Meeting Summary



Date:November 15 and 16, 2016Time:6:00 to 8:00 p.m.Location:3821 41st Ave., Sacramento, CA and 6050 Watt Ave., North Highlands, CASubject:Summary of Comments from Public Workshops, Round #1Project:Sacramento County Climate Action Plan: Communitywide Greenhouse Gas Reduction and Climate Change Adaptation (Communitywide CAP)

Sacramento County held two public workshops on the County's climate action planning process. The attendees were asked to share ideas and provide feedback on what the County should consider in the climate action plan. The two workshops were at the following venues:

November 15, 2016 November 16, 2016

6-8 p.m. 6-8 p.m.

Louise Perez Resource Center F.C. Joyce Elementary

3821 41st Ave., Sacramento, CA 6050 Watt Ave., North Highlands, CA

The following is a summary of the comments provided by attendees at both the November 15th and 16th public workshops organized by topics. This includes comments provided during the large group discussion as taken by the facilitation team as well as those written on notepads during the open house. Photos of the comments as written down at the workshops are included in the appendix. Additionally, two sets of comments were provided at the workshops in a written form, and are also included in the appendix.

LAND USE

■ Reduce sprawl with an urban limit line (per the discussion at the meeting, Sacramento County has an "Urban Services Boundary" which is used to limit where urban development might be located).

TRANSPORTATION

- Transit connectivity:
 - East/West and North/South.
 - Franklin Blvd.
 - Increased school service.
 - Increased evening/weekend.
 - Reduced fares.
- Consider unbanked people when providing access for transit payment systems, tax credits, etc.
- Prioritize active transportation investments in disadvantaged communities.
- Plan to use space freed up by autonomous vehicles for housing density, parks, and transit!

- Bike lanes with high visibility.
- Transit between cities.
- Connectivity for bikes.
- What are transportation plans after Measure B defeat? How can we help?

ENERGY

- ▲ Challenges to address energy consumption and renewable energy installations for residences include bad roofs, electrical boxes that can't support solar panels, and other structure issues. Create a subsidized weatherization/home improvement loan program which is paid back when a home is sold or refinanced.
- ▲ The County should encourage more electric vehicle use:
 - Encourage employee electric vehicle use as well as changing the fleet to more electric vehicles.
 - Provide electric vehicle parking/charging at work.
 - Provide incentives to allow low-income residents to pay for electric vehicles.
- Incentivize rooftop solar and reduce the difficulty of the permitting process.
- ▲ Look at example communities which are "energy neutral". Consider making Sacramento County an energy neutral community.
- ▲ Encourage signups for SMUD's Greenergy program.
- ✓ Consider how much fuel is brought into the County and used and what the potential emissions from such fuel would be.
- ▲ Improve and make the electrical grid more efficient.

WATER

- ▲ Consider the amount of consumption of water to produce electricity and goods.
- Install water meters.

SOLID WASTE

- Prioritize food recovery/donation and source reduction before composting.
- ▲ Allow food waste to be collected into yard waste containers.
- County should put a zero-waste goal in place.



AGRICULTURE/LANDSCAPING/OTHER

- Consider the importance of protecting farmland. Look at where easements are expiring and make sure those lands are protected.
- ✓ Consider how the County can provide for tree maintenance so that trees are kept healthy and don't need to be removed. A better tree maintenance program would encourage more tree planting.
- Provide funding for tree maintenance.
- Provide for ways to remove grass more easily with less regulations. (per discussion at the meeting, there is a resource available for people interested in removing their lawn: "Kiss your Grass Goodbye" Sarah Sutton)
- ▲ Agriculture is vulnerable to climate change due to temperature changes, heat, flooding, etc. In addition, it can capture greenhouse gases.
- Focus on soil management.
- Urban agriculture.
- Farmland conservation.
- Incentivize local food markets and local production/distribution centers.
- Incentivize soil management practices for farmers (cover crops, mulch, rotation, reduced till, etc.)
- ▲ Promote use of compost versus synthetic fertilizers.
- Streamline state model landscape water ordinance compliance for lawn removal.
- ▲ Promote dairy digesters.
- ✓ Funding for collection services, not just for composting/anaerobic digestion (AD) infrastructure, especially for rural communities.
- More community gardens.
- ▲ Replace grass with fake turf or support other methods to convert lawn.
- ▲ Reintegrate Class 1 agricultural soils into food production.

ADAPTATION

- Hot droughts are harder to deal with than colder droughts.
- ✓ Incorporate systematic methods of addressing neighborhoods for measures such as tree cover and complete streets; don't wait until something new is built to address these issues.
- ▲ Prioritize measures that both reduce GHG emissions and facilitate climate adaptation



- Address and reduce urban heat islands:
 - Encourage cool roofs.
 - More greening.
 - Promote urban greening.
 - This would address personal health.
 - Provide community engagement on this issue.
 - Provide cooling centers where people want to go. One example was to equip bus shelters with shade structures, power outlets, radios, and other tools that would make them more helpful/desirable in an emergency.
- Consider how urbanization may increase flooding risk.
- ▲ Consider the longer-term effects of climate change (don't just look at the next 90 years).
- Address sea level rise.

