

# City Of Piedmont Council Agenda Report

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DATE: September 20, 2010

FROM: Kevin Jackson, Assistant Planner

SUBJECT: **Informational update on the implementation of the Climate Action Plan and adopted Environmental Task Force actions.**

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## BACKGROUND:

On January 4, 2010 Council adopted 31 actions recommended by the Environmental Task Force to increase waste diversion and energy efficiency in Piedmont and on March 15, 2010 Council adopted the Piedmont Climate Action Plan, which includes 32 measures that the City can implement in order to reach its greenhouse gas emissions target of 15% below 2005 levels by 2020. This report provides a brief update on the implementation of the adopted actions and measures.

## ENVIRONMENTAL TASK FORCE (ETF) ACTIONS:

Thirty-one of the actions recommended by the Environmental Task Force were adopted by the City Council and address municipal operations, legislation, purchasing, capital infrastructure, transportation and outreach. Twelve of these actions replicate an action included in the CAP. When adopting the ETF-recommended actions in January 2010, the Council recognized that the creation of a “Sustainability Coordinator” position would be necessary for the implementation of most of the actions. Since January work has begun on six of the actions with current staff (See tables on pages 5 – 7). They are:

10. Participate in the Countywide voluntary Renewable Energy Assessment District.
18. Consider retrofits in City Hall and other City buildings to reduce energy use.
20. Utilize energy-efficient lighting when City streetlights are replaced or when new streetlights are installed.
24. Apply for grants to cover recycling and energy conservation capital costs.
29. Use traditional media, such as television and newspapers, to increase awareness of environmental issues, particularly waste prevention and reduction.
30. Coordinate closely with the Piedmont Unified School District.

In addition, four of the actions have been implemented and/or are ongoing. They are:

6. Implement a CFL bulb recycling program – implemented.
8. Implement a Bay-friendly Landscaping Ordinance – implemented.
17. Acquire and install recycling receptacle “stations” in public spaces – implemented.
31. Continue focused education and outreach on waste reduction, especially food scrap recycling – implemented and ongoing.

## CLIMATE ACTION PLAN (CAP):

The CAP includes 32 measures for the City to implement so that it can meet its greenhouse gas (GHG) reduction target by 2020. The measures address the areas of building and energy (BE), waste and water (WW), and transportation and land use (TL). As the tables on pages 8 - 19 of this report indicate, 14 of the 32 measures are in some initial or partial stage of implementation using existing staff. They are:

1. BE 1.1- B Evaluate the potential to locate cost-effective renewable energy systems on City Properties.
2. BE 2.1-B Work with StopWaste.Org to verify that the required efficiency upgrade package achieves at least 20% improvement in the average Piedmont home.
3. BE 2.2 Identify and consider developing financial incentives and low-cost financing products and programs that encourage investment in energy efficiency and renewable energy within existing residential buildings.
4. BE 2.3 Educate residents about the availability of free home energy audit programs and encourage implementation of audit findings.
5. BE 3.1 Consider developing and implementing point-of-sale commercial energy efficiency upgrade requirements and/or incentives if necessary.
6. BE 3.2 Identify and develop financial incentives and low-cost financing products and programs to encourage investment in energy efficiency and renewable energy within existing commercial buildings.
7. BE 4.1 Consider adopting additional standards for energy and water efficiency if necessary.
8. BE 5.1 Develop a comprehensive renewable energy financing and informational program for residential and commercial uses.
9. BE 6.1 Work with Alameda County to convert street lights to LED bulbs or LED-solar systems.
10. WW 1.1-C Expand outreach programs to maximize participation in waste reduction and diversion programs.
11. WW 1.2 Establish an environmentally responsible government purchasing policy.
12. WW 2.1 Encourage residential and commercial users to participate in EBMUD's free water audit program.
13. TL 2.1-A Consult with AC transit to ensure Piedmont bus stops provide shade, weather protection, seating, lighting, and route information.
14. TL 3.4-A Ensure that essential infrastructure improvements are made to enable safe routes to school.

## FACTORS AFFECTING IMPLEMENTATION:

### **Funding**

On the whole, the measures and actions that have been completed or have seen progress have been those that have received grant funds. Sources for grant funds and the funded programs include:

Source: StopWaste.Org  
Programs: Outreach materials program. (\$89,952)  
Civic Bay-Friendly Landscaping ordinance. (funded staff time)  
Civic Green Building ordinance. (funded staff time)  
Recycling receptacle program for the City's Parks and Public spaces. (\$26,304)

PUSD recycling receptacles and composters. (\$8,059)

Source: Energy Efficiency and Conservation Block Grants (EECBG), which are funds distributed by the California Energy Commission (CEC) and funded by the American Recovery and Reinvestment Act of 2009 (ARRA):

Program: Replacement of 80 to 100 streetlights to LED fixtures. (\$58,369)

Source: SEP 1 grant funds distributed by the California Energy Commission (CEC) and funded by the American Recovery and Reinvestment Act of 2009 (ARRA):

Program: The CaliforniaFIRST existing home energy retrofit financing program, currently on hold. (\$780,000 indirect funding)

Source: SEP 2 grant funds distributed by the California Energy Commission (CEC) and funded by the American Recovery and Reinvestment Act of 2009 (ARRA):

Program: The Retrofit Bay Area program, which is the countywide version of Energy Upgrade California. (\$10.75 million indirect funding)

Source: EPA's Climate Showcase Grant Program (Small Cities Climate Action Partnership)

Program: Energy efficient HVAC replacement City Hall (partial funding, currently not green-lighted). (\$25,000)

### **Staffing**

As noted above, when adopting the actions recommended by the Environmental Task Force in January 2010, the Council recognized that the creation of a "Sustainability Coordinator" position would be essential to the timely implementation of the specified actions and measures and voiced its support for the position in concept. However, the Council also stressed that there was no City funding available for such a position and asked staff to explore the possibility of obtaining grant funding to hire part-time or short-term person to oversee program implementation.

