State Water Efficiency and Enhancement Program (SWEEP) Pilot Program

Water Savings Focused Projects Limited to the Southern Desert Region

Request for Grant Applications
Draft for Public Comment

Released: September 13, 2022

Grant Applications Due:
By 5:00 p.m. PT on November 8, 2022
No late submissions accepted.

California Department of Food and Agriculture
Office of Environmental Farming and Innovation
1220 N St.
Sacramento, CA 95814
cdfa.sweeptech@cdfa.ca.gov
**Background and Purpose**

The California Department of Food and Agriculture (CDFA) is pleased to announce a competitive application process for the State Water Efficiency and Enhancement Program (SWEEP) Pilot Program for the Southern California Desert Region.

The Budget Act of 2021 allocated $50 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 through SWEEP.

With guidance of CDFA’s Environmental Farming Act (EFA) Science Advisory Panel (SAP) and the [SWEEP Ad Hoc Advisory Group](#), a $2 million portion of the 2021 SWEEP allocation ($50 M) has been dedicated to projects located in the southern desert region, a region, which due to its unique water distribution and energy systems, has historically received low levels of funding from SWEEP. Projects funded through this Pilot program must demonstrate water savings from proposed irrigation improvements but will not be required to reduce GHG emissions from irrigation pumping. Projects must not result in an increase in GHG emissions.

For this purpose of this solicitation the southern desert region is defined as Imperial County and Riverside County, east of the Santa Rosa and San Jacinto Mountains (Figure 1).

**Funding and Duration**

The SWEEP Pilot Program for the southern desert will disperse up to $2 million to California agricultural operations investing in irrigation systems that save water and do not result in an increase in GHG emissions.

- The application submission period will open on **September 13, 2022** and close on **November 8, 2022**.
- The maximum grant award is $200,000.
- The maximum grant duration is 18 months.
- Costs incurred before the beginning of the grant agreement will not be reimbursed.
- Awarded project must be complete and operational no later than 18 months after the start of the grant agreement. The anticipated start date is May 1, 2023.
- CDFA reserves the right to offer an award different than the amount requested.
- Grants are paid out on a reimbursement basis following invoice submission by awardee.
Technical Assistance Resources

One-on-one technical assistance will be provided through CDFA’s Climate Smart Agriculture Technical Assistance Program (CSA TAP). These technical assistance resources provide an opportunity for SWEEP applicants to obtain assistance with the development and submission of a SWEEP grant application and implementation of an awarded project. Applicants will have access to a computer and internet. A technical expert will be available to provide assistance with completing the required water savings calculations and answering technical questions. 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 is available on the SWEEP webpage.

Additionally, CDFA has contracted with the University of California Division of Agriculture and Natural Resources to support a statewide group of Climate Smart Agriculture Community Education Specialists (CESs). CESs may be able to provide application and implementation assistance to farmers wishing to apply to SWEEP.

CDFA will host one informational webinar to provide an overview of program guidelines and resources. For details on the CDFA grant application workshop, visit the SWEEP website at www.cdfa.ca.gov/oefi/SWEEP. During the informational workshop, CDFA staff will be available to answer programmatic questions but, to uphold the competitive grant process, will not provide one-on-one assistance.

Eligibility and Exclusions

- California farmers, ranchers and Federal and California Recognized Native American Indian Tribes are eligible to apply.
  - The farm location and the business mailing address must be located in California within the southern desert region identified in Figure 1.

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Pilot for Southern Desert Region
California Department of Food and Agriculture

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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.
  - Medicinal and recreational cannabis crops are excluded from eligibility.
  - 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 applicant must be at least 18 years old and associated with the project.
- Projects must reduce on-farm irrigation water use and must not result in an increase in GHG emissions from irrigation water pumping.
- SWEEP funds may be combined with other funds as match for the same project, such as funds from the United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Environmental Quality Incentive Program (EQIP). However, SWEEP funds cannot cover activities or costs funded by other federal or state grant programs.
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

Executive Order N-6-22 – Russia Sanctions:
On March 4, 2022, Governor Gavin Newsom issued Executive Order N-6-22 (the EO) regarding Economic Sanctions against Russia and Russian entities and individuals. “Economic Sanctions” refers to sanctions imposed by the U.S. government in response to Russia’s actions in Ukraine, as well as any sanctions imposed under state law. By submitting a bid, proposal, or application, Bidder/Applicant represents that it is not a target of Economic Sanctions. Should the State determine Bidder/Applicant is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for rejection of the Bidder’s/Applicant’s bid/proposal/application any time prior to contract/agreement execution, or, if determined after contract/agreement execution, shall be grounds for termination by the State.