LOW-INCOME AND DISADVANTAGED COMMUNITIES

- ▲ The County should apply for funding and use Cap-and-Trade funds to help low-income residents.
- ▲ Help low-income residents use available programs.
- ▲ Focus resources and prioritize disadvantaged and low-income communities.

GENERAL

- ▲ Coordinate the climate action planning process with service providers such as SMUD and the water districts.
- ▲ Consider neighborhood scale planning. Use targeted planning and measures at multiple geographic scales.
- Re-enforce co-benefits of measures which provide for adaptation or mitigation as well as economic, social, health, or other benefits.
- ▲ Address the tension of multiple goals: cost, climate change, economy, etc.
- Consider the short-term costs in relationship to long-term savings and community resiliency.
- What about local cities? Are they making plans?
- Who will pay for costs?
- Support local development of goods.



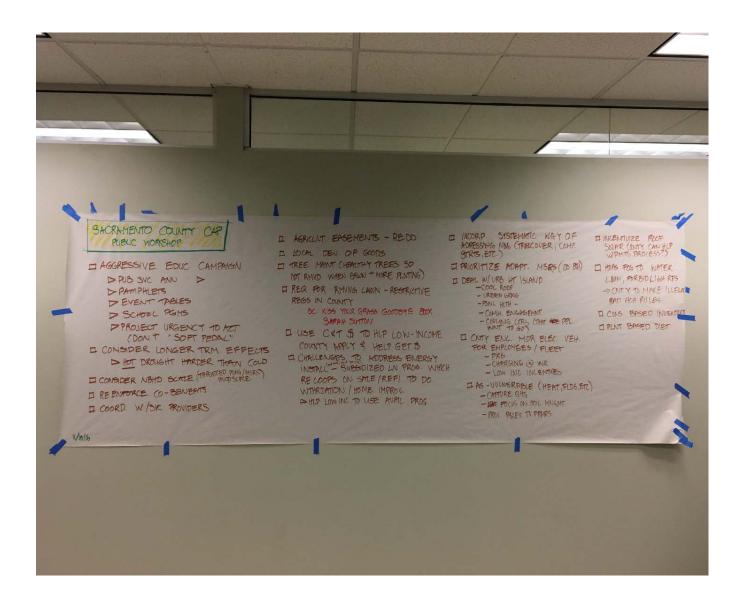
- ▲ The County should make "bad" HOA rules illegal or work with HOAs to remove rules that are not helpful, such as:
 - Not allowing "cool" roofs.
 - Requiring green lawns.
- Use a consumption based inventory approach.
- ▲ Encourage a plant-based diet.
- ✓ Incorporate an overarching policy/strategy for including climate change considerations in all County actions (i.e., Measure B, Tree Protection, etc.)
- ▲ Label groceries with carbon dioxide used per pound of product (carbon intensity information next to nutrition label).

OUTREACH/EDUCATION

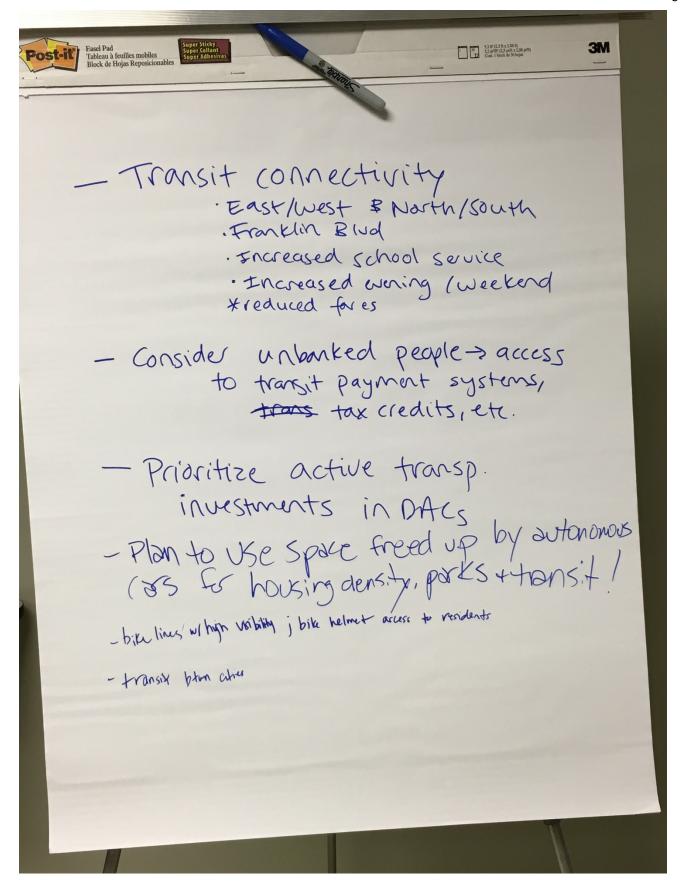
- ▲ Conduct an aggressive educational campaign to market climate adaptation and climate change mitigation strategies. Project that it is urgent to act and don't "soft pedal" the importance of the need to act. Consider the following techniques:
 - Public service announcements.
 - Pamphlets.
 - Setting up tables at community events.
 - School programs.
- ▲ Inform residents about carbon fee and dividend programs.
- Schools should teach climate change. Maybe the County could provide a liaison to charter schools to help them create educational programs.
- More education and awareness.
- Work with credit card companies to provide residents with a monthly statement showing pounds of emissions per day per person to inform how they could reduce their emissions. This would be real-time data that would help educate people and inform them on how to reduce. See Appendix for letter which further explains this idea.
- Use social media to inform the public about the climate action planning process as well as after to keep them informed about strategies and measures.
- Provide better alerts to let people know that the climate action planning process is happening and that it exists. Use social media as one tool.

