2018 State Water Efficiency and Enhancement Program (SWEEP)

2018 State Water Efficiency and Enhancement Program is funded by the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018

Request for Grant Applications

Released December 28, 2018

Grant Applications Due:
By 5:00 p.m. PT on March 8, March 13, 2019
No late submissions accepted.

California Department of Food and Agriculture
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Background and Purpose
The California Department of Food and Agriculture (CDFA) is pleased to announce a competitive grant application process for the 2018 State Water Efficiency and Enhancement Program (SWEEP) Round 1.

The 2018 SWEEP funding arises from the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Sec 3. Division 45, Chapter 11.6. Section 80147 (b) of the Public Resources Code), which allocated $20 million to CDFA to provide grant funding directly to California agricultural operations to incentivize activities that reduce on-farm water use and reduce greenhouse gas (GHG) emissions from irrigation and water pumping systems on California agriculture operations. The program’s objective is to provide financial incentives for California agricultural operations to invest in irrigation systems that save water and reduce GHG emissions.

Funding and Duration
- The 2018 SWEEP will disperse up to $9.5 million to California agricultural operations investing in irrigation systems that reduce GHG emissions and save water.
- The maximum grant award is $100,000.
- The maximum grant duration is 18 months.
- Costs incurred before September 1, 2019 will not be reimbursed and project must be complete and operational no later than March 1, 2021.
- CDFA reserves the right to offer an award different than the amount requested.

Funding Priority
Funding for SWEEP will be prioritized as follows:

1. Benefits to Severely Disadvantaged Communities (SDACs) - The SWEEP 2018 funding source, Proposition 68, requires that CDFA award twenty percent of the appropriated $20 million to serve severely disadvantaged communities. A “severely disadvantaged community” is defined as a community with a median household income less than 60 percent of the statewide average. CDFA must prioritize funding to projects that meet this criterion and therefore, these projects will receive priority funding if they meet a minimum score of 30 points during the technical review. To qualify as serving severely disadvantaged communities, projects must be:
   a) Located within a severely disadvantaged community as identified using the Community Fact Finder developed by the Department of Parks and Recreation available at: http://www.parksforcalifornia.org/communities.
   b) The project must also provide benefits to the community such as:
      - Air quality benefits through the reduction of diesel fuel combustion and/or energy efficiency improvements that result in a reduction of criteria air pollutants. This benefit will be determined by the results of the ARB GHG Calculator Tool
      - Water conservation in a critically over-drafted groundwater basin as determined by the project design and the results of the SWEEP Irrigation Water Savings Assessment Tool.
2. **Socially Disadvantaged Farmers and Ranchers** - CDFA will ensure the inclusion of Socially Disadvantaged Farmers and Ranchers in all programs, including SWEEP. Farmer and ranchers who identify as belonging to a socially disadvantaged group will receive priority for funding if they meet a minimum score of 30 points during the technical review with or after funding to projects in SDACs as defined above. A socially disadvantaged group is defined by the 2017 Farmer Equity Act (AB 1348) as a group whose members have been subjected to racial, ethnic, or gender prejudice because of their identity as members of a group without regard to their individual qualities. These groups include all of the following:

- African Americans
- Native Indians
- Alaskan Natives
- Hispanics
- Asian Americans
- Native Hawaiians and Pacific Islanders

**Technical Assistance Resources**

In addition to CDFA’s informational grant application workshops technical assistance will be provided by California academic research institutions, Resource Conservation Districts, or non-profit organizations. These technical assistance resources provide an opportunity for SWEEP applicants to obtain assistance with the development and/or submission of a SWEEP grant application. Applicants will have access to a computer and internet, and an irrigation specialist will be available to provide guidance on completing the required GHG reductions and water savings calculations and answer technical questions. Technical assistance will be provided free of cost to potential applicants. These providers are contracted with CDFA and may not charge any additional fees or subsequent commitments (financial or otherwise) to help submit applications. A list of CDFA-contracted technical assistance resources will be available on the SWEEP webpage during the application period.

**Eligibility and Exclusions**

- California farmers, ranchers and Federal and California Recognized Native American Indian Tribes are eligible to apply.
- The irrigation project must be on a California agricultural operation.
  - For the purposes of this program, an agricultural operation is defined as row, vineyard, field and tree crops, commercial nurseries, nursery stock production, and greenhouse operations producing food crops or flowers as defined in Food and Agricultural Code section 77911.
  - Academic university research institutions and state governmental organizations are not eligible for funding.
- An agricultural operation cannot submit more than one application per unique tax identification number.
- An agricultural operation cannot receive a total cumulative SWEEP award amount of more than $600,000.
- Applications cannot build upon any previously funded SWEEP projects directly affecting the same Assessor’s Parcel Numbers (APNs). However, applicants are encouraged to apply for a new project with different APNs.
• An applicant must be at least 18 years old.
• Projects must reduce on-farm water use and reduce GHG emissions.
• SWEEP funding cannot be combined with United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS) Environmental Quality Incentive Program (EQIP) financial assistance, meaning that applicants may not accept funding from both entities for the same project components and Accessor’s Parcel Number (APN).

SWEEP grant funds cannot be used to:
• Expand existing agricultural operations (i.e., additional new acreage cannot be converted to farmland)
• Install new groundwater wells or increase well depth
• Test new technology or perform research
• Pay for engineering costs associated with the project development and planning
• Lease weather, soil and irrigation water-based sensors for irrigation scheduling
• Purchase tools and equipment with a useful life of less than two years

See page 8 for information on allowable and unallowable costs.

