Woodsmoke Reduction Pilot Program

Program Guidelines

FISCAL YEAR 2016-2017 APPROPRIATION

September 29, 2017
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Appendix A: Reporting Requirements
EXECUTIVE SUMMARY

The Woodsmoke Reduction Program is part of California Climate Investments, a statewide program that uses billions of cap-and-trade dollars to work reducing greenhouse gas emissions, strengthening the economy and improving public health and the environment—particularly in disadvantaged communities. The cap-and-trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investment projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling and much more. Statute establishes investment minimums for disadvantaged and low-income communities and low-income households. For more information, visit California Climate Investments.¹

The California Air Resources Board (CARB) developed the Program Guidelines for the implementation of the Woodsmoke Reduction Pilot Program (Program). Assembly Bill 1613² committed $5,000,000 in funding for replacing uncertified, inefficient wood burning devices with cleaner-burning and more efficient devices. The Program is designed to help households replace an uncertified wood stove, wood insert, or fireplace used as a primary source of heat with a cleaner burning and more efficient device. The replacement devices emit less greenhouse gas (GHG) and other air pollution; they also are less likely to start fires than old stoves that may have been improperly installed. The Program will offer incentives towards the purchase and installation of the qualifying device. The Program, implemented by CARB, will be administered by the California Air Pollution Control Officers Association (CAPCOA) in coordination with local air pollution control districts or air quality management districts (Districts). CAPCOA will determine how much funding will be available to each District participating in the Program. California residents using uncertified wood stoves, wood inserts, or fireplaces as a primary heat source in Districts awarded GGRF funds are eligible for this Program. The incentive amount will vary depending on the location of the residence and the household income, with some households qualifying for full replacement cost. The Program will include an outreach and educational component to ensure that households make informed decisions about how to burn and what to burn in order to maximize the efficiency of the device and minimize pollution. This Program will further the goals of AB 32,³ reduce GHG emissions, improve air quality, and protect the health, safety, and well-being of California residents.

These Program Guidelines apply to the Fiscal Year (FY) 2016-17 GGRF appropriations and will be updated in future years if the Program is reauthorized with additional funds. The replacement of existing wood burning devices with cleaner technologies

¹ https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm
² AB 1613, (Committee on Budget, Chapter 370, Budget Act of 2016), Item 3900-101-3228, Section 10, Provision 4
provides an important opportunity to secure the co-benefit of reduced near-source exposure to woodsmoke. Therefore, contingent on reauthorization and funds, future guidelines will continue to maximize GHG reductions and also prioritize particulate pollution reductions, while still addressing the need to provide applicants within low income communities or households funding for cleaner home heating options. This includes considering opportunities to include applicants from urban areas that exceed particulate matter air quality standards where wood burning may not be a primary heat source. Future guidelines can also consider administrative streamlining based on the experience gained through implementation during this first year.

I. PROGRAM GOALS AND OBJECTIVES

The Program furthers the goals of AB 32 and reduces GHG emissions by offering incentives toward the replacement of existing uncertified residential wood burning devices used for space heating with certified, high-efficiency devices. The Program will be funded through the appropriation of $5,000,000 in the fiscal year (FY) 2016-2017 from the Greenhouse Gas Reduction Fund (GGRF). The Program, implemented by CARB, will be administered by CAPCOA in coordination with Districts. CAPCOA will determine how much funding will be available to each District participating in the Program. To be eligible for the Program, a homeowner or renter, for the purpose of this document referred to as an Applicant, must currently use an uncertified wood stove, wood insert, or fireplace as a primary heat source. The incentive amount will depend on where the property is located and Applicant’s household income, with some households qualifying for full replacement cost. The Program will maximize benefits to households in disadvantaged or low-income communities and low-income households and has as a goal to distribute 75 percent of total funding to these populations. Applicants residing in a census tract identified as a disadvantaged\(^4\) or low-income\(^5\) community can qualify for higher incentives. Applicants residing outside of a census tract identified as a disadvantaged or low-income community who can demonstrate low-income eligibility based on household income can also qualify for higher incentives.\(^6\) All other Applicants are eligible for lower incentives. Benefits to disadvantaged and low-income communities and low-income households will be evaluated using criteria in Table 2.A-12

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\(^4\) Disadvantaged community census tracts are those identified by CalEPA using CalEnviroScreen 3.0. Maps of disadvantaged communities are available at http://www.calepa.ca.gov/EnvJustice/GHGInvest/

\(^5\) For the purpose of this program, low-income communities are census tracts with a median household income at or below 80 percent of the statewide median household income or with a median household income at or below the threshold designated as low-income by Department of Housing and Community Development’s State Income Limits adopted pursuant to the Health and Safety Code Section 50093. A final map of low-income communities is under development and is currently available in draft form at: https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/upcomingevents.htm

\(^6\) For the purposes of this program, low-income households are those with household incomes at or below 80 percent of the statewide median household income or with household incomes at or below the threshold designated as low-income by the Department of Housing and Community Development's list of state income limits adopted pursuant to Section 50093. Districts will be responsible for verifying household income eligibility.
of CARB’s 2017 draft Funding Guidelines. Projects are expected to meaningfully address an important community need by reducing exposure to local environmental contaminants, such as toxic air contaminants and criteria air pollutants.

