

**Comment 1 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Todd

Last Name: Shuman

Email Address: tshublu@yahoo.com

Affiliation: Wasteful Unreasonable Methane Uprising

Subject: Aliso Canyon Climate Impacts Mitigation Program

Comment:

On behalf of Wasteful Unreasonable Methane Uprising, I submit the following recommendations concerning the Aliso Canyon Climate Impacts Mitigation Program:

1: SoCalGasCo/Sempra shall be required to heavily subsidize the production and installation of anaerobic dairy manure-related gas biodigesters in California.

2: SCGC/Sempra shall be required to heavily subsidize the widespread construction of freestall dairy barn enclosures with methane captured and vented to biofilters in California.

3: SCGC/Sempra shall be required to heavily subsidize a fund that will finance livestock herd size reduction in California (in order to reduce statewide, cattle-related enteric methane emissions) and enable the meaningful mitigation of environmental justice-related impacts associated with dairies and gas wells throughout California.

Sincerely,

Todd Shuman, Executive Director, Wasteful Unreasonable Methane Uprising

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-02-23 08:06:14

No Duplicates.

**Comment 2 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Colby

Last Name: Allerton

Email Address: gcolby1@rocketmail.com

Affiliation:

Subject: SoCalGas Must Fully Mitigate and Compensate for Leaks at Aliso Canyon

Comment:

The damage from Porter Ranch literally negates and cancels out - IN ONE FELL SWOOP - much of the combined efforts of people, businesses and organizations in California to comply with state emission goals/laws. This can't be allowed to pass without compensation.

So yes, make SoCalGas provide full climate mitigation and compensation for their Aliso Canyon / Porter Ranch leaks.

It is crucial that (1) fair multi-faceted reparations are made for the Porter Ranch releases, similar to BP shelling out for the Deepwater Horizon disaster; and, (2) we must STOP the drilling, storing, or building of new power plants for natural gas, fracked or not. Not only do we need to 'wean' ourselves off fossil fuels, we simply need to STOP using it and providing it, and STOP planning on using it. Period.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-02-23 12:27:57

No Duplicates.

**Comment 3 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: William  
Last Name: Burke  
Email Address: ombcomm@arb.ca.gov  
Affiliation: SCAQMD

Subject: Aliso Canyon comments  
Comment:

See attached.

Attachment: [www.arb.ca.gov/lists/com-attach/3-aliso-canyon-mp-ws-VWRcbAEtAGFXfAU0.pdf](http://www.arb.ca.gov/lists/com-attach/3-aliso-canyon-mp-ws-VWRcbAEtAGFXfAU0.pdf)

Original File Name: 16-2-1 Barry Wallerstein.pdf

Date and Time Comment Was Submitted: 2016-02-25 09:28:54

No Duplicates.

**Comment 4 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Brad  
Last Name: Heavner  
Email Address: ombcomm@arb.ca.gov  
Affiliation: CALSEIA

Subject: Aliso Canyon comments  
Comment:

See attached.

Attachment: [www.arb.ca.gov/lists/com-attach/4-aliso-canyon-mp-ws-BjcBMQEtBGUBKIVk.pdf](http://www.arb.ca.gov/lists/com-attach/4-aliso-canyon-mp-ws-BjcBMQEtBGUBKIVk.pdf)

Original File Name: 16-2-1 Brad Heavner.pdf

Date and Time Comment Was Submitted: 2016-02-25 09:28:54

No Duplicates.

**Comment 5 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Jason  
Last Name: Hector  
Email Address: jhector@socal.rr.com  
Affiliation: Porter Ranch resident

Subject: Aliso Climate Impact Mitigation  
Comment:

Mitigation programs should include subsidies for Porter Ranch and surrounding communities towards the purchase and installation of projects which contribute to reducing greenhouse emissions such as solar panels, electric vehicles, solar water heaters.

These projects should be used to help reduce the greenhouse gas consumption in the future of the residents impacted, the businesses impacted and the local government services building such as library, fire stations, and other local government buildings.

The amount of greenhouse gases reduced by these projects could be easily projected over the useful life of (for example the car or the solar panels). I am hopeful this plan will get some careful consideration because I know that our local supervisor is in support of the funds remaining in the community and going to those impacted. Clearly we can document those who were impacted.

I would love to discuss and expand on this idea as there may be other types of projects which should be included. I am giving the main examples like fuel efficient cars and solar panels as a strong starting point for discussion.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-02 20:57:18

No Duplicates.

## **Comment 6 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Bruce

Last Name: Hector MD

Email Address: bphmd43@gmail.com

Affiliation:

Subject: Reparation to Porter Ranch Residents

Comment:

Residents of Porter Ranch are the latest Californian's to experience the hidden cost of fossil fuels. Aliso Canyon oil wells that made many Californians wealthy in the last century expanded their utility in the 1970's to become the largest natural gas storage facility west of the Mississippi. Seemed like it "was all good" till last summer when the leak began (do we really know there haven't been others?).