Timeline
CDFA will conduct informational application workshops for the 2018 SWEEP grant solicitation process and program requirements. For CDFA grant application workshop schedule and locations, visit the SWEEP website at www.cdfa.ca.gov/oefi/SWEEP.

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Request for Grant Applications (RGA)</td>
<td>December 28, 2018</td>
</tr>
<tr>
<td>CDFA grant application workshops and webinar</td>
<td>January 2019</td>
</tr>
<tr>
<td>Grant applications due</td>
<td>March 8, 2019</td>
</tr>
<tr>
<td>Announce and award funding</td>
<td>Summer 2019</td>
</tr>
</tbody>
</table>

Project Types
CDFA has identified the following project types that address water conservation and GHG emission reductions. Applicants should consider incorporating several projects types listed below to achieve both water conservation and GHG emission reductions.

Water Savings

Weather, Soil, or Plant Based Sensors for Irrigation Scheduling
Examples include soil moisture or plant sensors (NRCS Conservation Practice Standard 449 may apply) with electronic data output, the use of electronic weather station(s) linked to irrigation controller to ensure efficient irrigation scheduling or the use of evapotranspiration (ET) based irrigation scheduling, such as the California Irrigation Management Information System (CIMIS) to optimize water use efficiency for crops. Telemetry components that allow the electronic communication between technology devices are eligible for funding through SWEEP. For use of ET based irrigation scheduling, documents sufficient to evidence water deliveries can be made on a consistent basis to accommodate that scheduling.

Micro-Irrigation or Drip Systems
The conversion to micro-irrigation or drip systems, including sub-surface drip systems from flood irrigation. Project designs should follow NRCS Conservation Practice Standard 441 specifications. The
applicants currently utilizing surface water (e.g. canal or river water) to flood irrigate crops are encouraged to maintain flood irrigation infrastructure along with the proposed efficient micro/ drip irrigation system(s) to facilitate ground water recharge when surface water is available for recharge.

Greenhouse Gas Emission Reductions

Fuel Conversion
Pump fuel conversion resulting in reduction of GHG emissions (for example replacing a diesel pump with an electric pump. Renewable energy, including solar, installations that power irrigation systems are eligible for SWEEP funding and can further reduce GHG emissions.

Improved Energy Efficiency of Pumps
Examples include retrofitting or replacing pumps. NRCS Conservation Practice Standard 372 or 533 may apply.

Low Pressure Systems
Use of low-pressure irrigation systems to reduce pumping and energy use. For example, the conversion of a high-pressure sprinkler system to a low pressure micro-irrigation system or lower pressure sprinkler system. Project designs should follow NRCS Conservation Practice Standards 441 or 442 specifications.

Variable Frequency Drives
Use of Variable Frequency Drives to reduce energy use and match pump flow to load requirements. Project designs should follow NRCS Conservation Practice Standard 533.

Reduced Pumping
For example, improved irrigation scheduling may lead to reduced pump operation times.

Other Management Practices
CDFA supports innovative projects and recognizes there is variability in irrigation systems throughout California. For this reason, applicants may propose projects that do not fit into the above project types as long as water savings can be calculated and GHG reductions can be quantified using the GHG Quantification Methodology.

Program Requirements
An agricultural operation can only submit one grant application using a unique tax identification number. If an agricultural operation does not have a unique tax identification number, that operation should only use the last four digits of their social security number (e.g., 000-00-1234) as their unique business identification number in their grant application. An agricultural operation must use the operation’s legal business name and associated tax identification number in the application. The business name provided in the application is the entity to which CDFA will extend a Grant Agreement if the project is selected for an award. Sole proprietors must be 18 years of age or older. See page 12 for details regarding the Award Process.

Applicants must include flow meters in their proposed project or demonstrate actual water use will be measured with existing flow meters. See page 5 for more specifics on project design requirements.

The California Air Resources Board (ARB) has developed a GHG quantification methodology for use in estimating proposed projects’ GHG reductions. This methodology includes a GHG Calculator Tool.
intended to assist applicants in determining GHG reductions from estimated on-farm energy savings as a result of project implementation.

Applicants are required to use and submit the ARB GHG Calculator Tool referred to in Section B of the California Air Resources Quantification Methodology for SWEEP, which is available at: https://www.cdfa.ca.gov/oefi/SWEEP/docs/GHG_QuantificationMethodology.pdf. To complete the required calculator, applicants will need to attach a pump efficiency test for all existing irrigation pumps impacted by the proposed project.

If selected for an award, execution of the Grant Agreement is conditional upon applicants agreeing to the following program requirements:

- Pre-Project consultation conducted by a CDFA Environmental Scientist to confirm project information and discuss implementation plans. During the pre-project consultation the awardee will provide an assessor’s map and/or aerial map of impacted acreage to verify the location and acreage of the project;
- Post-project verification site visit conducted by a CDFA Environmental Scientist, or in partnership with a local RCD, to evaluate the completed project;
- Post-project quantification conducted by a CDFA Environmental Scientist or a third-party representative to evaluate project outcomes;
- Expectation to use and maintain the installed system for a minimum of 10 years. See page 13 for more details regarding project implementation requirements.

**Grant Application Process**

**How to Apply**

CDFA uses an online application platform to receive SWEEP applications. The application can be accessed at the SWEEP webpage: www.cdfa.ca.gov/oefi/sweep. Applicants must create a user account to submit a grant application.

