

PUBLIC WORKS DEPARTMENT CLIMATE ACTION PLAN IMPLEMENTATION

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Public Works
Department

TODAY'S PRESENTATION

Similar to our partners from DCD...

- ❖ Update on Public Works activities to implement 2015 CAP
 - Accomplishments
 - Opportunities To Do More

- ❖ Highlight Potential Areas for Board Guidance and/or Funding

KEY TAKEAWAYS

- ❖ Like our partners in DCD, Public Works is making good progress on many components of the CAP.
- ❖ Public Works partners with DCD on transportation, land use and government operation components of the CAP.
- ❖ Public Works is completing the recruitment of an Energy Manager to assist our Department with implementation of the CAP.
- ❖ Public Works is a partner in working with other County departments and the Board of Supervisors to realize the goals included in the CAP.

ENERGY EFFICIENT BUILDINGS

Accomplishments

- ❖ Continued retrofit on County buildings with LED light conversions.
- ❖ Working with partners to improve climate control on County buildings.
- ❖ Completed installation of new boilers on County buildings – replacing old less efficient ones.

Opportunities to do more

- ❖ More collaboration with partners and vendors to enhance climate control.
- ❖ Develop more utility monitoring systems to control costs.
- ❖ Develop Countywide policy to increase departments incentive to participate.
- ❖ Work with CAO to develop facility disposition list.

ENERGY EFFICIENT NEW BUILDINGS

Accomplishments

- ❖ New building construction goal is to meet LEED – Silver.
- ❖ More energy efficient building designs being realized.

Opportunities to do more

- ❖ Highlight cost/benefit aspects to zero net energy.
- ❖ Incorporate zero net energy aspects into building design as practical.
- ❖ Funding zero net energy design and construction costs in buildings has not been embraced.

URBAN FORESTRY AND PAVING AND ROOFING MATERIALS

Accomplishments

- ❖ Incorporated street trees and drought tolerant landscaping into roadways and landscape areas.
- ❖ Solar energy systems in parking areas.
- ❖ Incorporated roofing materials that reflect more heat into new roofs.

Opportunities to do more

- ❖ Need funding to pursue and develop additional projects and cover staff time.
- ❖ Additional maintenance funds often required for street trees.
- ❖ Develop more proactive project development for renewable energy projects.

URBAN FORESTRY



Willow Pass Road/Port Chicago Highway

- ❖ Installed artificial turf and planted three trees for a nice drought tolerant landscaped area that is aesthetically pleasing.
- ❖ Low maintenance and water usage.
- ❖ Community is happy with the improvements.

EXPANDED PEDESTRIAN, BICYCLE AND TRANSIT

Accomplishments

- ❖ Worked with partners to develop alternate transportation facilities.
- ❖ Have successfully received grant funds to develop and construct pedestrian and bicycle facilities.
- ❖ Constructed and have many projects underway for pedestrian and bicycle facilities.

Opportunities to do more

- ❖ Continue outreach to groups to identify pedestrian and bicycle needs.
- ❖ Continue work with various communities to identify project needs.

EXPANDED PEDESTRIAN AND BICYCLE FACILITIES



San Pablo Dam Road Downtown Improvements

- ❖ Constructed sidewalk project that included planting approximately **eighty (80) street trees** in the downtown El Sobrante area.



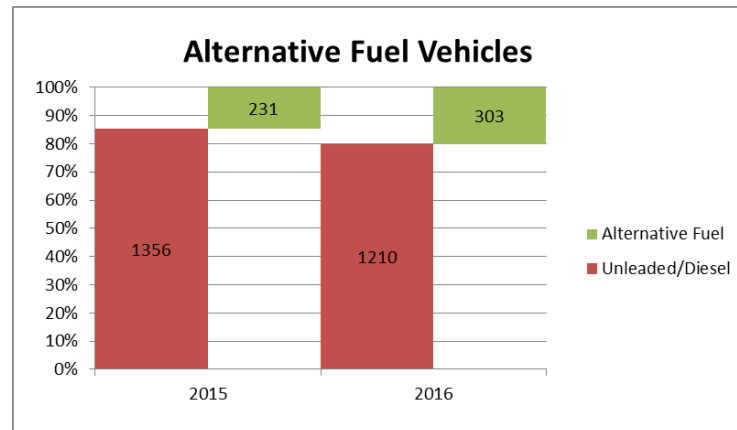
Canal Road Bicycle and Pedestrian Improvements

- ❖ Pedestrian and bicycle improvements.

ALTERNATE FUEL INFRASTRUCTURE

Accomplishments

- ❖ Received grant to install 7 public facing electric vehicle chargers; working to install at two facilities this year.
- ❖ Increasing number of alternative fuel (hybrid, CNG, and electric) vehicles in County fleet.



Opportunities to do more

- ❖ Work with DCD to establish Electric Vehicle charger Master Plan for network of charging facilities across the County.
- ❖ Establish funding source to provide local match for EV charging grants.
- ❖ Develop solar project development plan for County facilities that account for future EV deployment.