StopWaste.Org provides approximately \$32,000 in annual Measure D funds that may be used for administrative costs directly related to waste diversion measures. Currently these monies fund in part the City Planner and Assistant Planner positions for time managing the City's waste diversion programs. Besides this source, staff has found no other available source of grant funds that would consistently fund a part- or full-time position or a one-time grant that would fund a short-term position. Using Measure D funds to support the Sustainability Coordinator position would require more money from the General Fund to replace the Measure D funds that currently cover a portion of the City Planner and Assistant Planner salaries.

Current Planning staff has managed the Climate Action Plan development, coordinated the Environmental Task Force, managed the City's waste diversion and recycling programs, and (until recently) managed the Clean Water program. Planning staff is also managing the EECBG and EPA grants that have allowed for implementation of some of the measures that have seen implementation progress. Unfortunately, the department lost a full-time Planning Technician position in January 2010. In addition, Planning Technician Manira Sandhir is on maternity leave from May through November. Although this shortage has been partially alleviated with the short-term employment of Planning Technician Cyrus Dorosti from June through September 17<sup>th</sup>, the reduction in staff and an increase in planning applications (a 16% increase in the number of applications in 2010 over 2009 numbers) have severely limited the ability of the department to focus on implementation of CAP and ETF measures.

## CONCLUSION:

Progress has been made on implementing a few of the CAP measures and ETF actions. However, a majority of actions await an improved economy and replenished staffing levels for implementation. Staff will continue to pursue grant and funding opportunities as they become available.

## Environmental Task Force - Council Adopted Actions

(31 of 35 recommended actions were adopted by Council. The following tables show the adopted recommendations and retains the original action numbers.)

| Municipal Operations |   |                         |               |                    |                               |          |  |
|----------------------|---|-------------------------|---------------|--------------------|-------------------------------|----------|--|
| Action               | Priority/<br>Timing   | Fiscal<br>Impact        | CAP Action    | Responsibility     | Implementation<br>Progress    | Notes    |  |
| 1                    | Pursue funding for a part-time (shared) sustainability coordinator who could help facilitate and monitor outreach and educational programs. | Very High/<br>Immediate | \$8k-\$12k/yr |                    |                               | None     |  |
| 2                    | Complete a Municipal Energy and Water Audit.  | Very High/<br>Immediate | None          | BE 1.1-A<br>WW 2.1 | Staff                         | None     |  |
| 3                    | Focus on the Basics to Reduce Municipal Utility Bills.  | High/<br>Ongoing        | Positive      |                    | Staff                         | None     |  |
| 5                    | Implement a Piedmont compost sale/give away program.  | Low/<br>Long-term       | < \$100       |                    | Sustainability<br>Coordinator | None     |  |
| 6                    | Implement a CFL bulb recycling program.   | High/<br>Immediate      | None          |                    | Fire Dept.                    | Complete | Coordinated with Alameda Co.<br>Household Hazardous Waste<br>Program |
| 7                    | Enforce the ban on private leaf blowers/ Reduce the use of gas powered leaf blowers for parks maintenance.                                  | High/<br>Ongoing        | Further study |                    | Staff                         | None     |  |
| 8                    | Implement a Bay-friendly Landscaping Ordinance  | High/<br>Ongoing        | Positive      |                    | Staff                         | Complete | Affects municipal projects only                                      |

| Legislative Actions |   |                         |                      |                |                               |         |  |
|---------------------|---|-------------------------|----------------------|----------------|-------------------------------|---------|--|
| Action              | Priority/<br>Timing   | Fiscal<br>Impact        | CAP Action           | Responsibility | Implementation<br>Progress    | Notes   |  |
| 9                   | Consider reduced permit fees (or waivers) for renewable energy projects.      | High/<br>Short-Term     | \$6k/yr              |                | Staff/SQ                      | None    | Staff is exploring funding fee<br>incentive program with grant<br>funds from EPA.                                  |
| 10                  | Participate in the Countywide voluntary Renewable Energy Assessment District. | Very High/<br>Immediate | Minor to<br>Moderate | BE 5.1         | Staff                         | On hold | Staff is working with regional<br>and state agencies to develop<br>said program, but SEP-1is<br>currently on hold. |
| 11                  | Adopt a Special Event Recycling Ordinance.                                    | High/<br>Immediate      | Minor                |                | Staff/SQ                      | None    |  |
| 14                  | Consider increasing the City's 2020 greenhouse gas reduction target.          | Very High/<br>Immediate | Unknown              | N/A            | Sustainability<br>Coordinator | None    |  |

| <b>Environmentally Preferable Purchasing</b> |   |                             |                          |                   |                               |                                    |  |
|--|---|-----------------------------|--------------------------|-------------------|-------------------------------|------------------------------------|--|
| <b>Action</b>                                |   | <b>Priority/<br/>Timing</b> | <b>Fiscal<br/>Impact</b> | <b>CAP Action</b> | <b>Responsibility</b>         | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| 16   | Phase in an environmentally preferable purchasing policy for the City, setting a threshold for acceptable cost impacts. | Very High/<br>Immediate     | TBD                      | WW 1.2            | Sustainability<br>Coordinator | None                               | EPA grant and StopWaste grant funds may facilitate and incentivize policy development. |