Prior to completing the online application questionnaire, applicants are encouraged to gather all required information using Appendix A: Grant Application Checklist and Appendix B: Preview of Grant Application Questions to facilitate effective and timely submission of the grant application. Applicants are required to submit the following attachments:

- Project design;
- Completed Budget Worksheet:
  - Solar system quote if the applicant is proposing a solar installation (see page 7 for more details);
- Completed SWEEP Irrigation Water Savings Assessment Tool;
- Completed ARB GHG Calculator Tool;
- Twelve consecutive months of baseline GHG emission documentation for any pumps that are impacted by the project (e.g., fuel receipts or utility bills);
- Pump efficiency tests and pump specification documents as required by the ARB Quantification Methodology.

**Project Design**

Applicants are required to submit a project design for the proposed irrigation system. All project design costs will be at the expense of the agriculture operation.
Project designs must include the following:

- Labeled Assessors Parcel Numbers (APNs);
- Detailed schematic of the locations of proposed or improved infrastructure and technology including irrigation piping, reservoirs, pumps, and sensors;
- Pertinent agronomic information, such as the crop and water distribution uniformity value of the irrigation system;
- Location, engineering and energy output specifications of any proposed renewable energy installations;
- Holistic project overview using aerial imagery software (e.g., online or electronic mapping tools);
- Actual water use measurement through existing flow meters or flow meters acquired through the project.

**Water and Energy Use Documentation**

Applicants are required to submit water and energy use supporting documentation to substantiate water savings and GHG reductions calculations in the application. Grant applications that do not include the required types of water and energy use documentation will be disqualified during the administrative review process.

Specific requirements pertaining to water and GHG documentation are specified below.

**Water Use Documentation**

*SWEEP Irrigation Water Savings Assessment Tool (Microsoft Excel Workbook)*

Applicants must use the *SWEEP Irrigation Water Savings Assessment Tool* to demonstrate baseline water use and projected water savings estimates.

Applicants must complete both the “before” tab of the calculator to estimate baseline water use on the field with the current crop and irrigation practice and the “after” tab to estimate the projected water savings after project installation. The estimated water savings will be shown on the “Estimated Water Savings” tab of the calculator.

**Greenhouse Gas Emission Documentation**

To determine the impact of the proposed project on GHG emissions, applicants **must** follow the California Air Resources Board (ARB) approved *GHG Quantification Methodology*. This methodology utilizes a GHG Calculator Tool developed by ARB to estimate GHG emission reductions from changes in fuel use.

The Quantification Methodology can be found at:  
https://www.cdfa.ca.gov/oefi/SWEEP/docs/GHG_QuantificationMethodology.pdf

*ARB GHG Calculator Tool (Microsoft Excel workbook)*

Applicants are required to complete and attach the *ARB GHG Calculator Tool*. Applicants must use energy records from 2017 or 2018 and other on-farm specifications (e.g., pump tests) to complete the calculator.

*Note that the estimated water savings from the SWEEP Water Savings Assessment Tool is a required input to the ARB GHG Calculator Tool.*
Supporting Documentation for GHG Calculations

Supporting documentation submitted along with the calculator must be sufficient to allow for reviewers to replicate the calculations. Applicants must provide an explanation of inputs used in the calculator in their application.

Applicants are required to attach the following supporting documents:

- Utility bills, actual fuel receipts, and/or field operational logs covering the previous growing year (12 months; January to December);
  - In situations where the project involves crop rotation, up to three years of supporting documents may be provided to substantiate a representative baseline of energy use from pumping.
  - Documents must capture actual, not estimated or modelled, energy use data (e.g., gallons, kWh, etc.).
  - Documents must indicate a specific time period (e.g., months/dates) for the on-farm energy use. For months with no on-farm energy use, indicate no usage for those months during the growing season.
  - Field operational logs are defined as on-farm data complied during a growing season and maintained as a common business practice by the agricultural operation to capture an actual time period (e.g., months and dates) of on-farm energy use values (e.g., gallons, kWh, etc.). Documents that provide estimates are not considered field operational logs.

- Pump and motor specifications for proposed pumps;

- Pump tests for existing pump(s) related to the project.

Applicants will be required to describe how the baseline GHG calculation value is supported by the on-farm energy documentation attached to their application. A response must be provided in the grant application explaining how the GHG documentation directly relates to the irrigation system.

Budget Worksheet (Microsoft Excel workbook)

Applicants are required to download and complete a Budget Worksheet from the CDFA SWEEP website. The Budget Worksheet includes a breakdown of grant funds budgeted for each of the categories described below and itemization of all costs included in the proposed project. The Budget Worksheet must be attached in Microsoft Excel format and be consistent with the project design. Failure to submit the required Budget Worksheet, including submission of an alternate template/file type, may result in disqualification.

Applicants should use the USDA, NRCS payment schedules as a guide, to the extent feasible, to determine reasonable project costs. See Appendix C USDA NRCS Payment Schedule for an abridged USDA, NRCS Payment Schedule for many project components eligible for SWEEP funding.

If the project involves the installation of a solar energy system, the applicant must submit a quote to verify the solar system capacity (kW). The quote must also itemize any tax incentives or rebates that the applicant will receive from the installation.

Budget Cost Categories:

A. Supplies
   - Itemize the estimated cost of materials by providing a description and quantity to be purchased.
   - Supplies include all consumable materials with an acquisition cost less than $5,000 per unit (e.g., pipes, tubing). Supplies must be used exclusively for the project.