The existing uncertified wood stove, wood insert, or fireplace must be replaced with a certified wood stove or insert, a natural gas heating device, propane heating device, or an electric heating device. The Program will achieve GHG emission reductions from the increased efficiency and reduced emissions of the newly installed devices. Older, uncertified wood stoves are often inefficient, high-polluting, and may pose a fire risk. United States Environmental Protection Agency (U.S. EPA) certified wood stoves burn more cleanly and efficiently, thereby reducing greenhouse gas and particulate matter emissions. Replacing an uncertified wood stove, wood insert, or fireplace with a certified wood stove, or a natural gas, propane, or electric heating device, will reduce the overall GHG emissions. Co-benefits include significant and long-term reductions in emissions of criteria pollutants and toxic air contaminants, along with reduced fire risk.

The replacement device must be installed by a professional, appropriately licensed stove installer (Installer) and meet local fire and building codes. A professionally installed device will improve the health, safety, and comfort of all residents. To ensure reductions in emissions are permanent, any stove removed through this Program must be rendered permanently inoperable and recycled, if recycling is available in the area. The Program will include outreach and educational components to both inform residents about the benefits of switching to cleaner burning home heating devices and train them on the proper operation and maintenance to maximize the device efficiency and minimize pollutant emissions.

The Program implemented in each participating District will be considered a project (Project). The Project will comprise of all of the change-outs, for which Program funds are being used, within the District’s jurisdiction along with the administrative work required to implement them.

II. STOVE ELIGIBILITY AND PERFORMANCE STANDARDS

A. Existing Wood Stove

To be eligible for the Program, Applicant must rely on an existing stove or insert that is uncertified, operational, and used as a primary source of heat in the residence. An uncertified stove or insert is one that does not comply with the performance and emission standards as defined in Title 40 Code of Federal Regulations, Part 60, Subpart AAA, February 28, 1988, or any subsequent revisions. In order to determine if the existing stove is uncertified, Applicant may do the following:

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7 CARB’s 2017 draft Funding Guidelines available at: https://www.arb.ca.gov/cc/capandtrade/auctionproceeds/fundingguidelines.htm
• Determine when the stove was installed. Stoves installed prior to 1988 do not comply with the particulate emission standards and therefore qualify for this Program.

• Check the stove model against the U.S. EPA current\textsuperscript{8} and historical\textsuperscript{9} list of certified wood heaters. If the stove’s manufacturer and model is not on the current and historical lists, the stove is considered uncertified.

• Check the back of the stove for a certification label. Stoves which do not have any label describing particulate matter emission standards qualify for this Program. Wood stoves certified by the U.S. EPA to comply with the particulate emission standards are not eligible for replacement through this Program. These stoves will have a label, similar to that pictured in Figure 1, permanently affixed to them stating that the stove is certified to comply with 1988, 1990, or 2015 standard.

Applicants will determine the eligibility of their current wood stove. Applications will be reviewed by the District to determine if preliminary qualification requirements have been met. The stove’s eligibility will be verified by the District or an Installer during an in-home estimate.

Applicants may also qualify for this Program if they can document using a fireplace as a primary source of heat. Section III, Eligible Home Heating Replacements, includes more information on how to qualify for this type of change-out.

Only operational devices, currently installed in a residence, and used as a primary source of heat qualify for this Program. Applicants who remove the device prior to an in-home estimate will be disqualified.

\textsuperscript{8} Current list of U.S. EPA certified wood heaters: https://www.epa.gov/compliance/list-epa-certified-wood-stoves

\textsuperscript{9} Historical list of U.S. EPA certified wood heaters: https://www.epa.gov/compliance/historical-list-epa-certified-wood-heaters
B. Replacement Device

The uncertified wood stove, wood insert, or fireplace must be replaced by a cleaner-burning and more efficient device. Applicants may select one of the following replacement options:

- U.S. EPA certified wood stove or wood insert with emission rates not to exceed 4.5 grams/hour and 2.5 grams/hour for non-catalytic and catalytic stoves, respectively;¹⁰
- Natural gas home heating device;
- Propane home heating device; or
- Electric home heating device.

The replacement device must be installed by a professional, appropriately licensed Installer participating in this Program. A list of participating Installers will be established by CAPCOA or each participating District. Self-installation of heating devices will not be allowed under this Program. Any building permits or other required approvals shall be obtained per local or State ordinances and shall be the responsibility of the Installer or the Applicant. Districts will be responsible for verifying that each change-out is

¹⁰ These emissions rates represent the toughest emission standards set by the federal or state government. CARB encourages CAPCOA and Districts to consider only allowing replacement stoves that meet even stricter emission standards than the ones mentioned above.
permitted and inspected in accordance with State or local ordinances before payment is issued to the Installer or the Applicant.

III. ELIGIBLE HOME HEATING REPLACEMENTS

Applicants interested in upgrading their uncertified wood stove or wood insert to a U.S. EPA certified wood stove or other cleaner, more efficient heating device qualify for this Program if they meet all of the requirements listed below:

- Currently use wood as a primary fuel;
- Use an uncertified wood stove or wood insert, currently operational, as a primary source of heat;
- Select a replacement device which meets stove eligibility in Section II;
- Plan to have the replacement device professionally installed by a participating Installer;
- Agree to receive training on proper wood storage and wood burning practices (if applicable) and device operation and maintenance; and
- Surrender their old wood stove or insert to the Installer who will render it permanently inoperable and recycle it, if recycling is available in the area.

