California Department of Food and Agriculture | Office of Environmental Farming and Innovation

# 2024 Dairy and Livestock Manure Methane Reduction Programs

Application Assistance Workshop 1 August 7, 2024











# Workshop Format

1:05 – 2:00 PM: Alternative Manure Management Program

2:00 – 2:10 PM: Online Application Portal Demo

2:10 - 3:05 PM: Dairy Plus Program

3:05 – 4:00 PM: Dairy Digester Research and Development Program

Agenda for Workshop 1 and 2 on program webpages.



### 2024 Alternative Manure Management Program (AMMP), Dairy Plus Program, Dairy Digester Research and Development Program (DDRDP)

#### Application Assistance Workshop 1

CDFA will host two webinars to provide information on its dairy and livestock methane reduction incentive programs requirements and application processes. Interested stakeholders and members of the public are encouraged to register in advance. After registering, you will receive a confirmation email containing information about joining the webinar.

#### Wednesday, August 7, 2024

1:00 PM - 4:00 PM PT

Registration Link:

https://us02web.zoom.us/webinar/register/WN\_A6Ga6nETRUmlu28pAqj-Lg

#### Agenda:

#### 1:00 – 1:05 PM: Welcome and Introductions

#### 1:05 – 2:00 PM: Alternative Manure Management Program

- Program Overview
- 2024 Request for Grant Applications
  - Funding and Duration
  - Solicitation Process and Timeline
  - Eligibility, Incentivized Practices, and Exclusions
  - Program Requirements
  - How to Apply and Application Sections
  - Review and Scoring
- 3. Benefits Calculator Tool
- 4. Applicant Tools and Resources
- Q&A

#### 2:00 – 2:10 PM: Online Application Portal Demo

#### 2:10 – 3:05 PM: Dairy Plus Program

- Program Overview
- 2024 Request for Grant Applications
  - Funding and Duration
  - Eligibility and Exclusions

California Department of Food and Agriculture | Office of Environmental Farming and Innovation

# 2024 Alternative Manure Management Program

Application Assistance Workshop August 7, 2024





# **Alternative Manure Management Program**

CDFA OFFICE OF ENVIRONMENTAL FARMING & INNOVATION



# Outline

- About the program
- Current solicitation
  - Funding and duration
  - Timeline
  - Solicitation process
  - Eligibility and exclusions
  - Program requirements
  - How to apply and application sections
  - Review and Scoring
- Benefits Calculator Tool
- Tools and resources
- Questions



Program Overview

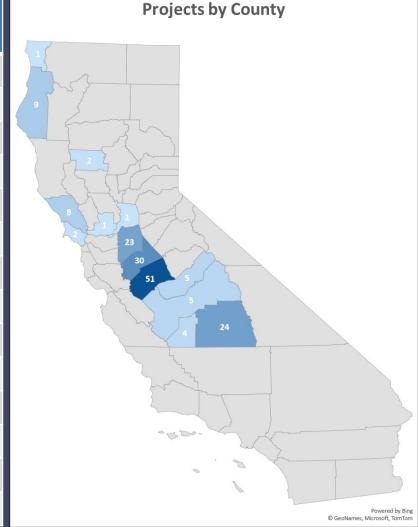
- What is the Alternative Manure Management Program (AMMP)?
  - Competitive grant program administered by CDFA
  - Provide financial assistance to CA dairy and livestock operators for the implementation of nondigester manure management practices that result in methane emission reductions
- Since 2017, 6 rounds completed
  - 168 incentive and 2 demonstration projects
  - \$106 million
  - 1.44 MMTCO2e over 5 years





# AMMP Projects 2017-2023

County	Number of Incentive Projects
Del Norte	1
Fresno	5
Glenn	2
Humboldt	9
Kings	4
Madera	5
Marin	2
Merced	51
Sacramento	1
San Joaquin	23
Solano	1
Sonoma	8
Stanislaus	30
Tulare	24



### Current Solicitation



### **FUNDING**

- Current AMMP funding from two appropriations
  - FY 22-23 GGRF Funds (\$20 million, split between 2023 and 2024 grant rounds)
  - FY 24-25 GGRF Funds (not "new" \$17 million transferred from FY 22-23 General Funds for livestock methane reduction, split by AMMP and DDRDP)
- Award amount: \$17.4 million available in 2024 for awards
- Contingent: remaining \$7 million of transferred FY 22-23 funds allocated next summer; additional ~\$3.5 million to be applied to 2024 AMMP
- Up to \$750,000 per project, matching funds encouraged but not required



### Current Solicitation

### DURATION AND TIMELINE

• Maximum project duration 30 months

Event	Time Frame*
Application Period Opens	July 23, 2024
CDFA Application Assistance Workshops	August 7 and August 13, 2024
Q&A Period 1 Q&A Period 2 Q&A Period 3	Posting August 22, 2024 Posting September 12, 2024 Posting October 3, 2024
Grant Applications Due	October 18, 2024
Review Process	October 2024 – January 2025
Award Announcement	February – March 2025
Anticipated Project Start	June 1, 2025

<sup>\*</sup>Subject to change

#### **Project and application prep:** recommend starting early!

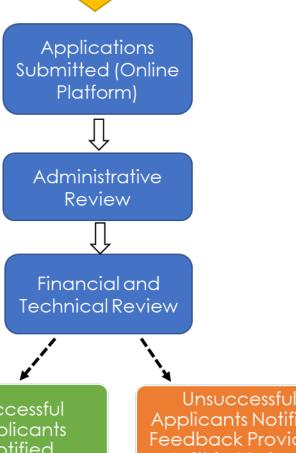
- Explore which eligible practice type works best for an operation
- Talk to potential contractors or vendors and getting bids/quotes
  - Talk to your local county, air and/or water agencies about potential permit requirements



**Application Period** July 23 – October 18, 2024



# Solicitation and Review Process



Project begins

Grant agreement executed

Pre-project consultations

Successful **Applicants Notified** 

Applicants Notified, Feedback Provided (within 90 days)

### Summary of Changes from 2023

### RGA/Solicitation

- Pasture-based management set-aside
- First-time applicant additional points Notification & feedback 60 → 90 days
- CEQA & applicable permitting  $-6 \rightarrow 18$  mo

### Benefits Calculator

Minor updates only to incorporate impacts for natural-gas fueled dryer use selection

### Online Application

- More questions on applicant name/organization Updated file naming convention recommendation

### Related Opportunities

- Availability of Dairy Plus (2<sup>nd</sup> round) eligible applicants/project types now include in-progress AMMP in addition to past completed AMMP
   Past AMMP can apply for DDRDP



# Eligibility

- California farmers, ranchers and California Native American Tribes are eligible to apply.
- The project site must be located on a commercial California dairy or livestock operation.
- Current baseline manure management practice must include the anaerobic decomposition of volatile solids stored in lagoon or other predominantly liquid anaerobic environment.
- A group of dairy or livestock operations can propose to develop a centralized or cluster-type project (e.g., a centralized composting facility).
- Applicant may submit more than one grant application, but each must represent a unique project site (i.e., dairy or livestock operation)
- Operations with existing dairy digesters NOT funded by CDFA's Dairy Digester Research & Development Program (DDRDP) may apply to reduce methane emissions from manure NOT being treated in the digester system.
- Projects must include at least one eligible practice that reduces baseline emissions.

# Eligible Practices

Pasture-based management

2. Alternative manure treatment and storage

3. Solid separation (+ manure treatment and/or storage) 4. Conversion from flush to scrape (+ manure treatment and/or storage)

Manure treatment, drying and/or storage

Includes:

- Conversion of a nonpasture dairy or livestock operation to pasture-based management, and/or
- Increasing the amount of time livestock spend at pasture at an existing pasture operation

Includes:

- Compost bedded pack barn that composts manure in situ (RGA has links to documents on design and maintenance)
- Slatted floor pit storage, cleaned out at least monthly

Technologies include:

- Weeping wall (min 2 cells)
- Stationary screen
- Vibrating screen
- Screw press
- Centrifuge
- Roller drum
- Belt press/screen
- Advanced solid-liquid separation assisted by flocculants and/or bead filters\*
- Vermifiltration\*

- Full or partial scrape system
- Full or partial vacuum

\*Must be implemented in conjunction with an existing or new primary mechanical separator

- Open solar drying
- Closed solar drying
- Forced evaporation with natural-gas fueled dryers
- Daily spread
- Solid storage
- Composting in vessel
- Composting in aerated static pile
- Composting in intensive or passive windrows
- Composting in aerated vermifiltration system

# Exclusions

- Projects that propose to switch existing management practices to those that increase baseline GHG emissions (e.g., from dry scrape to flush lagoon systems)
- Repair of existing defunct or non-functioning equipment
- Duplicate equipment or activities that will receive funding from a different state or federal funding source
- Treatment of manure digestate (digested manure material resulting from an anaerobic digestion process)
- Operations that have already installed a digester system funded by DDRDP, or operations that previously received AMMP funding
- Previous AMMP recipients with expired or failed projects may not reapply for 3 years after the time the project was closed out