| <b>Infrastructure and Capital</b> |  |                                      |  |                   |                               |                                    |  |
|-----------------------------------|--|--------------------------------------|--|-------------------|-------------------------------|------------------------------------|--|
| <b>Action</b>                     |  | <b>Priority/<br/>Timing</b>          | <b>Fiscal<br/>Impact</b>                     | <b>CAP Action</b> | <b>Responsibility</b>         | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| 17                                | Acquire and install recycling receptacle “stations” in public spaces.  | High/<br>underway                    | \$25k-\$30k                                  |                   | Public Works                  | Complete                           | Installed and being evaluated.   |
| 18                                | Consider retrofits in City Hall and other City buildings to reduce energy use.   | Very High/<br>Short-term             | Minor to moderate                            | BE 1.1            | Staff                         | Minimal                            | Lighting in City Hall complete. EPA grant funds may kick-start HVAC replacement in City Hall |
| 19                                | Promote installation of solar panels on renovated or new City facilities.  | High/<br>Ongoing                     | TBD  | BE 1.1            | Staff/SQ                      | None                               |  |
| 20                                | Utilize energy-efficient lighting when City streetlights are replaced or when new streetlights are installed.              | Moderate/<br>Ongoing                 | Positive after 3+ years                      | BE 6.1            | Staff                         | Grant funds approved               | EECBG funds should provide 80 to 100 fixtures. Should be installed in 2011                   |
| 21                                | Replace the incandescent bulbs in the Oakland Avenue Bridge necklace with cold cathode bulbs.                              | Moderate/<br>Short-term              | Positive                                     |                   | Staff                         | Currently infeasible               | Staff determined that cost and product unavailability makes the project currently infeasible |
| 22                                | Study the feasibility of alternative water sources to reduce the use of potable water for City park and median irrigation. | Low/<br>Long-term                    | High? (TBD)                                  | WW 2.2<br>WW 2.4  | Sustainability<br>Coordinator | None                               | Public Works has determined that local aquifers are not feasible or dependable.              |
| 23                                | Consider replacing paper towel dispensers with electric hand dryers in restrooms at public buildings.                      | Low/<br>Long-term                    | \$300-\$500/<br>Fixture (paper cost savings) |                   | Sustainability<br>Coordinator | None                               |  |
| 24                                | Apply for grants to cover recycling and energy conservation capital costs.   | Very High/<br>Immediate<br>& Ongoing | Staff time not quantified                    |                   | Sustainability<br>Coordinator | \$83,369                           | \$58,369 EECBG funds for LED streetlights & \$25k EPA grant funds (City Hall HVAC?)          |

| <b>Transportation</b> |   |                             |   |                   |                               |                                    |              |
|-----------------------|---|-----------------------------|---|-------------------|-------------------------------|------------------------------------|--------------|
| <b>Action</b>         |   | <b>Priority/<br/>Timing</b> | <b>Fiscal<br/>Impact</b>                  | <b>CAP Action</b> | <b>Responsibility</b>         | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| 25                    | Replace gasoline powered cars with hybrids or electric vehicles as the City fleet is replaced.  | Moderate/<br>Ongoing        | \$4k/vehicle<br>saved in 3-8 yr           | TL 3.1            | Staff                         | None                               |              |
| 26                    | Promote the #11 bus as Piedmont's BART Shuttle and aggressively encourage its use by residents. | Very High/<br>Immediate     | Volunteer<br>driven with<br>staff support |                   | Staff/SQ                      | None                               |              |
| 27                    | Initiate a "Safe Routes to School" program to encourage walking and bicycling to school.        | High/<br>Short-term         | Grant funded                              | TL 3.4            | Sustainability<br>Coordinator | None                               |              |

| <b>Communications and Outreach</b> |   |                                  |                          |                   |                               |                                    |  |
|------------------------------------|---|----------------------------------|--------------------------|-------------------|-------------------------------|------------------------------------|--|
| <b>Action</b>                      |   | <b>Priority/<br/>Timing</b>      | <b>Fiscal<br/>Impact</b> | <b>CAP Action</b> | <b>Responsibility</b>         | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| 28                                 | Upgrade Piedmont's website, including a dedicated "green page"  | Very High/<br>Immediate          | \$1k-\$5k/year           |                   | Sustainability<br>Coordinator | None                               |  |
| 29                                 | Use traditional media, such as television and newspapers, to increase awareness of environmental issues, particularly waste prevention and reduction.     | High/<br>Immediate<br>(Ongoing)  | Variable                 | TL 3.5            | Sustainability<br>Coordinator | Minimal                            | No concerted City effort but <i>Piedmont Post</i> does report on waste reduction and energy efficiency efforts             |
| 30                                 | Coordinate closely with the Piedmont Unified School District.   | High/<br>Immediate<br>(Ongoing)  | Positive                 | TL 3.4            | Sustainability<br>Coordinator | Minimal                            | City has funded (with StopWaste grants) school recycling receptacles and composters  |
| 31                                 | Continue focused education and outreach on waste reduction, especially food scrap recycling.  | High/<br>Immediate<br>(Ongoing)  | Minor                    |                   | Sustainability<br>Coordinator | Ongoing                            | Bill inserts are included in each quarterly garbage billing. Recycling information available on City website and in print. |
| 32                                 | Extend the City's outreach efforts to private schools and businesses, including contractors and gardeners.  | High/<br>Short-term<br>(Ongoing) | Minor                    | BE 3.3            | Sustainability<br>Coordinator | None                               |  |
| 33                                 | Work with PG&E and EBMUD to distribute energy and water conservation information through their website, City fairs and festivals, and other City outlets. | Very-high/<br>Ongoing            | Minor                    |                   | Sustainability<br>Coordinator | None                               |  |
| 34                                 | Recognize resident efforts through an environmental honor roll and awards programs.   | Moderate/<br>Short-term          | Minor                    |                   | Sustainability<br>Coordinator | None                               |  |
| 35                                 | Consider (or cosponsor) contests, tours, and lecture series which encourage greener living.   | Low/<br>Long-term                | Moderate                 |                   | Sustainability<br>Coordinator | None                               |  |