This Program provides incentives for one replacement per household. The replacement device must be a primary source of heat in the house. The Program is available to both homeowners and renters. In the case of rental properties, formal approval from the property owner will be required as part of the approval process. Retroactive rebates are not available under this program, so Applicants who remove the old device or purchase a new replacement device prior to being approved for this Program will be disqualified. The old, uncertified device must be rendered permanently inoperable and recycled, if recycling is available in the area, before payment can be issued to the Installer.

Burning wood in a fireplace is very inefficient for home heating purposes; fireplaces are therefore not typically used as a primary source of heat. In rare situations, when an Applicant uses a fireplace as a primary source of heat, the Applicant may qualify for the Program. If the existing fireplace is structurally sound, the Program may offer an incentive to be used towards purchase and installation of a fireplace insert utilizing wood, natural gas, propane, or electricity. However, if the fireplace is lacking structural integrity, the incentive could be used towards the purchase of a free-standing home heating device. In this case, the fireplace and chimney must be rendered permanently inoperable to prevent use of the fireplace. Verification of inoperability would be the responsibility of the District.

Installers interested in participating in this Program must agree to the Program’s terms and conditions by signing an agreement with CAPCOA or the District. Each District will establish their own requirements, but at a minimum, in order to participate in the Program, the Installer will be required to agree to the following:
• Abide by the terms and conditions of the Program;
• Unless verified by the District, verify that the old device and the replacement device qualify for the Program;
• Conduct professional installation of the qualified device in compliance with all applicable State, county, or city codes/ordinances;
• Provide residents with training on device operation and maintenance and, if applicable, for wood burning devices, best practices in wood storage and wood burning; and
• Render the old device inoperable and recycle it, if recycling is available in the area.

Only Installers who have a signed agreement with CAPCOA or the District will be eligible to participate in the Program. Installers will be responsible for ensuring that all installations are done in accordance with any applicable State, county, or city codes/ordinances, including obtaining any applicable permits and having the installation inspected. Agreements must include the components required by this document and should include key milestone dates and participant requirements for maintaining eligibility prior to Project completion.

IV. ELIGIBLE COST

Eligible project costs include the cost of the new device including sales tax, installation including any parts, materials, permits, or labor required for the safe and legal installation of the new device, and removal and disposal of the old stove or insert. The Installer will be required to provide a base estimate for the installation of a basic model that will be safe, clean-burning, and efficient. Upgrades above the base estimate will be paid by the Applicant. The incentive structure will be determined by CAPCOA or each individual District. Districts will pay the Installer (voucher model) or Applicant (rebate model) the approved incentive amount. Any additional balance due will be paid by the Applicant.

Applicants who remove the high-polluting device or purchase a new device prior to being approved for this Program will be disqualified from obtaining compensatory funds. Wood stoves or wood-burning inserts designed exclusively for aesthetic and decorative use are not eligible for this Program.

All eligible costs must be supported by appropriate documentation. Costs incurred outside of the performance period, indirect/overhead costs, and cost of food or beverages (e.g., served during outreach events) are not eligible for reimbursement. Indirect/overhead costs are expenses of doing business that are of a general nature and are incurred to benefit two or more functions within an organization. Examples of indirect costs include salaries and benefits of employees not directly assigned to work on the Program, functions such as personnel, business services, information technology, and salaries of supervisors. Examples of overhead costs include rent, utilities, and supplies.
The total cost of administering the Program (i.e., the total administrative costs incurred by both CAPCOA and Districts) cannot exceed $500,000, which is 10 percent of the total 2016-2017 appropriation.

V. ELIGIBILITY

Households using uncertified wood stoves, wood inserts, or fireplaces as a primary heat source are eligible for an incentive towards replacing their old, uncertified device with a cleaner, more efficient heating device. The incentive amount will be determined by each District in coordination with CAPCOA, but the general structure of incentives must adhere to the following rules:

- Low-income households and households located in disadvantaged or low-income communities will be eligible to replace their heating device for little or no cost. They will qualify for a higher incentive (Enhanced Incentive). CAPCOA, in coordination with the District, will determine the maximum allowable Enhanced Incentive level;
- All other households, regardless of their income, will qualify for a smaller incentive (Standard Incentive) to be applied towards the purchase and installation of the new device. CAPCOA, in coordination with the District, will determine the maximum allowable Standard Incentive level; and
- CAPCOA will implement the Program with the goal of directing 75 percent of the funds for Enhanced Incentives to help low-income households and households in disadvantaged and low-income communities replace their old wood stoves for little or no cost. This goal could be accomplished in a variety of ways and Districts are encouraged to explore different options to assist in meeting this Program-wide goal. Examples of two possible scenarios could include:
  - Conducting a District-wide solicitation during which all applications would be collected and reviewed and priority would be given to those Applicants qualifying for Enhanced Incentives.
  - Implementing the Project in two phases. During the first phase, only applications from low-income households and households in disadvantaged and low-income communities would be accepted. During the second phase, the Project would be open to all Applicants.

