

**From:** [Jason Meggs](#)  
**To:** [ARB Clerk of the Board](#)  
**Subject:** Re: Current agenda?  
**Date:** Friday, February 26, 2021 12:24:45 PM  
**Attachments:** [image001.png](#)

---

**CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Thank you,  
Two things -

1) Please remind the court reporter to use a gender neutral title for me (Mx not Mr for example).

2) Can you fill in the other parts of the public comment?

It would have also had my 2-minute speech pasted in and my affiliation if I had been able to submit it (I did try numerous times in various ways):

**Affiliation:**

CARB Accountability Veteran

**Speech (pasted in the text portion):**

**THE CASE FOR CARB TO INVEST RAPIDLY IN ELECTRIC CARGO BICYCLES (CARB-go-bikes)**

*And other lightweight electric vehicles*

Good evening and welcome, this is Jason Meggs, a CARB climate policy veteran with some GREAT news.

What if we could have Zero Emission Vehicles NOW, instead of NEVER?

Electric bicycles (eBikes) and other lightweight electric vehicles (LEVs) including electric cargo bikes, can substitute excellently for light, medium and even some heavy duty vehicles, for a surprisingly large share of everyday California trips. And they do so with a tiny fraction of carbon, resource and energy use, allowing rapid increase with the existing electric grid, unlike electric cars.

Electric bicycles are often faster than a car both for travel time and parking. Even better, eBikes **increase equity** across ages, abilities, and income levels. They provide accessible, affordable transport to millions of people who face challenges today due to lack of public transport, severely exacerbated by the pandemic.

However, bikes need a boost. As we near one billion dollars spent on other ZEVs, CARB has been surprisingly slow to invest in eBikes.

AB 32 mandated we achieve “**maximum technologically feasible and cost-effective greenhouse gas emissions reductions**”.

Bicycles satisfy both. There is no more energy-efficient land vehicle. And to say they are cost-effective is an incredible understatement. For the rebate we’ve offered to lower-income families in disadvantaged communities to purchase just a single electric car, we could outfit the entire family with debt-free travel freedom, ongoing support, making their communities much healthier and more livable in the process.

Picture a California where bicycling is a happy norm far and wide. We must make this happen.

Not only are bicycles inexpensive to provide, but their benefits to public health and their boost to our local and state economies, are remarkable and very well studied.

What better way to begin than immediately, and wholeheartedly, with this year’s Program Priorities?

---

On Thu, Feb 25, 2021 at 7:05 PM ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)> wrote:

Thank you. I apologize for the technical difficulties you encountered. Your comment is now posted and is viewable [at this page](#).

Thank you.

---

**From:** Jason Meggs <[jasonmeggs@gmail.com](mailto:jasonmeggs@gmail.com)>

**Sent:** Thursday, February 25, 2021 1:01 PM

**To:** ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)>

**Subject:** Re: Current agenda?

**CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

This was for the 2021 Program Priorities.  
I am grateful you can fix the problem.

I tried well before the item started and the form was available.

<a href="#">Report to the Board</a> on the California Air Resources Board Program Priorities for 2021	<a href="#">programpriorities21</a>
---	-------------------------------------

On Thu, Feb 25, 2021 at 6:00 PM ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)> wrote:

Thank you. To confirm, is this for the open comment docket or the AB617 docket?

Thank you.

---

**From:** Jason Meggs <[jasonmeggs@gmail.com](mailto:jasonmeggs@gmail.com)>  
**Sent:** Thursday, February 25, 2021 11:56 AM  
**To:** ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)>  
**Subject:** Re: Current agenda?

**CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

Please replace the text and attached file with these changes. Was missing concluding sentence.

## THE CASE FOR CARB TO INVEST RAPIDLY IN ELECTRIC CARGO BICYCLES (CARB-go-bikes) And other lightweight electric vehicles

This is Jason Meggs, I worked on climate policy here at CARB for the better half of a decade.