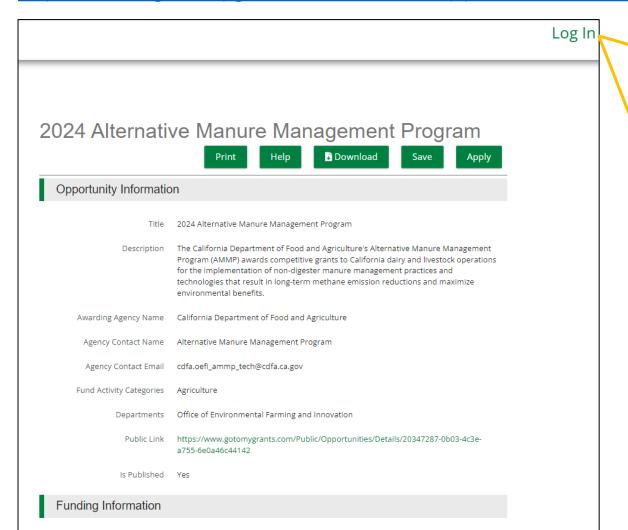
# Other Requirements

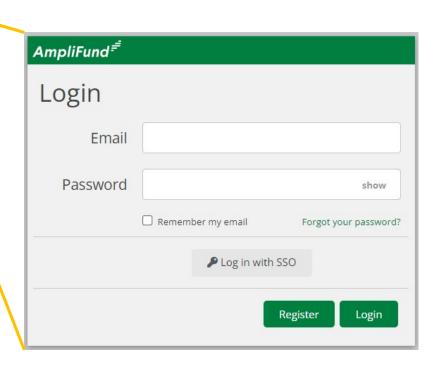
- Grant recipients expected to comply with all applicable permitting within 18 months of execution of the grant agreement
- Projects must use commercially available technologies
- Nutrient management technologies may be proposed as part of project, but only if in addition to AMMP-eligible methane reduction practices (not standalone)
- Must use latest Quantification Methodology and Benefits Calculator Tool to estimate GHG emissions reductions
- Adhere to allowable/unallowable cost guidance
- Post-project annual reporting

# How to Apply

Application portal link available on AMMP webpage:

https://www.gotomygrants.com/Public/Opportunities/Details/20347287-0b03-4c3e-a755-6e0a46c44142





# Application Components



Online application

2024 Alternative Manure Management Program



- Project Information: basic information page in all Amplifund grant applications
- Application Forms: the main AMMP (+/- Dairy Plus) application
  - Applicant and Project Location information
  - 5 main AMMP sections to complete includes both within-application question fields and places for attachments
  - 1 optional section for additional info if needed

#### References!

RGA "Grant Application:
Sections and
Attachments" section;

AMMP Questionnaire

Preview

# Application Sections and Attachments



<u>Section I: Project Plan and Long-Term Viability</u>

**Questions**: primary (and secondary if any) manure management practice being proposed, anticipated start and end dates for project

### Attachments:

- 1- Project Narrative Template (required)
  - History and background of dairy, current management practices, project description, project maintenance
- 1.1 Site plan, project design documents, schematic diagrams, etc. (strongly encouraged!)
- 1.2 Letter of agreement from landowner
- 1.3 For centralized projects, letter(s) of commitment from participating operations
- 2 Work Plan Template (required)
  - Table of tasks/activities required to accomplish objectives identified in project narrative and anticipated dates for implementation of each

	2024 Alternative Manure Management Program Attachment 1: Project Narrative Template
	Operation Name:
	Complete all template sections below. Guidance for the information to include in each section is detailed in the Instructions following the template; these are also posted on the AMMP webpage.
ı.	Project Description
	Operation Background
	Project Site Location
	Address or nearest cross street:
	City, Zip Code:
	County:
	Project herd size:
	Project Type (e.g., conversion to pasture, conversion from flush to scrape, etc.)
	<u>Equipment</u>
	Site Control

Screenshots for visual only; may not represent final versions

#### II. Project Oversight

Other

#### 2024 Alternative Manure Management Program **Project Narrative Template Instructions**

#### General Instructions:

- Length: Please limit the Project Narrative to 10 pages (suggestion: Project Description -6 pages max; Project Oversight - 2 pages max; Long-Term Viability of Project - 2 pages max).
- · Format: Arial font size 12, 1-inch margins, single-spaced.
- Complete all sections of the template, making sure to review and address the section prompts as applicable.

#### Project Description Section Guidance:

This section contains subsections for Operation Background, Project Site Location, Project Type, Equipment, Site Control, and Other.

#### Operation Background

- Provide the details of the history and background of the dairy and/or livestock operation.
- Discuss herd size and breed, including average number of lactating cows (in freestalls) and in open lot corrals), dry cows, replacement calves, replacement heifers, and/or other livestock at your operation over the last 12 months.
- · Within the herd, identify which livestock will be included in the project boundary (this includes only the animals for which manure management will be affected by the AMMP project).
- Explain your current management practices in detail, including a description of lagoon(s) size (depth and volume) if currently using lagoon storage, parlor water use, bedding type, method and frequency of manure collection including percent of manure collected from each production group (i.e., lactating cows, heifers etc.). If there is an existing mechanical separator on site, describe it and its use, such as age and type of separator, frequency of use, existing manure flow through the separator, and estimated efficiency of solids removal.

#### Project Site Location

 Complete the table with address, city, zip code, and County for the project site; include project herd size (only the animals for which manure management will be affected by the AMMP project).

#### Project Type

- Provide details of the type of alternative manure management project planned, and the steps needed to implement it.
- Provide details of the quantity, location, and source of manure to be managed at the operation and specifically in the proposed project. For compost bedded pack barn projects, discuss your design and management considerations for successful composting and to avoid negative animal health outcomes.

To support this narrative, project design documents, including schematics, volatile solid removal efficacy, figures, graphics and plans, should be included as part of the grant application. Consider including a schematic diagram, including aerial images (e.g.,

### 2024 Alternative Manure Management Program Attachment 2: Work Plan Template

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Instructions: List all tasks used to complete project implementation. Clearly and concisely describe the activities (e.g., procuring permits, site preparation, construction, equipment installation, field supervision, etc.) required to accomplish the goals/objectives proposed in the Project Narrative. Identify who will perform each task/activity, including project partners, contractors/consultants, etc. Provide a timeline in chronological order for all proposed tasks with estimated start and end dates for each task. The start and end dates should not be outside of the project term as identified in the Request for Grant Applications. As needed, add rows to the table below, not exceeding 5 pages.

Task No.	Description/Activity	Performed I (Title, Organiza	By ation)	Start Date (Month/Year)	End Date (Month/Year)
	Screenshots for visi	Jal only; may			

Screenshots for visual only; may not represent final versions

# Application Sections and Attachments



Section II: Project Budget & Financials

**Questions**: grant amount requested, matching funds if any; identification of primary, secondary, tertiary expense type making up budget (ex. installation of manure management equip or dairy facility improvements, procurement of separation or scrape equip)

### Attachments:

- 3 Budget Worksheet Template (required)
  - Categorized spreadsheet for accounting of costs, work hours, equipment associated with activities necessary to complete project
- 3.1 Bids or quotes to support budget costs (strongly encouraged!)



Project cost planning.

- 4 Financials (required)
  - Documents to help demonstrate the organization's financial strength (e.g., CPA Auditor's report/review/compilation, tax returns, financing letters for project)

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	Contractor labor costs cannot exce market.	ed 25% of the t	total grant request amount. Des	sign, engi	ineering, con	sulting, and permit costs canno	ot exceed 5% of the tot	tal grant amoi	unt requested. Project costs m	ust be reas	sonable an	d consistent w	vith costs paid for equivalent w	ork on r	non-grant f	ınded activities or for comparabl	le work in th	he labor
	*For cost share, provide a brief description of the types of costs, including the quantity, activity, or service needed to complete the project, along with their source (e.g. applicant, NRCS, etc.). Cost share can include cash and/or in-kind contributions. Cash contributions are the amount of funds, including supplies, equipment, and any other allowable costs, that will be contributed by the applicant organization or other funding source for the proposed project. In-kind contributions are estimated dollar values of any time, property, or supplies donated to a project, including costs associated with labor for any work involved with the implementation of the proposed project.																	
	Note that the "Total Grant Request" table below.	amount will au	tomatically calculate the amoun	nts for ea	ich budget ca	tegory (supplies, equipment, la	bor, and other costs). 1	This amount i	is the total AMMP grant funding	requested	to complet	e the propose	d project. The "Total Grant Rec	quest" c	annot exce	ed <b>\$750,000</b> . As needed, you m	nay add row	vs to the
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6	Total Project Costs: \$0.00																	
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Screenshots for visual only; may not represent final versions

# Application Sections and Attachments



<u>Section III: Estimated GHG Emissions Reduction and Environmental Benefits</u>

**Questions**: Benefits calculator extracted info on livestock types and numbers included in project boundary, GHG reduction summary data, co-benefits summary data

### Attachments:

- 5 Benefits Calculator Tool (required)
  - Estimates project GHG reductions and co-benefits
  - Make sure to use newest version (file dated 7-18-2024), posted on CCI Quantification page (<u>www.arb.ca.gov/cci-resources</u>)
- 5.1 Explanation of GHG calculations (strongly encouraged!)
  - Support for values input in Benefits Calculator (e.g., animal numbers, milk production/characteristics, electricity and diesel use)
- 6 Environmental Co-Benefits Template (required)

#### Natural Resources and Waste Diversion Priority Population www.arb.ca.gov/cci-resources Quantification Methodology (QM) **Benefit Criteria** Reporting Agency **Project Type** and Calculator Tool Table Template California Air Smoke Monitoring Resources Board California Air Resources Board California Riparian Restoration Riparian Restoration QM Job Training Benefits Calculator Tool for the **Alternative Manure Management Program** Conservation Projects Workforce Calculator Tool Developme Corps **California Climate Investments** California Wetland Restoration Final Revised Land Restoration Land Restora and Forest Department of Program 18-19 QM Note to applicants: Fish and Wildlife A step-by-step user guide, including project examples, for this Benefits Calculator Tool is available here Final Revised Land Restoration 18-**Draft Land** 19 Tool Restoration AMMP applicants must enter the applicable information in the table below before proceeding with the project-specific data on the Inputs tab. **Forest Heal** Revised Upo Project Name: Required Application ID 2024\* Required Contact Name: Required Contact Phone Number: Required Land Contact Email Required Conservatio 20 Date Calculator Completed: Required Total AMMP Funds Requested (\$): Required **Draft Land** Matched Funds (\$): Required Total Funds (\$): \$ Conservatio. Revised Upo<sup>26</sup> Key for color-coded fields: Required input field 2024\* Optional input field\* Output field / not modifiable Helpful hints / important tips California Alternative Manure Management Alternative Manure Waste Divers Not applicable Department of and Utilizat Management Practices Program QM Food and Calculator Tool **Draft Waste** Documentation Fo ... (+) Read Me Definitions Project Info Project Data Inputs Co-benefits Summary **GHG Summary** Agriculture Diversion and Utilization Screenshots for visual only; may **Revised Update** not represent final versions 2024\*

### 2024 Alternative Manure Management Program Attachment 6: Environmental Co-Benefits Template

Operation Name:

Please respond to the following questions, and limit document length to 2 pages.

