

# AHSC Round 7 Benefits Calculator Tool Training Webinar

January 24, 2023



# Please note...

- Webinar will be recorded
- Slides and recording will be available on [CARB's quantification resources page](#)
- Live Q+A at the end of webinar but participants may use the Q+A button at the bottom of the Zoom window to ask questions throughout the webinar.



# Agenda

- Webinar Goals and Purpose of Quantification
- Benefits Calculator Tool Approach and Resources
- Round 7 Major Updates
- Benefits Calculator Tool Demo
- Q+A
  - [GGRFProgram@arb.ca.gov](mailto:GGRFProgram@arb.ca.gov)

# Webinar Goal

Help applicants feel more confident filling out the AHSC Benefits Calculator Tool



# Purpose of Quantification

- Estimate and communicate climate and other benefits such as reductions in vehicle miles travelled, greenhouse gas emissions, and criteria pollutants.
- Evaluate program performance
- Facilitate comparison of projects in competitive scoring

# Quantification Approach

- Apply at the project level
- Provide uniform methods to be applied statewide and be accessible by all applicants
- Use existing and proven tools and methods, where available and appropriate
- Use project-level data, where available and appropriate
- Result in GHG emission reduction estimates that are conservative and supported by empirical literature

# Quantification Approach Continued

- Benefits Calculator Tool translates the Quantification Methodology (QM) into an Excel-based tool
- Share draft materials for public comment
- AHSC quantification guidance can be found on [CARB's quantification resources page](#) and includes:
  - Quantification Methodology (PDF)
  - Benefits Calculator Tool (Excel) and accompanying User Guide (PDF)

# AHSC Quantification Resources

**CATEGORIES**

**Programs** California Climate Investments

**Type** Information

**CONTACT**

California Climate Investments  
**Email** [ggrfprogram@arb.ca.gov](mailto:ggrfprogram@arb.ca.gov)  
**Phone** (916) 445-0266

Administering agencies must use the Funding Guidelines with the resources provided on this page to develop effective programs and demonstrate compliance with program requirements.<sup>[1]</sup> Resources on this page include Quantification Methodologies and Calculator Tools for estimating greenhouse gas (GHG) emission reductions and co-benefits; Benefit Criteria Tables for determining benefits to priority populations; and Reporting Templates for reporting outcomes. Select a project type and use the resources from that row as needed.<sup>[2]</sup>

An asterisk (\*) and bold text indicates a document is open for comment. To comment or send questions, contact us at [GGRFProgram@arb.ca.gov](mailto:GGRFProgram@arb.ca.gov).

*Note: These quantification methods have been developed specifically for the Greenhouse Gas Reduction Fund programs and are not intended for use in other programs.*

To request a copy of previous versions of the Quantification Methodologies and Calculator Tools, contact us at [GGRFProgram@arb.ca.gov](mailto:GGRFProgram@arb.ca.gov).

**Transportation and Sustainable Communities**

Agency	Project Type	Quantification Methodology (QM) and Calculator Tool	Priority Population Benefit Criteria Table	Reporting Template
California Air Resources Board	Advanced Technology Demonstration and Pilot Projects	On-Road Advanced Technology Demonstration Project QM Off-Road Advanced Technology Demonstration Project QM	Clean Transportation and Equipment Sustainable Transportation	Heavy-Duty Pilot

California Air Resources Board

## Quantification Methodology

Strategic Growth Council  
 Affordable Housing and Sustainable Communities Program


California Climate Investments

December 15, 2022





# AHSC Quantification Resources



California Air Resources Board  
Benefits Calculator Tool for the  
Affordable Housing and Sustainable Communities Program  
California Climate Investments

**ABOUT**

For the SGC AHSC Program, CARB staff developed this AHSC Benefits Calculator Tool to estimate the net greenhouse gas emissions for a proposed project type. This Benefits Calculator Tool and supporting resources are available at:  
[www.arb.ca.gov/ci-resources](http://www.arb.ca.gov/ci-resources)