Every Applicant using an uncertified wood stove, wood insert, or fireplace as a primary source of heat for their home qualifies for a Standard Incentive without any need for income verification. To qualify for the higher Enhanced Incentive, the Applicant must reside in a disadvantaged or a low-income community or demonstrate a household income not exceeding a low-income threshold specified below. Income verification will not be required for Applicants residing in disadvantaged or low-income communities.
Applicants residing outside of disadvantaged and low-income communities wishing to be considered for Enhanced Incentives are required to demonstrate that their household income does not exceed one of the following thresholds:

1) 80 percent of the Statewide Median Household Income (MHI);\textsuperscript{11} or
2) County-specific HCD low-income limits.\textsuperscript{12}

Districts will be responsible for verifying household income eligibility. Districts can qualify an Applicant based on the higher allowable maximum income (80 percent MHI or HCD low-income limits). Under MHI, as of the publication of these guidelines, any household with income not exceeding $49,454 is considered low-income. The HCD low-income limits vary depending on the county and household size.\textsuperscript{13}

For purposes of the Woodsmoke Reduction Program, there are multiple methods to demonstrate household income eligibility. Applicants may demonstrate eligibility by presenting pay stubs or tax returns for each person living in the residence to District personnel for verification and, if qualifying using the HCD low-income limits, reporting the number of people in the household.

Eligibility may also be established through proof of participation in an existing federal or State low-income assistance program, several examples of which are listed below. In cases where an Applicant chooses to demonstrate eligibility through participation in an alternate low-income program, Districts will work with CARB staff to verify that the alternate program's income limits do not exceed Enhanced Incentive income limits for their area.

- U.S. Department of Agriculture Women, Infants and Children (WIC) Program;
- U.S. Department of Health and Human Services Low Income Energy Assistance Program (LIHEAP);
- California Alternate Rates for Energy (CARE) Program with a participating California utility company.

\textsuperscript{11} U.S. Census Bureau, American Community Survey 2015, 5-year Estimates (2011-2015) available at: https://www.census.gov/quickfacts/table/PST045215/06


\textsuperscript{13} Ibid.
VI. APPROVAL PROCESS

In order to participate in the Program, Applicants will be required to complete an application. Applicants must agree to provide information to the District and allow the District and/or Installer to verify that information. Applicants must agree to receive training on proper wood storage and wood burning practices (if applicable) and device operation and maintenance. The District will be responsible for verifying the following:

- Eligibility of the existing device - ensuring that the existing wood stove, wood insert, or fireplace is uncertified, operational, and used as a primary heat source in the house;
- Eligibility of the replacement stove – ensuring that the replacement stove is eligible for the Program as described in Section II; and
- If applying for the Enhanced Incentive, eligibility as a resident of a disadvantaged or low-income community or a low-income household.

The application will be reviewed to determine if the preliminary qualification requirements have been met. Figure 2 illustrates the approval process and helps determine Program eligibility. The District will notify the Applicant whether the application was approved for participation in the Program. Districts must inform Applicants that applications will be treated in accordance with Public Records Act requirements and that certain information, subject to those requirements, may be publicly disclosed.

Once approved, the Applicant will schedule an in-home estimate with a participating Installer. The Installer will verify the stove’s eligibility and present an estimate to the Applicant. The District will have the flexibility to run the Program as a voucher or a rebate model. If a Program follows a voucher model, qualified Applicants are issued vouchers that provide an instant discount of the cost of purchase, installation, and disposal of a qualifying device. If a Program follows a rebate model, qualified Applicants are issued rebates after they submit the required documents showing that they have purchased a qualifying device, had it installed by a participating Installer, and properly disposed of their old appliance. Districts must verify that the old device was deemed permanently inoperable and recycled, if recycling is available in the area, before issuing payment for the change-out. Districts choosing to follow a rebate model must ensure that low-income households and households in disadvantaged and low-income communities are able to participate. This may require offering vouchers in lieu of rebates or administering the Project with a combination of rebates and vouchers.
You qualify for an Enhanced Incentive. No income verification is required.

You may qualify for an Enhanced Incentive upon presenting evidence of participation in a low-income program.

No income verification required to qualify for a Standard Incentive

Qualify for an Enhanced Incentive

High income verification required to qualify for a Standard Incentive

Qualify for a Standard Incentive

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1. Please refer to explanation in Section I of these Guidelines on identifying disadvantaged or low-income communities.

2. In cases where an Applicant chooses to demonstrate eligibility through participation in an existing low-income program, Districts will work with CARB staff to verify that income limits do not exceed Program income limits for their area.
VII. GHG REDUCTIONS

Switching from an uncertified wood stove or a fireplace to a U.S. EPA certified wood stove reduces GHG emissions as certified stoves are cleaner burning and more energy efficient. Design features in newer wood stoves promote more complete combustion, reducing emissions of methane, a GHG pollutant.\textsuperscript{14} They also typically use a third less wood to produce the same amount of heat as an uncertified stove.\textsuperscript{15} A one-third reduction in wood burning will further reduce GHG emissions by approximately the same amount. Switching from an uncertified wood stove to a natural gas, propane, or electric heating device also reduces GHG emissions. In the absence of a mechanism to verify that the wood burned in an Applicant’s primary heating device is waste material harvested pursuant to an approved timber management plan prepared in accordance with the Z’berg-Nejedly Forest Practice Act of 1973 or other locally or nationally approved plan and harvested for the purpose of forest fire fuel reduction or forest stand improvement, biogenic CO\textsubscript{2} is included in the calculation of GHG benefits for these devices.

