Open Space and Ecology Committee

December 15, 2015

Agenda

OPEN SPACE & ECOLOGY COMMITTEE
AGENDA

Tuesday, December 15, 2015 6:30 PM
Community Meeting Room
Brisbane City Hall
50 Park Place, Brisbane, CA 94005

1. Adoption of the agenda

2. Oral Communications*

3. Chair and committee member matters

4. Subcommittee reports
    a. Climate Action Plan
    b. Education and Outreach –
        i. OSEC library shelf
        ii. Expertise.com on the OSEC Library shelf webpage

5. Approval of the minutes

6. Discuss concerns with the 2001 Open Space Plan

7. Review Report of Accomplishments

8. Review of the 2016 work plan

9. Staff updates: Peninsula Clean Energy, OSEC role in Baylands planning process (next steps), Websites for community exchange of items, Community garden space, climate related facts, Environmentally Preferred Purchasing Policy (subcommittee?), Brisbane Acres Open Space preservation concern and Next meeting date

10. Adjournment

*Public comment on the agenda items is welcome at the discretion of the Chair

Adoption of the agenda

Oral communications

Chair and Committee member matters

Subcommittee reports

a. Climate Action Plan

b. Education and Outreach –

   i. OSEC library shelf

   ii. Expertise.com on the OSEC Library shelf webpage

Approval of the minutes (slide 1 of 4)

CITY COUNCIL LIAISON AND OPEN SPACE & ECOLOGY COMMITTEE MEETING

Draft Minutes

Tuesday, November 10, 2015 6:30 PM
Community Meeting Room
Brisbane City Hall
Park Place, Brisbane, CA 94005

Call to order:
Hayuk called the meeting to order at 6:34 pm.

Committee members present:
Ebel, Fieldman, Hayuk, Keogh and Vladimirova.

Committee members absent:
Abney and Salmon

City Council –OSEC liaisons present:
Council member Liu
Council member Miller

Staff members present:
City Manager Holstine
Deputy Director of Public Works Kinser
Management Analyst Escoffier

1. Adoption of the agenda
- Agenda adopted.

2. Oral Communications*
- N/A

3. Chair and committee member matters
-Ebel would like OSEC members to the CAP for ideas to implement.

4. Subcommittee reports

a. Parkside at Brisbane Village Precise Plan Stakeholder meeting update
- Hayuk attended a workshop with committee representatives from other committees and consultants.
- Sustainability and zero net energy development were discussed.
- Previous meeting workshops were shared, which displayed different opinions.
- There was conversation of extending Visitacion Ave. to Bayshore Blvd. for direct access into town.
- The Caltrain station could better serve the town if relocated.
- Hayuk can send the original jpeg to members for better clarity.
- Fieldman would like to know if there is a plan for Crocker Park.
- Hayuk mentioned a community member listed “Live work lofts” as an option. Ebel mentioned there are different types of live work lofts.
- Keogh attended the pop up event about the plan.
- Vladimirova feels Crocker Park is underutilized.

b. Education and outreach: Consider sustainability workshops
- Ebel and Keogh discussed the possibility of holding sustainability workshops before the Community Festival.
- Ebel shared some results of the survey, although exact results are not tallied: Many people that came by the booth at Community festival took the survey, people were interested in evenings for about an hour, people wanted it to be free or five dollars, and people were interested in a variety of topics.
- Ebel and Keogh wanted to determine general interest in workshops from the community.
- Fieldman asked what money earned would be used for, possibly guest speakers.
- Ebel will make a spreadsheet with responses entered.
- Vladimirova suggests recording sustainability workshops and posting them online.
- Kinser asked the subcommittee to meet with staff when the idea begins to solidify and will be an Education and outreach activity.
- Ebel suggests the workshops can have high visibility on the Park and Recreation program.

- The OSEC library shelf is back up. Library staff asked for signage and a Beacon award sticker. Ebel will touch base with them to determine what is needed from the city.

Approval of the minutes (slide 2 of 4)

5. Approval of the minutes

- Ebel and Fieldman had corrections. Bio blitz not Bio glitz. Ebel also mentioned the lawn at Day in the Park was saturated.
- Ebel wanted to clarify the water reductions for Brisbane. Kinser explained that Brisbane is a small water producer, which means the state places Brisbane in a different reduction category. Brisbane chose to implement a two-day a week watering schedule.
- Minutes approved.

6. Staff updates:

Bike pedestrian master plan representative

- A consultant was hired to plan for a bike/ pedestrian master plan; Kinser would like to ask for a representative from OSEC to review the plan. Hayuk would like to volunteer.

Title 24/ Chapter 11 Green Building Standards

- The county will continue to update staff on future trainings to invite OSEC members and the community.
- There could be a training hosted in Brisbane in the future.

Community Garden

- Kinser will look into possible sites.
- Keogh asked if the current garden could be extended.
- Ebel said the garden would be difficult to extend due to ADA requirements, due to a conversation with a community member.
- Ebel asked how long the wait list is, it is important to determine the demand for a plot.

Invasive species articles

- The next invasive species article will be in the December Star.

Deep root watering

- Hydrant flush water has been used to water local trees.
- Humboldt tree services and Davey tree has been working with the city to water these trees.
- This project was originally funded for six months; further watering may have to be approved by City Council.

Sea Level Rise Vulnerability Assessment

- San Mateo County wanted volunteers to be on a public engagement committee.
- An email has been circulated to OSEC members.
- Fieldman suggests circulating this email to the community.

Composting at City Hall

- Composting began last Friday at City Hall. Paper towels in the restroom will be composted and food scraps in the kitchen. Other municipal sites are being considered for composting.
- Kinser suggested a survey a year later about composting.
- Fieldman suggests counting number of bins picked up for four weeks.
- Liu suggests going to community meetings to educate about composting, such as the Lions Club.