**Climate Action Plan – the following measures and actions are included in Piedmont’s CAP.**

**Objective BE-1: Reduce Energy Use in City Facilities**

| <b>Measure BE 1.1: Install cost-effective renewable energy systems on all city buildings and purchase remaining energy from renewable sources.</b> |  |   |                       |  |                                    |   |
|--|--|---|-----------------------|--|------------------------------------|---|
| <b>Action</b>  |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>                                      |
| <b>A</b>   | Conduct energy audits of all municipal buildings.  | \$5,714/<br>Low   | Recreation            | December 31, 2010                          | None                               |   |
| <b>B</b>   | Evaluate the potential to locate cost-effective renewable energy systems on City Properties.   |   | Recreation            | July 31, 2012                              | Evaluated City Hall                | Focus now is on evaluating other City Properties. |
| <b>C</b>   | Purchase remaining energy from renewable sources or form PG&E’s <i>Climate Smart Program</i> . |   | Finance               | January 1, 2020                            | None                               |   |
| <b>Progress Indicators</b>   |  |   | <b>Target</b>         |  |                                    |   |
| <b>i</b>   | Percentage of City’s building energy saved through energy retrofits and conservation measures. |   |                       | 20% by 2015<br>40% by 2020                 |                                    |   |
| <b>ii</b>  | Percentage of City’s building electricity from renewable sources                               |   |                       | 100% by 2020                               |                                    |   |

| <b>Measure BE 1.2: Install building performance data (energy and water) displays in all City buildings.</b> |  |   |                       |  |                                    |              |
|---|--|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>   |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| <b>A</b>  | Install electronic building performance displays in all publicly accessible buildings. | \$5,238/<br>Low   | Recreation            | December 31, 2014                          | None                               |              |
| <b>Progress Indicators</b>  |  |   | <b>Target</b>         |  |                                    |              |
| <b>i</b>  | See Measure BE 1.1.  |   |                       | See Measure BE 1.1.                        |                                    |              |

**Objective BE-2: Consider Retrofitting Existing Residential Buildings**

| <b>Measure BE 2.1: Consider developing and implementing point-of-sale residential energy and water efficiency upgrade requirements and/or incentives if necessary.</b> |   |   |                              |  |                                    |   |
|--|---|---|------------------------------|--|------------------------------------|---|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b>                           | <b>Implementation<br/>Progress</b> | <b>Notes</b>  |
| <b>A</b>   | As the economy improves and related programs are developed, consider adopting a Residential Energy Conservation Ordinance requiring and/or incentivizing point-of-sale energy efficiency upgrades if necessary. | \$5,714/<br>Low   | City Council<br>Public Works | December 31, 2015  | None                               |   |
| <b>B</b>   | Work with StopWaste.Org to verify that the required efficiency upgrade package achieves at least 20% improvement in the average Piedmont home.  |   | Public Works                 | December 31, 2015  | In development                     | Minimum efficiency improvement included in Energy Upgrade CA program. |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>                |  |                                    |   |
| <b>i</b>   | Percentage of residential units that have implemented energy efficiency improvements since 2004.  |   |                              | 35% of residential units by 2015<br>55% of residential units by 2020 |                                    |   |



| <b>Measure BE 2.2: Identify and consider developing financial incentives and low-cost financing products and programs that encourage investment in energy efficiency and renewable energy within existing residential buildings.</b> |  |   |                         |  |                                    |  |
|--|--|---|-------------------------|--|------------------------------------|--|
| <b>Action</b>  |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>   | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| <b>A</b>   | Evaluate various financing products that would encourage property owners to invest in energy efficiency upgrades and renewable energy systems in existing homes.                                 | \$5,714 to \$80,625/<br>Low to Med                                | Finance<br>Public Works | July 30, 2010                              | On hold.                           | CaliforniaFIRST financing program on hold until SEP-1 grant funding is resolved. |
| <b>B</b>   | Consult with other agencies, utilities and private lenders to evaluate and develop cost effective financing products.  |   | Finance                 | December 31, 2010                          | On hold.                           | See note for Action A above.   |
| <b>C</b>   | Develop a robust public outreach program to educate residents about the availability of energy efficiency improvement financing and benefits to home owners and community GHG reduction efforts. |   | Finance<br>Public Works | July 31, 2011                              | On hold.                           | See note for Action A above.   |
| <b>Progress Indicators</b>   |  |   | <b>Target</b>           |  |                                    |  |
| i  | See Measure BE 2.1.  |   | See Measure BE 2.1.     |  |                                    |  |

| <b>Measure BE 2.3: Educate residents about the availability of free home energy audit programs and encourage implementation of audit findings.</b> |   |   |                       |  |                                    |   |
|--|---|---|-----------------------|--|------------------------------------|---|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>  |
| <b>A</b>   | Find and partner with home energy audit providers to develop public outreach program with focus on post-audit follow-through. | \$3,750/<br>Low   | Public Works          |  | In development.                    | Some home energy audits and verification will be required as part of Energy Upgrade CA program. |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>         |  |                                    |   |
| i  | See Measure BE 2.1.   |   | See Measure BE 2.1.   |  |                                    |   |

**Objective BE-3: Consider Retrofitting Existing Commercial Buildings**

**Measure BE 3.1: Consider developing and implementing point-of-sale commercial energy efficiency upgrade requirements and/or incentives if necessary.**

| Action                     |  | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility   | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes  |
|----------------------------|--|--|--|------------------------------------|----------------------------|--|
| A                          | As the economy improves and related programs are developed, consider adopting a Commercial Energy Conservation Ordinance requiring and/or incentivizing point-of-sale energy efficiency upgrades if necessary. | \$5,714/<br>Low  | City Council<br>Public Works   | July 31, 2015                      | In development             | Ordinance not currently being considered. Incentive programs being explored with regional agencies using ARRA funding. |
| B                          | Verify that the required efficiency upgrade package achieves at least 12% improvement in average Piedmont commercial building.   |  | Public Works   | July 31, 2012                      | In development.            |  |
| <b>Progress Indicators</b> |  |  | <b>Target</b>  |                                    |                            |  |
| i                          | Percentage of commercial buildings that have implemented energy efficiency improvements since 2004.  |  | 20% of residential units by 2015<br>32% of residential units by 2020 |                                    |                            |  |