VIII. OUTREACH AND EDUCATION

CAPCOA and the Districts will be responsible for promoting the Program and helping households understand the benefits of changing from an uncertified wood stove to a cleaner home heating device. Since the Program-wide goal is to distribute 75 percent of total funding to residents of disadvantaged and low-income communities and low-income households, the outreach should focus on reaching this segment of the population.

The Program requires an educational component to ensure that the new home heating devices, particularly wood stoves, are properly operated and maintained to maximize energy efficiency and achieve the lowest possible emission rates. With proper burning techniques and properly seasoned wood, the amount of wood used could be significantly reduced. While a new wood stove typically pollutes less than an old one, user operation is important for achieving estimated reductions. CAPCOA will be required to ensure that each change-out is supplemented with a training component. This could be accomplished by having Installers train homeowners following the installation. Districts will be required to obtain verification of training.

\textsuperscript{14} Residential wood stove emissions are in AP 42, Fifth Edition, Volume I, Chapter 1, External Combustion Sources, Section 1.10, web link: \url{https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s10.pdf}

IX. CO-BENEFITS

In many communities throughout the State, uncertified wood stoves are a major source of air pollution. Replacing these highly polluting and inefficient stoves with certified wood stoves or non-wood home heating devices can significantly reduce emissions of fine particulate (PM2.5), black carbon, and toxic air contaminants. These emission reductions will vary depending on the type of the replacement device, with the natural gas, propane, or electric devices offering the greatest reductions. Certified wood stoves or inserts have significantly lower emissions compared to uncertified stoves. These emission reductions, however, could diminish due to improper operation or lack of proper maintenance. Reductions in black carbon, PM2.5, and toxic air contaminants will reduce the impacts of climate change and improve indoor and outdoor air quality and visibility. In some parts of the State, the PM2.5 co-benefit reductions could have a significant impact on a region’s ability to attain ambient air quality standards.

Reductions in PM2.5 pollution will have significant short- and long-term health benefits. Short-term exposures to PM2.5 can aggravate lung disease, causing asthma attacks and acute bronchitis, and may also increase susceptibility to respiratory infections. Long-term exposures have been associated with reduced lung function and the development of chronic bronchitis and even premature death.

Consumers should be able to save approximately a third of their annual fuel cost through the use of professionally installed, certified, high efficiency wood stoves. Many old stoves are improperly installed, posing significant safety concerns, including health impacts and potential fires. Professional installation required under this Program will ensure that newly installed stoves meet local fire and building codes. If a replacement device is installed in a residence that does not have functional smoke and carbon monoxide detectors, the Program may pay for purchasing and installing new detectors. The Program may support the local economy and job creation by increasing demand for, and installation of, certified wood stoves and other clean heating devices.

X. KEY DATES AND DEADLINES

CARB posted the Program Guidelines for public review and comments on August 7, 2017. The public comment period closed on August 21, 2017. Comments were reviewed and incorporated into the Program Guidelines where appropriate. As a next step, CARB will draft grant agreements with CAPCOA. These agreements must be signed and fully executed before funds can be released. CAPCOA will enter into separate agreements with the Districts. Any work done prior to a District grant agreement being fully signed and executed will be ineligible for funding.

In order to have sufficient time to process final payments and close out grant agreements, Districts must submit all deliverables and payment requests within 45 days after the Project performance period. The deadline for executing all grant agreements is June 30, 2018 and the deadline for all CARB payments to CAPCOA is June 30, 2020.
XI. REPORTING AND GHG QUANTIFICATION

Each District participating in the Program will be responsible for recordkeeping and providing CAPCOA with information necessary to fulfill Program reporting requirements. CAPCOA will be responsible for compiling the reports and submitting them electronically to CARB. All reports must be consistent with the quantification methodologies and reporting guidance developed by CARB and the requirements established in these Program Guidelines. The Program implemented in each participating District will be considered a Project with most of the reporting done on a Project basis. The Project will comprise of all of the change-outs, for which Program funds are being used, within the District’s jurisdiction along with the administrative work required to implement them. Some reported Project information will be publicly available on the CARB website, including the amount of funding that is being spent on projects that benefit disadvantaged communities, low-income communities, and low-income households.

Since the Program is funded by the GGRF, the reporting requirements listed in Table 3.A-19 of the draft Funding Guidelines will apply to all Projects. A subset of Projects will be selected for a project outcome reporting outlined in Table 3.B-8 of the draft Funding Guidelines. Both tables, 3.A-19 and 3.B-8, are included in Appendix A.