SM Co Energy Watch Small Business outreach for 2016

- The program is aimed toward truly hard to reach businesses.
- The criteria for a hard to reach business are: English as a second language or not as the primary language, lease or rent the facility, and under 20 Kw energy use or staff of 10 or less.
- Outreach will be done to encourage increasing the energy efficiency of these businesses.

Recycle Works Volunteer Academy

- Sustainability webinars and courses given by local experts.
- The first webinar is on November 18 from 5:30-7:30 pm.

Update on the following letters: Brisbane Acres lot coverage, Permeable pavements and paving of lots letter

- Kinser has completed editing the Paving of lots letter.
- The letters have been emailed to OSEC to send any comments to staff before Hayuk signs them.

Methane/ PG&E update

- The follow up information has not been received.

Approval of the minutes (slide 3 of 4)

Trash can on Quarry Rd.

- Kinser said the county cleaned the trash on the road.

- If the trash continues to accumulate, there may be a case for placing a trash can out there.

Placing Freecycle and Craigslist on the city website

- Will be discussed next meeting

Recycling of toner cartridges

- The city does recycle cartridges.

Sustainable purchasing policy

- The brand endorsement issue will be addressed when the policy has been finalized next year.

7. Review of the work plan

- Kinser said this meeting can be used to review the work plan and for liaisons to give feedback and OSEC to ask questions.

- Hayuk asked about the plan of Day in the Park and OSEC participation. Liu feels it is a great opportunity to educate the community on what OSEC is working on. Miller said the roll of OSEC is to educate the public, and it is a good activity for OSEC and is effective.

- Liu suggests a Community Choice Energy (CCE) representative would be good for next year, to educate people about the program.

- Fieldman asked for advice on how to push the Climate Action Plan (CAP) forward.

- Kinser answered the work plan lists what could potential be done within a year. The committee will bring items such as ordinances individually to city council. Miller said staff will create the language, OSEC will make suggestions, and then it will be brought to council. The plan has been conceptually approved by City Council. Kinser added a subcommittee could do this work.

- Fieldman asked how items could be moved to the county level. Miller said the committee could work through staff and to ask council to move forward on items.

- Kinser added staff meet with a county working group each month, Kinser mentioned she has passed on some items. The executive director of Sustainable San Mateo, a non-profit took note of some issues Kinser mentioned.

- Kinser asked the liaisons how to involve at-risk youth in implementing the plan. Fieldman would like to include those that are not normally represented, to form a more diverse implementation subcommittee. Miller suggests collaborating with the school district. Fieldman also suggests Paul Bouscal as a contact for youth.

- Fieldman asked if council is in support of a roll out event of the CAP. Miller suggests ideas for outreach: social media, insert in the water bill, The Luminary etc.

- Fieldman would like to educate the community about climate issues and the CAP. This would hopefully encourage community members to make upgrades to their home. Liu suggests creating a short video to outreach to the community.

- Liu suggests to tag onto pop up events, such as set up a table or distribute a flyer to recruit new interested community members. Ebel asks staff to give OSEC early notice about upcoming events.

- Vladimirova asked about development on city owned Brisbane Acres. Miller said all these properties have deed restrictions, which means these lands cannot be developed on. It is inconceivable that these parcels will be developed on since; the purpose of their purchase was to preserve them for open space.

- Miller mentioned there is an Open Space Plan and parcels that have been identified as critical habitat.

- Holstine added the lands acquired with the Coastal Conservancy finds are about 90%. The burden to create infrastructure is insurmountable to be able to develop in the Brisbane Acres.

-Vladimirova asked about private property that has been sold. Holstine said no city owned property has been sold in the Brisbane Acres, due to deed restrictions. Private property exists in the lower acres that could be developed. Acres are identified in the Open Space Plan for preservation.

- Kinser added lower acres are different from upper acres.

- Ebel is concerned about lower acres development extending into the upper acres in the future. Miller mentioned a Trust can be an outlet to preserve San Bruno Mountain and the Acres, but it is a large commitment.

- Miller discussed and overlay ordinance could be pursued by OSEC, which was included in the memo he wrote to OSEC last year. Staff will resend the memo to OSEC for review.

- Liu asked about the EV charging grant in the work plan. Kinser said staff is working on a grant application to install an EV charging station in the Brisbane Village. Liu suggests consideration of future changes in town. The charging station may be moved in the future.

Approval of the minutes (slide 4 of 4)

- Ebel asked if a DC fast charger can do level 2 charging. Ebel said a fast charger is not good for a car battery. Miller adds his car has a warning not to use the fast charger. Ebel said she utilizes level 2 chargers when she drives around.

- Ebel asks why the Recology EIR and the General Plan are not on the work plan.

- Miller added that OSEC's participation in the Baylands process should be added to the work plan. The community survey showed that Open Space was a main community concern. Miller suggests formation of a subcommittee and participation in the hearings, and should refer to the Sustainability Framework to make suggestions. Liu suggests checking with the city attorney that one appointed commission could speak to another.

- Kinser referred to a policy adopted in 2005 by city council relative to OSEC's involvement. The committee can offer comments on the draft document and representatives from the committee can offer testimony. A subcommittee can be formed before the next hearing. Liu suggests the last meeting can be a catchall. Hayuk suggests adding this to the next OSEC agenda.

8. Viewing of short film from Community Festival, "Sustainability through the Eyes of the Brisbane Community"

- Noise level at the fair was not optimum for filming.

- Vladimirova would like this video to be shared with the community to help create awareness about sustainability.

- Fieldman feels there are many examples of sustainability that could be added to the video, such as examples of people changing their diet, or an electric car being plugged in etc.

- Kinser suggests the education and outreach subcommittee can determine what's next. Hayuk does think a Do it Yourself (DIY) aspect can be utilized.