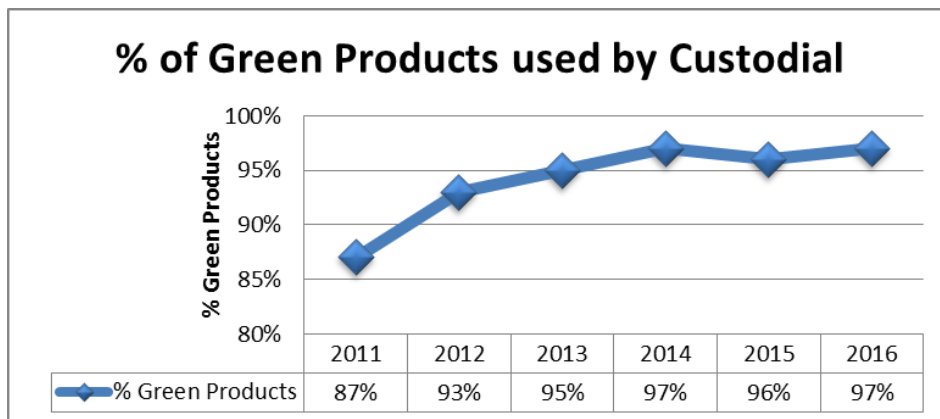
ENVIRONMENTAL PURCHASING POLICY

Accomplishments

- ❖ At least 95% of the custodial supplies used by PWD custodial staff is Certified Green Products.

Opportunities to do more

- ❖ Continue to work with purchasing staff and County departments to develop further environmental purchasing policy implementation.



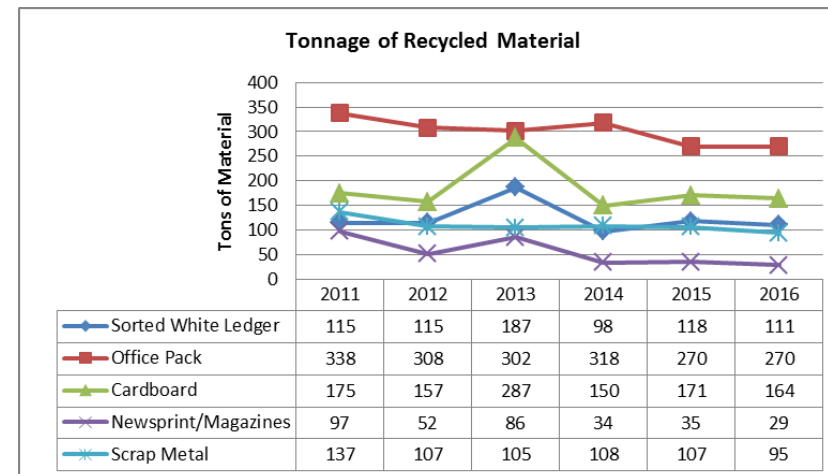
WASTE REDUCTION

Accomplishments

- ❖ Grounds Maintenance grinds tree and clean wood waste to make mulch for use on County landscape.
- ❖ Ongoing public and departmental outreach.
- ❖ Public Works Materials Management Division recycles an incredible amount of items annually and provides surplus material, supplies, equipment, and furniture for reuse by departments.

Opportunities to do more

- ❖ Continue to provide recycling opportunities to County departments through outreach and education.
- ❖ Develop additional programs to maximize tree and wood waste recycling.



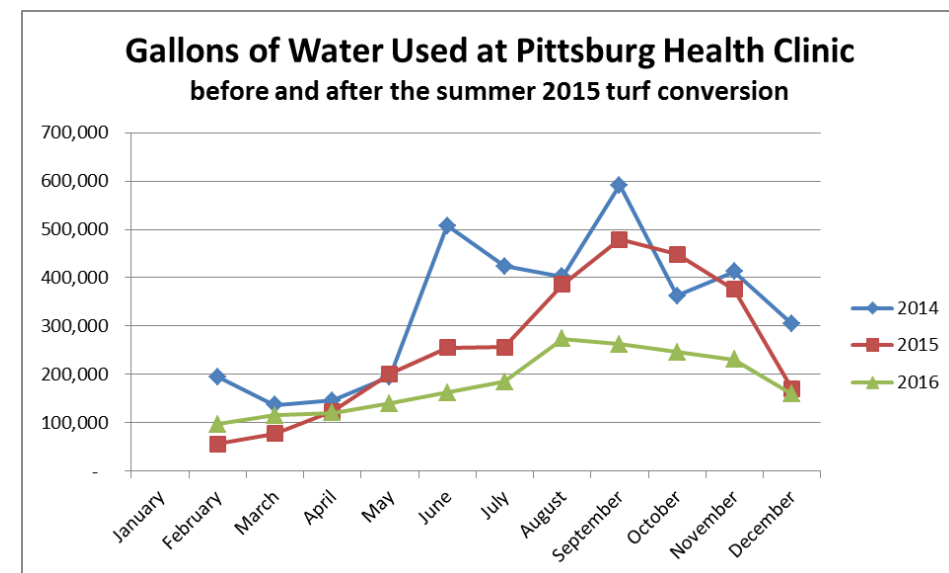
CONSERVE WATER

Accomplishments

- ❖ County Grounds Maintenance staff have implemented water reducing measures and smart irrigation technology in landscaping areas throughout the County.
- ❖ County Grounds Maintenance in process of bidding out to landscape contractors to increase installation of turf conversions and drought tolerant landscaping.
- ❖ Turf conversion project at Pittsburg Health Center have saved 2.5 million gallons of water over 2 years.

Opportunities to do more

- ❖ Additional funding must be identified to complete landscape projects.
- ❖ County should develop ways to incentivize departments to complete landscape projects.



THANK YOU