

Comment 1 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Nancy

Last Name: Clark

Email Address: nanski@socal.rr.com

Affiliation:

Subject: Global Warming

Comment:

I congratulate CARB for recommending implementation of mandated energy standards, muscular energy efficiency measures, and clean vehicle requirements.

However, CARB must go farther if we are going to make the major changes needed to prevent catastrophic changes to our climate. Please include in your Final Scoping Plan steps to

- Reduce vehicle miles traveled
- Speed up production of zero-emission vehicles
- Boost recycling rates
- Auction off any emissions permits
- Limit offsets
- Minimize air quality impacts in our most-polluted communities.

Thank you very much for all your hard work.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-01 20:50:34

No Duplicates.

Comment 2 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: James

Last Name: Miller

Email Address: jrusmiller@yahoo.com

Affiliation:

Subject: Deminimus Thresholds

Comment:

The deminimus thresholds should be on truly minor issues. Your example of a computer duster is not minor and is easily taxed. The 800 pounds of GWP emitted at an estimated \$10/ton CO2E means that can would produce \$4 in tax revenue. The distributor of the can is selling thousands so it is easily intercepted. There is also the societal benefit that children cannot inhale them and die as dozens do each year.

A deminimus emission would be the VOC from an underarm deodorant stick. Even a truck load would have lower VOC emissions than the untreated underarms.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-07 17:17:17

No Duplicates.

Comment 3 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Philip
Last Name: Hodgetts
Email Address: hodjets@thegrid.net
Affiliation: Clean Aie Now

Subject: Comments on Scoping Plan

Comment:

The Climate Change Draft Scoping plan requested public comment. I am submitting my suggestions, But first I believe we should review where we are, how we got here, and where we need to go.

To see how we got here and where we are we need to go back about a hundred year s. Several factors gave the nod to internal combustion engines over electric vehicles. Improved roads lead to the demand for more range than could be obtained by electric vehicles at that time. An electric starter made it possible for ladies to drive the cars. The abundance of petroleum provided a cheap source of fuel. The petroleum industry and the auto industry helped make our country the great world leader it is today. The success of these industries in the past has trapped us into thinking that this is the correct course to take in the future. Nothing could be further from the truth. The petroleum is neither inexpensive nor available locally. The IC engine uses only 15% of the energy available for propulsion. The rest goes of as heat. The shear numbers of the vehicles has created an unacceptable pollution problem. Our present policies are setup to perpetuate the status quo. Presently, the most highly subsidized entity is the petroleum industry. The intention of a subsidy is to give aid to an infant industry so it can get on its feet. Instead, our money is going to the most profitable of industries, helping them to maintain a monopoly and keep out competitive industries. This is the exact reverse of what a subsidy should be used for. With the above thoughts in mind, here are my suggestions.

Renewable energy infrastructure is needed. The governor has made

progress
in providing for the installation of hydrogen stations. The stations should also be a source of all forms of nonpolluting renewable energy- ethanol, biodiesel etc.

The drivers should have the option of supporting Arab millionaires and contributing to pollution or helping American farmers and helping to clean the air.

A system has been developed for improving the performance of heavy equipment and trucks by XOP, Inc. The system electrolyzes water and the Hydrogen and Oxygen is added to the intake of the engine. The system improves the mileage, and greatly reduces all pollutants. It has been approved by CARB. Web site [www.h2xop.com <http://www.h2xop.com/>](http://www.h2xop.com/) A similar system small enough to fit in an automobile needs to be designed.

SOLAR

The fastest return on an investment in solar energy is in solar water heating, and tax credits are available. (1) In the 1920's fifty percent of the homes in Florida heated their water with solar energy. Then they started running in natural gas lines and the price was so reasonable that the solar units disappeared. Today, with the high price of natural gas, you can save money with the solar heaters.