- Staff will send out the video link.

9. Review highlights of the CAP

- Escoffier went over the highlights of the CAP.

- Community outreach was completed through social media and printed media, those featured in the film were emailed about the showing.

- The CAP was adopted September 17, 2015 by City Council.

- Brisbane's reduction targets for GHGs are 13,876 metric tons of carbon dioxide equivalents and this plan reduces emissions by 16,014 metric tons of carbon dioxide equivalents; which means the reductions targets are overshot by 15%.

- A photo was displayed to represent a metric ton.

- Reduction targets are based on compliance with AB 32, which states the city must reach 1990 levels by 2020 or reach 15% below 2005 GHG levels.
- There are also regional efforts to reduce GHG emissions: Initiatives such as San Mateo County Energy Watch, which partners with PG&E to promote energy efficiency in buildings and rebates. And the Congestion management agency, which identifies future strategies to fulfill transportation needs.
- Other regional agencies and efforts: Energy Upgrade California, Sustainable San Mateo County and Joint Venture: Silicon Valley to name a few.
- In order to move specific measures forward, Brisbane will actively seek collaboration with the county to accomplish more challenging goals.
- The plan covers five areas in which GHG reduction targets are aimed: Energy, Water, Solid waste, Road emissions/ Transportation, and All sector.
- All measures cover community and municipal GHG emissions where applicable.
- Some examples of measures:
-Energy: Promote energy savings rebates and incentives to the community. Examples are: CaliforniaFIRST and Peninsula Sunshares.
- Water: Promote water saving rebates and water wise gardening.
- Solid waste: Increase the diversion rate with the help of South San Francisco Scavenger offering food scrap pick up to existing yard waste pick up for businesses, including City Hall and potentially other city facilities.
- Road emissions/ Transportation: Install a public EV charging station to encourage use of electric vehicles.
- All Sector: Promote the County Green Business program to local businesses.
- We want to involve the community through education and outreach to instill lifestyle changes and awareness of global warming.
- Examples of ideas for community engagement and education are: Showing a film followed by discussion, create a book club, door-to-door information given on rebates, share tips on how to reduce your carbon footprint, encourage active modes of transportation and give information about public transportation to name a few.
- For more information the Climate Action Plan, can be found on the city website if you search for "Climate action plan".

10. Adjournment

- Meeting adjourned at 9:03 pm.

Discuss concerns with the 2001 Open Space Plan

Review report of accomplishments (slide 1 of 3)

OPEN SPACE AND ECOLOGY COMMITTEE
REPORT OF ACCOMPLISHMENTS

In 1998, the City Council established the Open Space and Ecology Committee (OSEC) as an advisory body to recommend policies and programs related to preservation of open space, resource conservation, and sustainability. In the ensuing decade, the Committee has worked on a wide array of ecological issues following a work plan. Below is a summary of the work the Committee has undertaken during calendar year 2015.

Vegetation Management Plan for city-owned property in the Brisbane Acres

At the Open Space and Ecology Meeting on January 13, Fred Smith presented the proposed management plan to the committee. Smith, former city OSEC staff person, works on a consulting basis on the vegetation management plan. Smith contacted Shelterbelt Builders Inc., an Open Land Management and Restoration Company that has performed vegetation management for Brisbane in prior years, to develop a work plan and cost estimate. After reviewing the plan with Smith, OSEC approved the Vegetation Management Plan. When the work was complete for the season, Mark Heath from Shelterbelt Builders presented his work and findings to OSEC at the August 26 meeting.

San Bruno Mountain Priority Conservation Area (PCA) status

The Open Space Ecology Committee designated members Kima Hayuk and Michele Salmon to work on an application for PCA status from the Association of Bay Area Governments (ABAG) for properties near and having the similar habitat value to San Bruno Mountain State and County Park. Staff, the OSEC subcommittee and Mountain Watch representatives collaborated on Brisbane's portion of the application. OSEC approved the proposed map area for recommendation to Council at their March 11 meeting. The San Bruno Mountain PCA application was a joint effort between San Mateo County, South San Francisco and Brisbane. Brisbane's portion of the application narrative and map was submitted to San Mateo County for compilation and submission to ABAG after approval by Council later in March. The San Bruno Mountain application was granted PCA status in September.

Title 24 Training

On January 28, OSEC hosted training in the Community Meeting Room at City Hall on the Title 24 energy codes related to residential buildings for local contractors. This training was performed by Bay Area Regional Energy Network. Staff coordinated the training and conducted outreach to local contractors on the city business license list, and via Golden State Lumber, Brisbane Hardware, and South San Francisco and Daly City's Building Departments.

Staff coordinated a second training in 2015 in partnership with the City of Daly City on August 28. This training focused on improving energy code compliance of nonresidential envelopes. Brisbane staff created a flyer for the event and conducted outreach in Brisbane, and Daly City hosted the training.

Review report of accomplishments (slide 2 of 3)

Climate Action Plan (CAP)

Staff met numerous times in 2015 with OSEC's Energy Subcommittee of Glenn Fieldman and Barbara Ebel to select and craft measures to recommend for inclusion in the proposed plan, with consideration of GHG reductions for each measure, and a Plan was drafted by staff. OSEC discussed the measures and the draft plan at their July, August and September meetings, and at their September 8 meeting, OSEC recommended the CAP for City Council to consider for adoption. At the September 17, 2015 City Council meeting, the CAP was adopted.

Bike to Work day

April 14 was the 21st Annual Bike to Work Day event. OSEC members Barbara Ebel and Kameliya Vladimirova volunteered at the event. OSEC provided a map upon which commuters were asked to delineate their routes to work, and Vladimirova brought extra treats for the commuters.