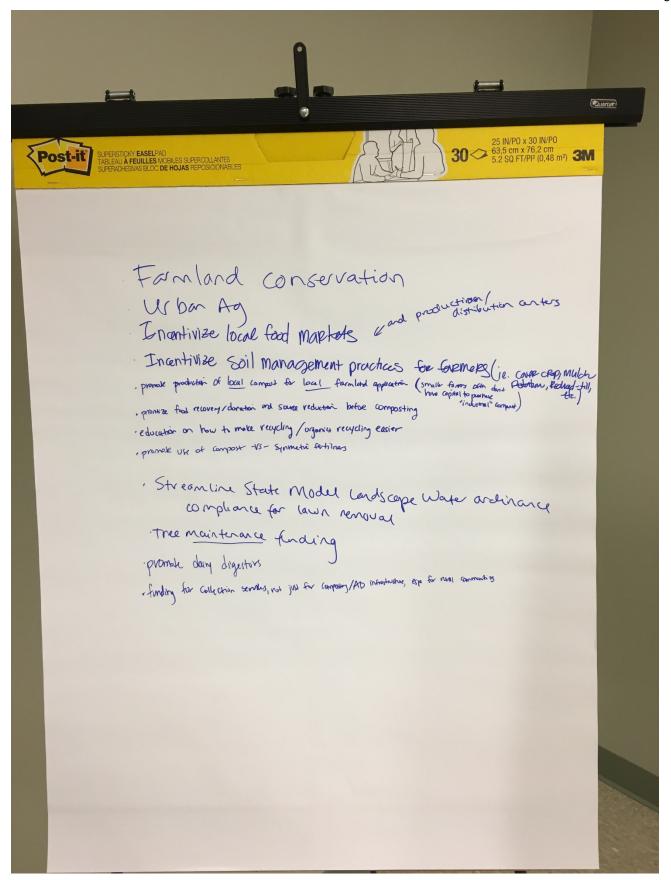


APPENDIX

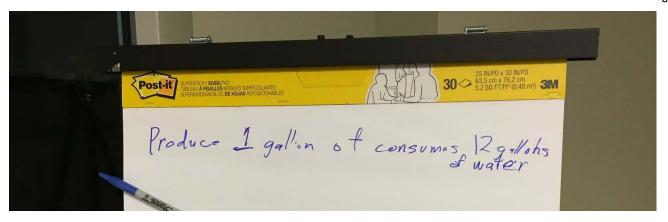


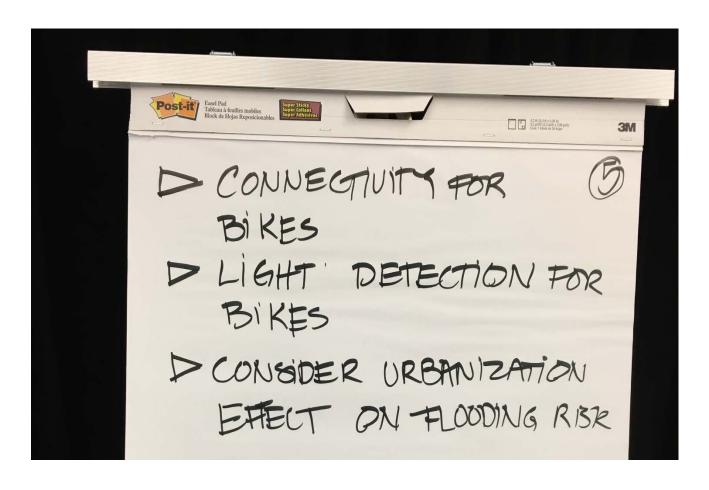










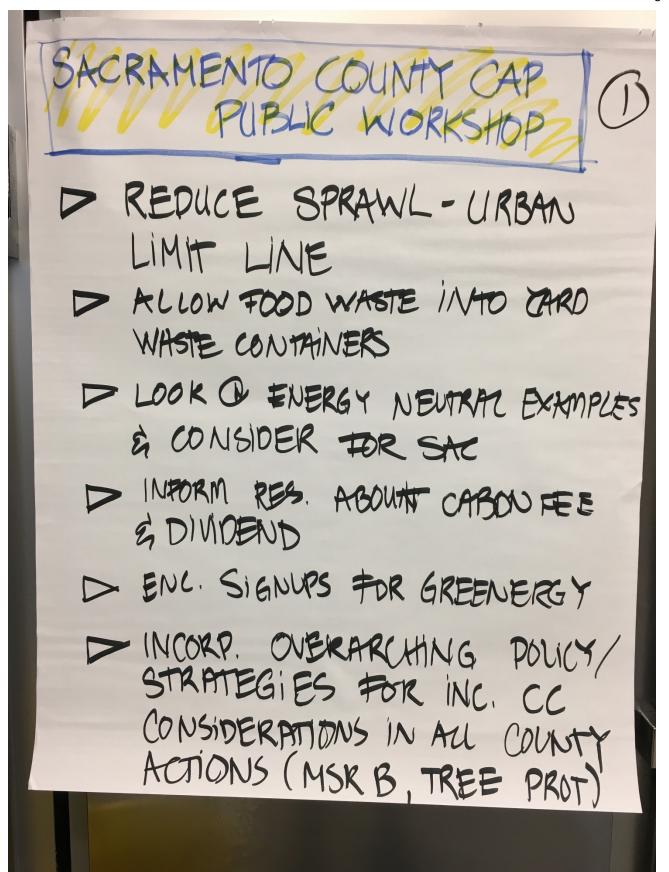