In order to document and calculate reductions in GHG, black carbon, and PM2.5 emissions, and document other co-benefits and benefits to disadvantaged communities, low-income communities, and low-income households, CAPCOA and/or Districts will be responsible for collecting and maintaining the following information for each change-out:

- Tracking number for each change-out;
- Location of change-out;
- Incentive amount and, if applicable, verification that Applicant qualifies for an Enhanced Incentive based on the location of the property in a disadvantaged or low-income census tract or Applicant’s household income;
- Criteria the change-out meets for benefiting a disadvantaged community, low-income community, or low-income household and description of how the change-out meets respective community need(s);
- Type of wood burning device being replaced (stove, insert, or fireplace);
- Replacement device type and model;
- Quantity of wood burned annually before replacement;
- Replacement device emission rates and efficiency (if available);

16 Available at www.arb.ca.gov/cci-quantification
17 CARB released updated draft Funding Guidelines in August 2017 (available at www.arb.ca.gov/cci-fundingguidelines). These draft Funding Guidelines are subject to change based on public input and Board direction. While the draft provides an indication of what is currently required, administering agencies must incorporate all provisions reflected in the draft Funding Guidelines and subsequent Board approved Funding Guidelines
18 Ibid.
19 Ibid.
• Installation date;
• Copy of final permit (City, County, or State);
• Verification of destruction of uncertified stove (including recycling if available locally) or, where applicable, verification of rendering fireplace and chimney permanently inoperable;
• Verification that the resident was trained on device operation and maintenance and, if applicable, following best practices in wood storage and wood burning for residential space heating;
• GGRF dollars spent; and
• Information on jobs and training opportunities created and whether employees are residents of disadvantaged or low-income communities or low-income households.

Documentation of each wood stove replacement must include all of the parameters above, which are necessary for quantifying the reductions. Record keeping and tracking will be retained by CAPCOA or the District for three years after the Project Closeout report is submitted.

Net GHG reductions from wood stove replacement will be calculated using the CARB approved GHG Quantification Methodology for Fiscal Year 2016-17 available at the Cap-and-Trade Auction Proceeds Quantification Materials webpage. CARB will also develop methodologies to quantify some additional project co-benefits. CAPCOA will be responsible for performing calculations and reporting results to CARB as part of the reports outlined above.

XII. DISBURSEMENT OF FUNDS

Funds cannot be disbursed until there is a fully executed grant agreement between CARB and CAPCOA. Only those actual and direct Program related costs incurred during the approved term of the grant agreement and as specified in the grant agreement budget will be eligible for payments.

Districts shall maintain an accounting system that accurately reflects fiscal transactions with the necessary controls and safeguards. The accounting system must retain itemized receipts and invoices for all Program funds for at least three years after final payment is made by CARB.

XIII. AUDITING

The State of California has the right to inspect all work and associated records at any time over the project life. This right shall extend to any subcontracts, and CAPCOA and/or Districts shall include such access in all their contracts or subcontracts.

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20 https://www.arb.ca.gov/cc-quantification
CARB shall review a sufficient number of projects each year to ensure proper Program implementation. The District responsible for the project selected for audit will be contacted at least 30 days in advance. The audit should include all books, papers, accounts, documents, photographs, and other records related to the project for which Program funds were used. The District will be expected to assign an employee familiar with the project and accounting procedures to assist the State auditor and have the project records, including cancelled warrants, readily available for inspection.

If the audit reveals that the District did not follow these Program Guidelines and/or the grant agreement, does not have proper documents to demonstrate following Program Guidelines and/or the grant agreement, or violated any State or federal law or policy, a corrective action plan will be put in place. The District will have three months to implement the corrective measures. A follow-up audit will be conducted to verify that the deficiencies are fully mitigated. If the corrective actions were not implemented or new problems were discovered during the follow-up audit, a second corrective action plan will be established. If the second follow-up audit is less than satisfactory, the grant agreement with that District will be terminated immediately and the District will be prohibited from receiving any future funding from this Program. The District may be required to fully or partially repay Program funds spent in violation of these Program Guidelines and/or the grant agreement.

The following are examples of Program deficiencies:

- Replacing a wood stove, wood insert, or fireplace not eligible for the Program;
- Installing a device not eligible for the Program;
- Issuing an Enhanced Incentive to an ineligible Applicant;
- Failing to properly document each change-out;
- Failing to properly dispose of the old stove; and
- Allowing an Applicant to install his/her replacement device.

If deficiencies are identified during an audit, CARB will be responsible for communicating them to the District, giving District an opportunity to respond, and, if necessary, assist in drafting a corrective action plan. Districts must make every effort, including requesting assistance from CARB, if necessary, to ensure that the deficiencies are fully mitigated.
APPENDIX A

REPORTING REQUIREMENTS
Table 3.A-19. Woodsmoke Reduction Program Reporting Requirements for all Projects

Table 3.A-19  WOODSMOKE REDUCTION (ALL PROJECTS)
CARB will work with administering agencies to develop reporting templates for data submittal. Provided below are the primary items that administering agencies need to track and report. Additional information may be required to respond to official data requests.

Administering agencies must report data for each project, as described below:
For each grant to an administrator or air district that implements an incentive program:
- The grantee will need to compile data from individual incentive recipients or individual households and provide that compiled data to the administering agency.
- The administering agency will then submit data to CARB with a summary of distributed incentives, by grantee and by census tract.