**Measure BE 3.2: Identify and develop financial incentives and low-cost financing products and programs to encourage investment in energy efficiency and renewable energy within existing commercial buildings.**

| Action                     |  | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility          | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes               |
|----------------------------|--|--|-------------------------|------------------------------------|----------------------------|---------------------|
| A                          | Evaluate various financing products that would encourage property owners to invest in energy efficiency upgrades and renewable energy systems in existing commercial buildings.                  | \$5,714 to \$80,625/<br>Low to Med                       | Finance<br>Public Works | July 30, 2010                      | On hold.                   | See Measure BE 2.2. |
| B                          | Consult with other agencies, utilities and private lenders to evaluate and develop cost effective financing products.  |  | Finance                 | December 31, 2010                  | On hold.                   | See Measure BE 2.2. |
| C                          | Develop a robust public outreach program to educate residents about the availability of energy efficiency improvement financing and benefits to home owners and community GHG reduction efforts. |  | Finance<br>Public Works | July 31, 2011                      | On hold.                   | See Measure BE 2.2. |
| <b>Progress Indicators</b> |  |  | <b>Target</b>           |                                    |                            |                     |
| i                          | See Measure BE 3.1.  |  | See Measure BE 3.1.     |                                    |                            |                     |

| <b>Measure BE 3.3: Partner with PG&amp;E to provide a business education program that encourages commercial energy efficiency improvements</b> |   |   |                       |  |                                    |              |
|--|---|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| A  | Provide outreach programs to community business, both retail and office, to effect energy reductions. | \$5,714/<br>Low   | Public Works          |  | None                               |              |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>         |  |                                    |              |
| i  | See Measure BE 3.1.   |   | See Measure BE 3.1.   |  |                                    |              |

**Objective BE-4: Consider Requiring Energy Performance in New Construction**

| <b>Measure BE 4.1: Consider adopting additional standards for energy and water efficiency if necessary.</b> |   |   |                              |  |                                    |   |
|---|---|---|------------------------------|--|------------------------------------|---|
| <b>Action</b>   |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>  |
| A   | Consider adopting an expanded Green Building Ordinance incorporating energy and water efficiency standards contained in Chapter 5 and 6 of the 2008 California Green Building Code if such standards are necessary to achieve the community’s GHG reduction target. | \$5,714/<br>Low   | City Council<br>Public Works | December 31, 2011                          | Pending                            | The new California Green Building code will go into effect January 1, 2010. It is unknown if code adoption alone will achieve target. |
| <b>Progress Indicators</b>  |   |   | <b>Target</b>                |  |                                    |   |
| i   | NA  |   | NA                           |  |                                    |   |

| <b>Measure BE 4.2: Provide development incentives for buildings that exceed the State’s current Title-24 standards for energy efficiency by 25%.</b> |   |   |                              |  |                                    |              |
|--|---|---|------------------------------|--|------------------------------------|--------------|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| A  | Adopt incentive programs for new construction to exceed required energy efficiency. | NA/<br>Low  | City Council<br>Public Works | NA   | None                               |              |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>                |  |                                    |              |
| i  | NA  |   | NA                           |  |                                    |              |

**Objective BE-5: Maximize the Use of Renewable Energy**

**Measure BE 5.1: Develop a comprehensive renewable energy financing and informational program for residential and commercial uses.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility          | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes               |
|----------------------------|---|--|-------------------------|------------------------------------|----------------------------|---------------------|
| A                          | Develop a renewable energy financing program in conjunction with Alameda County and participating cities.       | \$3,750/<br>Low  | Finance<br>Public Works | December 31, 2011                  | On hold                    | See Measure BE 2.2. |
| B                          | Develop a public information program to encourage residents and businesses to install renewable energy systems. |  | Public Works            | December 31, 2011                  | On hold                    | See Measure BE 2.2. |
| <b>Progress Indicators</b> |   |  | <b>Target</b>           |                                    |                            |                     |
| i                          | Percentage of residential and commercial buildings that have installed photovoltaic or solar hot water heaters. |  |                         | 15% by 2015<br>20% by 2020         |                            |                     |

**Measure BE 5.2: Join Bay Area efforts to ensure green public transit energy sourcing.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|---|--|----------------|------------------------------------|----------------------------|-------|
| A                          | Investigate and join existing efforts to effect renewable transit energy sources. | \$5,714/<br>Low  | Not identified | Not identified                     | None                       |       |
| <b>Progress Indicators</b> |   |  | <b>Target</b>  |                                    |                            |       |
| i                          | Percentage of transit agency energy consumption from renewable sources.           |  |                | Not identified                     |                            |       |

**Objective BE-6: Community Energy Management**

**Measure BE 6.1: Work with Alameda County to convert street lights to LED bulbs or LED-solar systems.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes   |
|----------------------------|---|--|----------------|------------------------------------|----------------------------|---|
| A                          | Replace existing streetlights with LED or LED-solar fixtures.   | Not identified/<br>Low                                   | Public Works   | Not identified                     | Grant funds approved       | EECBG funds should provide 80-100 fixtures (of ±842). |
| <b>Progress Indicators</b> |   |  | <b>Target</b>  |                                    |                            |   |
| i                          | Percentage of City streetlights with LED or LED-solar fixtures. |  |                | Not identified                     |                            |   |