So. Cal Gas says this storage facility serves most of Southern California so the likelihood of immediate closure seems remote. If any of the 110+ wells are leaking and all were built about the same time, we can likely expect more in the future. More than 2000 residents were displaced while the company frantically worked to seal it, a task just recently completed. Schools remain closed, businesses suffered and all property owners will likely suffer a permanent reduction in home values. To date no proposals to restore homeowner's lost value have been made.

Since fossil fuel dependency and exploitation is the source of the problem, one solution that would add value to homes is the permanent termination of that dependency through installation of rooftop solar on all homes and businesses with consideration of wind power generators on the hillsides if it makes sense.

Residents cannot move their homes. The best leak prevention is removal of the hazardous gas. Tectonic factors present throughout So. California cannot preclude future risk. From the Gas Company's perspective, converting homeowners to renewable energy sources will over 20+ years help mitigate some of the adverse climate effects of the >100 metric tons of methane or more released before leak closure. Rather than pay a fine to the government, conversion of residents to renewables would simultaneously enhance home values and reduce greenhouse gas production consistent with State goals. Homeowners deserve fair compensation for their suffering present and future and the planet needs us to get off fossil fuels.

To my understanding the SCAQMD passed a unanimous resolution indicating "to the extent feasible, to mitigation projects for the benefit of Porter Ranch residents". This proposal would fulfill this goal.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 08:00:37

No Duplicates.

## **Comment 7 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Ara  
Last Name: Marderosian  
Email Address: ara@sequoiaforestkeeper.org  
Affiliation: Sequoia ForestKeeper

Subject: Aliso Canyon Climate Impacts Mitigation Program  
Comment:

Subject: Aliso Canyon Climate Impacts Mitigation Program

Comment:

On behalf of Sequoia ForestKeeper, I submit the following recommendations concerning the Aliso Canyon Climate Impacts Mitigation Program:

1: SoCalGasCo/Sempra shall be required to heavily subsidize the production and installation of anaerobic dairy manure-related gas biodigesters in California.

2: SCGC/Sempra shall be required to heavily subsidize the widespread construction of freestall dairy barn enclosures with methane captured and vented to biofilters in California.

3: SCGC/Sempra shall be required to heavily subsidize a fund that will finance livestock herd size reduction in California (in order to reduce statewide, cattle-related enteric methane emissions) and enable the meaningful mitigation of environmental justice-related impacts associated with dairies and gas wells throughout California.

4: SCGC/Sempra shall be taxed as a mitigation for the Aliso Canyon natural gas well blowout, with the fine set at the rate of 100% of the value per ton of CH<sub>4</sub> released based upon the social and environmental cost of one ton of atmospheric methane emission, as documented in The social cost of atmospheric release, Drew T. Shindell, Climatic Change (2015) 130:313-326, DOI 10.1007/s10584-015-1343-0, page 319, Table 2, Median total; declining rate." That value is 4700 dollars per ton, in 2007 U.S. dollars.

Mr. Ara Marderosian  
Sequoia ForestKeeper®  
P.O. Box 2134  
Kernville, CA 93238  
(760) 376-4434  
ara@sequoiaforestkeeper.org

Attachment:



Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 09:27:20

No Duplicates.

**Comment 8 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Elisabeth  
Last Name: Lamar  
Email Address: elisabethlamar@hotmail.com  
Affiliation:

Subject: Aliso Canyon Climate Impacts Mitigation Program  
Comment:

On behalf of Wasteful Unreasonable Methane Uprising, I submit the following recommendations concerning the Aliso Canyon Climate Impacts Mitigation Program:

- 1: SoCalGasCo/Sempra shall be required to heavily subsidize the production and installation of anaerobic dairy manure-related gas biodigesters in California.
- 2: SCGC/Sempra shall be required to heavily subsidize the widespread construction of freestall dairy barn enclosures with methane captured and vented to biofilters in California.
- 3: SCGC/Sempra shall be required to heavily subsidize a fund that will finance livestock herd size reduction in California (in order to reduce statewide, cattle-related enteric methane emissions) and enable the meaningful mitigation of environmental justice-related impacts associated with dairies and gas wells throughout California.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 09:48:03

No Duplicates.

## **Comment 9 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Todd

Last Name: Shuman

Email Address: tshublu@yahoo.com

Affiliation: Wasteful Unreasonable Methane Uprising

Subject: Supplementary WUMU Comment

Comment:

On behalf of Wasteful Unreasonable Methane Uprising (WUMU), I, Todd Shuman, submit the following supplementary comment concerning the Aliso Canyon Climate Impacts Mitigation Program.

WUMU recommends measures be instituted that require SoCalGas/Sempra to finance further reductions in methane emissions from non-livestock-related sources, including pneumatic devices, pumps, and compressors used within the natural gas industry itself.

WUMU also recommends that CARB enact a Methane Fee that would be imposed on all those responsible for atmospheric methane emissions as a mitigation measure. (Two variants of a methane fee proposal are provided in the appendix below.)