We all know CARB has been focused on reigning in the internal combustion engine for many years, so much so we can seem to have trouble seeing beyond car-as-king to more elegant, expedient, environmental, economic and equitable solutions.

Good news: electric bicycles (eBikes) and other lightweight electric vehicles (LEVs) can substitute very well for larger motor vehicles, performing similarly to cars, trucks and vans for a large share of California trips. And they do so with a tiny fraction of the energy, allowing rapid increase with the existing electric grid, unlike electric cars.

Of course we all know that even with electric assist, most cyclists are not going to go out for a 60-mile errand, but they will readily go for a 5 or even 10-mile errand, many longer, particularly in an urban environment where a bicycle is often faster than a car for both travel time and finding parking.

Even better, eBikes increase equity across ages, abilities and income levels. They provide accessible, affordable transport to millions of people who face challenges today because of lack of public transport, severely exacerbated now by the pandemic.

Ebikes provide all this at a small fraction of the cost and a tiny fraction of the overall environmental and public health impact as ZEV cars, vans and trucks.

This is extremely important as we face the vexing problem that CARB admittedly cannot meet its ZEV targets with larger vehicles alone, even before we face the reality that petroleum and rare earth elements essential for electric vehicle production will be in dramatically short supply.

We've had a duty to invest in a large increase in bicycling for many years. AB 32

mandated we “adopt regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions”, extended by SB 32 to achieve at least 40 percent more, and we are required to shoot far beyond that minimum greenhouse gas reduction requirement.

Bicycles are not only technologically feasible, they offer maximum greenhouse gas reductions (see reference below). There is no more energy-efficient land vehicle. And to say they are cost-effective is an incredible understatement. For some of the rebates we’ve offered to lower-income families in disadvantaged communities to purchase a single electric car, we could outfit the entire family with freedom, ongoing support, debt-free, making their communities that much healthier and more livable in the process.

Picture a California where bicycling is a happy norm far and wide.

Not only are bicycles inexpensive to provide, but their cost benefits to the economy, including public health benefits and their boost to local retail, are remarkable and very well studied. What better way to being than immediately with this year’s Program Priorities?

---

Reference:

See my discussion document (also attached to item) prepared at CARB for the Low-Carbon Fuel Standard, which found conservatively that electric bicycles are approximately 25-700X more carbon-efficient to perform the same job as cars, vans and trucks. <https://meggsreport.files.wordpress.com/2021/01/lcfs-eer-for-cargo-bicycles-june2018.pdf>

On Thu, Feb 25, 2021 at 2:48 PM Jason Meggs <[jasonmeggs@gmail.com](mailto:jasonmeggs@gmail.com)> wrote:

Hello,

I ran into a bug submitting my comment for the next item (see image of error).

Please see that this is submitted in the record (including the attachment):

THE CASE FOR CARB TO INVEST RAPIDLY IN ELECTRIC CARGO BICYCLES  
(CARB-go-bikes)  
And other lightweight electric vehicles

This is Jason Meggs, I worked on climate policy here at CARB for the better half of a decade.

We all know CARB has been focused on reigning in the internal combustion engine for

many years, so much so we can seem to have trouble seeing beyond car-as-king to more elegant, expedient, environmental, economic and equitable solutions.

Good news: electric bicycles (eBikes) and other lightweight electric vehicles (LEVs) can substitute very well for larger motor vehicles, performing similarly to cars, trucks and vans for a large share of California trips. And they do so with a tiny fraction of the energy, allowing rapid increase with the existing electric grid, unlike electric cars.

Of course we all know that even with electric assist, most cyclists are not going to go out for a 60-mile errand, but they will readily go for a 5 or even 10-mile errand, many longer, particularly in an urban environment where a bicycle is often faster than a car for both travel time and finding parking.

Even better, eBikes increase equity across ages, abilities and income levels. They provide accessible, affordable transport to millions of people who face challenges today because of lack of public transport, severely exacerbated now by the pandemic.

