmental Programs Committee (EPC).

BACKGROUND

On October 19, 2016 the City Council approved a Climate Action Plan (CAP) for the Town, which includes specific program and policy recommendations in order for the Town to reduce its Greenhouse Gas (GHG) emission levels. The CAP includes twenty-five (25) specific GHG reduction measures which target the following four strategies. These measures encourage and support voluntary implementation through enhanced public education and outreach, as well as applying low-cost efficient programs and policies that the Town is either already implementing and/or could utilize the services of outside organizations/companies with existing supporting programs. Implementation of these measures, allows the Town to reduce GHG levels 17% below the 2005 emissions by the year 2020, and 49% below 2005 levels by the year 2030. (See Attachment 1, CAP Summary Table of GHG Reduction Measures).

1. Energy efficiency, water conservation, and green building
2. Transportation and land use
3. Waste reduction and recycling
4. Education and promotion

The Council directed that the EPC review and prioritize the measures for Council consideration. On November 29, 2016 the EPC reviewed and prioritized these 25 GHG reduction measures for implementation. Following tonight's meeting, the EPC would begin discussion on potential

implementation efforts for each of the prioritized measures, as well as integrate the final Council direction into their discussion of potential, associated 2017 Earth Day activities at their January 19, 2017 EPC meeting.

ANALYSIS

Of the 25 adopted GHG reduction measures, the EPC has recommended that 16 of these measures are more immediately prioritized for implementation (See Table 1 below). Consideration was based on the amount of reduction the measure would achieve, while also evaluating the implementation effort and cost effectiveness of each measure selected. The EPC further identified that many of the measures would require similar efforts in implementation efforts and resources, and as such, grouped several measures together within a total of six (6) overarching topic areas. The remaining 9 measures that were not prioritized are acknowledged as still pertinent to effectively reduce the Town’s carbon footprint, however are recommended to be addressed at a later time. 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.

Table 1: List and Description of 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 | 1,110 | 21.04% | 1,169 | 16.78% |

| | | | | | | |
|---|--------------------|--|--------------|---------------|--------------|---------------|
| | | government operations | | | | |
| 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> | | | | | | |

POLICY FOCUS

Approval of these EPC recommended prioritized GHG reduction measures will allow the Town to begin formal implementation of the adopted CAP and work towards meeting the required State reduction for jurisdictions to reduce GHG levels by at least 15% by 2020, and 40% by 2030, as mandated in Assembly Bill (AB) 32. The EPC would be able to begin discussion and preparation of a future recommendation to the Council on more specific implementation efforts for these prioritized measures prior to their actual implementation.

FISCAL IMPACT

There is an existing \$50,000 approved budget for Planning Department services to assist in implementation of the CAP. Future, specific implementation efforts of the prioritized measures would need to be evaluated in the context of this approved budget.

PUBLIC NOTICE

Public notification was achieved by posting the agenda, with this agenda item being listed, at least 72 hours prior to the meeting in print and electronically. Information about the project is also disseminated via the Town’s electronic News Flash and Atherton Online. There are approximately 1,200 subscribers to the Town’s electronic News Flash publications. Subscribers include residents as well as stakeholders – to include, but be not limited to, media outlets, school districts, Menlo Park

Fire District, service provides (water, power, and sewer), and regional elected officials.