Habitat Restoration Days

Earth Day, April 25

The canyon at the intersection of San Mateo Lane and Kings Rd. was the site for the first restoration event of 2015. Staff advertised the workday and notified neighboring residents. To decrease the parking impacts, a shuttle was provided to bring volunteers from City Hall to the restoration site. Approximately sixty people volunteered, and the dumpster on site was overflowing with ivy and other invasive species removed from the canyon.

June 27

OSEC met its goal to host at least two habitat restoration days per year. Firth Canyon was the site for the second event. Approximately twenty five volunteers filled over half of a dumpster with weeds and trash removed from the canyon.

OSEC shelf at the Public Library

The Education and Outreach subcommittee created a display at the Brisbane Public Library for books and videos relevant to their charter, in the following categories: energy, waste, water, climate change and food, as well as providing input regarding a "virtual" shelf on the OSEC page of the City's website. The shelf/display was launched in the library in June, and OSEC plans to select different titles and update the shelf periodically.

Beacon Award

Staff was encouraged by the City/County Association of Governments via the monthly Climate Action Planning working group meetings to participate in the Beacon award program for the networking value, the technical assistance and recognition for sustainability initiatives implemented. Staff collected background data for municipal greenhouse gas (GHG) emissions calculations that were performed by C/CAG consultants. Staff also compiled a list of best practices in the following categories: energy efficiency and conservation activity, water and waste water systems activity, green building activity, waste reduction and recycling activity, climate friendly purchasing activity, renewable energy and low carbon fuels activity, efficient transportation activity, land use and community design activity, open space and offsetting carbon emissions activity, and promoting community and individual action activity. With collected data meeting marks and the City's adoption of its Climate Action Plan, Brisbane received the full Gold Beacon at the League of California Cities conference on October 1. Brisbane also received Beacon Spotlight awards in all five categories: Agency GHG reductions, Community GHG reductions, Agency energy savings, Natural gas savings, and Sustainability best practices.

Review report of accomplishments (slide 3 of 3)

Monterey Pine removal

Staff has written two letters to businesses, one set in October of last year and the second set in April, about trees that appear to be dead or dying, asking property owners to remove the trees to prevent further spread of disease and potential public safety concerns. Along with these letters, a tree removal permit application and a list of local arborists was included. Staff consulted with Davey Tree for certified arborist assessment of trees on the list generated by OSEC. Between November 2014 and October 2015, thirty dead and dying trees have been permitted to be removed, many of them being on Valley Drive.

Day in the Park – Community Festival

OSEC manned an educational booth at the 29th Annual Day in the Park festival on October 3rd. The designated subcommittee for this event was Megan Keogh and Kima Hayuk. At the booth information was available such as: a Peninsula Clean Energy pamphlet, rebates for water and energy savings installations, water wise gardening tips, a pamphlet about lowering your carbon footprint, invasive species specimens and pamphlets, discounted water buckets to catch shower water and information regarding reducing solid waste. A videographer was hired to interview community members about their environmental concerns and individual actions. The film will be used to create awareness of sustainability practices and call attention to the Climate Action Plan. The film was first debuted at the OSEC –City Council liaison meeting on November 10, followed by a presentation on Climate Action Plan highlights.

Baylands Sustainability Framework

Committee member Glenn Fieldman was assigned to be a representative from OSEC to review the framework. The subcommittee was formed in 2009 and consisted of staff, City Council members, and representatives from the committees and commissions. The framework is based on 10 One Planet Living Principles developed by Bioregional. The framework will inform City Council considerations regarding the Baylands, and any future development. OSEC reviewed the document and discussed comments at their May meeting. In June, a workshop was held with City Council to review the framework. City Council accepted the framework in their November 5th meeting.

Sustainability webpage

The Education and Outreach subcommittee, consisting of Barbara Ebel, Kameliya Vladimirova and Megan Keogh worked with staff to update the Sustainability webpage on the city website. The webpage contains current initiatives that the city is involved in for reaching sustainability goals.

Review of the 2016 Work Plan (slide 1 of 2)

OSEC Work Plan 2016

1. Implementation of the CAP
   - OSEC gives staff input and support on implementing action items from the CAI and annual report to Council.

2. Vegetation Management Plan for City-owned Brisbane Acres
   - Review and approve the vegetation management plan developed by staff and the contractor.

3. Habitat Restoration
   - Choose locations and coordinate 2-3 habitat restoration days per year.
   - Search for and apply for PCA grant funds.

4. Education and Outreach
   - Day in the Park- Community Festival
   - Bike to work day
   - Lipman Science Fair
   - Other publications through City News/ Star/ Cable TV/ City Website/ City Social Media sites

5. Miscellaneous subcommittees and tasks
   - Subcommittees may be developed consisting of 2-3 members to complete work outside of the monthly OSEC meetings.

6. Policy Recommendations
   - Draft letters to City Council with policy recommendations on immediate concerns related to environmental issues.

7. Participate in Bike/ Pedestrian Master Plan workgroup.

8. Baylands – Input on design of open space upon Council approval of land use.

9. Recology EIR – Review of environmental issues upon referral from Council.

10. General Plan- Review of future proposed updates to Open Space Element upon direction from City Council.

11. Consider recommendations to City Council to modify Brisbane Acres zoning regulations with respect to open space and ecology.

Review of the 2016 Work Plan (slide 2 of 2)

CAP implementation 2016:
- Staff will follow the iterative management process for implementing, monitoring and evaluating the CAP.