SoCalGas/Sempra shall then be required to subsidize all methane emission fee payers who would be required to comply with any methane fee that might be instituted in the near future. WUMU proposes that this subsidy be 33 percent of total annual methane fees paid by all those responsible for atmospheric methane emissions until documented methane emission reductions associated with methane fee enforcement completely offset the cumulative methane discharge associated with the Aliso Canyon SS-25 gas storage well blowout.

Sincerely,

Todd Shuman, Camarillo, WUMU 805.987.8203

Appendix: Methane Fee Variants

A: "All those legally responsible for the generation of more than 40 pounds of uncaptured, unburnt methane emissions per year shall be required to pay an annual fee on each ton of uncaptured, unburnt methane emission for which they are responsible. The fee shall be 100 percent of the baseline value of \$4700 of damages per ton of methane (in 2007 dollars) that is presented in The social cost of atmospheric release, Drew T. Shindell, Climatic Change (2015) 130:313-326, DOI 10.1007/s10584-015-1343-0, page 319, Table 2, Median total; declining rate."

This approach would result in a methane price per ton paid by those responsible for methane emission of approximately 4700 dollars per ton, in 2007 dollars (or 5372 dollars, in 2015 dollars). (See [http://www.usinflationcalculator.com/.](http://www.usinflationcalculator.com/))

B: "All those legally responsible for the generation of more than 40 pounds of uncaptured, unburnt methane emissions per year shall be required to pay an annual fee on each ton of uncaptured, unburnt methane emission for which they are responsible. The fee shall be based upon a methane-into-CO2-equivalency conversion algorithm/calculation that incorporates the most recent scientifically-defensible 10-year interval methane GWP constant (at best) or 20-year interval methane GWP constant (at worst). The methane GWP constant used for such calculations should also incorporate climate-carbon feedbacks."

This approach would result in a current methane price per ton of approximately 1120 dollars per ton. (Current price of CO2e [\$13/ton] X 86 [20-yr methane GWP, IPCC AR5th]. See [http://calcarbodash.org/.](http://calcarbodash.org/))

(Note: methane traps heat in the atmosphere 86 times as intensely as carbon dioxide on a pound-for-pound basis, over a twenty year period.)

I recommend additional measures that require SoCalGas/Sempra to finance reductions in methane emissions from other sources, including pneumatic devices, pumps, and compressors used within the natural gas industry itself.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 14:56:29

No Duplicates.

**Comment 10 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Joyce  
Last Name: Dillard  
Email Address: dillardjoyce@yahoo.com  
Affiliation:

Subject: Comments ARB Aliso Canyon Climate Impacts Mitigation Program due 3.3.2016  
Comment:

Consultation should include the water agencies and water boards, regional and state, that govern pollutants. Permitting includes a mitigation process. When a source point is known, that mitigation liability should be identified with Responsible Parties.

Under the Los Angeles Regional Water Quality Control Board MS4 Permit, Enhanced Watershed Management Plans compliance estimates are extremely expensive. This project is within the Upper Los Angeles River Watershed Management Group. You may want to review these plans at:

[http://www.waterboards.ca.gov/losangeles/water\\_issues/programs/stormwater/municipal/watershed\\_management/los\\_angeles/upper\\_losangeles/index.shtml](http://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/watershed_management/los_angeles/upper_losangeles/index.shtml)

The permit can be found at:

[http://www.waterboards.ca.gov/losangeles/water\\_issues/programs/stormwater/municipal/index.shtml#los\\_angeles](http://www.waterboards.ca.gov/losangeles/water_issues/programs/stormwater/municipal/index.shtml#los_angeles)

Any Drinking Water storage facilities should be addressed with the Water Suppliers.

Use of Rainwater is affected and should be taken into consideration. Pollutants may not appear immediately but through washing down.

Geology and soil conditions are underplayed and should gain a more prominent role for compliance. Rock formation conditions are not factors known in injections. There is ongoing research in the arena of fracking. If soil and/or rock conditions release contaminants over a period of time, that factor should be taken into consideration in the mitigation process.

Joyce Dillard  
P.O. Box 31377  
Los Angeles, CA 90031

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 16:25:10

No Duplicates.

**Comment 11 for Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) - 1st Workshop.**

First Name: Peter

Last Name: Mach

Email Address: pmach@coderedd.org

Affiliation: Code REDD

Subject: Inclusion of Verified Emission Reductions

Comment:

As part of the Aliso Canyon Climate Impacts Mitigation Program, CARB should include Verified Emission Reductions (VERs). As the preliminary measurements suggest that a total of 94,500 tons of methane was released from the SoCalGas leak, to fully mitigate the emissions from the leak, reductions will need to take place outside of California. Utilizing VERs will allow full mitigation to be achieved in an effective, measured way. Forests globally play a vital role in mitigating the effects of climate change, benefit California residents and take into account the effects the Aliso Canyon leak has had on the planet.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2016-03-03 15:59:18

No Duplicates.



**There are no comments posted to Preparation of a Climate Impacts Mitigation Program in connection with the Aliso Canyon Methane Leak (aliso-canyon-mp-ws) that were presented during the Workshop at this time.**