- 1. Describe how the project will include additional protection to air and water quality beyond requirements in the project's regional air/water quality permits. Provide a description of the environmental benefits anticipated from your project supported by appropriate evaluations and citations from published literature to support your claims. Examples include, but are not limited to water conservation measures, development of value-added products such as fertilizers and soil amendments that provide more stable forms of nitrogen/minimize nitrate leaching to groundwater, changes to operation's Nutrient Management Plan and/or Waste Diversion Plan that enhance water quality protection and pump electrification. If the project has a Comprehensive Nutrient Management Plan (CNMP) prepared in collaboration with USDA-NRCS staff, resource conservation goals discussed in the CNMP may be included in this section.
- 2. Projects may propose to include nutrient management technologies, such as those to help manage excess nitrogen, in addition to the eligible methane reduction technologies under the AMMP (implementation of standalone nutrient management technology is not an eligible project type). Is nutrient management technology beyond the proposed AMMP practice and manure treatment/storage approach included as part of the project? If yes, how will it improve nutrient management?
- 3. If compost is expected to be produced, how will it be used and what is the anticipated benefit? Will it reduce use of other fertilizers? Will it be transported/exported? Has anticipated change in transportation miles (associated with compost production or use) been considered?

Screenshots for visual only; may not represent final versions

# Application Sections and Attachments



<u>Section IV: Project Readiness</u>

**Questions**: none

Attachments:

7 – Project Readiness (required)

7.1 – Permitting Documents

 Supporting documentation such as permit applications, already issued permits for project or existing permit to operate, communication with agency if permit not needed



<u>Section V: Benefits to Priority Populations</u>

**Questions**: direct reflection of <u>CCI Waste Diversion and Utilization project evaluation</u> <u>criteria for providing benefits to priority populations</u>

### Attachments:

- 8, 8.1 Supporting documentation, CARB Community Engagement Questionnaire
  - Community outreach or engagement conducted, identifying needs for priority populations, job or training program agreements

Conditional Use Permit  2. Is a Conditional Use Permit (CUP) required for this project?  Yes □ or No □  If yes, provide a copy if already obtained, or explain where the project is in the process of obtaining one and/or steps that will be taken to obtain the permit.  **Select an Item.**  Air Quality Permits  3. In which Air Quality Management District (AQMD) or Air Pollution Control District (APCD) is the project located within place select or "yes" or "no" response for the questions become and utilization. Beenft; not reinformation, please refer to CC Quantification, Beenft in and utilization. Beenft in and utilization helps from the questions in place select a "yes" or "no" response for the questions below as Attachment 8: supporting Documentation to justify an affirmative answer to the questions in fine section and criteria below as Attachment 8: supporting Documentation to justify an affirmative answer to the questions in fine section and please refer to CCI Quantification, Beenft in the provide documentation to justify an affirmative answer to the questions in fine section and undividual and utility in and Utilization Beenft: There in a dultilization in the provide documentation to justify an affirmative answer to the questions in fine section and undividual and undividual please select of "yes" for information, please refer to CCI Quantification, Beenft the Reported Questions and criteria below as Attachment 8: supporting Documentation to justify an affirmative answer to the questions. Provide documentation to justify an affirmative answer to the questions afford the project south on the permit 8: supporting Documentation to justify an affirmative answer to the questions. Provide documentation to justify and gritteria. Provide documentation to justify an affirmative answer to the questions deviced in the questions. Provide documentation to justify an affirmative answer to the questions. Provide documentation to justify an affirmative answer to the questions. Provide documentation to justify an affirmative	Operation Name:	<b>Project Type:</b> Projects will divert waste from landfills, forestry, or agricultural operations to other productive uses (e.g., composting operations, dairy digesters,
## Air Quality Permits  1. Is the project compliant with the California Environmental Quality Act (CEQA)? Yes □ or No □ If yes, upload a copy of the Notice of Determination (NOD) or correspondence from the lead agency confirming CEQA is not required for the project in Attachment 7.1. Permitting Documents. Include any notes below, if needed.  ### If no, please explain where the project is in the CEQA process and steps project will take to achieve compliance:  ### Conditional Use Permit    Conditional Use Permit (CUP) required for this project? Yes □ or No □		digestion, and recycling).
Yes □ or No □  If yes, upload a copy of the Notice of Determination (NOD) or correspondence from the lead agency confirming CEOA is not required for the project in Atlachment 7.1. Permitting Documents. Include any notes below, if needed.  If no, please explain where the project is in the CEOA process and steps project will take to achieve compliance:    If no, please explain where the project is in the CEOA process and steps project will take to achieve compliance:    Conditional Use Permit		direct, meaningful, and assured benefits to priority populations and count toward statutory investment minimums.
If yes, upload a copy of the Notice of Determination (NOD) or correspondence from the lead agency confirming CECA is not required for the project in a Attachment 7.1: Permitting Documents. Include any notes below, if needed.  If no, please explain where the project is in the CEQA process and steps project will take to achieve compliance:  If no, please explain where the project is in the CEQA process and steps project will take to achieve compliance:  Conditional Use Permit  2. Is a Conditional Use Permit (CUP) required for this project?  Yes   Or No   If yes, provide a copy if already obtained, or explain where the project is in the project is not the project observed within the poundaries of a low-income community		the following criteria. Check all boxes that apply.  Note: For this project type, the majority of the project must be located within a
If no, please explain where the project is in the CEQA process and steps project will take to achieve compliance:    Section V - Benefits to Priority Populations	from the lead agency confirming CEQA is not required for the project in	disadvantaged or low-income community census tract. For projects that divert waste from landfills, the project location may be determined by the source of the majority of the waste. For projects that provide food or textiles, the project location may be
will take to achieve compliance:  Conditional Use Permit  Conditional Use Permit  2. Is a Conditional Use Permit (CUP) required for this project?  Yes □ or No □  If yes, provide a copy if already obtained, or explain where the project is in the process of obtaining one and/or steps that will be taken to obtain the permit.  If no, provide a brief explanation:  Air Quality Permits  3. In which Air Quality Management District (AQMD) or Air Pollution Control District (APCD) is the project located?  Conditional Use Permit  Section V - Benefits to Priority Populations Conditional Use Permit  Conditional Use Permit  Conditional Use Permit  2. Is a Conditional Use Permit (CUP) required for this project?  Yes □ or No □  If yes, provide a copy if already obtained, or explain where the project is in the process of obtaining one and/or steps that will be taken to obtain the permit.  If no, provide a brief explanation:  **If no, provide a brief explanation:**  Air Quality Permits  3. In which Air Quality Management District (AQMD) or Air Pollution Control District (APCD) is the project located?  **Seed an Item **  **  **Seed an Item **  **Seed an Item **  **  **Seed an Item **  **  **  **  **  **  **  **  **	If no, please explain where the project is in the CEQA process and steps pro	census tract?  B. Is the project located within the boundaries of a low-income community
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2. Is a Conditional Use Permit (CUP) required for this project?  Yes □ or No □  If yes, provide a copy if already obtained, or explain where the project is in the process of obtaining one and/or steps that will be taken to obtain the permit.  If no, provide a brief explanation:  If no, provide a brief explanation:  Air Quality Permits  3. In which Air Quality Management District (AQMD) or Air Pollution Control District (APCD) is the project located?	Conditional Use Permit	If a project does not meet at least c does not count toward statutory inv
Process of obtaining one and/or steps that will be taken to obtain the permit.    Evaluate the project against each of the following criteria. Use the map provided on the California Air Resources Board website to determine the project location. Select "yes" for all questions that apply.    Is the project located within the boundaries of a disadvantaged community census tract? *   Select an item   Select an item   Select an item   Which Air Quality Management District (AQMD) or Air Pollution Control District (APCD) is the project located?		needed. If the project meets at least step 2.  NOTE: Projects are not required to provide benefits to priority populations. However, projects that are determined to be providing benefits based on the questions in this section are eligible to receive up to 5 additional points during the review
If no, provide a brief explanation:    Select an item		Evaluate the project against each of the following criteria. Use the map provided on the California Air Resources Board
Air Quality Permits  Is the project located outside of a disadvantaged community, but within ½-mile of a disadvantaged community and within a low-income community census tract? *  3. In which Air Quality Management District (AQMD) or Air Pollution Control District  (APCD) is the project located?	If no, provide a brief explanation:	Select an item ✓
3. In which Air Quality Management District (AQMD) or Air Pollution Control District  (APCD) is the project located?		Select an item ✓
(APCD) is the project located?	•	income community census tract? *
Is the project located within the boundaries of a low-income household? *  Screenshots for visual only; may	(APCD) is the project located?	Is the project located within the boundaries of a low-income household? *    Select an item   V

not represent final versions

Evaluation Criteria for Providing Benefits To Priority Populations
WASTE DIVERSION AND UTILIZATION

AFTER RESPONDING TO STEP 1, PLEASE READ: If a project does not meet at least one of the qualifying criteria in Step 1, no further evaluation is needed. Please select N/A in the questions for Step 2 and 3. If the project meets at least one Step 1 criterion (i.e., at least one Yes response was selected), continue the evaluation

2024 Alternative Manure Management Program

Attachment 7: Project Readiness Template

4. Is an Authority to Construct (ATC) required for this project?

Yes □ or No □

### Application Sections and Attachments



<u>Section VI: Additional Information (Optional)</u>

**Questions**: clear description of what additional materials/information included, which sections of application are supported

### **Attachments:**

9 – Additional information

### A note on attachment file naming

The preferred format for each attachment is listed by each file upload location in the application, and helps identify attachment number, attachment name, and project.