Items staff are currently working on:

Energy

- Continued support of Peninsula Clean Energy (3.1.1A)

Solid waste

- Implementing composting in City Hall (3.3.1 B Municipal measures)

Water use

- Water conservation ordinances (3.2.1)
- Promote BAWSCA rebates (3.2.1)

Road emissions/ Transportation

- Submit grant application for EV charging station to be installed in Brisbane Village (3.4.1 A)

All sector

- Promote San Mateo County Green Business program (3.5.1 A)

Items staff will work on in 2016…

Energy

- Promote financial incentives for home energy upgrades.
- Provide a DIY energy home upgrade toolkit at the Brisbane library.
- Recruit staff, volunteers or interns to go door-to-door to educate residents about home energy upgrades incentives and financing available.
- Add information about current energy saving incentives on the city website.
- Staff will investigate bringing legislation for Council consideration requiring that all buildings be recommissioned when changing ownership or undergoing major renovation.
- OSEC and staff will draft an ordinance to phase out gas powered lawn equipment to bring to Council for consideration.
- Staff will implement the Environmental Procurement Policy (EPP).
- Energy efficient street lighting (3.1.1 C Municipal measures).
- Staff and OSEC will review a model lighting ordinance.

Solid waste

- The city will encourage residents to exchange used items, and educate residents on recycling household items and textiles properly.
- The city will encourage community members to bring reusable cutlery, cups and plates to community events. A volunteer may be recruited at community events to teach community members to properly throw away waste in the proper bins.
- The city will reduce waste via the EPP.
- Investigate composting at other City facilities.

Water use

- The city will continue to respond to mandates and educate the public.

Road emissions/ Transportation

- The city will educate the community about existing transit options.
- Pursue purchasing low emission/ electric/ hybrid vehicles where applicable.

Other measures will be added as time/staff availability permits; these measures above are considered low hanging fruit and can be implemented within a year's time. Measures not implemented in 2016 will be a set as goals for 2017.

Staff updates

- Peninsula Clean Energy
- OSEC role in Baylands planning process (next steps)
- Websites for community exchange of items
- Community garden space
- Climate related facts
- Environmentally Preferred Purchasing Policy (subcommittee?)
- Brisbane Acres Open Space preservation concern
- Next meeting date

Staff updates: Peninsula Clean Energy

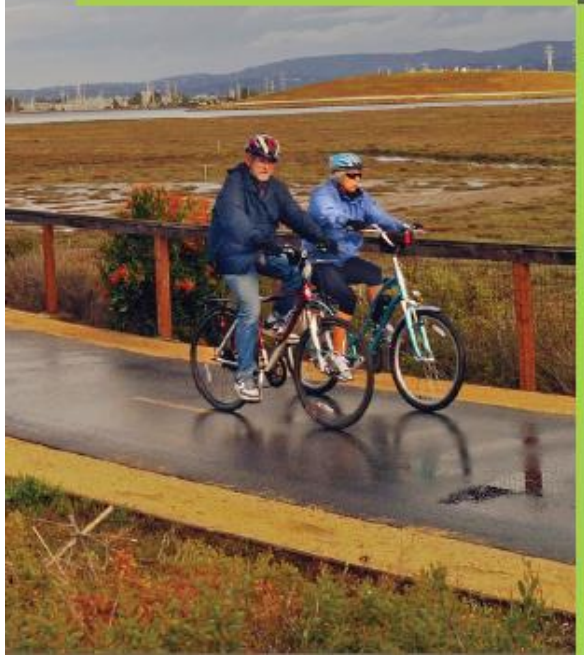
CCE, WHAT IS IT?

Community Choice Energy (CCE) allows local governments to pool the electricity demands of their communities, purchasing power with higher renewable content, and reinvesting in local infrastructure.

There are currently three CCEs operating in California:

MCE Clean Energy
Sonoma Clean Power
Lancaster Choice Energy





JOIN US IN THE CONVERSATION!

Follow our Facebook group:
fb.com/groups/PenCleanEnergy

Follow us on Twitter:
@PenCleanEnergy

Contact us at:
sustainability@smcgov.org

Visit the Office of Sustainability's website at: **peninsulacleanenergy.com**

PENINSULA CLEAN ENERGY

COMMUNITY CHOICE ENERGY (CCE)

SAN MATEO COUNTY

CLEAN ENERGY

CUSTOMER CHOICE

COMMUNITY EMPOWERMENT





HOW DOES IT WORK?

If San Mateo County forms a CCE, it will purchase electricity on your behalf. This will offer you some wonderful choices.

It won't interrupt your service in any way. PG&E will continue to deliver the electricity from the grid to your house, maintain the power lines, read your meter, and send you a single bill.

The only change is an opportunity to choose between different energy options—for the first time ever. CCEs offer electricity options with much higher renewable energy content than PG&E's standard offering.

If your home or business is in a CCE service area, you will be automatically enrolled in the program. You can choose to go back to PG&E at any time.

WHAT ARE THE BENEFITS?

1. **Choice**
   CCEs introduce competition into the marketplace. They provide with a choice about the level of renewables they wish to support.

2. **Sustainability**
   Formation of a CCE will allow San Mateo County to achieve greater greenhouse gas reductions resulting from energy generation.

3. **Community**
   CCEs are non-profit organizations. They're accountable not to shareholders seeking profit, but to the communities they serve. Surplus funds from a CCE are reinvested in your community to develop local renewable energy projects and create local jobs.

4. **Economics**
   Operating CCEs in the Bay Area have been able to offer renewable energy that costs less than PG&E.

WHAT'S BEING DONE?

A technical feasibility study was recently completed (with participation from all cities in the county) which demonstrated that a CCE program would be economically viable in San Mateo County.

A Joint Powers Authority (JPA), comprised of participating cities, will administer the CCE program. This JPA is currently being formed.

A CCE in the county would be a public, non-profit agency funded by ratepayers, not by your taxes.

BRISBANE CITY COUNCIL SUPPORT OF CCE

During the April 16 City Council meeting, Seth Baruch, Program Consultant for the County presented information about CCE. Baruch explained how CCE works, that a technical study for feasibility in San Mateo County will be conducted, and an advisory committee will be formed to report back to the County Board of Supervisors. City Council agreed to volunteer Brisbane's energy load data to the County to conduct the feasibility study. Lori Liu and Clarke Conway have been designated to serve on the advisory committee.