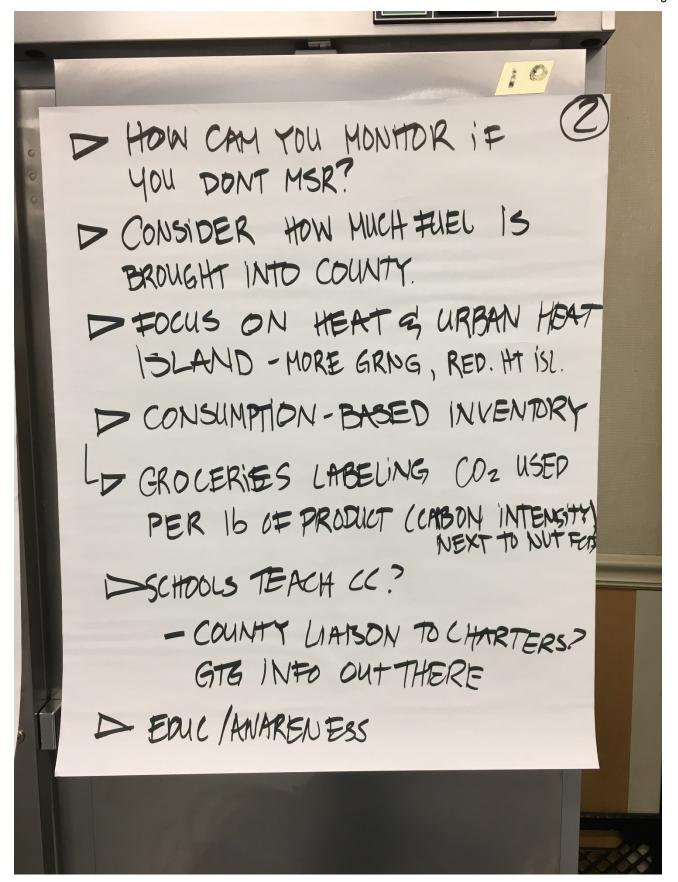
What about local
cities—are they making
plans?
Who will pay for costs?
> BETTER ALERTS TO LET PPL KNOW THAT
CAP IS HAPPENING & THAT IT EXISTS _ SOUTH MEON.