**Measure BE 6.2: Research the feasibility of joining the Community Choice Aggregation efforts of Berkeley, Oakland, and Emeryville.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|---|--|----------------|------------------------------------|----------------------------|-------|
| A                          | Investigate Community Choice Aggregation program of Berkeley, Oakland and Emeryville and join efforts if it is in Piedmont's interests. | \$5,714/<br>Low  | Not identified | Not identified                     | None                       |       |
| <b>Progress Indicators</b> |   |  | <b>Target</b>  |                                    |                            |       |
| i                          | Not identified  |  |                | Not identified                     |                            |       |

| <b>Measure BE 6.3: Encourage PG&amp;E and EBMUD to provide comparative energy and water conservation metrics on utility bills.</b> |   |   |                       |  |                                    |              |
|--|---|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| A  | Work with PG&E and EBMUD to develop comparative energy and water conservation metrics for inclusion on utility bills. | \$5,714/<br>Low   | Public Works          | December 31, 2010                          | none                               |              |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>         |  |                                    |              |
| i  | NA  |   |                       | NA   |                                    |              |

### **Objective WW-1: Become a Zero-waste Community**

| <b>Measure WW 1.1: Establish a zero-waste reduction target for 2030 and work with Alameda County, neighboring cities, and other organizations to leverage the zero-waste effort.</b> |  |   |                       |  |                                    |   |
|--|--|---|-----------------------|--|------------------------------------|---|
| <b>Action</b>  |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>  |
| A  | Develop a resolution of support to encourage the State and federal governments to pass legislation that requires extended producer responsibility and improves recyclability of products and packaging.  | \$5,714/<br>Low   | City Council          | December 31, 2010                          | None                               | The City could choose to consider to support the California Product Stewardship Council.  |
| B  | Adopt a resolution to achieve 90% waste reduction and diversion by 2030.   |   | City Council          | December 31, 2011                          | None                               |   |
| C  | Expand outreach programs to maximize participation in waste reduction and diversion programs.  |   | Public Works          | July 31, 2011                              | Ongoing                            | Produced & distributed brochure, inserts, poster and promotional items with July 2008 rollout of new programs. Program ongoing. |
| D  | Adopt a resolution of support that encourages the State and federal governments to create a voluntary <i>Do Not Mail Registry</i> to reduce junk mail deliveries.  |   | City Council          | July 21, 2010                              | None                               |   |
| E  | Consider adopting an ordinance that requires all household and commercial food scraps and food-soiled paper to be placed in organics carts, all commercial food service providers to use recycling and organics services, and the City's waste collector to minimize collection route distances and use fuel efficient vehicles. |   | City Council          | December 31, 2010                          | None                               |   |
| <b>Progress Indicators</b>   |  |   | <b>Target</b>         |  |                                    |   |
| i  | Community waste diversion rate   |   |                       | 75% by 2015<br>80% by 2020<br>90% by 2030  |                                    |   |

| <b>Measure WW 1.2: Establish an environmentally responsible government purchasing policy.</b> |  |   |                                 |  |                                    |  |
|---|--|---|---------------------------------|--|------------------------------------|--|
| <b>Action</b>   |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>           | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| A   | Establish an environmentally responsible purchasing policy that includes a preference to products produced with little or no GHG emissions | \$5,714/<br>Low   | City Council<br>All Departments | Not identified                             | Minimal                            | There is incentive to develop and adopt a policy by 2012 due to EPA grant availability and StopWaste mitigation fund requirements. |
| <b>Progress Indicators</b>  |  |   | <b>Target</b>                   |  |                                    |  |
| i   | Adoption of policy.  |   |                                 | Not identified.                            |                                    |  |

### Objective WW-2: Conserve Water Resources

| <b>Measure WW 2.1: Encourage residential and commercial users to participate in EBMUD's free water audit program.</b> |   |   |                       |  |                                    |  |
|---|---|---|-----------------------|--|------------------------------------|--|
| <b>Action</b>   |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| A   | Partner with EBMUD and StopWaste.Org to provide water conservation outreach programs and encourage residential and commercial users to participate in free water efficiency audits. | \$3,750/<br>Low   | Public Works          | Not identified                             | Limited                            | City Bay-Friendly Landscape ordinance affects municipal projects only. Outreach is available to all. |
| <b>Progress Indicators</b>  |   |   | <b>Target</b>         |  |                                    |  |
| i   | Not identified  |   |                       | Not identified                             |                                    |  |

| <b>Measure WW 2.2: Encourage use of graywater and rainwater collection in existing residential and commercial uses.</b> |  |   |                              |  |                                    |  |
|---|--|---|------------------------------|--|------------------------------------|--|
| <b>Action</b>   |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| A   | Adopt an ordinance that incorporates provisions of the California Water Efficient Landscaping Ordinance and further enables property owners to construct graywater systems and rainwater collection systems that conform to Title 24 Part 5 of the California Plumbing Code. | \$3,750/<br>Low   | City Council<br>Public Works | December 31, 2010                          | None                               | California WELO in effect until City adopts its own ordinance. |
| B   | Create an outreach program that encourages businesses and residents to construct graywater and rainwater collection systems on their properties.   |   | Public Works                 | July 31, 2011                              | None                               |  |
| C   | Provide City staff training regarding State code requirement for graywater systems in order to help interested parties develop systems.  |   | Public Works                 | July 31, 2011                              | None                               |  |
| <b>Progress Indicators</b>  |  |   | <b>Target</b>                |  |                                    |  |
| i   | Percentage of residential and commercial properties that have implemented graywater and/or rainwater collection systems since 2004.  |   |                              | 50% by 2020                                |                                    |  |