WHAT IS BRISBANE DOING TO CONTINUE SUPPORTING CCE?

Brisbane has included CCE as part of its Climate Action Plan. To ensure awareness of the CCE program before launch, outreach and education to the community will be conducted on several occasions.

PCE Technical Study Highlights

- Study produced by Pacific Energy Advisors Inc. (PEA)
- Viability of three scenarios were studied
- Unbundled renewable energy certificates excluded
- Create green jobs

Scenario 1

- 35% renewable energy, increasing to 50%
- Maximizes rate competitiveness and minimally exceeds the RPS mandates
- Typical household (uses 450 kWh/month) will save $6.18 per month.

Scenario 1: Annual Total Delivered Rate Comparison

Year	PG&E Total (¢/kWh)	PCE Total (¢/kWh)	Percent Difference
Levelized	22.7	21.6	-5%
1	20.0	18.8	-6%
2	20.4	19.2	-6%
3	21.1	19.9	-6%
4	21.8	20.7	-5%
5	22.5	21.5	-4%
6	23.0	22.0	-4%
7	23.7	22.8	-4%
8	24.4	23.4	-4%
9	25.1	24.1	-4%
10	25.8	24.7	-4%

Scenario 1: Annual GHG Emissions Factor Comparison (Metric Tons CO_2/MWh)

Year	PG&E	PCE
1	0.158	0.278
2	0.149	0.278
3	0.139	0.278
4	0.131	0.278
5	0.127	0.278
6	0.123	0.272
7	0.120	0.265
8	0.116	0.258

Year	PG&E	PCE
9	0.112	0.250
10	0.109	0.243

Scenario 2

- Minimum 50% renewable energy content
- Ensures that PCE will continually exceed CA's RPS
- Typical household (uses 450 kWh/month) will save $4.36 per month.

Scenario 2: Annual Total Delivered Rate Comparison

Year	PG&E Total (¢/kWh)	PCE Total (¢/kWh)	Percent Difference
Levelized	22.7	22.1	-3%
1	20.0	19.1	-4%
2	20.4	19.6	-4%
3	21.1	20.3	-4%
4	21.8	21.1	-3%
5	22.5	22.0	-2%
6	23.0	22.6	-2%
7	23.7	23.3	-2%
8	24.4	24.0	-2%
9	25.1	24.7	-2%
10	25.8	25.4	-2%

Scenario 2: Annual GHG Emissions Factor Comparison (Metric Tons CO_2/MWh)

Year	PG&E	PCE
1	0.158	0.115
2	0.149	0.106
3	0.139	0.096
4	0.131	0.088
5	0.127	0.084
6	0.123	0.080
7	0.120	0.077
8	0.116	0.073
9	0.112	0.070
10	0.109	0.066

Scenario 3

- 100% renewable energy content. GHG emissions are assumed to be zero
- Typical household (uses 450 kWh/month) will owe $1.86 more per month.

Scenario 3: Annual Total Delivered Rate Comparison

Year	PG&E Total (¢/kWh)	CCA Total (¢/kWh)	Percent Difference
Levelized	23.2	23.7	2%
1	20.5	20.9	2%
2	20.9	21.3	2%
3	21.6	22.0	2%
4	22.3	22.9	3%
5	23.0	23.8	3%
6	23.5	24.3	3%
7	24.3	25.0	3%
8	25.0	25.7	3%
9	25.7	26.2	2%
10	26.5	26.8	1%

Scenario 3: Annual GHG Emissions Factor Comparison (Metric Tons CO_2/MWh)

Year	PG&E	PCE
1	0.158	0.000
2	0.149	0.000
3	0.139	0.000
4	0.131	0.000
5	0.127	0.000
6	0.123	0.000
7	0.120	0.000
8	0.116	0.000
9	0.112	0.000
10	0.109	0.000

Considerations and Risks

- Volatility of the natural gas market can create fluctuations in price
- Electricity from a hydroelectric source is limited
- PG&E surcharges and rates
- Opt-out rates can impact costs
- JPA serves as a “firewall”
- Discrepancy between energy demand and use

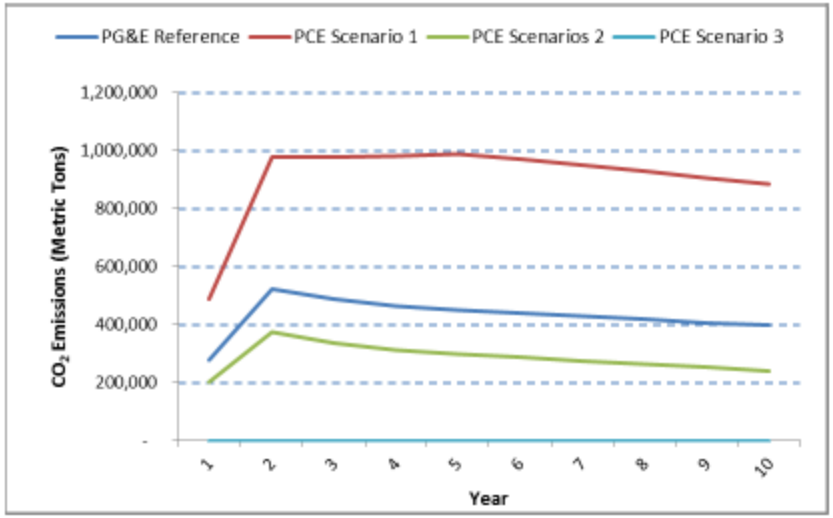
Recommendations

Summary of Ratepayer Impacts

Ratepayer Impact	Scenario 1	Scenario 2	Scenario 3	PG&E
Levelized Electric Rate (Cents/KWh)	21.6	22.1	23.7	22.7
Typical Residential Bill ($/Month)[28]	$97	$99	$107	$102