Selected (Optional) - Prior to executing a legal agreement with a funding recipient, when the administering agency announces a new funding recipient or allocates new funds for an existing funding recipient, the agency may choose to report the following data on “selected” projects. Report once at next reporting cycle (only update if needed). “Selected” projects that have been "awarded" will need to be removed from the reported list.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Funding Recipient</td>
</tr>
<tr>
<td>2.</td>
<td>Project Name</td>
</tr>
<tr>
<td>3.</td>
<td>Project Type</td>
</tr>
<tr>
<td>4.</td>
<td>Project Description</td>
</tr>
<tr>
<td>5.</td>
<td>Total GGRF Funding ($)</td>
</tr>
<tr>
<td>6.</td>
<td>Estimated Total Project GHG Emission Reductions (MTCO₂e over quantification period)</td>
</tr>
</tbody>
</table>

Awarded - When the administering agency executes a legal agreement with a funding recipient to administer a program and distribute incentives (e.g., a contract, grant agreement, amendment to add new funding), the agency must report data on “awarded” projects. Report once at next funding cycle (only update if needed).

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Project Identification Number</td>
</tr>
<tr>
<td>2.</td>
<td>Subprogram</td>
</tr>
<tr>
<td>3.</td>
<td>Funding Recipient</td>
</tr>
<tr>
<td>4.</td>
<td>Project Name</td>
</tr>
<tr>
<td>5.</td>
<td>Project Description</td>
</tr>
<tr>
<td>6.</td>
<td>Date Project Selected</td>
</tr>
<tr>
<td>7.</td>
<td>Project Completion Date (anticipated or actual)</td>
</tr>
<tr>
<td>8.</td>
<td>Total GGRF Funding ($)</td>
</tr>
<tr>
<td>9.</td>
<td>Fiscal Year(s) for GGRF Appropriation that is Funding the Project</td>
</tr>
<tr>
<td>10.</td>
<td>Estimated Number of Dwellings to Receive Upgrades</td>
</tr>
<tr>
<td>11.</td>
<td>Quantification Period as Defined by QM (years)</td>
</tr>
<tr>
<td>12.</td>
<td>Estimated Total Project GHG Emission Reductions (MTCO₂e over quantification period)</td>
</tr>
</tbody>
</table>
Table 3.A-19  WOODSMOKE REDUCTION (continued)
(CARB Woodsmoke Program)

<table>
<thead>
<tr>
<th>Awarded (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13. Estimated Project Co-Benefits and Indicators:</td>
</tr>
<tr>
<td>a. Number of woodstoves replaced</td>
</tr>
<tr>
<td>b. Wood Burning Reductions (cords)</td>
</tr>
<tr>
<td>c. Criteria Air Pollution Reductions (tons)</td>
</tr>
<tr>
<td>d. Green Waste Diverted from Burning (tons)</td>
</tr>
<tr>
<td>14. Other Project Benefits or Results</td>
</tr>
<tr>
<td>15. Date Operational</td>
</tr>
<tr>
<td>16. Date GHG Emission Reductions Begin</td>
</tr>
<tr>
<td>17. Version Tracking Date (this date indicates which document versions (e.g., quantification methodology, CalEnviroScreen, Expenditure Record) were applicable when the administering agency selected the project)</td>
</tr>
</tbody>
</table>

**Implemented -** When incentives have been distributed to consumers or when installations are complete and project locations are known, the administering agency must report the following data on “implemented” projects. Report this data each reporting cycle for all incentives/upgrades that have been distributed/installed since the previous data submittal.

<table>
<thead>
<tr>
<th>Implemented</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Census Tract</td>
</tr>
<tr>
<td>2. Total Project Cost ($) (within census tract, including both GGRF and non-GGRF funds, during this reporting cycle)</td>
</tr>
<tr>
<td>3. Total GGRF Funding ($) (within census tract, during this reporting cycle)</td>
</tr>
<tr>
<td>4. Number of Dwellings Upgraded (within census tract, during this reporting cycle)</td>
</tr>
<tr>
<td>5. Quantification Period as Defined by QM (years)</td>
</tr>
<tr>
<td>6. Estimated Total Project GHG Emission Reductions (MTCO₂ₑ over quantification period) (for incentives issued within census tract during this reporting cycle)</td>
</tr>
<tr>
<td>7. If the Project Benefits AB 1550 Populations (disadvantaged communities; low-income communities; low-income households):*</td>
</tr>
<tr>
<td>a. Indicate which AB 1550 criteria table was used to evaluate the project (e.g., Table 2.A-1). Use CARB’s Funding Guidelines, Volume 2, Appendix 2.A to find the appropriate table.</td>
</tr>
<tr>
<td>b. Identify each type of AB 1550 population that the project benefits (e.g., low-income households and low-income community census tracts within ½-mile of a disadvantaged community census tract). Refer to Appendix 2.A, AB 1550 criteria table, Step 1. Maps/lists that identify AB 1550 populations are available at: <a href="http://www.calepa.ca.gov/envjustice/ghginvest">www.calepa.ca.gov/envjustice/ghginvest</a>.</td>
</tr>
<tr>
<td>c. Describe the approach used to determine that the project meaningfully addresses a community or household need (e.g., hosting community meetings to engage local residents). Refer to Appendix 2.A, AB 1550 criteria table, Step 2.</td>
</tr>
<tr>
<td>d. Describe how the project meaningfully addresses a community or household need (e.g., project will reduce transportation costs).</td>
</tr>
</tbody>
</table>