Attachment 1: Project Narrative Template (required; name file using format "Att1\_Project Narrative\_Name of Dairy or Livestock Operation"; upload as Microsoft Word File) \*

Choose File

# Scoring

### **SCORING OVERVIEW – 100 POINTS TOTAL**

Project Plan & Long-Term Viability	25 Points
Budget & Financials	15 Points
Estimated GHG Reduction	35 Points
Environmental Co-Benefits	10 Points
Project Readiness	10 Points
Benefits to Priority Populations	5 Points
Additional considerations	
First-time applicant	5 Points

### Appendix E: Detailed Scoring Criteria

SCORING CRITERIA	MAXIMUM STRIOQ
PROJECT PLAN AND LONG-TERM VIABILITY	25
Addressed all requirements of Project Plan and Long-Term Viability section (Narrative, Work Plan, supporting materials) including, but not limited to:	
Project Description	
<ul> <li>a. Current and proposed manure management practices are clear and well described. Description included tons of material handled through the proposed management practice.</li> <li>b. Proposed technologies have a track record of success and are commercially available in California.</li> <li>c. The proposed practice appears appropriate for the operation's facilities and manure management and should be feasible to implement successfully.</li> </ul>	
<ul> <li>d. Documentation that demonstrates control of the dairy/livestock operation site provided (if applicable).</li> <li>e. Guarantees that an adequate amount of feedstock (e.g., material to be composted) will be provided to make the project feasible by the time the project is operational (if applicable).</li> </ul>	
Project Oversight and Long-Term Viability  f. Long term operations and maintenance plan included. Ongoing costs for maintenance or consumable media use (e.g., polymer) have been considered by applicant.  g. The system is likely to be in place and operational for at least 5	
years.  h. Demonstrated that the applicant (including its contractors) and cooperating organizations have sufficient staff resources, technical expertise, and experience to successfully complete the proposed project, and maintain its successful operation past the grant term.	
Project Work Plan     Specific list of all tasks needed to complete project using the Work Plan template provided.     Detailed Work Plan clearly and concisely described the tasks and	

Details on what is considered for each section in RGA: Appendix E: Detailed Scoring Criteria

# Successful Elements and Tips

Consistency throughout application

Organization of file names and proposal documents

**Detail and clarity** when describing existing operation and management, and what will change in proposed

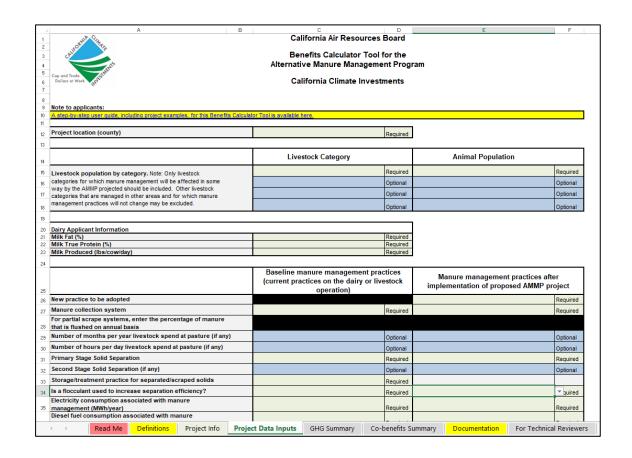
Early submission if possible!

Supporting documentation and data

Operation-specific, unique, concrete examples

### Benefits Calculator Tool

- Applicants must use the California Air Resource Board's (CARB) AMMP Benefits Calculator Tool to estimate avoided methane emissions from anaerobic manure decomposition
- For specific questions regarding the Benefits Calculator Tool, please contact <u>GGRFProgram@arb.ca.gov</u>
- The Benefits Calculator Tool is available at: <a href="www.arb.ca.gov/cci-resources">www.arb.ca.gov/cci-resources</a>



# Benefits Calculator Tool

### Summary of recent updates

 2024: Back-end data and calculations only – account for impacts of manure treatment, drying and/or storage selection "forced evaporation with naturalgas fueled dryers"; updated fuel prices



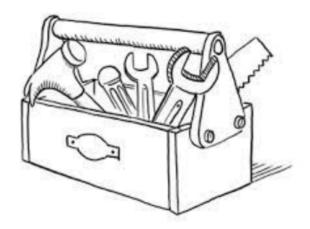
# Tools and Resources

### Solicitation/Application

- Request for Grant Applications
- Application Checklist
- FAQs document
- Q&A periods (3 rounds, general program/app process questions)

Questions Received by:	Responses Posted by:
August 15, 2024	August 22, 2024
September 5, 2024	September 12, 2024
September 26, 2024	October 3, 2024

- CDFA application workshops
- Benefits Calculator: QM, User Guide
- Project Planning/Map tool
- Technical assistance links to providers on website



#### AMMP 2024 Grant Application Checklist

This checklist is designed as a tool to assist potential applicants. Use is not required, and it is not intended to take the place of any official application instruction or program guidance. Applicants will be responsible for the completeness and accuracy of their submitted application.

#### Electronic Application

- ☐ Created account in the Online Application Platform (Amplifund Applicant Portal User Guide)
- ☐ Filled out Online Application pages and "Marked as Complete"

Helpful notes: progress may be saved in draft form; save frequently! Once you have started an application, you can work on the Project Information and Application Forms pages in any order. Required fields are marked with an asterisk \*. All required fields must be completed in order for a page to be Marked as Complete)

#### **Technical Assistance Resources**

Technical assistance is available free of cost to AMMP applicants and grant awardees. Contact information for these providers can be found in the resources below.

- Technical Assistance Providers (TAPs) CDFA has funded organizations around the state to provide free oneon-one assistance to dairy and livestock operators interested in applying for the AMMP and to assist grant awardees with project implementation.
- UC ANR Climate Smart Agriculture Community Education Specialists CDFA has partnered with the University
  of California, Division of Agriculture and Natural Resources to offer Climate Smart Agriculture technical
  assistance to dairy and livestock operators interested in applying for the AMMP and to assist grant awardees
  with project implementation.

# Tools and Resources



Sign up for email notifications

### General/Program

- Main AMMP page: <a href="https://www.cdfa.ca.gov/oefi/AMMP/">https://www.cdfa.ca.gov/oefi/AMMP/</a>
- Outreach and Program Awareness
  - AMMP Flyers new options available!
    - Farmer and Rancher facing: https://www.cdfa.ca.gov/oefi/ammp/docs/AMMP\_flyer\_fr.pdf
    - Policymaker facing: https://www.cdfa.ca.gov/oefi/ammp/docs/AMMP flyer leg.pdf
  - Email subscription list
  - CCI page and project profiles: <a href="https://www.caclimateinvestments.ca.gov/">https://www.caclimateinvestments.ca.gov/</a> alternative-manure
  - AMMP demo project manure management series webinars and onepagers: <a href="https://cdaap.org/ammp-outreach-project/">https://cdaap.org/ammp-outreach-project/</a>



Cap and Trade

Dollars at Work







dry passively or compost intensively (with further handling including regular turning and

scrapers and vacuum tankers, and self-propelled vacuum tankers. This brochure discusses the self-propelled vacuum tanker, which requires the strongest concrete due to its loaded weight.

How much does it cost? Total project and Alternative Manure Management Program funding for five individual projects and estimated operation and maintenance (O & M) costs (201) 2020) are summarized

\$750,000—835,271 Total AMMP funding \$485 271-750 000 Average vacuum equipment cost \$276 236

Estimated annual O&M cost \$2,000-8,250 In addition to vacuum equipment, the cost of the whole project may include solid separation





■ University of California

# AMMP Project Planning Tool

https://replan-tool.org/ammp/



RePlan: Regional Conservation and Development Planning Tool

#### Welcome to the CDFA AMMP Project Planning Tool

The California Department of Food and Agriculture (CDFA) Alternative Manure Management Program (AMMP) provides financial incentives for the implementation of non-digester manure management practices on dairy and livestock operations in California, which will result in reduced greenhouse gas (GHG) emissions. This web application primarily provides tools for potential applicants to map out their project site's current practices and proposed alternative manure management practices which are supported by AMMP. The tool also assesses the proposed project's estimated GHG reductions (following the AMMP Quantification Methodology and accompanying Benefits Calculator Tool developed by the California Air Resources Board).

You will find it helpful to have certain information available about the dairy or livestock operation and proposed alternative manure management project in preparation to use this tool. This will allow you to most efficiently work through a complete project scenario. View list of information you will need.

**START** a session by clicking the Begin button below. You can then zoom to your project location by typing in an Address using the finder field or panning and zooming to your area of interest. You will then be able to describe and map your current manure management practices, and explore the benefits of one or more alternative manure management practices.

SAVING and NAVIGATING: if at any time you'd like to save your progress, you can click "Save URL" in the upper right hand corner. This will give you a unique link that will restore your saved progress at the point that link was created. To navigate, use the Back and Next buttons at the bottom of each screen in the tool – this will not clear your previous entries and work in a given session. Note: do not use your browser's back or refresh buttons, as this will result in the loss of your information.