Ebikes provide all this at a small fraction of the cost and a tiny fraction of the overall environmental and public health impact as ZEV cars, vans and trucks.

This is extremely important as we face the vexing problem that CARB admittedly cannot meet its ZEV targets with larger vehicles alone, even before we face the reality that petroleum and rare earth elements essential for electric vehicle production will be in dramatically short supply.

We've had a duty to invest in a large increase in bicycling for many years. AB 32 mandated we "adopt regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emissions reductions", extended by SB 32 to achieve at least 40 percent more, and we are required to shoot far beyond that minimum greenhouse gas reduction requirement.

Bicycles are not only technologically feasible, they offer maximum greenhouse gas reductions (see reference below). There is no more energy-efficient land vehicle. And to say they are cost-effective is an incredible understatement. For some of the rebates we've offered to lower-income families in disadvantaged communities to purchase a single electric car, we could outfit the entire family with freedom, ongoing support, debt-free, making their communities that much healthier and more livable in the process.

Picture a California where bicycling is a happy norm far and wide.

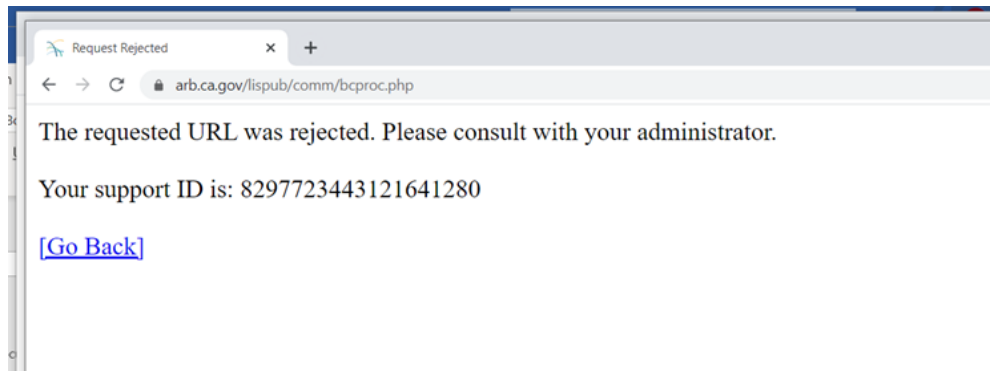
Not only are bicycles inexpensive to provide, but their cost benefits to the economy, including public health benefits and their boost to local retail, are remarkable and very well studied.

---

Reference:

See my discussion document (also attached to item) prepared at CARB for the Low-Carbon Fuel Standard, which found conservatively that electric bicycles are approximately 25-700X more carbon-efficient to perform the same job as cars, vans and trucks. <https://meggsreport.files.wordpress.com/2021/01/lcfs-eer-for-cargo-bicycles->

[june2018.pdf](#)



On Thu, Feb 25, 2021 at 5:13 PM ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)> wrote:

Hi Jason,

We will take a break before the AB617 Item, item 21-1-8. Any other break will be at the discretion of the chair.

Thank you.

---

**From:** Jason Meggs <[jasonmeggs@gmail.com](mailto:jasonmeggs@gmail.com)>

**Sent:** Thursday, February 25, 2021 10:11 AM

**To:** ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)>

**Subject:** Re: Current agenda?

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Has there been a lunch break?

Do you expect one to occur after this item?

On Thu, Feb 25, 2021 at 3:53 PM ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)> wrote:

Hello,

We are currently on item 21-1-6 (as of 12:52p.m.). The first five items on the agenda have closed. The agenda has not been updated.

Thank you.

---

**From:** Jason Meggs <[jasonmeggs@gmail.com](mailto:jasonmeggs@gmail.com)>

**Sent:** Thursday, February 25, 2021 9:53 AM

**To:** ARB Clerk of the Board <[cotb@arb.ca.gov](mailto:cotb@arb.ca.gov)>

**Subject:** Current agenda?

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello,

What items are closed and is there an updated agenda?