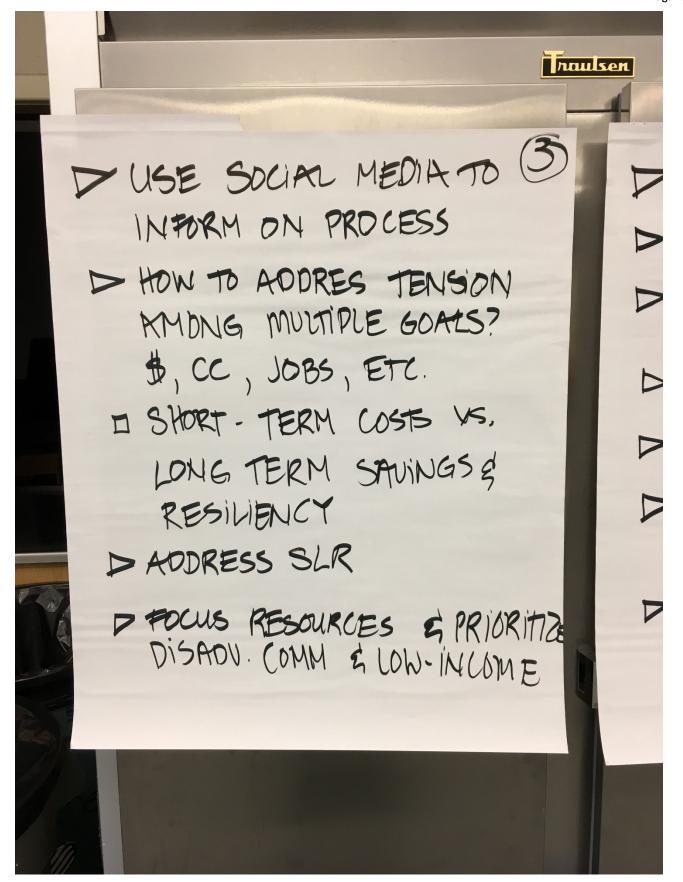
. Zero Waste @ Cunty Level
What are transportation plans
after Measure B defeat>
How can we help?



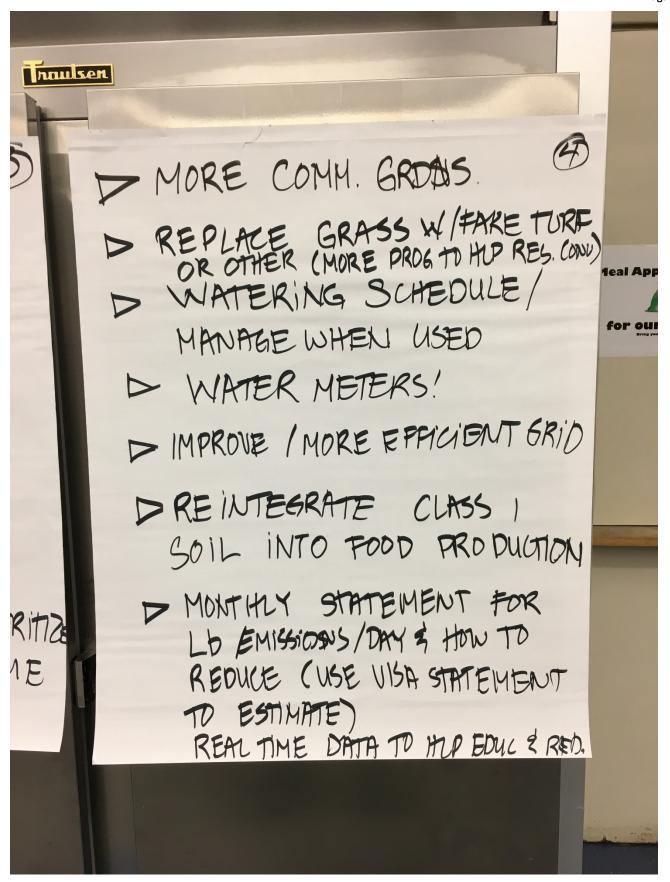














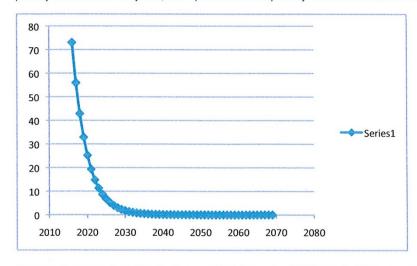
November 15,2016

Dear ClimateActionPlan@saccounty.net and Todd Taylor at (916) 874-3125 or taylorto@saccounty.net .

Thank you for asking for suggestions on the County Climate Action Plan

Might the goals of the Sacramento County Climate Action Plan include the following?

- To inform every Sacramento resident that climate change is a threat to our national security.
- That the CO2 we emit each day are contributing to that climate change.
- That the Paris talks recommended limiting global warming to 1.5 degrees C.
- That limiting global warming to 1.5 degrees C gives us each 101,309 pounds of CO2 per person if world population grows to 9.4 billion in 2070 as the UN predicts.
- that limiting warming to 1.5 degrees C gives us each 128,000 pounds of CO2 if the world's population were to stabilize at 7 billion people.
- If Californian's spread their 101,309 pounds of CO2 out over 54 years, they must average 5.14 pounds of CO2 per person per day.
- If Californian's spread their 128,000 pounds of CO2 out over 54 years, they could average 6.4 pounds of CO2 equivalents per person per day.
- Californians' averaged 73 pounds of CO2 per day in 2013. To average 5.14 pounds of CO2 per person per day over the next 54 years, their "pounds of CO2 per day" must follow the following curve:



How can Sacramento residents decrease their "pounds of CO2 per day" from an average of 73 pounds of CO2 per day to 5.14 pounds of CO2 per day?