*Projects that were selected before the effective date of these Funding Guidelines may still need to report on benefits based on the SB 535 criteria in CARB’s 2015 Funding Guidelines. CARB will work with administering agencies to determine data submittal formats for SB 535 benefits, as needed.*
### Table 3.A-19  WOODSMOKE REDUCTION (continued)
(CARB Woodsmoke Program)

**Implemented (continued)**

- e. Indicate one criterion that was used to qualify the project as providing benefits to AB 1550 populations. Refer to Appendix 2.A, AB 1550 criteria table, Step 3.
- f. Provide a qualitative description of how the project benefits AB 1550 populations. Include quantitative metrics if available.
- g. Identify each census tract where the project benefits an AB 1550 population.
- h. For each type of AB 1550 population identified in (b) above, report the total GGRF dollars that benefit that population within each census tract identified in (g) above (e.g., during this reporting cycle $X.X million benefited disadvantaged community residents in census tract ##; during this reporting cycle $X.X million benefited low-income community residents in census tract ##).
- i. For each type of AB 1550 population identified in (b) above, report the total number of dwellings upgraded which benefit that population within each census tract identified in (g) above (e.g., during this reporting cycle 1,500 dwellings were upgraded for disadvantaged communities in census tract ##; during this reporting cycle 2,000 dwellings were upgraded for low-income communities in census tract ##).

8. Project Co-Benefits and Indicators (within census tract during this reporting cycle):
   - a. Number of woodstoves replaced
   - b. Wood Burning Reductions (cords)
   - c. Criteria Air Pollution Reductions (tons)
   - d. Green Waste Diverted from Burning (tons)

9. Other Project Benefits or Results (during this reporting cycle)

10. Program-level Information

**Project Outcome Reporting** - For a subset of projects, as identified by the administering agency, the agency must submit data for project outcome reporting (details are provided in Table 3.B-8) once “operational.”

**Closeout** - When the project is “complete” (the legal agreement with the funding recipient has ended or when all funds associated with that contract are expended, whichever is later), the administering agency must report the following data. Report once at next reporting cycle.

1. Status (“completed” or “cancelled”)
2. Describe Completed Project or Provide Other Project Details
3. Updated Information (provide the following updates if needed and if applicable):
   - a. Estimated Total Project GHG Emission Reductions (MTCO₂e over quantification period)
   - b. Number of woodstoves replaced
   - c. Wood Burning Reductions (cords)
   - d. Criteria Air Pollution Reductions (tons)
   - e. Green Waste Diverted from Burning (tons)
Table 3.B-8. Project Outcome Reporting Requirements for a Subset of Projects

Subset of Projects:
Project outcome reporting is only required for a subset of projects. The administering agency will report on project outcomes for at least 25 percent of Woodsmoke Reduction Program projects. Each project selected for project outcome reporting will report on the outcomes at a minimum of 50 percent of the households where change-outs were performed.

Project Milestone that Initiates the Start of Project Outcome Tracking:
Project outcome tracking begins the first home heating season after a woodstove change-out.*

Frequency and Duration of Project Outcome Tracking and Data Collection:
Project outcome tracking ends 18 months after the start of tracking. Collection of project outcome data ends after the administering agency has collected data for the full project outcome tracking period. At a minimum, the administering agency needs to collect data annually but may establish more frequent data collection requirements.

Frequency and Duration of Project Outcome Reporting:
The administering agency will compile and submit project outcome reporting data to CARB once a year. Reporting on project outcomes ends after the administering agency has submitted reports to CARB which cover the full project outcome tracking period.

Metrics to be Tracked and Reported and Methods for Data Collection:

<table>
<thead>
<tr>
<th>Metric</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracking dates of data submission</td>
<td>mm/dd/yyyy</td>
<td>n/a</td>
</tr>
<tr>
<td>Description of selected change-outs</td>
<td>n/a</td>
<td>Quantity of change-outs selected for project outcome reporting by change-out type and census tract (e.g., within census tract &quot;X&quot;: 2 fireplaces replaced with certified non-catalytic wood stoves or wood inserts; 26 uncertified wood stoves or wood inserts replaced with certified non-catalytic wood stoves or wood inserts; 8 uncertified wood stoves or wood inserts replaced with certified catalytic wood stoves or wood inserts; 4 uncertified wood stoves or wood inserts replaced with propane home heating device; 4 uncertified wood stoves or wood inserts replaced with electric home heating devices; 7 uncertified wood stoves or wood inserts replaced with natural gas home heating devices)</td>
</tr>
<tr>
<td>Change in wood use</td>
<td>Cords/home heating season</td>
<td>Comparison of quantity of wood burned for heat during the home heating season* before upgrades to the usage during the current home heating season (wood usage data is obtained from household survey)</td>
</tr>
<tr>
<td>For household with new electric, propane, or natural gas home heating device: change in energy use</td>
<td>kWh, mmbtu, or scf/home heating season</td>
<td>Comparison of energy usage data during the home heating season* before change-out to the usage during the current home heating season (energy usage is obtained from household survey or utility records)</td>
</tr>
</tbody>
</table>

*Home heating season is defined as October through March.