ATTACHMENTS

1. CAP Summary Table of GHG Reduction Measures

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| Measure Category | Description of Measure | 2020 Annual Emissions Reduction (MT CO ₂ e) | 2030 Annual Emissions Reduction (MT CO ₂ e) |
|--|---|--|--|
| Energy and Water | | | |
| EC1: Voluntary residential green building ordinance for new construction | Promote voluntary building code of zero net energy for new residential buildings. Encourage achievement of CALGreen Tier 2 energy performance and the CALGreen recommendation to install electric vehicle supply equipment. Encourage planting of shade trees for new construction with eastern, southern or western exposure, when feasible. | 81 | 74 |
| EC2. Incorporate available Energy Upgrade programs and similar rebate | The City will consider a Residential Energy Conservation Program to increase energy efficiency and water conservation through professional home energy audits. The Program may include recognition awards, a Residential Energy and Water Efficiency Checklist, public outreach, and expanded promotion of rebates/programs funded through PG&E and other organizations among other features. | 291 | 458 |
| EC3. Implement program for residential shade trees | Education and outreach to encourage existing homes to plant deciduous shade trees for houses with eastern, western or southern exposures that heat up during the summer and create alternatives as to not conflict with the priority installation of solar panels. Leverage the services of the Atherton Tree Committee to assist in planting of trees. | 61 | 111 |
| EC4. Voluntary commercial green building ordinance for new construction and major additions | Encourage use of green building code to achieve higher building performance in new commercial buildings or major additions to commercial buildings. Promote achievement of Net Zero Energy standards. | 7 | 19 |

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| | | | |
|---|--|-----------------------------|-----------------------------|
| <p>EC5. Promote PG&E commercial energy efficiency/demand response programs</p> | <p>The Town will promote and assist with marketing and outreach for PG&E energy efficiency and demand response programs. Leverage existing rebates/add additional rebates for energy efficient retrofits.</p> | <p align="center">129</p> | <p align="center">101</p> |
| <p>EC6. Community Choice Aggregation (CCA)</p> | <p>The Town is part of the Peninsula Clean Energy (PCE) Community Choice Aggregation (CCA) Program. Enabled by California legislation (AB117), Community Choice Aggregation (CCA) allows local governments to purchase and generate power to sell to residential and business customers. The Town has opted for the ECO100 option (100% renewable energy) for all Town facilities.</p> | <p align="center">2,797</p> | <p align="center">4,295</p> |
| <p>EM1. Energy efficient street lighting</p> | <p>Replace street, signal lights, parks and parking lot lighting with efficient lighting (LEDs, induction, etc.) where feasible.</p> | <p align="center">6</p> | <p align="center">4</p> |
| <p>EM2. Environmentally preferred purchasing policy - Energy</p> | <p>Implement a sustainable purchasing policy that emphasizes ENERGY STAR equipment</p> | <p align="center">2</p> | <p align="center">1</p> |
| <p>EM3. Renewable energy installation on municipal property</p> | <p>Review and consider installation of solar or other renewable energy projects at Town facilities. Implement where practical and financially feasible. Consider installation of electric car charging stations at Town facilities and provide plug-in areas, where feasible. Conduct an initial feasibility study to set a goal for on-site renewable projects.</p> | <p align="center">29</p> | <p align="center">12</p> |

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| | | | |
|--|--|------------------------------------|------------------------------------|
| <p>EM4. Energy efficiency in municipal buildings</p> | <p>Encourage all new Town facilities be built to Net Zero Energy if financially feasible and where practical. Audit older Town facilities for energy efficiency opportunities and implement energy efficient retrofits if financially feasible. Town participate in San Mateo County Energy Watch and leverage benchmarking to identify opportunities for EE upgrades and tracking energy performance. Leverage other programs that provide funding.</p> | <p align="center">105</p> | <p align="center">61</p> |
| <p>EM5. Implement municipal program for shade trees</p> | <p>Plant deciduous shade trees within public right-of-way and Town facilities with eastern, western or southern exposure that heat up during the summer. Create alternatives so as to not conflict with the priority installation of solar panels, where feasible.</p> | <p align="center">3</p> | <p align="center">2</p> |
| <p>WTRC1. Water conservation incentives</p> | <p>Make concerted effort to promote and expand the distribution of existing and/or new rebates for water efficient appliances and fixtures. Encourage landscape/irrigation professionals to participate in community landscape conservation and water efficient landscaping workshops.</p> | <p align="center">64</p> | <p align="center">93</p> |
| <p>WTRC2. Water conservation ordinance</p> | <p>Adopt Bay Area Water Supply and Conservation Agency (BAWSCA) Indoor Ordinance and Outdoor Ordinance if haven't already and enhance BAWSCA Outdoor Ordinance (all cities required to adopt).</p> | <p align="center">58</p> | <p align="center">84</p> |
| <p>WTRC3. Voluntary water conservation programs</p> | <p>Make concerted effort to promote and educate the community on water recapture efforts and how to implement them such as rain barrels, permeable pavement and gray water systems.</p> | <p align="center">1</p> | <p align="center">1</p> |
| <p></p> | <p align="center">ENERGY AND WATER TOTAL</p> | <p align="center">3,634</p> | <p align="center">5,316</p> |