Every time a Sacramento resident engages in an activity that emits CO2, they should have a prompt that asks them "Can I emit less CO2 by doing something else?"

What might those prompts be?

In grocery stores, items might be labeled with the "pounds of CO2 emitted per pound of product" like on the Greeneatz website.

Stores might total the "pounds of CO2 emitted", and their receipts might read "it took ___X___ pounds of CO2 to provide you with your groceries today. The average Californian emitted 73 pounds of CO2 per



day in 2013. To avoid 1.5 degrees of global warming, the average world citizen must average 5.14 pounds of CO2 per day for the next 54 years, and then stop emitting all CO2 and all greenhouse gases.

Sacramento County might ask VISA Companies to estimate our "pounds of CO2 equivalents emitted per day" from our last month's VISA bill. This can be done by multiplying every expense by 33 pounds of CO2 for every \$100 spent. (If you divide the California per capita pounds of CO2 emitted by the California per capita Gross Domestic Product, you get about 33 pounds of CO2 per \$100 of Gross Domestic Product.)

The VISA monthly statement could estimate the "pounds of CO2 equivalents emitted per day" from last months purchases.

The VISA Company could estimate the "pounds of CO2 per day" we can emit next month to be on track to avoid 1.5 degrees of global warming.

The VISA Statement would not at first include all our "estimated pounds of CO2 per day." The US military is emitting many "pounds of CO2 per day" on our behalf, and it would take time to include those in the VISA statement.

Still, it is important to begin with even a very crude estimate, for currently we all emit CO2 every day without being aware of the CO2 we are emitting, and we have no idea how much we need to decrease our "pounds of CO2 per day" to avoid 1.5 degrees of global warming.

It will take time for people to become interested in the "pounds of CO2 equivalents per day" that they emit. Religious leaders might be asked to have their friends get VISA Cards that tell them the "pounds of CO2 equivalents emitted per day", for our CO2 emissions are the cause of climate change, and climate change is recognized as a problem by Jewish, Christian and Muslim leaders.

The Islamic Declaration on Global Climate Change

calls on the people of all nations and their leaders to -

 Aim to phase out greenhouse gas emissions as soon as possible in order to stabilize greenhouse gas concentrations in the atmosphere;

We call on all groups to join us in collaboration, co-operation and friendly competition in this endeavour and we welcome the significant contributions taken by other faiths, as we can all be winners in this race

If the Sacramento County Climate Action Plan states the "pounds of CO2 equivalents emitted per Sacramento County resident per day", it will be easier for Sacramento County to enter into a friendly competition with other counties.

If the Sacramento County Climate Action Plan states the "pounds of CO2 equivalents emitted per Sacramento County resident per day", it will be easier for each of us to look at our VISA Statement and see how well we are doing in decreasing our own "pounds of CO2 equivalents per person per day" in our family.

Reference:

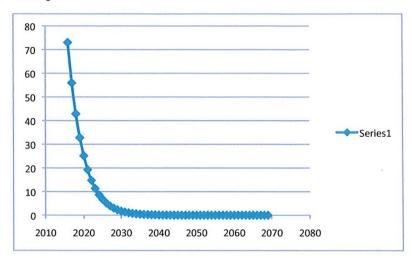
http://islamicclimatedeclaration.org/islamic-declaration-on-global-climate-change/

I suspect all this is difficult to imagine, and you might want to discuss this with climate experts. Could I come talk to you about making "pounds of CO2 equivalents per person per day" one of your units for GHG inventory and forecasts?

Would you consider having one of your GHG reduction targets be the "pounds of CO2 equivalents per person per day" required to avoid 1.5 degrees of global warming?



Would you agree the following graph shows the targets for the "pounds of CI2 equivalents per person per day" for the "ideal average Californian" for the next 54 years in order to avoid 1.5 degrees of global warming?



Would you recommend that stores in Sacramento County display the "pounds of CO2 equivalents" required to make and transport the items that they sell?

(This will help Sacramento County residents buy those items requiring the least amount of CO2 equivalents to make and transport to store.

This will help supplier reduce the CO2 equivalents required to make and transport their products to stores

This will help Sacramento County meet its GHG reduction targets.