Photovoltaic (PV) panels have a bright future. One of the great contributions of this type of energy is that it can be installed locally, where it is needed. It is distributed energy. It requires no additional electric lines and there is no line loss involved. Most other forms of energy including wind systems are located remotely from where the energy is needed. The lines and the systems are vulnerable to natural disasters and to terrorists. The PV panels are a CGS system, clean, no particle pollution, green, no air pollution and serene, no noise pollution. There is one more important characteristic of these panels. They produce the most electricity right when there is a peak demand. Enough of these units on line would be a great buffer to black outs. But here is where our polices interfere with progress. There was a cap on the number of PV units that will be subsidized at 1.5% in California. It is interesting to note that the energy

source with
the greatest potential is the one we are using the least. De
Winter and
Swenson (2) place the technically feasible energy from PV at 60
terawatts. A
terawatt is one million megawatts. The world energy consumption in
2005 was
17 terawatts

Turning Trash into Cash (TIC)

One of the emerging technologies that Barry Hanson has disclosed
in his book
"Energy Power Shift" is the possibility of turning garbage into
oil (3). The
process heats the waste material to a high temperature in the
absence of
oxygen, Pyrolysis. It does in hours what it took Mother Nature a
millennium
to do.

This is a win, win, situation. It produces a source of oil for all
of us
while eliminating tons of trash going into land fills where it
produces
methane gas.

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Mr. Hanson has pointed out that if we open up the Artic National
Wildlife
Reserve, after ten years the total amount of energy available will
be 14
Quads (we currently use 27 Quads in one year in the USA) The
temperature
conversion process can provide us with 120 Quads before one drop
of oil can
be pumped from the ANWR.

For those who think a switch to alternative energy would cost too
much
money, Barry Hanson has summarized the benefits as:

6.5 million new jobs
Clean environment
Energy independence
True national security
Sources.

1. [WWW.energystar.gov <http://www.energystar.gov/>](http://www.energystar.gov/)
2. "A Wake-up Call" By Francis de Winter and Ronald B. Swenson,
Solar Today,
March/April 2006
3. "Energy Power Shift, Benefiting from Today's Technologies" by
Barry J.
Hanson. Lakota Scientific Press.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-16 09:53:00

No Duplicates.

Comment 4 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Harvey

Last Name: Sherback

Email Address: harveysherback@yahoo.com

Affiliation:

Subject: Re: A Solar Solution To California's Water Shortages

Comment:

California Air Resources Board
ARB Board of Directors

Mary D. Nichols
Chairwoman

July 17, 2008

Dear Chairwoman Nichols, ARB Board of Directors & Staff,

Thanks for your many good works, your strong environmental stand is much appreciated. Here in California, we are told that the snow packs on our mountain tops are shrinking. There's less and less fresh water to share between our growing populations, farmers, ranchers and wildlife. Water is life.

The following article alerted me to the problem concerning the oil fired, natural gas, coal and nuclear power plants. They all use copious amounts of our nation's fresh water resource.

<http://planetsave.com/blog/2008/01/23/water-shortage-could-dry-up-nuclear-power-plants-in-southeast/>

Headline: U.S. WANTS TO CUT POWER PLANT WATER USAGE

Wed, 18 Jul 2007 20:32:16 GMT
Science Technology News
Author: Science News Editor

WASHINGTON, U.S. Department of Energy officials said thermoelectric power plants using coal, oil, natural gas and nuclear sources require significant amounts of water for cooling and are a major competitor for water resources. A 2000 study found electric power plants were the second largest U.S. user of fresh water, withdrawing 136 billion gallons of fresh water daily. Only agriculture used more water.

Energy Department officials said the goal is to achieve a "50 percent" reduction in power plant fresh water usage by 2015.

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The full article:

<http://www.earthtimes.org/articles/show/84367.html>

Solar electric roof shingles and solar electric panels use "no" water in the generation of clean renewable electricity. They have no moving parts, make no noise, cause no chemical reaction, require virtually no maintenance and are guaranteed on average for 25 years.

When one factors in the true cost of generating electricity including the use of water as well as the production of greenhouse gases and other toxic emissions, solar electricity leads the field with clean, low cost, renewable energy.

Governor Schwarzenegger has recently told us that due to climate destabilization, forest fires aren't just seasonal anymore, they're year round. This will add new competition for our already strained precious water resources.

California can improve its flexibility to cope with an uncertain water future by working to seriously reduce demand while practicing environmental stewardship.

Harvey Sherback

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-17 07:06:11

No Duplicates.

Comment 5 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Kate

Last Name: Bailey

Email Address: kate@ecocycle.org

Affiliation: Eco-Cycle, Boulder, CO

Subject: GWP over the short term or 20-year period

Comment:

Global warming potential is measured by the IPCC over three time periods: 20, 100 and 500 years. While Kyoto policymakers set the current standard for calculating emissions over the 100 year impact, the IPCC states the choice of time period is a policy decision, not a scientific one. The attached document speaks more to the background of why GHG emissions can be evaluated over any of these three timelines and why the 20-year timeline is essential to moving climate solutions forward.