B. Equipment
Itemize the estimated cost for any equipment necessary to carry out the project by providing a description and quantity to be purchased. Equipment is an article of nonexpendable, tangible personal property with a useful life of more than two years and an acquisition cost which equals or exceeds $5,000 per unit (e.g., solar panels, irrigation pumps). Equipment must have a useful life of two years or more.

C. Labor
Labor costs cannot exceed 25% of the total SWEEP grant request. Labor costs in excess of 25% of the total SWEEP grant request must be covered by cost share. Estimate the cost for any work on the project that will be performed by individuals associated with a contractor. Provide a brief description of services and the cost/hour necessary for installation (e.g., labor for electrician, concrete work).

D. Other
Itemize the estimated cost of any other allowable expenses not covered in the previous budget categories necessary for project implementation. Project cost typically listed under this category include, but are not limited to, permits and equipment rental.

Allowable Costs
Project costs must be itemized and clearly support installation of irrigation systems, including supplies, equipment, labor, and any other allowable cost necessary for project implementation. Project cost must be reasonable and consistent with cost paid for equivalent work on non-grant funded activities or for comparable work in the labor market.

Examples of allowable costs include:

- Installation of photovoltaic panels to power irrigation systems
- All components of micro-irrigation systems
- Sensor hardware and telemetry
- Software associated with sensors and weather stations
- Flow meters
- Permits

Unallowable Costs
Unallowable costs, include, but are not limited to:

- Project design costs (e.g., engineering)
- Costs associated with technical assistance including drive time and fuel cost
- Post-project service charges and maintenance costs associated with the irrigation system
- Non-labor costs (e.g., management) and fees associated with project oversight
- Labor costs in excess of 25 percent of the total SWEEP grant request
- Any labor provided by the applicant or applicant’s employees (such costs could be categorized as “in-kind”)
- Supplies and equipment costs not related to irrigation or water distribution systems
- Tools and equipment with useful life of less than two years
- Costs associated with drilling of new or expanding groundwater wells
- Irrigation training courses
- Pump efficiency tests
- Leasing of weather, soil and irrigation water-based sensors for irrigation scheduling
**Review and Evaluation Process**

CDFA will conduct multiple levels of review during the grant application review process. The first level is an administrative review to determine whether application requirements were met and, if applicable, assess an applicant’s past CDFA grant performance. The second level is a technical review to evaluate the merits of the application and overall expected success of the project, including the potential for the project to save water and reduce GHG emissions. The technical reviewers are comprised of agricultural irrigation water system specialists and experts affiliated with the University of California and California State University systems. Applications will be ranked and selected for funding based on the score, estimated water savings and GHG reductions. See page 1 for more information on Funding Priority.

**Scoring Criteria**

The technical reviewer(s) will do an in-depth evaluation of each application and will validate water and GHG calculations based upon the supporting documentation and project design provided by the applicant. Reviewers will use a fifty-point scale to evaluate the feasibility and merit of proposed project and design, budget, estimated water savings and GHG calculations reductions. See Appendix D for detailed scoring guidance.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Maximum Points</th>
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</thead>
<tbody>
<tr>
<td>Merit and Feasibility</td>
<td>12</td>
</tr>
<tr>
<td>Water Savings &amp; Calculations</td>
<td>12</td>
</tr>
<tr>
<td>Greenhouse Gas Reductions &amp; Calculations</td>
<td>12</td>
</tr>
<tr>
<td>Budget</td>
<td>8</td>
</tr>
<tr>
<td>Additional Considerations</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>50</strong></td>
</tr>
</tbody>
</table>

**Additional Considerations**

Each of the following additional considerations is worth one point.

- Irrigation Training
- Reduced Pumping within a Critically Over-drafted Groundwater Basin
- Soil Management Practices that Increase Water-holding Capacity
- Cost Share
- New SWEEP Recipients
- Use of Recycled Water or Stormwater Capture

**Irrigation Training**

Irrigation training is a critical component to irrigation management and agricultural water conservation. CDFA strongly encourages applicants to participate in an irrigation training course to maximize the benefits of a well-designed and maintained irrigation system. During the review process, grant applications will receive additional consideration if the applicant has attended an irrigation training relevant to the SWEEP project within the last two years or commits to attend an irrigation training course during the course of the project term.

Applicants may consider training resources provided on the program website at [www.cdfa.ca.gov/oefi/SWEEP](http://www.cdfa.ca.gov/oefi/SWEEP). However, applicants may also select an alternative training course that best meets the needs of their operation. Training courses should be focused on efficient and effective irrigation types, water management strategies, and tools.
If awarded, the irrigation training course will become part of the Grant Agreement between the agricultural operation and CDFA. Therefore, project completion will be conditional upon completing the required training course during the grant term. Recipients must provide evidence (i.e., certificate of completion) confirming attendance. CDFA encourages agricultural operations to consider having both the agriculture operation’s manager and irrigator attend a training course; however, only one agriculture operation representative is required to attend.

Applicants that previously completed irrigation training must attach evidence (e.g., certificate of completion) to the grant application confirming attendance to receive the extra consideration during the review process. Irrigation training certificate must be submitted to CDFA within 30 days from the date of project verification. The applicant may submit a certified USDA NRCS Irrigation Water Management plan (Conservation Practice Standard 449) as evidence of meeting the irrigation training additional consideration.