Timeline
CDFA will accept applications for eight weeks.

<table>
<thead>
<tr>
<th>Program Application Activity</th>
<th>Timeframe*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Request for Grant Applications (RGA)</td>
<td>September 13, 2022</td>
</tr>
<tr>
<td>CDFA grant application webinar</td>
<td>See SWEEP webpage</td>
</tr>
<tr>
<td>Grant applications due</td>
<td>November 8, 2022</td>
</tr>
<tr>
<td>Administrative and technical review</td>
<td>November – December 2022</td>
</tr>
<tr>
<td>Announce and award funding</td>
<td>January 2023</td>
</tr>
<tr>
<td>Grant Execution</td>
<td>See Award Process</td>
</tr>
<tr>
<td>Awarded Project Implementation</td>
<td>May 1, 2023 – November 1, 2024</td>
</tr>
</tbody>
</table>

*Subject to Change

Strategies for Water Savings without GHG Emission Increases
CDFA has identified the following strategies that address water conservation without increasing GHG production. Applicants should consider incorporating several strategies listed below to achieve water conservation. Applicants are not required to implement any of these strategies, but these options are provided as examples of strategies that may result in fundable, eligible projects.
Water Savings

1. Irrigation Scheduling Sensors
   - Examples include the use of soil moisture or plant sensors, the use of electronic data output and telemetry, and the use of weather station(s), the use of evapotranspiration (ET) based irrigation scheduling, or the California Irrigation Management Information System (CIMIS) to optimize water use efficiency for crops. Additionally, the use of an on-farm irrigation automation system for scheduling is allowable.
   - For use of ET based irrigation scheduling, provide sufficient documentation to show that water deliveries can be made on a consistent basis to accommodate that scheduling.
   - Project designs should follow NRCS Conservation Practice Standard (CPS) 449 Irrigation Water Management specifications.

2. Irrigation Method
   - Examples include the conversion to a more water efficient irrigation method or improvement of existing method to conserve water. On-farm practices such as adding/repairing a pipeline, lining water ways or outlets, and installing drip line or other forms of irrigation line are allowable.
   - Project designs should follow NRCS CPS 441 Micro Irrigation, 442 Sprinkler System, 443 Irrigation System – Surface and Subsurface, 430 Irrigation Pipeline, 468 Lined Waterway or Outlet specifications.

3. Irrigation Infrastructure
   - Examples included land leveling, increasing flow rates, replacing on farm water delivery gates and installing a tail water recovery system.
   - Project designs should follow NRCS CPS 464 Irrigation Land Leveling and 427 Irrigation Drainage and Tailwater Recovery specifications.

Energy Use Reductions or Greenhouse Gas Emission Offsets

1. Fuel Conversion and/or Renewable Energy
   - Examples include pump fuel conversion resulting in reduction of GHG emissions such as replacing a diesel pump with an electric pump and/or the installation of renewable energy.
   - Renewable energy that is used to power irrigation systems are eligible for SWEEP funding and can further reduce GHG emissions.
   - Interconnection to the electricity grid is eligible for SWEEP funding.

2. The Commitment to Use Utility-provided Renewable Energy to Offset an Increase in Pumping Energy Use.
3. Improved Energy Efficiency of Pumps and the Addition of Variable Frequency Drives
   - Examples include retrofitting or replacing pumps or the addition of variable frequency drives to reduce energy use and match pump flow to load requirements.
   - Mobile diesel pumps are eligible for retrofit or replacement to reduce emissions and improve efficiency.
   - NRCS CPS 372 Combustion System Improvement or 533 Pumping Plant may apply.