I urge the California Air Resources Board to consider both the 100 and 20 year time periods in your GHG calculations. This means recalculating only the non-CO₂ emissions in your inventory since CO₂ emissions are normalized as 1 across all time periods. The benefits of this approach are tremendous. We have little time to make substantial changes across all sectors of our economy. Short term reductions of potent GHG emissions will essentially buy us precious time to make the longer term reductions needed in CO₂ emissions from transportation and energy use. These reductions offer more "bang for the buck" at a time when every penny counts.

Paramount to short term emission reductions is eliminating methane releases from landfills. A commitment to ending the practice of sending organic materials - yard trimmings, food scraps and paper products - to landfills will eliminate potent methane emissions. Methane is 72 times more potent than CO₂ over a 20-year time period, and will comprise a much larger percentage of overall GHG emissions when evaluated over the short term. Again, looking at the whole picture through a short and long term scope gives a more accurate view of what is needed to move us forward, quickly and efficiently.

Investing in composting infrastructure to keep these organic materials out of landfills will also yield carbon storage benefits. Soil is one of our largest carbon stores, yet we have rapidly depleted its carbon content over the past 150 years of industrialized farming. Soil holds more carbon than the atmosphere or biomass (see www.cool2012.org) and replenishing soil carbon stocks by applying compost from otherwise landfilled organic materials is a no-brainer climate solution.

This opportunity to achieve substantial emission reductions in the near term is a must for local and national climate strategies. I urge California to be a leader in evaluating both the short and long term impacts of our GHG emissions and implementing strategies

to address both needs.

Attachment: <https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgwp-ws/5-methane20yearimpactecocycle.pdf>

Original File Name: methane20yearimpactecocycle.pdf

Date and Time Comment Was Submitted: 2008-07-29 09:44:12

No Duplicates.

Comment 6 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: L.

Last Name: Johns

Email Address: ljohns@metacosmos.org

Affiliation:

Subject: save the planet

Comment:

Reducing greenhouse gases is highest priority for the planet!

Make polluters pay for their emissions of greenhouse gases, using the resulting revenues to promote clean energy and aid low-income consumers. Limit sharply and verify any offsets. Do not link our program to any states with weaker emission standards.

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Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-29 12:36:40

No Duplicates.

Comment 7 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Lilian

Last Name: Lee

Email Address: lilian2004@gmail.com

Affiliation:

Subject: Livestock sector is a major greenhouse gas source

Comment:

I was excited for your fast response on the hot issue of global warming, and encouraged by your efforts.

I would suggest adding a livestock sector as one of the greenhouse gas sources. According to Senior UN Food and Agriculture Organization (FAO) official Henning Steinfeld, "Livestock are one of the most significant contributors to today's most serious environmental problems ...", and "Urgent action is required to remedy the situation." The reasons include:

1. "...the livestock sector generates more greenhouse gas emissions as measured in CO₂ equivalent - 18 percent - than transport. It is also a major source of land and water degradation."
2. "It generates 65 percent of human-related nitrous oxide, which has 296 times the Global Warming Potential (GWP) of CO₂. Most of this comes from manure. And it accounts for respectively 37 percent of all human-induced methane (23 times as warming as CO₂), which is largely produced by the digestive system of ruminants, and 64 percent of ammonia, which contributes significantly to acid rain."
3. "Livestock now use 30 percent of the earth's entire land surface, mostly permanent pasture but also including 33 percent of the global arable land used to producing feed for livestock, the report notes. As forests are cleared to create new pastures, it is a major driver of deforestation, especially in Latin America where, for example, some 70 percent of former forests in the Amazon have been turned over to grazing."
4. "The livestock business is among the most damaging sectors to the earth's increasingly scarce water resources, contributing among other things to water pollution, eutrophication and the degeneration of coral reefs. The major polluting agents are animal wastes, antibiotics and hormones, chemicals from tanneries, fertilizers and the pesticides used to spray feed crops. Widespread overgrazing disturbs water cycles, reducing replenishment of above and below ground water resources. Significant amounts of water are withdrawn for the production of feed."

For more detail information about livestock, please click the link www.fao.org/newsroom/en/news/2006/1000448.

Livestock sector is a major greenhouse gas source. Please do not ignore it. Thanks for your attention.