GHG Emissions Impacts (Ten Year Average)

GHG Impact	Scenario 1	Scenario 2	Scenario 3
Annual Change in GHG Emissions (Tons CO_2/Year)	476,125	-145,036	-301,269
Change in Electric Sector CO_2 Emissions in San Mateo County (%)	+111%	-34%	-100%
Projected PCE Portfolio Emissions Factor (metric tons/MWh)	0.268	0.086	0
Projected PG&E Portfolio Emissions Factor (metric tons/MWh)	0.128	0.128	0.128



Staff updates (continued)

- OSEC role in Baylands planning process (next steps)
- Websites for community exchange of items
- Community garden space
- Climate related facts
- Environmentally Preferred Purchasing Policy (subcommittee?)
- Brisbane Acres Open Space preservation concern
- Next meeting date



NOTES:

APN# 005-290-999 Deeded to City of Brisbane in 1995 Deed No. 95-098636

APN# 005-290-998	DATE: 12/15/15	City of Brisbane Public Works Department (415)508-2130 www.brisbaneca.org
Location: South Hill Dr	SCALE: NA	
City Owned Property		

Staff updates (continued)

- Climate related facts
- Environmentally Preferred Purchasing Policy (subcommittee?)
- Brisbane Acres Open Space preservation concern
- Next meeting date

Climate related facts

1. Each gallon of gasoline burned produces 19.6 pounds of the greenhouse (heat-trapping) gas carbon dioxide. Carbon in the gasoline combines with oxygen from the air to produce the CO2, which is why it weighs more than the gasoline itself.

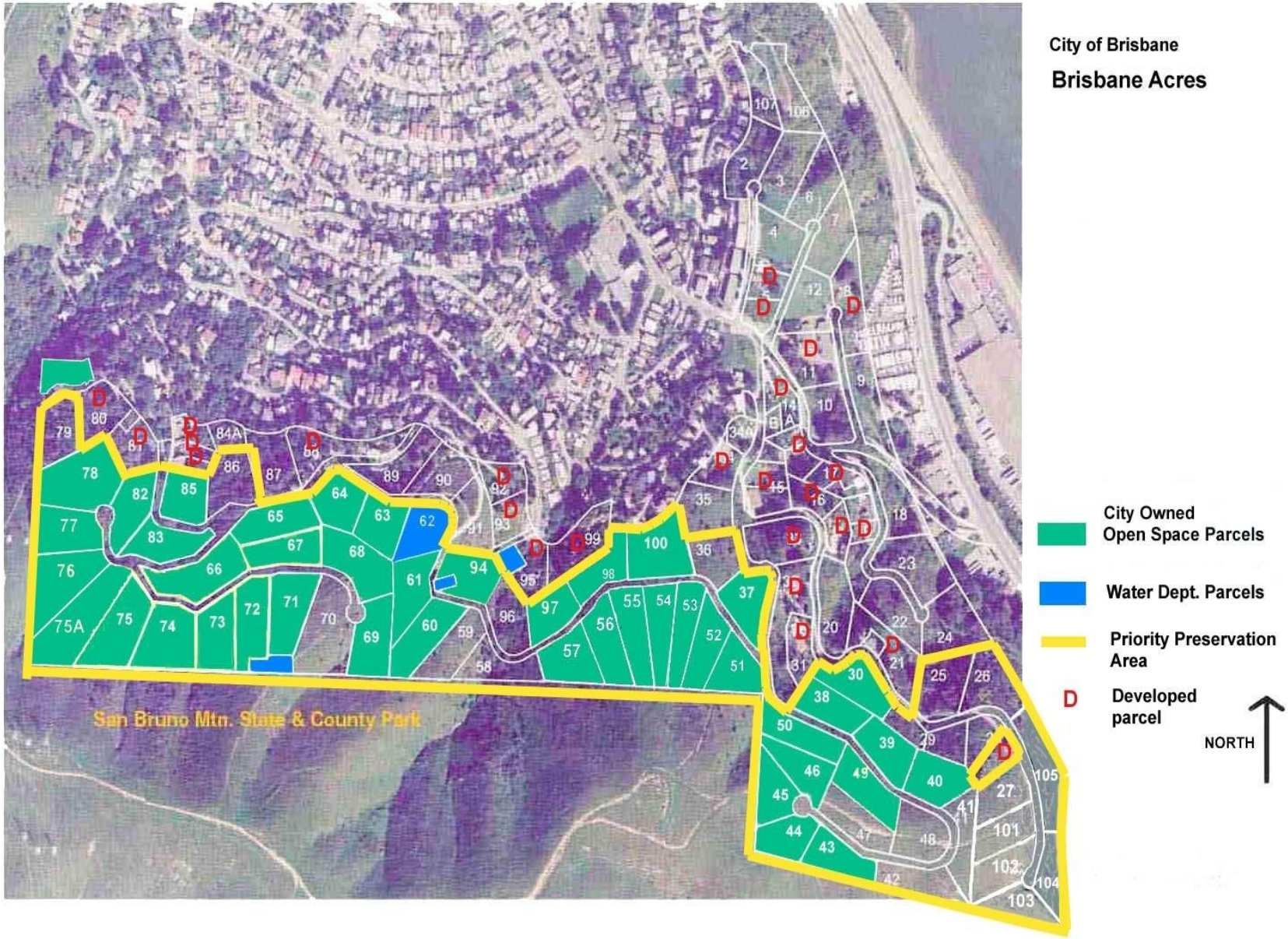
2. Carbon dioxide, the most important greenhouse gas, stays in the atmosphere for over 100 years. Current emissions "pile up" on top of the carbon dioxide that's already there. The more CO2 in the atmosphere, the more heat is trapped. So to prevent disastrous warming, emissions must stop almost completely by mid-century