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| Transportation and Land Use | | | |
|---|---|------------|------------|
| TRC1. Implement the Town's Bike Pedestrian Master Plan faster to create walkable / bikeable street landscape | Remake sub-urban landscape to make walking and biking more desirable. Bike lanes, bike parking, traffic calming, beautification, etc. Install new bicycle racks outside Town Hall. | 233 | 198 |
| TRC2. Fund and implement Bike Master Plan priorities and make having safe routes to school a Town priority | Work with Safe Routes to Schools program to ensure that our plan to develop safe bike and pedestrian routes will work; provide bike safety programs to encourage active transportation for students where practical and feasible. | 119 | 162 |
| TRM1. Efficient fleet policy | Prioritize purchase of electric vehicles and other alternative fuel vehicles where it meets operational requirement of the Police Department. Encourage staff to drive minimally and efficiently, where feasible and need dependent. | 4 | 7 |
| TRM2. Flexible schedules | Where feasible, establish alternative work schedules and telecommuting to reduce employee commute. Continue to support housing options to encourage off-duty police officers or other Town employees to stay overnight near the Town Center, where feasible and need dependent. | 31 | 30 |
| TRM3. Explore Town participation in County-wide rideshare or bus program | Explore Town participation in county-wide ride share or bus program for public employee commuting. | 1 | 1 |
| | TRANSPORTATION AND LAND USE TOTAL | 388 | 398 |
| Solid Waste | | | |

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| | | | |
|--|--|--|--|
| <p>WC1. Set higher community waste diversion goal</p> | <p>Increase participation in recycling programs and ensure weekly collection of recyclables and organic waste to achieve 86% diversion rate (increase from 71.8% diversion rate in 2010).</p> | <p align="center">1,253</p> | <p align="center">1,253</p> |
| <p>WC2. Require commercial recycling through mandatory ordinance</p> | <p>Provide outreach, education and training to commercial customers and schools to support recycling habits and understanding. All businesses and entities that generate four or more cubic yards of garbage per weeks are required to recycle under California law. Commercial customers subscribed to Recology's garage collection services receive recycling and compost collection for no additional cost.</p> | <p align="center">Supporting Measure</p> | <p align="center">Supporting Measure</p> |
| <p>WC3. Promotion of recycling/diversion of yard waste</p> | <p>Encourage the recycling/diversion of yard waste by landscapers and landscape maintenance businesses. Comply with updates to the California Integrated Waste Management Act requiring businesses to recycle organic waste by 2016. Provide residents, businesses and private schools with food scraps collection. Explore incentives for local composting of these organics.</p> | <p align="center">Supporting Measure</p> | <p align="center">Supporting Measure</p> |
| <p>WM1. Create Sustainable Vendor Policy for public events</p> | <p>Encourage recycling at major public events (including at schools) of cardboard, paper, containers and food/organics. Encourage use of recyclable silverware and food take-out packaging. Ensure provision of proper landfill, recycling and organic bins.</p> | <p align="center">Supporting Measure</p> | <p align="center">Supporting Measure</p> |
| <p>WM2. Environmentally preferred purchasing policy - Waste reduction</p> | <p>Implement a sustainable purchasing policy that emphasizes recycled materials.</p> | <p align="center">Supporting Measure</p> | <p align="center">Supporting Measure</p> |

**Climate Action Plan (CAP) Summary Table of Greenhouse Reduction Measures (GHG)
Reduction Measures**

| | | | |
|---|---|--------------------|--------------------|
| WM3. Approach a zero waste policy in government operations | Government Policy to improve diversion in Town operations by 2020/2030. | Supporting Measure | Supporting Measure |
| | SOLID WASTE TOTAL | 1,253 | 1,253 |
| | ALL SECTORS TOTAL | 5,275 | 6,967 |