**Reduced Groundwater Pumping in a Critically Over-Drafted Groundwater Basin**

Projects that demonstrate reduced groundwater pumping within critically over-drafted groundwater basins will receive extra consideration during the review process. Applicants must use the online map linked below to determine if their project falls within a critically over-drafted groundwater basin as identified by the Department of Water Resources. A list of the basins, including the basin numbers, is identified in Table 1. If a proposed project reduces groundwater pumping within a critically over-drafted ground water basin, applicants must identify the name and number of the basin within the application.

**State-wide map of critically over-drafted groundwater basins**

<table>
<thead>
<tr>
<th>Basin Number</th>
<th>Basin/Sub-basin Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-01</td>
<td>Soquel Valley</td>
</tr>
<tr>
<td>3-02</td>
<td>Pajaro Valley</td>
</tr>
<tr>
<td>3-04.01</td>
<td>180/400 Foot Aquifer</td>
</tr>
<tr>
<td>3-04.06</td>
<td>Paso Robles</td>
</tr>
<tr>
<td>3-08</td>
<td>Los Osos Valley</td>
</tr>
<tr>
<td>3-13</td>
<td>Cuyama Valley</td>
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<tr>
<td>4-04.02</td>
<td>Oxnard</td>
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<td>4-06</td>
<td>Pleasant Valley</td>
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<tr>
<td>5-22.01</td>
<td>Eastern San Joaquin</td>
</tr>
<tr>
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<td>Merced</td>
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<td>5-22.05</td>
<td>Chowchilla</td>
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<td>5-22.07</td>
<td>Delta-Mendota</td>
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<td>Kings</td>
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<td>5-22.09</td>
<td>Westside</td>
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<td>Kaweah</td>
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<td>5-22.13</td>
<td>Tule</td>
</tr>
<tr>
<td>5-22.14</td>
<td>Kern County</td>
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Soil Management Practices that Increase Water-Holding Capacity

Increasing soil organic matter has multiple benefits including increased water-holding capacity of the soil and carbon sequestration. Projects that integrate one or more of the following soil management practices identified below will receive additional consideration providing the management practice(s) will not result in an increase in on-farm water demand or energy use.

- Cover cropping (USDA NRCS Conservation Practice Standard 340)
- Mulching (USDA NRCS Conservation Practice Standard 484)
- Compost application
- Resource conserving crop rotation

Any of the management practices that are indicated in the project application will become part of the grant agreement terms and incorporated into the scope of work. Awardees should follow applicable USDA NRCS Conservation Practice Standards when implementing these management practices.

Cost Share

Cost Share is defined as a portion of project costs not borne by the SWEEP grant award and can include cash and/or in-kind contributions. Matching funds refers to a dollar amount (cash) committed to the project from a source other than SWEEP. In-kind contributions include costs associated with labor involved with the installation of the project. Applicants providing cost share funds are encouraged to submit written documentation describing the source, type and amount with the grant application. Matching funds and in-kind contributions are not required but are strongly encouraged. Applications that include Cost Share will receive additional consideration.

New SWEEP Recipients

To reach new SWEEP applicants, CDFA will give additional consideration to applications that have been submitted by agricultural operations that have never received a SWEEP award in any previous funding rounds (2014-2017).

Use of Recycled Water or Storm Water Capture

Projects that incorporate the use of recycled water or the capture of storm water to reduce runoff, reduce water pollution, or recharge groundwater supplies will receive additional consideration providing that the management practice(s) will not result in an increase in on-farm water demand or energy use. To receive additional consideration for the use of recycled water or for storm water capture, applicants must describe how the project site will incorporate this type of water reuse into the proposed SWEEP project. Applicants must comply with all local, state, and federal regulations.

Assistance and Questions

CDFA cannot assist in the preparation of grant applications; however, general questions may be submitted to edfa.sweeptech@cdfa.ca.gov. CDFA will conduct three rounds of Questions and Answers (Q&A) to address general questions about the application submission process and program requirements. Responses to all questions received during the workshops and webinar or by email will be posted to CDFA’s SWEEP website according to the following schedule:
To maintain the integrity of the competitive grant process, CDFA is unable to advise and/or provide applicants with any information regarding specific grant applications during the solicitation process.

**Notification and Feedback**

All applicants will be notified by email regarding the status of their grant application. Applicants not selected for funding will receive feedback on their grant application within 60 days after receiving notification.

**Disqualifications**

The following will result in the disqualification of a grant application:

- Incomplete grant applications: applications with one or more unanswered questions necessary for administrative or technical review
- Incomplete grant applications: applications with missing, blank, unreadable, corrupt, or otherwise unusable attachments.
- Applications requesting funding for more than the maximum award amount
- Applications that include activities outside the grant duration
- Applications with unallowable costs or activities necessary to complete the project objectives

**APPEAL RIGHTS:** Any disqualification taken by the Office of Grants Administration (OGA) during the administrative review for the preceding reasons may be appealed to CDFA’s Office of Hearings and Appeals Office within 10 days of receiving a notice of disqualification from CDFA. The appeal must be in writing and signed by the responsible party name on the grant application or his/her authorized agent. It must state the grounds for the appeal and include any supporting documents and a copy of the OGA decision being challenged. The submissions must be sent to the California Department of Food and Agriculture, Office of Hearings and Appeals, 1220 N Street, Sacramento, CA 95814 or emailed to CDFA.LegalOffice@cdfa.ca.gov. If submissions are not received within the time frame provided above, the appeal will be denied.