This Benefits Calculator Tool estimates net GHG benefit and air pollutant emission co-benefits using methods described in the CARB Methodology. Other co-benefits estimated in this and other benefits calculator tools use methods described in CARB's Greenhouse Gas Benefit Assessment Methodologies are available at:  
[www.arb.ca.gov/ci-cobenefits](http://www.arb.ca.gov/ci-cobenefits)

A step-by-step **user guide**, including a **project example**, is available at:  
[https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc\\_ahsc\\_userguide\\_121522.pdf](https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc_ahsc_userguide_121522.pdf)


**More Information**  
Questions on this Benefits Calculator Tool should be sent to:

**Read Me** | Project Info | Affordable Housing Inputs | Active Transportation Inputs | Transit Inputs

California Air Resources Board

**User Guide**

Affordable Housing and Sustainable Communities Program  
California Climate Investments  
Strategic Growth Council

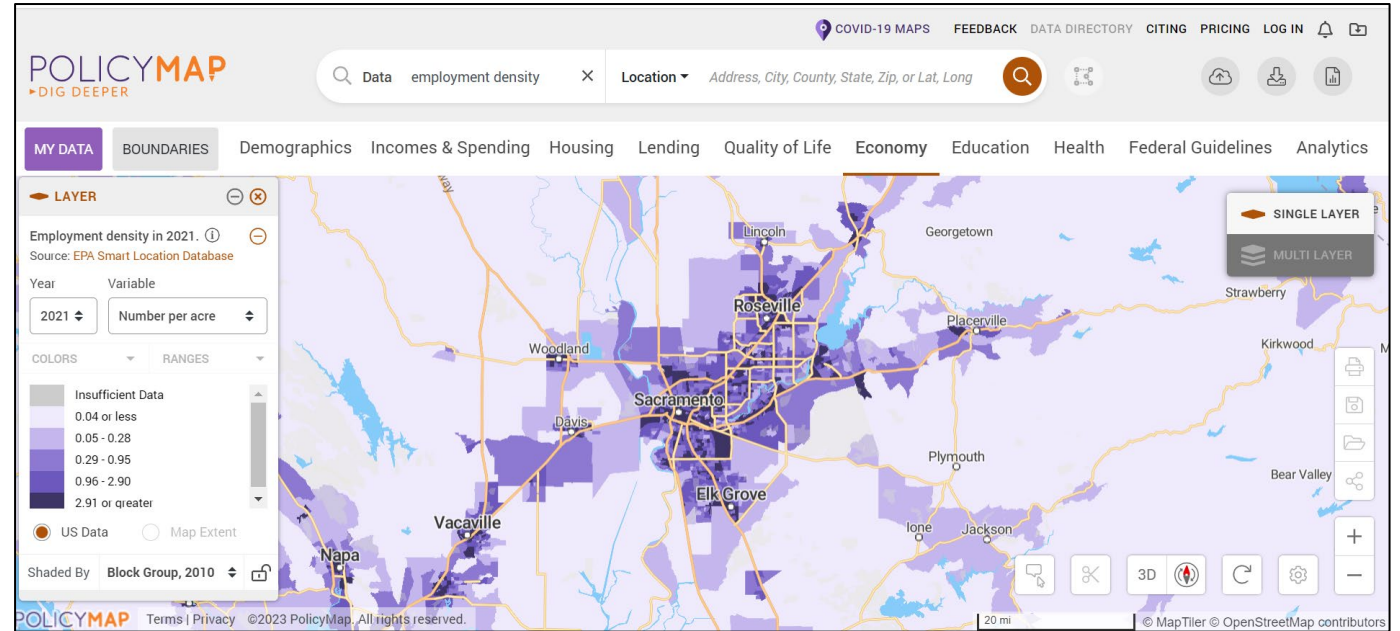



December 15, 2022



# Round 7 Major Updates

- Data updates
- Expanded the calculation for location accessibility
- Quantify emission reductions of Shared Mobility Projects