When Sacramento County Residents make a major purchase that significantly affects their "pounds of CO2 per day", might they need to sign a statement saying something like the following:

- I recognize that climate change is a threat to our national security.
- I recognize that the pounds of CO2 I put into the air contribute to climate change.
- I have considered the "pounds of CO2 per day" in making this purchase, and feel it is necessary, even though I will be emitting much more than 73 pounds of CO2 equivalents on the day I make this purchase.

This statement might include the following:

The Department of Defense recognizes that "climate change is an urgent and growing threat to our national security, contributing to increased natural disasters, refugee flows, and conflicts over basic

resources such as food and water. These impacts are already occurring, and the scope, scale, and intensity of these impacts are projected to increase over time." (1)

Climate scientists tell us that the "pounds of CO2" we put into the air each day are a major cause of global warming and climate change.



- I have watched the online video Journey to Planet Earth Extreme Realities

http://video.pbs.org/video/2365380402/

which describes some of these threats to our national security.

Thank you for considering these thoughts,

Sincerely,

Bruce

Bruce Burdick

brucenburdick@icloud.com4

1) 150724-congressional-report-on-national-implications-of-climate-change.pdf



Dear Kathleen Ave (SMUD Representative),

Nov 15, 2016

Thank you for coming to the Climate Action Plan talk tonight.

I am hoping the Sacramento County Climate Action Plan will have part of its inventory expressed in "pounds of CO2 equivalents per Sacramento resident per day."

I realize this will be hard for people to learn, but I think "pounds of CO2 equivalents emitted per day" has advantages.

- it wold encourage us to think about the pounds of CO2 we emit each day
- it can be related to 1.5 degrees of global warming as discussed below. Currently Californians emit about 73 pounds of CO2 per day. IN order to avoid 1.5 degrees of global warming, we must decrease our "pounds of CO2 emitted per day" so that the average over 54 years is 5.14 pounds of CO2 per day.
- To decrease our "pounds of CO2 emitted per day" to zero over the next 54 years, we will need to do
 more than have 100% renewable energy. We will need to make cars and roads and buildings with
 materials that do not involve CO2 emissions. That is possible, as in the following TED Talk, but it won't
 be easy.

https://www.ted.com/talks/oded_shoseyov_how_we_re_harnessing_nature_s_hidden_superpowers

I hope SMUD will teach us about the "pounds of CO2 we emit each day" supplying us with electricity.

That will start us on the road of thinking about all the ways we emit CO2 equivalents each day (like when we buy food, or cars, or houses, or anything.)

Might you like to discuss my "pounds of CO2 equivalents emitted per day"? I went to the Cool California Carbon Calculator website, found out the tonnes of CO2 I emitted last year, multiplied them by 2205 pounds per tonne, and divided them by 365 days per year to find out I emitted about 88 pounds of CO2 per day last year.

I need a lot of help decreasing my "pounds of CO2 emitted per day", as well as all the "pounds of CO2 emitted per day" of my neighbors.

I hope you and SMUD would like to teach us all how to decrease our "pounds of CO2 emitted per day" as seen in the following graphs.

Thank you for considering it,

Bruce

Bruce Burdick brucenburdick@icloud.com

From: Bruce Burdick

bburdick@surewest.net>

Subject: Might the Climate Action Plan include an inventory and targets expressed in "pounds of CO2 equivalents per Sacramento resident per day"?

Date: November 16, 2016 at 12:24:59 AM PST

To: ClimateActionPlan@saccounty.net, Sacramento Air Todd Taylor < taylorto@saccounty.net>

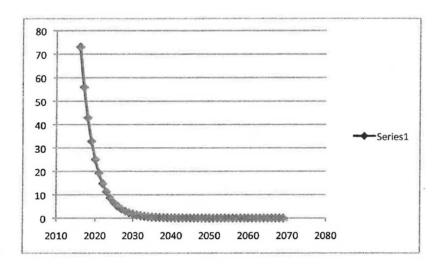
Cc: Bruce Burdick < brucenburdick@icloud.com>

Dear ClimateActionPlan@saccounty.net and Todd Taylor at (916) 874-3125 or taylorto@saccounty.net.

Thank you for the Sacramento County Climate Action Plan presentation tonight Tuesday Nov 15, 2016.

I got to discuss the following Graph 1 with Erik DeKok





and am hoping you might discuss it with him. Might you modify this graph according to your liking, and make your version part of the Sacramento County Climate Action Plan?

The graph shows the "pounds of CO2 equivalents per ideal Californian per day" decreasing so that global temperatures rise less than 1.5 degrees C.

It shows the ideal average Californian's "pounds of CO2 emitted per day" starting at 73 pounds of CO2 per day in 2016. The average Californian emits about 73 pounds of CO2 per person per day.