**Award Process**

**Grant Agreement**

CDFA will initiate the Grant Agreement process with applicants selected to receive a 2018 SWEEP grant award. A CDFA Environmental Scientist will contact each Recipient to schedule a project consultation to confirm project site information and discuss implementation plans. Applicants who are selected for awards should then provide APN map(s) of the impacted acreage and aerial map(s) to confirm the location of the project. Applicants with projects selected for award of funds will then receive a Grant Agreement package with specific instructions regarding award requirements including information on project implementation, verification, and payment process.
**Project Implementation**

Once a Grant Agreement is executed, the grant recipient can begin implementation of the project if it is after or on the official program start date.

Recipients are responsible for the overall management of their awarded project to ensure all project activities, including labor associated with installation, are completed no later than March 1, 2021. For projects involving utility interconnection, recipients must take the necessary steps to begin the interconnection process after execution of the Grant Agreement to ensure utility interconnection work is complete by this date. Awardees must complete all proposed activities including activities related to cost share by this deadline. All communications (oral or written) related to grant activities including reimbursements must originate from grant awardee or CDFA staff.

Project implementation must occur on the APNs identified in the Grant Agreement scope of work (SOW). Failure to install a project on the APNs identified in the scope of work may result in all or any portion of the grant funding withheld or termination of the Grant Agreement.

CDFA may conduct a Critical Project Review upon reasonable notice at any time during the project term. The purpose is to determine whether deliverables are being met and evaluate project progress to ensure installation is complete within the grant term. Recipients may be required to submit financial records and project documentation to ensure SWEEP funds are used in compliance with the Grant Agreement terms and conditions.

**Payment Process**

CDFA will provide the grant recipient with the necessary grant award and invoicing documents for reimbursement process. Grant recipients whose projects are located within and serve a disadvantaged community may be eligible to receive an advance payment up to 25 percent of the total grant award for project installation. The remaining funds will be allocated on a reimbursement basis through quarterly or monthly invoicing.

**Advanced Payments**

If selected for funding, recipients may be eligible for advance payments of up to 25 percent of the grant award, subject to the provisions of section 316.1 “Advance Payments” of the California Code of Regulations, Division 1, Chapter 5.

CDFA will withhold 10 percent from the total grant award until the verification requirement is complete and meets the expectations agreed upon in the Scope of Work.

**Project Verification**

Following project implementation, the grant awardee must inform the assigned grant specialist that the project is complete and operational as proposed. A CDFA Environmental Scientist, or a local RCD in partnership with CDFA, will then initiate the verification process. The verifier will visit the project site and inspect the completed project to ensure design specifications were met and the system is working effectively. In addition, the verifier will take photographs to document project completion. The grant awardee or a documented authorized representative of the agricultural operation must be present during the time of verification. The verification component must be completed by June 1, 2021.
Post-Project Completion Requirements

Project Outcome Reporting
Execution of the Grant Agreement is conditional upon agreement to post-project completion requirements. Recipients are expected to maintain documentation related to the SWEEP funded project, including energy and water use documentation, to report actual benefits achieved for a period of three years after project completion. The purpose of this reporting is to demonstrate the long-term success of SWEEP awarded projects by documenting water savings and GHG emission reductions data.

After the project is operational, a CDFA Environmental Scientist will work with recipients to collect the necessary data and quantify water savings and GHG emission reductions. This may entail enrollment with a third-party contractor to monitor energy use from the project site. In the situation that a third-party contractor enrollment is required, the awardee shall take all required steps for timely enrollment. Besides the enrollment, the awardee may be required to provide data which could not be collected utilizing third-party services.

Failure to work with CDFA or its designees to provide the necessary project-related documentation will be considered non-performance. In the event of non-performance, CDFA may take any action deemed necessary to recover all or any portion of the grant funding, including denying eligibility for future funding.

State Audit and Accounting Requirements
In addition to SWEEP program requirements, awarded projects may be subject to State Audit and Accounting Requirements listed below.

Audit Requirements
Projects are subject to audit by the State annually and for three (3) years following the final payment of grant funds. If the project is selected for audit, Grantee will be contacted in advance. The audit shall include all books, papers, accounts, documents, or other records of Grantee, as they relate to the project. All project expenditure documentation should be available for an audit, whether paid with grant funds or other funds.

Grantee must have project records, including source documents and evidence of payment, readily available and must provide an employee with knowledge of the project to assist the auditor. Grantee must provide a copy of any document, paper, record, etc., requested by the auditor.

Accounting Requirements
Grantee must maintain an accounting system that:

- Accurately reflects fiscal transactions, with the necessary controls and safeguards.
- Provides a good audit trail, including original source documents such as purchase orders, receipts, progress payments, invoices, employee paystubs and time cards, evidence of payment, etc.
- Provides accounting data so the total cost of each individual project can be readily determined.

Records Retention
Records must be retained for a period of three (3) years after final payment is made by the State. Grantee must retain all project records at least one (1) year following an audit.
Appendix A. Grant Application Checklist

Application Components

☐ Completed Online Application
  - Section I: Applicant Information
  - Section II: Previously Funded Project
  - Section III: Proposed Project Overview
  - Section IV: Project Location Information
  - Section V: Current Irrigation System & Practice
  - Section VI: Proposed Project Types
  - Section VII: Project Duration
  - Section VIII: Proposed Irrigation System & Practice
  - Section IX: Water Calculations
  - Section X: GHG Calculations
  - Section XI: Additional Considerations

Application Attachments

☐ Project Design *(map of components locations including field-based sensors, pumping station, solar, and other project components)*

☐ Budget Worksheet
  https://www.cdfa.ca.gov/oefi/sweep/docs/2018-SWEEP-BudgetWorksheet.xlsx