IF you will be submitting an AMMP grant application using your selected alternative manure management proposal, a PDF report containing those project diagrams can be downloaded along with a partially populated Benefits Calculator Tool spreadsheet. The PDF report provides specific directions





Proposed Manure Management Practices Diagram



Begir

Report a system problem Disclaimer Created by the Conservation Biology Institute 🛞

# Questions?

Program Contact: cdfa.oefi\_ammp\_tech@cdfa.ca.gov

AMMP Webpage: <a href="https://www.cdfa.ca.gov/oefi/AMMP/">https://www.cdfa.ca.gov/oefi/AMMP/</a>

**Email Notifications:** 

https://public.govdelivery.com/accounts/CADFA/subscriber/new

### Thank you for joining!

UP NEXT: Online Application Portal Demo; Dairy Plus Program; Dairy Digester Research and Development Program

California Department of Food and Agriculture | Office of Environmental Farming and Innovation

# Online Application Portal Demo

Application Assistance Workshop August 7, 2024



# Online Application Platform Demo

#### **Navigation and Use Tips**

- SAVE OFTEN
- 2. Default view and text small? Zoom your browser view (through settings or Ctrl + "+/-") if helpful
- 3. Can move between 4 buttons up top at will (always SAVE, but do not need to fully complete a page before viewing or working on other pages)
- 4. For reference links in application, recommend opening in new tab (right click, "open in new tab"; or Ctrl + left click on link). \*Amplifund improved function of links and we have already set them to open in a new tab automatically.
- 5. "Mark as Complete" will only be allowed once all required fields are filled in (can change back to edit by clicking "Mark as in progress")
- 6. To Submit, Project Information and Application Form must be "Marked as Complete"

#### 2024 Alternative Manure Management Program



Project Information		Help	Download	Save	Save & Continue
Application Information	n				
Application Name *					
How much are you requesting fro	m the funder?				
Award Requested *	\$0.00				
Total Award Budget	\$0.00				
Primary Contact Inform	mation				
Name *	AL				
Email Address *	alouiedvm@gmail.com				
Address Line 1 *					
Address Line 2					
City *					
State/Province *					
Postal Code *					
Phone Number					

California Department of Food and Agriculture | Office of Environmental Farming and Innovation

# 2024 Dairy Plus Program

Application Assistance Workshop August 7, 2024





2024 Dairy Plus Program



Application Assistance Workshop

August 7, 2024







# \$85 Million for CA Dairy Sector



Partnering To Invest In and Build Markets for California's Climate-Smart **Dairy Producers** 









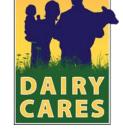


























## **Program Overview**

- **GOAL:** To award competitive grants to CA dairy farms for the implementation of advanced manure management practices that reduce methane emissions and address nitrogen and salt surplus.
- **Funding:** \$58 Million directly to project implementation up to \$1.25 M (at a max of \$750/cow)
  - CDFA will prioritize awards to small and historically underserved producers by awarding a min of 10% of funds (~\$7.5M) throughout the program's lifetime.
- Builds on CDFA's AMMP and DDRDP programs
- Eligibility:
  - CA Producers/Dairy Farmers (can't be foreign person or entity)
  - New, in progress, or Previous (successfully completed) AMMP Project
  - New, in progress, or Previous (successfully completed) DDRDP Project
- **Duration:** 24 months
- Reimbursement basis



## Eligible Practices





For new 2024, in-progress, or previously completed **AMMP projects**:

- A. **Vermifiltration** must be implemented in conjunction with an existing or new primary mechanical separator.
- B. Solid separation of manure solids through **Weeping Wall** the system must have a minimum of <u>at</u> least two cells.
- C. Advanced solid-liquid separation assisted by **flocculants and/or bead filters** must be implemented in conjunction with an existing or new primary mechanical separator.
- **D.** Centrifuge solid-liquid separation must be implemented in conjunction with an existing or new primary mechanical separator.
- E. Practices above (A, B, C, or D) AND **Subsurface drip irrigation (SDI)** using liquid manure.
- F. Practices above (A, B, C, or D)AND **Aerated Composting**, as follows:
  - i. Composting in vessel (composting in an enclosed vessel, with forced aeration and continuous mixing);
  - ii. Composting in aerated static pile (composting in piles with forced aeration but no mixing);
  - iii. Composting in intensive windrows (with regular turning for mixing and aeration);
  - iv. Composting in passive windrows (with infrequent turning for mixing and aeration).
  - v. Composting in aerated vermifiltration system (solids separated by the vermifilter are also processed by worms within the vermifilter)

## Eligible Practices





For new 2024, in-progress, or previously completed **DDRDP projects**:

- **A. Post-digester Vermifiltration** must be implemented after the anaerobic digestion of manure.
- B. Post-digester Advanced solid-liquid separation assisted by flocculants and/or bead filters must be implemented after the anaerobic digestion of manure.
- **C. Post-digester Centrifuge solid-liquid separation** must be implemented after the anaerobic digestion of manure.
- D. Practices above (A, B, or C) AND **Subsurface drip irrigation (SDI)** using liquid manure digestate.

#### **IMPORTANT!**

Dairy Plus Program funds **cannot** be used to fund the implementation or maintenance of, including but not limited to, <u>anaerobic digesters</u>, <u>biogas cleanup equipment</u>, <u>biogas upgrading equipment</u>, <u>pipelines</u>, <u>electricity generators</u>, and <u>all systems related to anaerobic digestion and biogas end-use</u>.

# Funding Scenarios

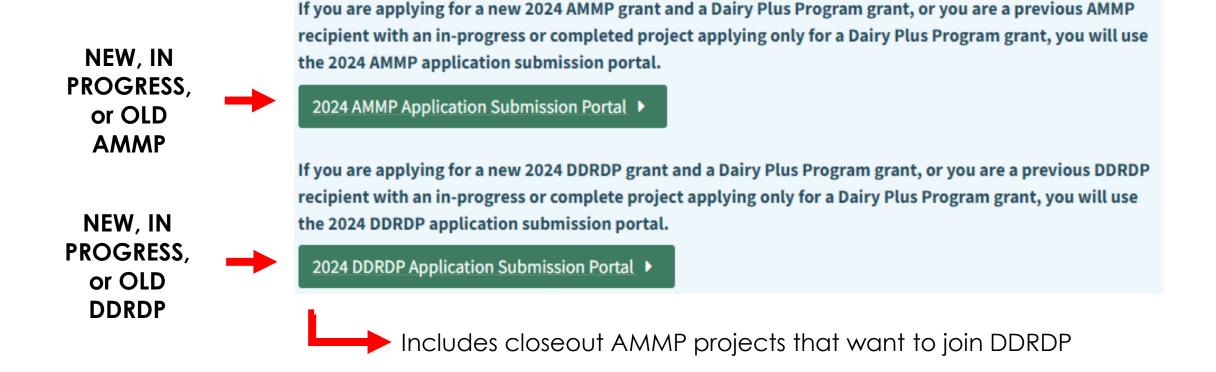
Up to \$1.25 M per project (max of \$750/cow)

	Program/System	State Funding (CDFA)	Federal Funding (USDA)*	Total Funding	Matching Funds Required
	For Dairies That Have Not Prev	viously Receiv	ed AMMP or	DDRDP Funds	
ΑN	IMP Dairy Plus	,			
a)	Vermifiltration				
b)	Weeping wall (min of 2 cells)				
	Advanced solid-liquid separation assisted by				
	flocculants and/or bead filters	Up to /	Up to \$1.25		
d)	Advanced solid-liquid separation through	\$750,000	M (\$750	Up to \$2 M	NA
	centrifuge	φ/30,000	cow)	<b>(</b>	<b>\</b>
e)	Practices above (a, b, c, or d) AND subsurface				
	drip irrigation (SDI) using liquid manure				
f)	Practices above (a, b, c, or d) AND aerated				
	composting				
	RDP Dairy Plus				
	Post-digester vermifiltration				50.150
(d	Post-digester advanced solid-liquid separation	,	Up to \$1.25	<b>\</b>	50/50 match – up
Ι.	assisted by flocculants and/or bead filters	Up to \$1.6 M	M (\$750	Up to \$2.85 M	to \$1.6M (part of
(C)	Post-digester Advanced solid-liquid separation		cow)		DDRDP
	through centrifuge				requirement)
a)	Above practices (a, b, or c) AND subsurface				
	drip irrigation (SDI) using liquid manure digestate			-	
	For Dairies That are Currently Receiving,	or have <b>Previ</b> o	ously Received	d, AMMP or D	DRDP Funds
	RDP Dairy Plus for In Progress or Previous AMMP				
	Post-digester vermifiltration				EO/EO martala um
ы	Post-digester advanced solid-liquid separation		Up to \$1.25		50/50 match – up
۵۱	assisted by flocculants and/or bead filters Post-digester advanced solid-liquid separation	Up to \$1.0 M	M (\$750	Up to \$2.25 M	to \$1.0M (part of DDRDP
C)	through centrifuge	<b>`</b>	cow)	Y	requirement)
an	Above practices (a, b, or c) AND subsurface				requirement)
u,	drip irrigation (SDI) using liquid manure digestate				
Dai	ry Plus for In Progress or Previous AMMP**				
	Vermifiltration				
	Weeping wall (min of 2 cells)				
	Advanced solid-liquid separation assisted by				
-,	flocculants and/or bead filters		Up to \$1.25		
d)	Advanced solid-liquid separation through	NA	M (\$750	Up to \$1.25 M	50/50 match – up
,	centrifuge		cow)	)	to \$750k€
e)	Practices above (a, b, c, or d) AND subsurface				
	drip irrigation (SDI) using liquid manure				
f)	Practices above (a, b, c, or d) AND aerated				
	composting				
	iry Plus for In Progress or Previous DDRDP				
	Post-digester vermifiltration				
b)	Post-digester advanced solid-liquid separation		Up to \$1.25		
Ι.	assisted by flocculants and/or bead filters	NA	M (\$750	Up to \$1.25 M	50/50 match – up
(c)	Post-digester Advanced solid-liquid separation		cow)	V-1-1-1-1-1	to \$1.0M€
	through centrifuge				
d)	Above practices (a, b, or c) AND subsurface drip				
	irrigation (SDI) using liquid manure digestate				

### How to Apply



Applicants will be required to complete and submit their grant applications online using an electronic application submission platform. The application can be accessed at the Dairy Plus Program webpage (<a href="https://www.cdfa.ca.gov/oefi/dairyplus/">https://www.cdfa.ca.gov/oefi/dairyplus/</a>).

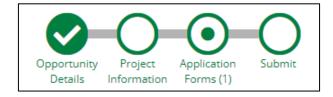


#### How to Apply



Application Forms:
general applicant
fields, AMMP/DDRDP (if
applicable) questions,
and Dairy Plus questions
- what appears is
conditional.

Example: If applying for a new 2024 AMMP AND Dairy Plus, select "Yes" for 2024 AMMP and "Yes" for Dairy Plus; if a previous AMMP recipient only applying for Dairy Plus, select "No" for 2024 AMMP and "Yes" for Dairy Plus



#### **Application Category**

Please select "Yes" or "No" for the questions below based on your application type, which will populate the remaining sections for you to complete.