| <b>Measure WW 2.3: Develop a water efficient landscaping ordinance to implement the California Water Efficient Landscaping Ordinance and require or facilitate use of graywater or rainwater collection systems in new construction.</b> |   |   |                              |  |                                    |              |
|--|---|---|------------------------------|--|------------------------------------|--------------|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| A  | Partner with EBMUD and StopWaste.Org to provide water conservation outreach programs and encourage residential and commercial users to participate in free water efficiency audits. | \$5,714/<br>Low   | City Council<br>Public Works | See WW 2.2 A                               | None                               |              |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>                |  |                                    |              |
| i  | See WW 2.2 A  |   |                              | See WW 2.2 A                               |                                    |              |

| <b>Measure WW 2.4: Facilitate the installation of weather-based evapotranspiration (ET) controller irrigation systems in both City and private landscapes.</b> |   |   |                              |  |                                    |              |
|--|---|---|------------------------------|--|------------------------------------|--------------|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>        | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| A  | Install ET controller irrigation systems in all municipal landscapes.   | \$5,714/<br>Low   | Public Works                 | Not identified                             | None                               |              |
| B  | Develop program to encourage the use of ET controllers in private landscapes and require or facilitate use of ET controllers for new development and landscape projects over 2,500 square feet. |   | City Council<br>Public Works | Not identified.                            | None                               |              |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>                |  |                                    |              |
| i  | Percentage of municipal landscapes with ET controllers.   |   |                              | Not identified                             |                                    |              |
| ii   | Percentage of private landscapes with ET controllers  |   |                              | Not identified                             |                                    |              |

**Objective TL-1: Facilitate Walking and Biking in the Community**

**Measure TL 1.1: Consider expanding and enhancing bicycling and pedestrian infrastructure throughout the community if financially feasible and practical.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility   | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|---|--|--|------------------------------------|----------------------------|-------|
| A                          | Prepare and adopt a Bicycle Master Plan that coordinates with City of Oakland bicycle planning initiatives. | Not identified/<br>High                                  | Public Works   | July 31, 2012                      | None                       |       |
| B                          | Construct bicycle infrastructure improvements.  |  | Public Works   | January 1, 2020                    | None                       |       |
| C                          | Conduct a pedestrian obstacle study.  |  | Public Works   | September 1, 2011                  | None                       |       |
| D                          | Prepare and adopt a Pedestrian Master Plan.   |  | Public Works   | December 31, 2012                  | None                       |       |
| E                          | Construct pedestrian improvements identified in the pedestrian obstacle study and Pedestrian Master Plan.   |  | Public Works   | January 1, 2012                    | None                       |       |
| <b>Progress Indicators</b> |   |  | <b>Target</b>  |                                    |                            |       |
| i                          | Bicycle network coverage (excluding Class III bike routes).   |  | 15% bicycle network coverage by 2015<br>25% bicycle network coverage by 2020 |                                    |                            |       |
| ii                         | Percentage of street curbs with curb cuts   |  | 100% by 2015   |                                    |                            |       |
| iii                        | Pedestrian and bike mode share of commute trips.  |  | 5% combined by 2015  |                                    |                            |       |

**Measure TL 1.2: Install bike racks in commercial and civic areas of the City where racks do not currently exist if financially feasible and practical.**

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility                       | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|---|--|--------------------------------------|------------------------------------|----------------------------|-------|
| A                          | Conduct bicycle parking analysis in City's commercial and civic areas.  | \$1,200/<br>Low  | Public Works                         | December 31, 2011                  | None                       |       |
| B                          | Install bicycle parking facilities in underserved areas (20% of total to be Class I or II bicycle parking facilities).  |  | Public Works                         | July 31, 2012                      | None                       |       |
| C                          | Adopt an ordinance that requires new development to provide adequate bicycle parking for tenants and customers; and requires businesses with more than 30 employees to provide end-of-trip facilities including showers, lockers, and Class I bicycle storage facilities. |  | City Council<br>Public Works         | July 31, 2012                      | None                       |       |
| <b>Progress Indicators</b> |   |  | <b>Target</b>                        |                                    |                            |       |
| i                          | Bicycle-parking to auto-parking ratio.  |  | 0.5:1 by 2015<br>1:1 parking by 2020 |                                    |                            |       |
| ii                         | Percentage of businesses with over 30 employees with end-of-trip facilities.  |  | 100% by 2020                         |                                    |                            |       |



| <b>Measure TL 1.3: Consider incorporating pedestrian-friendly design features into the City's civic/commercial centers.</b> |  |   |                       |  |                                    |              |
|---|--|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>   |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| <b>A</b>  | Consider developing streetscape designs into the Highland and Grand Avenue civic and commercial areas. | Not identified/<br>High   | Public Works          | Not identified                             | None                               |              |
| <b>Progress Indicators</b>  |  |   | <b>Target</b>         |  |                                    |              |
| <b>i</b>  | Not identified   |   |                       | Not identified                             |                                    |              |

| <b>Measure TL 1.4: Evaluate the potential for mixed-use development within Piedmont's existing commercial centers.</b> |  |   |                       |  |                                    |              |
|--|--|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>  |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| <b>A</b>   | Identify the potential for high-quality, pedestrian-oriented, mixed-use development within the Civic Center Master Plan.   | \$20,000/<br>Low  | Public Works          | December 31, 2012                          | None                               |              |
| <b>B</b>   | Prepare a Specific Plan for the Grand Avenue commercial area that identifies the potential for high-quality, pedestrian-oriented, mixed-use development.               |   | Public Works          | December 31, 2015                          | None                               |              |
| <b>C</b>   | Develop small business incentive programs to encourage new neighborhood-serving uses in the Civic Center and Grand Avenue commercial areas.                            |   | Public Works          | December 31, 2012                          | None                               |              |
| <b>D</b>   | Conduct audit of land use, zoning, development standards, and other regulations that may act as barriers to neighborhood serving businesses and mixed-use development. |   | Public Works          | December 31, 2011                          | None                               |              |
| <b>Progress Indicators</b>   |  |   | <b>Target</b>         |  |                                    |              |
| <b>i</b>   | Number of new neighborhood-serving commercial amenities (e.g. restaurants, bakeries, retail stores, medical offices, etc.) in City since 2009.                         |   |                       | 3 by 2015<br>10 by 2020                    |                                    |              |