☐ SWEEP Irrigation Water Savings Assessment Tool
  https://www.cdfa.ca.gov/oefi/sweep/docs/IrrigationWaterSavingsAssessmentTool.xlsm

☐ ARB GHG Calculator Tool
  https://www.cdfa.ca.gov/oefi/sweep/docs/GHG_CalculatorTool.xlsx

☐ GHG Baseline Use Documentation *(e.g. utility bills, fuel receipts, field operational logs, etc. covering 12 months of peak irrigation season)*

☐ Pump Efficiency Test *(pump efficiency test for current pumps, pump and motor specifications for any proposed pumps)*

Optional Application Attachments *(only if applicable to project)*

☐ Cost Share *(optional)*

☐ Quotes for solar projects

☐ All Other Supplemental Documents *(e.g., irrigation training certificates) *(optional)*
Appendix B. Preview of Grant Application Questions

Preview begins on next page
Contact cdfa.sweptech@cdfa.ca.gov
Appendix C. USDA NRCS Payment Schedule

Adapted from FY18 Environmental Quality Incentives Program Payment Rate Summary List Regular Rates.

This table provides the USDA NRCS EQIP rates for some project components that are relevant to SWEEP. This list is intended to provide guidance for expected costs and is not a complete list of all items that may be funded through SWEEP.

<table>
<thead>
<tr>
<th>Practice Code</th>
<th>Practice Name</th>
<th>Component</th>
<th>Unit Type</th>
<th>Unit Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, &lt; 12 HP</td>
<td>Ea</td>
<td>$1,031.80</td>
</tr>
<tr>
<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, &gt;= 500 HP</td>
<td>Ea</td>
<td>$48,872.87</td>
</tr>
<tr>
<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 125-174 HP</td>
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<tr>
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<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 12-69 HP</td>
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<td>$4,520.05</td>
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<tr>
<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 175-224 HP</td>
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<tr>
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<td>Electric Motor in-lieu of IC Engine, 225-274 HP</td>
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<td>$20,173.18</td>
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<tr>
<td>372</td>
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<td>Electric Motor in-lieu of IC Engine, 275-399 HP</td>
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<td>372</td>
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<td>Electric Motor in-lieu of IC Engine, 400-499 HP</td>
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<td>372</td>
<td>Combustion System Improvement</td>
<td>IC Engine Repower, &lt;= 25 bhp</td>
<td>BHP</td>
<td>$233.85</td>
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<tr>
<td>372</td>
<td>Combustion System Improvement</td>
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<td>BHP</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Filter replace</td>
<td>ac</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Orchard-vineyard, &gt;10ac</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Orchard-vineyard, &gt;10ac with automation</td>
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<td>$901.90</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Orchard-vineyard, 10ac or less</td>
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<td>Irrigation System, Microirrigation</td>
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<td>Row Crop, Above Ground PE Manifold</td>
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<td>Practice Code</td>
<td>Practice Name</td>
<td>Component</td>
<td>Unit Type</td>
<td>Unit Cost</td>
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<td>-----------------------------------------------------</td>
<td>-------------------------------------------------------</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Row Crop, Buried Manifold</td>
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<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>SDI (Subsurface Drip Irrigation)</td>
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<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Small Acreage</td>
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<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>Vegetation Establishment</td>
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<td>442</td>
<td>Sprinkler System</td>
<td>Big Gun, Stationary</td>
<td>Ea</td>
<td>$3,073.21</td>
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<tr>
<td>442</td>
<td>Sprinkler System</td>
<td>Center Pivot, &lt; 600 Ft</td>
<td>ft</td>
<td>$47.20</td>
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<tr>
<td>442</td>
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<td>Center Pivot, &gt; 600 Ft</td>
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<td>$40.42</td>
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<td>442</td>
<td>Sprinkler System</td>
<td>Handline system</td>
<td>ft</td>
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<td>Sprinkler System</td>
<td>Linear Move System</td>
<td>ft</td>
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<td>Pod System</td>
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<td>Sprinkler System</td>
<td>Renovation of Existing Overhead or Wheel Line Sprinkler System</td>
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<td>Solid Set System</td>
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<td>Sprinkler System</td>
<td>Traveling Gun System, &gt; 3 inch Hose</td>
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<td>$25,653.14</td>
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<td>442</td>
<td>Sprinkler System</td>
<td>Traveling Gun System, &gt; 2 to 3 inch Hose</td>
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<td>$13,892.20</td>
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<td>Sprinkler System</td>
<td>Traveling Gun System, 2 inch or less diameter Hose</td>
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<td>Sprinkler System</td>
<td>Wheel Line System</td>
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<td>449</td>
<td>Irrigation Water Management</td>
<td>IWM with Soil Moisture Sensors</td>
<td>Ea</td>
<td>$695.22</td>
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<td>449</td>
<td>Irrigation Water Management</td>
<td>IWM with Soil Moisture Sensors with Data Recorder</td>
<td>Ea</td>
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<td>533</td>
<td>Pumping Plant</td>
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<td>HP</td>
<td>$966.17</td>
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<tr>
<td>Practice Code</td>
<td>Practice Name</td>
<td>Component</td>
<td>Unit Type</td>
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<tr>
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<td>-------------</td>
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<tr>
<td>533</td>
<td>Pumping Plant</td>
<td>Electric-Powered Pump &lt;= 3 HP with Pressure Tank</td>
<td>HP</td>
<td>$1,275.41</td>
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<td>Pumping Plant</td>
<td>Electric-Powered Pump &gt;10 to 40 HP</td>
<td>HP</td>
<td>$294.99</td>
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<tr>
<td>533</td>
<td>Pumping Plant</td>
<td>Electric-Powered Pump &gt;3 to 10 HP</td>
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<td>$321.09</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Electric-Powered Pump &gt;40 HP, Centrifugal</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Solar &lt;1 Hp</td>
<td>Ea</td>
<td>$5,012.00</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Solar &gt;3 Hp</td>
<td>Ea</td>
<td>$15,410.30</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Solar 1-3 Hp</td>
<td>Ea</td>
<td>$9,488.13</td>
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<tr>
<td>533</td>
<td>Pumping Plant</td>
<td>Turbine, Pump Only</td>
<td>HP</td>
<td>$133.97</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Variable Frequency Drive only (no pump) &lt;=15Hp</td>
<td>Ea</td>
<td>$2,956.09</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Variable Frequency Drive only (no pump) &gt;15 Hp</td>
<td>HP</td>
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<td>Vertical Turbine Pump &gt;100 Hp</td>
<td>HP</td>
<td>$299.03</td>
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<td>Pumping Plant</td>
<td>Vertical Turbine Pump, &lt;100 Hp</td>
<td>HP</td>
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<td>533</td>
<td>Pumping Plant</td>
<td>Water Ram Pump</td>
<td>In</td>
<td>$716.52</td>
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<tr>
<td>533</td>
<td>Pumping Plant</td>
<td>Windmill-Powered Pump</td>
<td>ft</td>
<td>$709.00</td>
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## Appendix D. Technical Review Scoring Guidance