- If you are applying for AMMP Only: select Yes for "Are you applying for AMMP?" and No for "Are you applying for Dairy Plus?"
- If you are applying for AMMP AND Dairy Plus: select Yes for "Are you applying for AMMP?" and Yes for "Are you applying for Dairy Plus?"
- If you are applying for **Dairy Plus Only** (this option is only for past AMMP recipients, where the Dairy Plus Program proposal is for the operation where the an AMMP project is currently in progress or has been successfully completed and closed out): select **No** for "Are you applying for AMMP?" and **Yes** for "Are you applying for Dairy Plus?"

Are you applying for 2024 AMMP? \* This field is required.

Select an item...

Are you applying for 2024 Dairy Plus? \* This field is required.

Select an item...

~

Save ✓ Mark as Complete

Save & Continue

# How to Apply

Are you applying for 2024 AMMP? \*



No Y	
Are you applying for 2024 Dairy Plus? * Yes  Application Category section: "Yes	es", applying for 2024 Dairy Plus
Dairy Plus Application Sections	
Please identify your Dairy Plus Program application type *  New project in conjunction with a 2024 AMMP application Dairy Plus application only, for an operation with an in-progress AMMP project Dairy Plus application only, for an operation with a past completed AMMP project	
Producer Name (awardee of Dairy Plus Program funds must be an individual dairy producer as registered currently or in the future	ure with the U.S. Department of Agriculture Field Service Agency – FSA) *
Fill in or drop-down type questions	s to answer
Note: only one 2024 Dairy Plus Program award per FSA registered entity/producer name. If multiple dairy operations un	nder one FSA-registered entity/producer name are selected, only one dairy operation will be awarded.
ranchers who are: Beginning; Socially Disadvantagal; Veterans, and Limited Resource. Small farms are generally those w	the producer incentive funding to serve small and historically underserved producers, including farmers or with less than \$350,000 in annual gross cash farm income. Demographic information is used by USDA for ey apply. Definitions for small and historically underserved producers can also be found in the Dairy Plus
Does the applicant identify as a small and/or served producer? * This field is required.  Select an item	
Section I - Project Description	Section II - Nitrogen and Salt Management and Water Quality Improvemen
Using the completed Project Description Template, Work Plan Template, and FSA Permission Form provide the following in	
Project Title for the Dairy Plus Program Project *	Complete the Nitrogen and Salt Management and Water Quality Improvements Template.
	Attachment C: Nitrogen and Salt Management and Water Quality Improvements Template (required; as PDF file)

Choose File

Places for attachment upload

#### Attachment Tab



#### Dairy Plus Program = 7 required attachments + 3 optional

- Attachment A (required): Project Description Template
  - Attachment A.1 (required): <u>Site Plan, project design documents, schematic diagrams, permitting, maintenance plans, etc.</u>
  - Attachment A.2 (required): <u>Signed FSA Permission Form</u>
- Attachment B (required): Work Plan Template
- Attachment C (required): <u>Nitrogen and Salt Management and Water Quality Improvements Template</u>

#### Attachment Tab



- Attachment D (required): Budget Worksheet Template
  - Attachment D.1 (optional): Bids, quotes, or estimates to support budget costs
- Attachment E (required): <u>Estimated GHG Emissions Reduction</u>
  - Attachment E.1 (optional): Explanation of Assumptions for GHG Calculations
  - Attachment E.2 (optional): Description of how proposed project will reduce GHGs beyond AMMP and DDRDP

# Attachment E: Estimated GHG Emissions Reduction





For **new 2024**, **in-progress**, **or previously completed AMMP projects** = Applicants must use the Calculator Tool for "Alternative Manure Management Program".



For new 2024, in-progress, or previously completed DDRDP projects = Applicants must use the Calculator Tool for the "Dairy Digesters".

#### **IMPORTANT:**

- Apps applying under the "**Dairy Plus for Previous or In Progress AMMP**" category must add the information of the previous or in progress AMMP grant in the <u>baseline</u>.
- Apps applying under the "Dairy Plus for Previous or In Progress DDRDP" category are required to submit two separate DDRDP Benefits Calculator Tools.
  - 1) The first one illustrates the current status and performance of the <u>already implemented/operational</u> dairy digester.
  - 2) The second DDRDP Benefits Calculator Tool should provide a comprehensive overview of their advanced manure management system, for the Dairy Plus project.

#### **Estimated GHG Emissions Reduction**



Benefits Calculator Tool available at http://www.arb.ca.gov/cci-resources

Email Benefits Calculator Tool questions to: GGRFProgram@arb.ca.gov



# **Scoring Criteria**



Categories	Max Points
Project Description and Work Plan	20
Nitrogen and Salt Management and Water Quality Improvements	10
Budget Worksheet	10
Estimated GHG Emission Reduction	10
Total	50

#### Helpful Tips

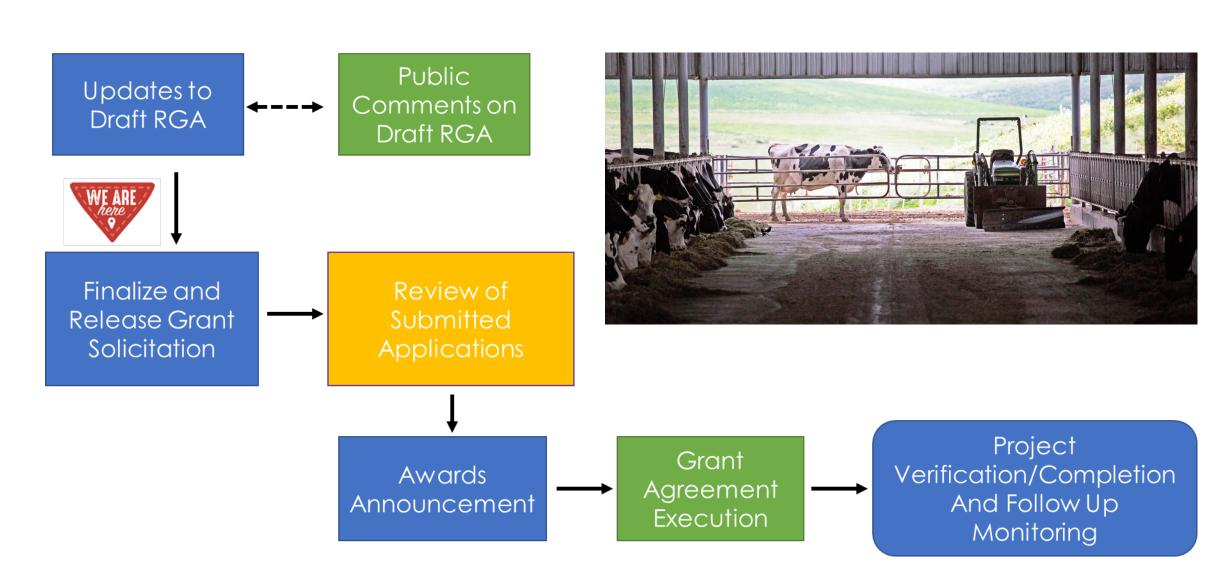


Some helpful tips for submitting Dairy Plus application:

- 1) Read through the Request for Grant Applications (RGA)
- 2) Follow all instructions in the RGA and Amplifund Portal
- 3) Provide specific details for your operation
- Save often (the Amplifund Portal will time out)
- 5) Make sure all attachments have been properly uploaded

#### **CDFA Grant Solicitation Process**





#### 2024 Dairy Plus Program Timeline\*



ltem	Timeframe	
Release of Solicitation	July 23, 2024	
CDFA Application Workshops	August 7, 2024 & August 13, 2024	
CDQAP-CDRF Workshop	August 29, 2024	
Grant Applications Due	October 18, 2024	
Review Process	November 2024 – February 2025*	
Announce Award Funding	March 2025*	
Project Term Begins	September 2025*	

<sup>\*</sup> Dates subject to change

#### Dairy Plus Program Technical Assistance



For direction in identifying available technical assistance resources appropriate for your project type and region, please reach out to:

**Denise Mullinax**, CDRF, Executive Director – CDQAP, Assistant

Director

Phone: 209-585-6744

Email: cdqap@cdrf.org (please include Dairy Plus TA in the

subject line)



CDRF Dairy Plus Program Webpage (<a href="https://cdrf.org/climate-smart-commodities-grant-info/">https://cdrf.org/climate-smart-commodities-grant-info/</a>)

# Questions and Answers (Q & A)



- Email questions to: cdfa.oefi\_DairyPlus@cdfa.ca.gov
   (please add "2024 Dairy Plus Program Question" in the email "Subject" line for questions about this program)
- Questions & Answers will be posted to the Dairy Plus website:

https://www.cdfa.ca.gov/oefi/dairyplus

## Questions and Answers (Q & A)



Questions Received by	Responses Posted by
August 15, 2024	August 27, 2024
September 4, 2024	September 12, 2024
September 25, 2024	October 3, 2024

• Email questions to: cdfa.oefi\_DairyPlus@cdfa.ca.gov (please add "2024 Dairy Plus Program Question" in the email "Subject" line for questions about this program)



California Department of Food and Agriculture | Office of Environmental Farming and Innovation

# 2024 Dairy Digester Research and Development Program

Application Assistance Workshop August 7, 2024









California Department of Food and Agriculture
Office of Environmental Farming and Innovation