Lilian

Attachment: <https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgp-7-toarb-072908.doc>

Original File Name: toARB-072908.doc

Date and Time Comment Was Submitted: 2008-07-29 22:03:21

No Duplicates.

Comment 8 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Brent

Last Name: Eidson

Email Address: beidson@sandiego.gov

Affiliation: City of San Diego

Subject: Methane Control

Comment:

Economic modeling of landfill methane control measures is insufficient. For example compare economic modeling of solar and wind utilization within the document to that of landfill methane.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-30 11:29:27

No Duplicates.

Comment 9 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Wei

Last Name: Ding

Email Address: wdwei@yahoo.com

Affiliation:

Subject: Educate public regarding global warming

Comment:

Government needs to put more efforts to educate public regarding the global warming and what people can do to curb it in the very short time frame. Further, vegetarianism is the only way to solve the current planetary crisis.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-31 22:34:07

No Duplicates.

Comment 10 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Tao

Last Name: Wang

Email Address: etaoch@gmail.com

Affiliation:

Subject: Vegetarianism is the Solution to Save the World

Comment:

To stop 80% global warming, please use animal free products.
go veg, be green, save our planet.

For more urgent details, please go to:

<http://www.suprememastertv.com/>

the following link is Supreme Master Ching Hai on the Environment
Vegetarianism is the Solution to Save the World Part 1 - London
Conference.flv

http://www.suprememastertv.com/tw/bbs/board.php?bo_table=featured_tw&wr_id=120&goto_url=

Hope every one will know we can do our own best to help save our planet.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-07-31 23:42:19

No Duplicates.

Comment 11 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Lucy

Last Name: Li

Email Address: lightlig4@yahoo.com

Affiliation:

Subject: vegetarian diet is the way to reduce greenhouse gas

Comment:

We should stop to raising animals, stop to kill them, and stop to eat their meats for our health and save the planet.

According Food and agriculture Organization of United Nation, livestock is a major threat to environment. Livestock generates 65

percent of human-related nitrous oxide, which has 296 times the Global Warming Potential (GWP) of CO₂. Most of this comes from manure. And it accounts for respectively 37 percent of all human-induced methane (23 times as warming as CO₂), which is largely produced by the digestive system of ruminants, and 64 percent of ammonia, which contributes significantly to acid rain.

Livestock use 30 percent of the earth's entire land surface, mostly permanent pasture but also including 33 percent of the global arable land used to producing feed for livestock, the report notes. As forests are cleared to create new pastures, it is a major driver of deforestation, especially in Latin America where, for example, some 70 percent of former forests in the Amazon have been turned over to grazing. For more information, please refer to these websites:

<http://www.ecofoodprint.org/climate.html>
<http://www.fao.org/newsroom/en/news/2006/1000448/index.html>

Eating meats cause a lot of diseases, such as cancer, heart disease, mad cow disease, bird flu, etc., while vegetarian diet is safe, health, and economic. Vegetarian kids have higher IQs than their classmates; vegetarians live, on average, six to ten years longer than meat-eaters; fifty percent less likely to develop heart disease and cancer. For more information, please refer to the below websites:

http://al.godsdirectcontact.org/your_food
<http://www.vegsource.com>
<http://www.vrg.org>
<http://www.vegsoc.org>

Thanks for your hard work!

Sincerely

Lucy Li

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-08-01 12:33:24

No Duplicates.

Comment 12 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Zheng

Last Name: Liang

Email Address: lawrence.liang@verizon.net

Affiliation: 909-931-1267

Subject: Subject: Livestock is a marjor reason of global warming

Comment:

Comment:

It is great to know that you as a govenment officials take the iniate to act on this issue of global warming, I was encouraged by you and appreciated your great effort. That's the government that we people need.

After went through your plan, I have found out a big loop hole in the whole act, that is you missed the big picture of the whole issue: the main reason to cause the global warming. If you check all the publication from Nasa Website, Many sicientist have already prooved that the most contribution of the global warming is from live stock industry, meat eating of us is the real reason behind it. Only if we know about the truth, then we can find the right way to solve the problems. Vegetarianism is the best way to stop the global warming.

According to Senior UN Food and Agriculture Organization (FAO) official Henning Steinfeld, livestock are one of the most significant contributors to today's most serious environmental problems and urgent action is required to remedy the situation.? The reasons include:

1. The livestock sector generates more greenhouse gas emissions as measured in CO₂ equivalent to 18 percent than transport. It is also a major source of land and water degradation.