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>MAX POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. MERIT AND FEASIBILITY</strong></td>
<td>12</td>
</tr>
<tr>
<td>• Project design clearly identifies the following items: project location (APN and fields where project is to be installed), proposed irrigation system layout, pump locations and any fertigation and filtration stations, location of solar system, sensor locations, water sources, groundwater wells and pump discharge, crops and acreage per crop.</td>
<td></td>
</tr>
<tr>
<td>• The estimated project completion date is compatible with the grant duration of 18 months.</td>
<td></td>
</tr>
<tr>
<td>• The project has merits in terms of water efficiency, GHG reductions and economic return for the farm and the State.</td>
<td></td>
</tr>
<tr>
<td>• The project demonstrates a deliberative and holistic effort by the applicant to improve farm water and energy efficiency.</td>
<td></td>
</tr>
<tr>
<td>• The project has long-term viability.</td>
<td></td>
</tr>
<tr>
<td>• The project improves farm resilience to drought and aligns with sustainable groundwater efforts.</td>
<td></td>
</tr>
<tr>
<td>• The project replaces or reduces diesel fuel consumption.</td>
<td></td>
</tr>
<tr>
<td><strong>2. WATER SAVINGS</strong></td>
<td>12</td>
</tr>
<tr>
<td>• The applicant calculated water savings accurately using SWEEP tools and provided sufficient explanation for calculations and/or supporting documentation.</td>
<td></td>
</tr>
<tr>
<td>• Water savings strategies are clear from the baseline scenario to the projected savings.</td>
<td></td>
</tr>
<tr>
<td>• The proposed project will result in measurement of water use from all water sources on the impacted acreage.</td>
<td></td>
</tr>
<tr>
<td>• The proposed project can achieve real and notable per acre water savings and maintain the water benefits over 10 years.</td>
<td></td>
</tr>
<tr>
<td><strong>3. GREENHOUSE GAS REDUCTIONS</strong></td>
<td>12</td>
</tr>
<tr>
<td>• The applicant calculated GHG estimates correctly using the SWEEP tools and provided sufficient explanation and supporting documentation for calculations.</td>
<td></td>
</tr>
<tr>
<td>• The GHG calculator reflects what is included in the project design and application narrative.</td>
<td></td>
</tr>
<tr>
<td>• The GHG reduction strategies are clear in the project design and application.</td>
<td></td>
</tr>
<tr>
<td>• The GHG calculator acreage matches the acreage of the project design.</td>
<td></td>
</tr>
<tr>
<td>• The proposed project will achieve real GHG reductions and maintain these GHG reduction benefits for a project life of 10 years.</td>
<td></td>
</tr>
<tr>
<td><strong>4. BUDGET</strong></td>
<td>8</td>
</tr>
<tr>
<td>• The project budget worksheet provides sufficient detail on the project components.</td>
<td></td>
</tr>
<tr>
<td>• If relevant, the project includes the appropriate number of flow meters and irrigation water management (IWM) equipment to meet the project IWM goals.</td>
<td></td>
</tr>
<tr>
<td>• Labor costs are reasonable and do not exceed 25% of the total budget.</td>
<td></td>
</tr>
<tr>
<td>• The budget does not include unnecessary or duplicative items in the budget.</td>
<td></td>
</tr>
</tbody>
</table>
• The applicant provides itemized quotes to support the budget. Quotes are required for solar systems, but not for all project components.

5. ADDITIONAL CONSIDERATIONS
Each is worth 1 point.
• Applicant has not received an award in past SWEEP funding cycles. (CDFA staff to verify).
• Applicant commits to completing an irrigation training course during the course of the grant agreement or has completed irrigation training within the last two years.
• The proposed project will reduce groundwater pumping within a critically over-drafted groundwater basin.
• The applicant indicates that they will implement one or more of the four soil management practices.
• The applicant commits cost-share.
• The applicant will integrate recycled water or stormwater capture and reuse at the project site.

Total Points Available: 50

6