# 2024 Dairy Digester Research and Development Program



Application Assistance Workshop 1

August 7, 2024





#### 2024 Outline

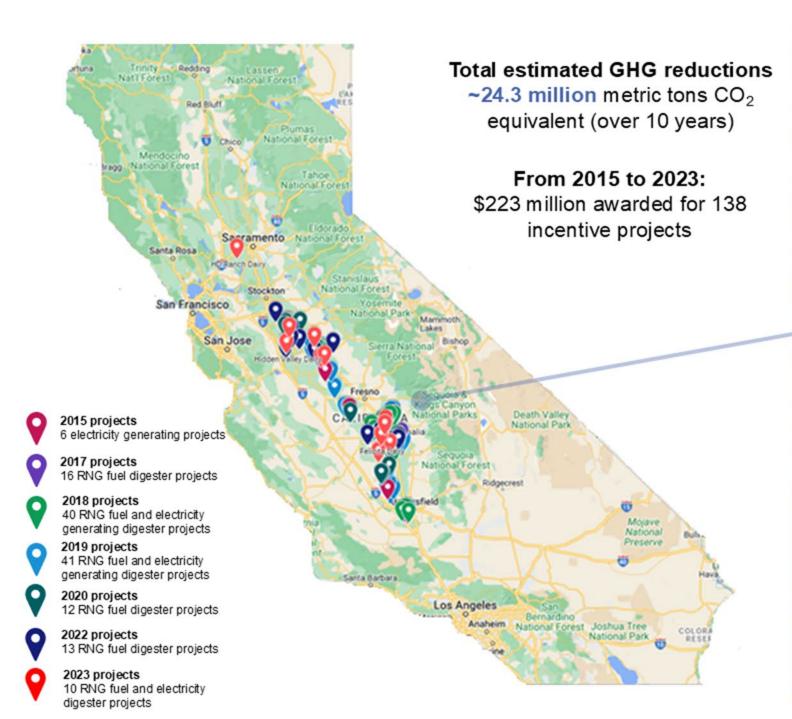
- CDFA's Dairy Digester Research and Development Program
  - Program Overview
- Request for Grant Applications
  - Grant Funding and Duration
  - Solicitation Process and Timeline
  - Eligibility and Exclusions
  - Program Requirements
  - How to Apply and Application Sections
  - Community Outreach Requirements
  - Scoring Criteria
- CARB/DDRDP Benefits Calculator Tool
- Questions

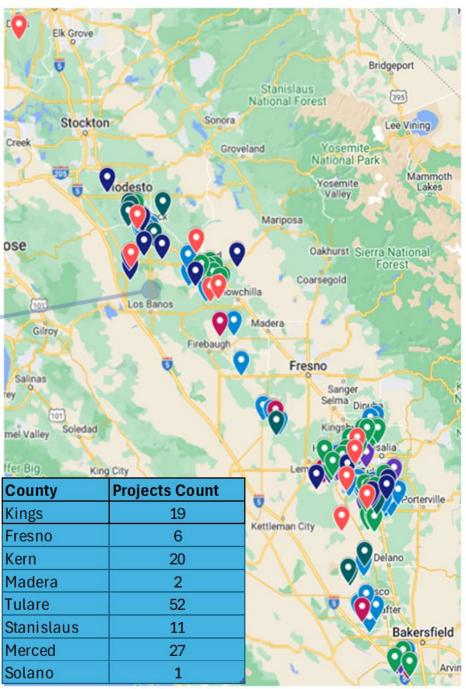


#### **Program Overview**

- What is the Dairy Digester Research and Development Program (DDRDP)?
  - Competitive grant program administrated by CDFA
  - Provide awards funds to California dairy operations and digester developers for implementing anaerobic dairy digesters
  - Results in manure methane emission reductions and minimizes or mitigates criteria pollutants
- Since 2014, 7 rounds completed
  - 138 incentive projects
  - Awarded ~\$223 million
  - Matching Funds ~\$481 million
  - GHG emission reductions- 2.43 MMTCO2e reduced/year









#### **Grant Funding and Duration**

- Current 2024 DDRDP funding source-
  - FY 24-25 GGRF Funds \$17 million of transferred, split by DDRDP and AMMP
- Contingent: \$7 million proposed (split between AMMP and DDRDP) funds proposed for next FY
- Award amount \$8 million available in 2024 for awards
- Up to \$1.6 million, 50% of matching is required
- Maximum Project Duration 30 months
- Anticipated project start date- June 1, 2025







#### **Grant Funding and Duration- Continuation**

- Note: Previous AMMP recipients are eligible to apply for DDRDP to further boost their manure methane emission reductions
- Applicants who have previously accepted and successfully implemented an AMMP project (i.e., have a closed-out, completed, & operational) are eligible up to \$1.0 million/project through DDRDP
- Proposed projects cannot involve the replacement or discontinuation of the previously implemented AMMP practice/equipment
- Any previous AMMP recipient may be eligible to apply regardless of the past practice implemented, but for certain practices (i.e., compost bedded pack barn, conversion from flush to scrape, pasture-based management), the digester must be addressing the portion of the herd not already covered by the previous AMMP project



#### **Solicitation Timeline**

2024 DDRDP Timeline*		
Events	Time Frame	
Application Period Opens	July 23, 2024	
CDFA Application Assistance Workshops	August 7 and August 13, 2024	
Q&A Rounds x 3	Throughout application period	
Grant Applications Due	October 18, 2024	
Application Review Process	October 2024 – February 2025	
Award Announcement	March, 2025	
Anticipated Project Start	June 1, 2025	



#### Summary of Changes from 2023

#### Request for Grant Applications (RGA)

- Notification & feedback- increase; 60 → 90 days
- CEQA & applicable permitting increase; 6 months of grant execution → 18 months

#### DDRDP Benefits Calculator Tool

- Linear generator (primary and secondary Biogas Destruction Device)
- Effluent pond with centrifuge-based solid separation
- Transport Vehicle Fuel Type- added "Battery Electric"

#### Online Application (Amplifund)

 More questions on applicant name/organization, and supporting materials

#### Related Opportunities

- Availability of Dairy Plus- eligible applicants/project types now include in-progress DDRDP in addition to past completed DDRDP
- Past AMMP can apply for DDRDP



#### **Request for Grant Applications**

Released Date: July 23, 2024 Applications Due: October 18, 2024, by 5:00 P.M. PT Late submissions will not be accepted.





California Department of Food and Agriculture
Office of Environmental Farming and Innovation
1220 N Street
Sacramento, CA 95814
cdfa.oefi ddrdp tech@cdfa.ca.gov

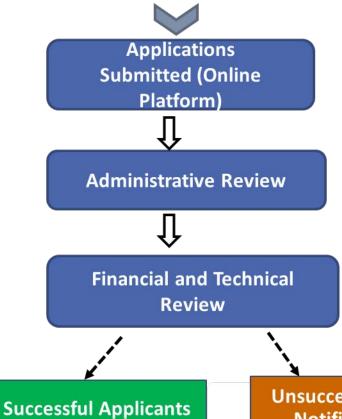
# Solicitation and Review Process Application Do





#### **Application Period**

July 23 – October 18, 2024



Project Begins

Grant agreement executed

Successful App
Notified

Unsuccessful Applicants Notified, Feedback Provided (within 90 days)



#### Eligibility

- The project site must be located in commercial California dairy operations
- Multiple apps are allowed, but each app must be an individual digester at a unique site.
- New Submitting Organizations= additional 5 points.
- Existing defunct (minimum of 12 months) and non-functional digesters are eligible.
- Once awarded, the project may not:
  - Change/alter biogas end-use during the project term.
  - Change the herd size beyond the limits of existing permits at the time of application during the project term.
  - Change ownership and/or partnership entities of the dairy. Should the grantee sell the awarded dairy operation, all grant monies shall return to CDFA.



#### **Exclusions**

- Upgrades to existing, functional dairy digesters to boost emission reductions and energy production.
- Projects that propose to switch existing management practices to those that increase baseline GHG emissions (e.g., from dry scrape to flush lagoon systems).
- Duplicate equipment/activities that will receive funding from the California Public Utilities Commission (CPUC) pilot project (e.g., interconnection costs).
- Dairy operations previously received a DDRDP grant and successfully completed a project.
- Previous DDRDP recipients with incomplete, expired, or failed projects may not reapply for 3 yrs after the time the project was closed out.



Biogas conditioning and clean-up costs are allowable under the 2024 DDRDP



#### **Program Requirements**

- Methane used for energy or transportation fuel production → flaring as sole biogas end-use is not eligible
  - To be used on-site or injected into the pipeline, or for energy utilization onsite or at a neighboring facility.
- At least 80% of feedstock (dry weight) for anaerobic digestion must be manure from dairy livestock.
- Use of commercially available technology with a proven operating history for the capture/destruction of methane
- CEQA compliance is anticipated within 18 months of the executed grant agreement.
- Project partners must not have filed for bankruptcy in the last 5 years.
- Adhere to allowable/unallowable cost guidance.

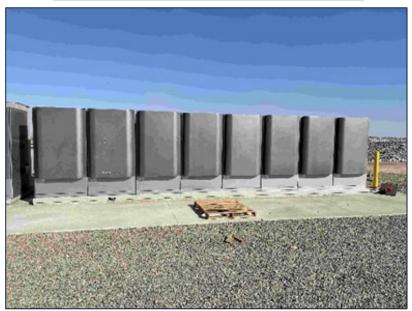


## Program Requirements- continuation

- Digester design, construction, and operation must improve air and water quality protection.
  - Use of double-lined ponds consistent with Tier 1 specification of Dairy General Order (R5-2013-0122), above-ground tanks, and below-grade tanks constructed of concrete/suitable impermeable and corrosive-resistant material.
  - For Electricity Projects= total NOx emissions must be < 0.50 lb/MWh.</li>
- Projects may propose to include nutrient management technologies in conjunction with methane reduction technologies.
  - However, the implementation of standalone nutrient management technology to an existing digester

    Not eligible.
- Quarterly progress and post-project final reporting.