2. Livestock generates 65 percent of human-related nitrous oxide, which has 296 times the Global Warming Potential (GWP) of CO₂. Most of this comes from manure. And it accounts for respectively 37 percent of all human-induced methane (23 times as warming as CO₂), which is largely produced by the digestive system of ruminants, and 64 percent of ammonia, which contributes significantly to acid rain.

3. livestock now use 30 percent of the earth entire land surface, mostly permanent pasture but also including 33 percent of the global arable land used to producing feed for livestock, the report notes. As forests are cleared to create new pastures, it is a major driver of deforestation, especially in Latin America where,for example, some 70 percent of former forests in the

Amazon
have been turned over to grazing.

4. The livestock business is among the most damaging sectors to the earth increasingly scarce water resources, contributing among other things to water pollution, euthropication and the degeneration of coral reefs. The major polluting agents are animal wastes, antibiotics and hormones, chemicals from tanneries, fertilizers and the pesticides used to spray feed crops. Widespread overgrazing disturbs water cycles, reducing replenishment of above and below ground water resources. Significant amounts of water are withdrawn for the production of feed.

For more detail information about livestock, please click the below link: www.fao.org/newsroom/en/news/2006/1000448.

Livestock sector is a major greenhouse gas source. Please do not ignore it. Only vegetarianism can solve the Crysis. Otherwise, by 2012, the world is going to the point of no return. Human specie is going to vanish from the earth including all other living beings. So please add this most important part into your sector or as a general background of this act.

Thanks for your understanding and acceptance of our suggestions

Zheng Liang

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-08-01 12:39:19

No Duplicates.

Comment 13 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Chuck

Last Name: Fraust

Email Address: cfraust@sia-online.org

Affiliation: Director, ESH

Subject: Scoping Plan comments

Comment:

Attached you will find SIA comments for the draft AB 32 Scoping Plan.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgwp-ws/13-comments_to_draft_scoping_planrev2.doc

Original File Name: comments to draft scoping planrev2.DOC

Date and Time Comment Was Submitted: 2008-08-11 15:45:31

No Duplicates.

Comment 14 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Derek

Last Name: Walker

Email Address: dbwalker@edf.org

Affiliation: Environmental Defense Fund

Subject: EDF - High GWP comments

Comment:

Please accept the attached high global warming potential pollutants comments from Environmental Defense Fund on the AB 32 draft Scoping Plan.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgwp-ws/14-edf_-_high_gwp_comments.pdf

Original File Name: EDF - High GWP comments.pdf

Date and Time Comment Was Submitted: 2008-08-12 15:29:51

No Duplicates.

Comment 15 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Maria

Last Name: White

Email Address: mayming@myfastmail.com

Affiliation:

Subject: act on global warming as soon as possible

Comment:

please goveg , catlle raising produced 80 percent greenhouse air
be green , recycle ,plant trees...
Save our planet

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2008-08-27 23:21:11

No Duplicates.

Comment 16 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Chuck

Last Name: Fraust

Email Address: cfraust@sia-online.org

Affiliation: Semiconductor Industry Association

Subject: Comments on 3rd Semiconductor Industry Workshop

Comment:

Attached file contains Semiconductor Industry Association comments derived from the 3rd Semiconductor Industry Workshop conducted September 2nd in Sacramento.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgwp-ws/17-comments_on_sept_2_workshop_call.pdf

Original File Name: Comments on Sept 2 workshop call.pdf

Date and Time Comment Was Submitted: 2008-09-15 09:04:26

No Duplicates.

Comment 17 for High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) - 1st Workshop.

First Name: Dominic
Last Name: Kolandayan
Email Address: dominic.kolandayan@daikinac.com
Affiliation: Daikin AC (Americas), Inc.

Subject: Daikin AC's comments as it pertains to the high GWP sector
Comment:

Please see letter attached. Respectfully submitted. Thank you.
Dominic Kolandayan. Daikin AC (Americas), Inc.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach-old/sp-highgwp-ws/18-daikin_letter_final_signed_-_carb.pdf

Original File Name: Daikin Letter Final Signed - CARB.pdf

Date and Time Comment Was Submitted: 2008-09-22 07:50:23

No Duplicates.

There are no comments posted to High GWP Comments for the GHG Scoping Plan (sp-highgwp-ws) that were presented during the Workshop at this time.