This number is derived from The California Air Resources Board Scoping Plan which says that Californians emitted 458 million metric tonnes of CO2 equivalents within the State of California in 2013

http://www.arb.ca.gov/cc/inventory/data/tables/ghg_inventory_scopingplan_2000-13_20150831.pdf

Dividing 458 million metric tonnes of CO2 among 38 million Californians, and expressing it in pounds per day comes to about 73 pounds of CO2 per California per day

It assumes every Californian and every world citizen emits less than 101,309 pounds of CO2 from 2016 to 2070, and decreases their "pounds of CO2 emitted per day" so that they average about 5.14 pounds of CO2 per person per day.

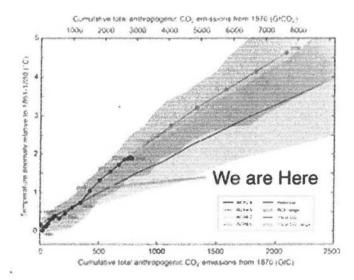
Here is the spreadsheet used to make the data for the graph.

Here is the spreadsheet with transcribed data in a more compact form so that my computer could make the graph:

What is the basis for this graph?

The following graph shows global temperatures rising with world CO2 emissions.





The following website says that when the world releases 400 billion metric tonnes of CO2, there is a 66% chance the world will warm 1.5 degrees.

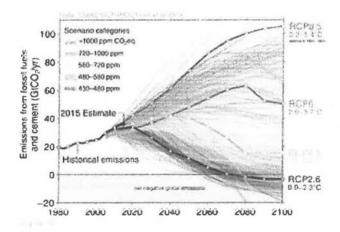
https://www.carbonbrief.org/analysis-only-five-years-left-before-one-point-five-c-budget-is-blown

If you divide 400 billion metric tonnes of CO2 between 8.7 billion people (the average population between now and 2070 according to the UN), each person gets 101,379 ponds of CO2 over the next 54 years. There are 19,710 days in the next 54 years. Dividing 101,379 by 19,710 comes to 5.14 pounds of CO2 per person per day.

The following spreadsheet shows that if you decrease the average Californian's 73 pounds of CO2 per day by 73 one thousandths of 1% per day, every day for 54 years, you average about 5.14 pounds of CO2 per day, and you end up using about 101,309 pounds of CO2 over that 54 year period.

The blue line of the following IPCC graph shows world CO2 emissions going to zero in 2070, and so 2070 was used as the year world CO2 emissions would go to zero.





Do you think Graph 1 and it's spreadsheet are accurate?

Note that Graph 1 is of the ideal average Californian's total CO2 emissions. It includes all of the CO2 emissions in the California Air Resources Board Scoping Plan, as well as the following CO2 emissions not included in the CARB Scoping Plan.

- CO2 emissions of airline flights outside of California.
- CO2 emissions of products made in China and other foreign countries, and bought by Californians.
- investments by Californians. (What are the CO2 emissions that result from a Californian investing \$10,000 in stocks or muscular funds like Exxon or the Vanguard S&P 500?
- CO2 emissions made on our behalf by the U.S. military, including the 1 trillion dollars which
 Congress is considering spending to upgrad and maintain our nuclear arsenal over the next 30
 years. I do not believe this graph gives us the CO2 emissions to upgrade and maintain our
 nuclear arsenal, and so I think this graph is another argument for pursuing serious nuclear arms
 reduction talks with Russia and other countries with nuclear weapons.

If the world population were to remain stable at 7 billion people, would we each individually be able to emit more pounds of CO2 and still keep global warming below 1.5 degrees C?

Yes.

If you divide 400 billion metric tonnes of CO2 by 7 billion people, we would each get 126,000 pounds of CO2.

(400 billion divided by 7 billion = 57.14 metric tonnes of CO2.

57.14 metric tonnes of CO2 times 2205 pounds per metric tonne = 126,000 pounds of CO2.)

If you divide 400 billion metric tonnes of CO2 by 8.7 billion people, we would each get 101,309 pounds of CO2

(400 billion divided by 8.7 billion = 45.6 metric tonnes of CO2.

45.9 metric tonnes of CO2 times 2205 pounds of CO2 per metric tonne = 10f;860 pounds of CO2.)

If our "pounds of CO2 emitted per day" have to decrease according to Graph 1, It will be much easier to avoid 1.5 degrees of global warming if we don't have to emit CO2 building homes for an additional 2.4



I suspect all this is difficult to imagine, and you might want to discuss this with climate experts. Could I come talk to you about making "pounds of CO2 equivalents per person per day" one of your units for GHG inventory and forecasts?

Would you consider having one of your GHG reduction targets be the "pounds of CO2 equivalents per ideal Californian per day" required to avoid 1.5 degrees of global warming?

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- I recognize that climate change is a threat to our national security.

- I recognize that the pounds of CO2 I put into the air contribute to climate change.

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resources such as food and water. These impacts are already occurring, and the scope, scale, and intensity of these impacts are projected to increase over time." (1)

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