## **How to Apply**

#### Applicant portal link available on DDRDP webpage:

https://www.gotomygrants.com/Public/Opportunities/Details/4d18dfc8-2364-4759-b652-cecdc7d4d44d

Log In

2024 Dairy Di	gester Research and Development Program  Print Help Download	
Opportunity Information		
Title	2024 Dairy Digester Research and Development Program	
Description	The California Department of Food and Agriculture's (CDFA) Dairy Digester Research and Development Program (DDRDP), awards competitive grants to California dairy operations and digester developers for the implementation of dairy digesters that result in long-term methane emission reductions on California dairies and minimize or mitigate adverse environmental impacts.	
Awarding Agency Name	California Department of Food and Agriculture	
Agency Contact Name	Dairy Digester Research and Development Program	
Agency Contact Email	cdfa.oefi_ddrdp_tech@cdfa.ca.gov	
Fund Activity Categories	Agriculture, Energy	
Departments	Office of Environmental Farming and Innovation	
Public Link	https://www.gotomygrants.com/Public/Opportunities/Details/4d18dfc8-2364-4759-b652-cecdc7d4d44d	
Is Published	Yes	
Funding Information		
Total Program Funding	\$8,000,000.00	

AmpliFund <sup>≓</sup>	
Login	
Email	The Email field is required
Password	Show The Password field is required
	☐ Remember my email Forgot your password?
	▶ Log in with SSO
	Register Login

Amplifund User Guide



## **How to Apply- Continuation**

2024 Dairy Digester Research and Development Program





- Project Information: basic information page in all Amplifund grant applications
- Application Forms: the main DDRDP (+/- Dairy Plus) application
  - Applicant and project location information common to all applicants
  - Six main DDRDP sections to complete includes both within-application questions and places for attachments

RGA "Grant Application
Questions and
Attachments" section;
2024 DDRDP
Questionnaire Preview



## **How to Apply- Continuation**

#### **NOTE**

- One entity can create an Amplifund account (one email associated with an entity's account) and be able to submit multiple applications under one account
- Each applicant under one entity is not required to create multiple applicant email addresses for application submission.

#### Multiple Applications

Your organization has the following application associated with this opportunity.

To view the application, select the Application Name. To create another application for this opportunity, select "Start New Application."

<u>Application Name</u>

bdjshkj

<u>Status</u>

Submitted

Start New Application



## **Questionnaire Tab**

- 1. Applicant Information
- 2. Additional Applicant Information
- 3. Project Information
- 4. Application Category
- 5. DDRDP Application Sections
  - Digester Project Plan and Long-Term Viability
  - Project Budget and Financials
  - Estimated GHG Emissions Reduction
  - Project Readiness and Permitting Status
  - Environmental Performance
  - Community Impact
- 6. Evaluation of Benefits to Priority Populations



## **Attachments Tab**

#### Section I- Digester Project Plan and Long-Term Viability

Attachment 1: <u>Project Narrative Template (required; as a Microsoft Word File)</u>

- 1.1: Site Plan, project design documents, cluster maps, schematic diagrams, etc. (required; as a single PDF File)
- 1.2: Resumes, team commitment letters, etc. (required; as a single PDF File)
- 1.3: Copy of Deed and/or Lease Agreement (if applicable; as a single PDF File)
- 1.4: For centralized projects, letter(s) of commitment from participating operations (if applicable; as a single PDF File)

Attachment 2: <u>Work Plan Template</u> (required; <u>as a Microsoft Word File</u>)



## **Attachments Tab- Continuation**

#### Section II- Project Budget and Financials

Attachment 3: <u>Budget Worksheet Template</u> (required; <u>as a Microsoft Excel File</u>)

 3.1: Bids, quotes, or estimates to support budget costs (if applicable; as a single PDF File)

Attachment 4: <u>Financials</u> (required; as a PDF File)

Provide documentation regarding the organization's financial strength.

**Note:** Project partners must not have filed for bankruptcy in the <u>past five years</u>.



## **Attachments Tab- Continuation**

#### Section III- Estimated GHG Emissions Reduction

Attachment 5: <u>DDRDP Benefits Calculator Tool</u> (required; as a locked Microsoft Excel File)

 5.1: Explanation of assumptions of GHG calculations (if applicable; as a single PDF File)

#### Section IV- Project Readiness and Permitting Status

Attachment 6: <u>Project Readiness Template</u> (required; as a Microsoft Word File)

- 6.1: Additional Permits Documents (if applicable; as a single PDF file)
- 6.2: Status of interconnection, offtake agreements; power purchase agreements etc (if applicable; as a single PDF File)



### **Attachments Tab- Continuation**

#### Section V- Environmental Performance

Attachment 7: <u>Environmental Performance Template</u> (required; as a Microsoft Word File)

 7.1: Support the project's environmental performance claims (if applicable; as a single PDF File)

#### **Section VI- Community Impact**

Attachment 8a: Community Impact Template (required; as a PDF File)

Attachment 8b: <u>CARB Community Engagement Questionnaire</u> (required; fillable form)

- 8c: Up to three letters of support (required; as a single PDF File)
- 8d: Explanation of Priority Population Benefits (required; as a single PDF File)



## Community Outreach Requirements

- Community outreach guidelines on community engagement strategies are available on the DDRDP webpage (<a href="https://www.cdfa.ca.gov/oefi/ddrdp/">https://www.cdfa.ca.gov/oefi/ddrdp/</a>).
- Must occur a maximum of 12 months prior to the application submission deadline.
- In-person community meetings are required.
- Additional outreach through social media is acceptable; however, applicants must provide additional metrics.
- Comprehensive records of the meetings held for individual projects or for each specific project in a cluster should be provided.
  - Method of notification, dates/times, location, attendance, meeting notes or follow-up reports, translation service, childcare, meals provided, and video recordings.
- Links for accessing meeting recordings can be provided in the "Community Impact template".





## **Scoring Criteria**

- Details on what is considered for each section in RGA: Appendix E: Detailed Scoring Criteria
- Scoring overview- 100 Points Total
- CDFA will select projects based on the following criteria.

Sections	Max Points
GHG Emission Reductions	35
Project Plan & Long-Term Viability	20
Environmental Performance	15
Budget and Financials	10
Project Readiness	10
Community Impact	10
Total	100
New Submitting Organizations	<mark>+5</mark>

#### Appendix E: Detailed Scoring Criteria

SCORING CRITERIA	MAX POINTS
DIGESTER PROJECT PLAN AND LONG-TERM VIABILITY	20
Addressed all requirements of the feasibility section and Work Plan including, but not limited to:  a. Provided details of the technology (or technologies) to be employed in digester facility and for subsequent utilization of captured methane, including but not limited to PPA agreement in place, or steps needed or taken to achieve PPA and plan for RNG pipelline injection or other details of utilization of captured methane.  b. Provide tonnes of material digested and details of materials other than dairy manure if included in the project.  c. Technologies affiliated with the digester and biogas cleanup have a track record of success and are commercially available.  d. Documentation that demonstrates control of the dairy site provided (if applicable).  e. Guarantees that an adequate amount of feedstock will be provided to make the project feasible through a signed contract, letter of intent, or other documentation which showed the feedstock will be available by the time the project is operational.  f. Specific list of all tasks needed to complete the project using the	20
Work Plan template provided. g. Detailed Work Plan clearly and concisely described the tasks and activities required to achieve the goals/objectives in the proposed project narrative. h. Included major work items (including but not limited to permitting,	
site planning, engineering, construction, equipment, field supervision, health and safety requirements, testing, and bonds)  i. Reasonable estimate of projected timeline for the project to be operating at full capacity included.	
<ul> <li>j. Demonstrated that all tasks are logical and achievable within the grant term, and with available resources. Identified measurable targets that must be met to accomplish the project within the grant timeline, with specific dates for each target.</li> <li>k. Included an evaluation component to measure the success of the</li> </ul>	

# California Department of Food and Agriculture

## **CARB/DDRDP Benefits Calculator Tool**

- Applicants must use the California Air Resource Board's DDRDP Benefits Calculator Tool to estimate avoided methane emissions from anaerobic manure decomposition
- Email QM/DDRDP Benefits Calculator Tool questions to:
  - GGRFProgram@arb.ca.gov

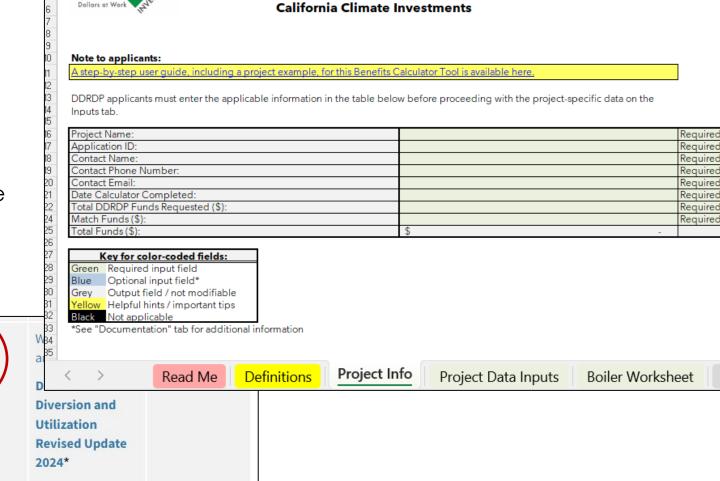
**Dairy Digesters** 

 The Benefits Calculator Tool is available at: www.arb.ca.gov/cci-resources

Dairy Digester Research and

Development Program QM

Calculator Tool



California Air Resources Board

Benefits Calculator Tool for the Dairy Digester Research and Development Program



## Questions and Answers (Q & A)

Questions Received by:	Responses Posted by:
August 15, 2024	August 22, 2024
September 5, 2024	September 12, 2024
September 26, 2024	October 3, 2024

- Email questions to: cdfa.oefi\_ddrdp\_tech@cdfa.ca.gov (please add DDRDP in the email "Subject" line for questions to this program)
- Questions & Answers will be posted to DDRDP website: <a href="https://www.cdfa.ca.gov/oefi/ddrdp/">https://www.cdfa.ca.gov/oefi/ddrdp/</a>

## Happy 10<sup>th</sup> Dairy Digester Research and Development Program (DDRDP)









## Thank you!

Program Contact: cdfa.oefi\_ddrdp\_tech@cdfa.ca.gov

DDRDP website: <a href="https://www.cdfa.ca.gov/oefi/ddrdp/">https://www.cdfa.ca.gov/oefi/ddrdp/</a>

Check the "2020 DDRDP Expanding Access and Enhancing Competitiveness Workshop Presentation"

**Email Notifications:** 

https://www.cdfa.ca.gov/subscriptions/MailChimp-signup.html

Thank you for Joining!