**Objective TL-2: Make Public Transit More Accessible and User-friendly**

**Measure TL 2.1:** Work with AC transit to conduct a public transit gap study and provide bus stops with safe and convenient bicycle and pedestrian access and essential improvements.

| Action                     |   | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes                                     |
|----------------------------|---|--|----------------|------------------------------------|----------------------------|---|
| A                          | Consult with AC transit to ensure Piedmont bus stops provide shade, weather protection, seating, lighting, and route information. | \$5,714/<br>Low  | Public Works   | December 31, 2017                  | Some                       | New bus stop constructed on Highland Way. |
| B                          | Conduct a study of bicycle and pedestrian access to transit stations.   |  | Public Works   | July 31, 2010                      | None                       |   |
| <b>Progress Indicators</b> |   |  | <b>Target</b>  |                                    |                            |   |
| i                          | Percentage of bus stops with shade, weather protection, seating, lighting, and route information.                                 |  |                | 80% by 2015<br>100% by 2017        |                            |   |

**Objective TL-3: Reduce Vehicle Emissions and Trips**

**Measure TL 3.1:** Improve fuel efficiency of the City vehicle fleet by purchasing low- or zero-emission vehicles when vehicles are retired from service. *(Emergency vehicles are exempt from this measure.)*

| Action                     |  | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility  | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|--|--|-----------------|------------------------------------|----------------------------|-------|
| A                          | Replace retired City vehicles (emergency vehicles excepted) with low- or zero-emission vehicles. | \$52,000/<br>Low   | All Departments | Not identified                     | None                       |       |
| <b>Progress Indicators</b> |  |  | <b>Target</b>   |                                    |                            |       |
| i                          | Percentage of non-emergency City vehicles that are low- or zero-emission.                        |  |                 | Not identified                     |                            |       |

**Measure TL 3.2:** Provide preferential public parking spaces for electric and plug-in electric hybrid vehicles.

| Action                     |  | Estimated Cost:<br>Average Annual/<br>Simplified to City | Responsibility  | CAP Timetable<br>Implement before: | Implementation<br>Progress | Notes |
|----------------------------|--|--|-----------------|------------------------------------|----------------------------|-------|
| A                          | Provide preferential parking spaces for eligible vehicle types throughout the City's commercial districts. | Not identified/<br>Low                                   | All Departments | Not identified                     | None                       |       |
| B                          | Maintain a list of eligible vehicles on the City's website.  |  | Administration  | Not identified                     | None                       |       |
| <b>Progress Indicators</b> |  |  | <b>Target</b>   |                                    |                            |       |
| i                          | Percentage commercial district parking spaces dedicated to electric or electric-hybrid vehicles.           |  |                 | Not identified                     |                            |       |

| <b>Measure TL 3.3: Facilitate ride-share opportunities for community residents.</b> |   |   |                       |  |                                    |              |
|---|---|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>   |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| <b>A</b>  | Work with MTC and other relevant agencies to facilitate ride-share programs in the community.                                 | \$5,714/<br>Low   | Public Works          | Not identified                             | None                               |              |
| <b>B</b>  | Develop a social networking website where residents with similar commutes can find each other and create effective car pools. |   | Not identified        | Not identified                             | None                               |              |
| <b>C</b>  | Provide shade, weather protection, seating, lighting, and bike racks at casual carpool pick-up areas.                         |   | Public Works          | Not identified                             | None                               |              |
| <b>Progress Indicators</b>  |   |   | <b>Target</b>         |  |                                    |              |
| <b>i</b>  | Not identified.   |   | Not identified        |  |                                    |              |

| <b>Measure TL 3.4: Work with schools to improve/expand walking, school bus use, safe routes to school programs, and trip reduction programs.</b> |   |   |                        |  |                                    |  |
|--|---|---|------------------------|--|------------------------------------|--|
| <b>Action</b>  |   | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b>  | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b>   |
| <b>A</b>   | Ensure that essential infrastructure improvements are made to enable safe routes to school.   | \$5,714/<br>Low   | Public Works           | Not identified                             | Potential                          | Infrastructure improvements have been made at the Grand-Arroyo intersection and on Linda Avenue, but these are not part of an official SRTS program. |
| <b>B</b>   | With PUSD, develop trip reduction programs that encourage walking, bicycling, carpooling, and public transit use, particularly walking school bus programs. |   | PUSD<br>Not identified | Not identified                             | None                               |  |
| <b>Progress Indicators</b>   |   |   | <b>Target</b>          |  |                                    |  |
| <b>i</b>   | Not identified.   |   | Not identified         |  |                                    |  |

| <b>Measure TL 3.5: Provide public education regarding reducing motor vehicle-related greenhouse gas emissions.</b> |  |   |                       |  |                                    |              |
|--|--|---|-----------------------|--|------------------------------------|--------------|
| <b>Action</b>  |  | <b>Estimated Cost:<br/>Average Annual/<br/>Simplified to City</b> | <b>Responsibility</b> | <b>CAP Timetable<br/>Implement before:</b> | <b>Implementation<br/>Progress</b> | <b>Notes</b> |
| <b>A</b>   | Develop outreach programs to reduce residents' transportation GHG emissions using various media and targeting walking and bicycling in the City. | \$3,750/<br>Low   | Not identified        | Not identified                             | None                               |              |
| <b>Progress Indicators</b>   |  |   | <b>Target</b>         |  |                                    |              |
| <b>i</b>   | Not identified.  |   | Not identified        |  |                                    |              |