**California Air Resources Board**

**Benefits Calculator Tool for the**  
**Affordable Housing and Sustainable Communities Program**

**California Climate Investments**

**Note to Applicants**  
A step-by-step user guide, including a project example, is available at:  
[https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc\\_ahsc\\_userguide\\_121522.pdf](https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc_ahsc_userguide_121522.pdf)

**Shared Mobility Inputs**  
If you wish to estimate the benefits of new or expanded service or improvements to increase ridership for electric carshare, scooter-share, carpool, and innovative transit, use the Clean Mobility Options (CMO) Benefits Calculator to obtain estimates and enter the Estimated Benefits from Total GGRF Funds in the CMO "Output Summary" tab into the table below. Please also submit the CMO Benefits Calculator.


VMT and Emission Reductions						
Passenger VMT Reductions	GHG Emission Reductions	Local ROG Emissions	Local NO <sub>x</sub> Emissions	Local PM <sub>10</sub> Emissions	Local Diesel PM <sub>2.5</sub> Emissions	Local Fuel Use
...	Active Transportation Inputs	Transit Inputs	Shared Mobility Inputs	Solar PV Inputs	GHG Sui ...	



# Quantification Tips

- Have the QM and User Guide handy.
- Review inputs for all quantifiable components to determine which components you want to/can quantify.
- Documentation is required for all user inputs. Specific requirements for each Benefits Calculator Tool tab are listed in the AHSC application workbook.
- Ensure inputs in Benefits Calculator Tool match the inputs in documentation.

# AHSC Benefits Calculator Tool Demo



California Air Resources Board

Benefits Calculator Tool for the  
Affordable Housing and Sustainable Communities Program

California Climate Investments

**Note to Applicants**  
 A step-by-step **user guide**, including a **project example**, is available at:  
[https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc\\_ahsc\\_userguide\\_121522.pdf](https://www.arb.ca.gov/sites/default/files/auction-proceeds/sgc_ahsc_userguide_121522.pdf)

**Third-party Tools**  
 This Benefits Calculator Tool requires data inputs obtained from the following third-party tool:

**National Renewable Energy Laboratory PVWatts® Calculator**  
 Required for projects including grid-connected solar photovoltaic systems  
 Available at: [pvwatts.nrel.gov](http://pvwatts.nrel.gov)

Information for using this tool is available in the user guide (see above).  
 AHSC applicants must enter basic project information in the table below before proceeding to the inputs tabs.

Project Name	
Project Identification Number	
County	
Project Area Type	
Contact Name	
Contact Phone Number	
Contact Email	
Date Calculator Completed	
AHSC GGRF Funds Requested (\$)	
Other GGRF Funds (\$)	
Other GGRF Funds Sources	
Total GGRF Funds (\$)	

**Key for Color-coded Fields**

Read Me
Project Info
Affordable Housing Inputs
Active Transportation Inputs
Transit Inputs
Shared Mobility Inputs
Solar PV Inputs
GI ...



# Next Steps

- Link to webinar slides and recording will be available on [CARB's quantification resources page](#)
- AHSC Calculator Office Hours:
  - February 8th, 11am-12pm, Join through this [Teams link](#)
  - February 21<sup>st</sup>, 1-2pm, Join through this [Teams link](#)
  - March 7<sup>th</sup>, 3-4pm, Join through this [Teams link](#)

# Q+A

- Additional QM + Benefits Calculator Tool questions can be sent to [GGRFProgram@arb.ca.gov](mailto:GGRFProgram@arb.ca.gov) or through the [AHSC Question and Answer Form](#)
- All questions and answers from today's webinar will be made publicly available on the AHSC Question and Answer Document (accessible via the AHSC Question and Answer Form)