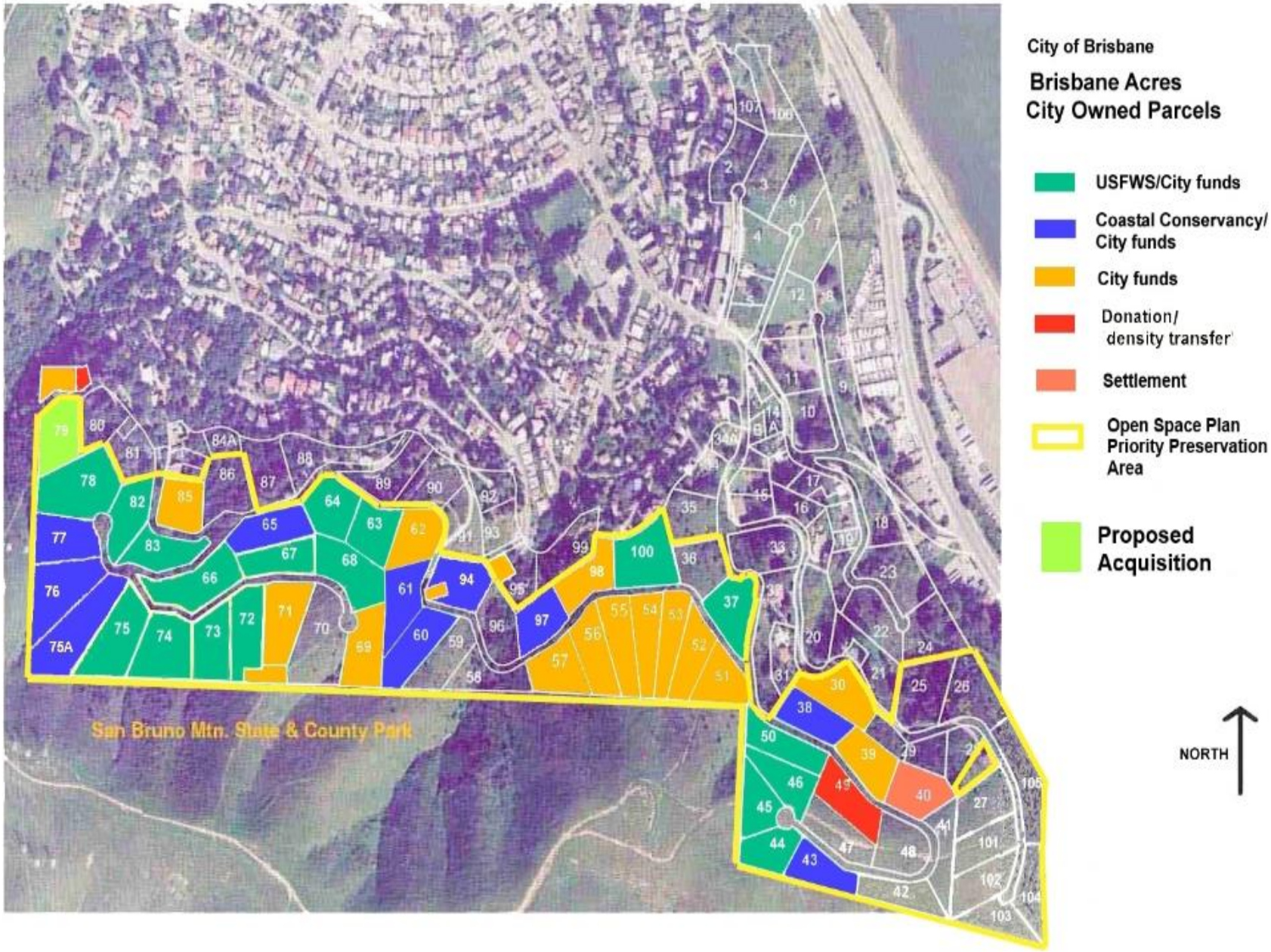
3. Habitat loss, pollution and other factors are affecting species' survival. Climate change will make survival even harder for many species, especially those that have limited ranges. Between a third and half of all species living today may become extinct this century if warming isn't slowed significantly.

4. Depending on how much we do to slow emissions and warming, sea levels will rise between a foot and a meter, perhaps more, this century. A flood projection map at http://geology.com/sea-level-rise/san-francisco.shtml shows significant flooding of the Baylands, Bayshore Boulevard and sections of 101 with one meter of sea level rise.

5. Growing plants—especially forests and native grasses—absorb CO2. When they are gone, more of the CO2 emissions from tailpipes and smokestacks goes into the atmosphere. Deforestation and similar land use changes account for about 20% of global CO2 emissions. Developing countries want compensation to preserve their forests, because preserving them means not using them for economic purposes.

6. When organic material like food scraps decays in the absence of oxygen, as it does in a landfill, the decay produces the powerful greenhouse gas methane, which traps as much as 83 times as much heat as an equivalent amount of CO2. Composting organic wastes, in which they are exposed to air, eliminates this problem. Putting food waste in your green bin contributes to a cooler climate.


City of Brisbane
Brisbane Acres
San Bruno Mtn. State & County Park
City Owned Open Space Parcels
Water Dept. Parcels
Priority Preservation Area
D Developed parcel
NORTH


City of Brisbane
Brisbane Acres
City Owned Parcels
USFWS/City funds
Coastal Conservancy/
City funds
City funds
Donation/
density transfer
Settlement
Open Space Plan
Priority Preservation
Area
Proposed
Acquisition
NORTH
San Bruno Mtn. State & County Park

Adjournment