4. Low Pressure Systems
   - For example, the conversion of a high-pressure sprinkler system to a low-pressure micro-irrigation system or lower pressure sprinkler system to reduce pumping and energy use.
   - Project designs should follow NRCS CPS 441 Micro Irrigation or 442 Sprinkler System specifications.

5. Reduced Pumping through Water Savings Strategies
   - 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 project components that do not fit into the above project types as long as water savings can be estimated using the provided irrigation water calculator tool. Applicants should present adequate information for technical reviewers to evaluate potential benefits of all project components.

Program Requirements
An agricultural operation can only submit one grant application using a unique tax identification number. If an agricultural operation is a sole proprietorship, that individual should use the last four digits of their social security number (e.g., XXX-XX-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. CDFA will not transfer awards to other business names or individuals. Sole proprietors must be 18 years of age or older. See Award Process.
Applicants must include flow meters in their proposed project or demonstrate actual water use will be measured with existing flow meters or by water supplier. See Project Design for more specifics on project design requirements.

All new stationary pumps funded through SWEEP must be electric.

If the project site is irrigated by use of mobile pumps, all parcel numbers where the pumps are used must be indicated within the application.

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 may be required to provide additional information on the proposed project (e.g., assessors maps, photographs of the site, or quotes).
- Post-project verification with the awardee conducted by a CDFA Environmental Scientist, or in partnership with a third-party, to evaluate the completed project.
- All awardees will provide post-project records from the project site of water use, energy use and (if applicable) energy generation to CDFA or a third-party representative to evaluate project outcomes for three years after the completion of the project.
- Expectation to use and maintain the installed system for a minimum of 10 years.

See Project Implementation for more details regarding project implementation requirements.
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](http://www.cdfa.ca.gov/oefi/sweep). Applicants must create a user account to submit a grant application. All applications, supporting documents and submissions are subject to public disclosure including posting on the CDFA Office of Environmental Farming and Innovation (OEFI) website.

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](http://www.cdfa.ca.gov/oefi/sweep)
  - Solar or renewable energy system quote if the applicant is proposing a renewable energy system installation (see [Budget Worksheet](http://www.cdfa.ca.gov/oefi/sweep) for more details)
- Completed [SWEEP Irrigation Water Savings Assessment Tool](http://www.cdfa.ca.gov/oefi/sweep)
- One year of baseline energy documentation for any pumps that are impacted by the proposed project (e.g., fuel receipts, pumping logs and/or utility bills).
  - Projects that do not have baseline energy use must substantiate why the existing irrigation system does not use energy to apply irrigation water.

Application Attachments

**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 Assessor’s Parcel Numbers (APNs)
- Detailed schematic of the locations of proposed new or improved infrastructure and technology including irrigation piping, reservoirs, pumps, and sensors
- Pertinent agronomic information, such as the crop and water source
- 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)
• Indicate location of existing flow meters and/or flow meters proposed to be installed through the project.

**Water and Energy Use Documentation**

Applicants are required to submit water and energy use supporting documentation to substantiate water savings calculations in the application. Energy records must be provided if there is current baseline energy use associated with irrigation. Grant applications that do not include the required types of documentation will be disqualified during the administrative review process. Specific requirements pertaining to water and energy 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.

Applicants may attach supplementary information that will allow technical reviewers to refine water savings estimates.

**Energy Use Documentation**

Applicants are required to attach the following documents of baseline energy from the project site:

- Utility bills, actual fuel receipts, and/or field operational logs covering the previous growing year (12 months; January to December). If a proposed project does not have baseline energy use, the applicant must justify why there is no energy use.
  - 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 (e.g., gallons, kWh, etc.), not estimated or modelled, energy use data.
  - 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 compiled 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, if applicable.

Applicants will be required to describe how the baseline energy documentation attached to their application is related to the project site, if applicable.

**Budget Worksheet**

Applicants are required to download and complete a SWEEP 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 or corrupted file, may result in disqualification. Budget Worksheets from past SWEEP solicitations will not be accepted.

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 renewable energy system, the applicant must submit a quote to verify the system capacity (kW). The quote must also itemize any tax incentives or rebates that the applicant will receive from the installation. Applicants should not request reimbursement for costs that will return to the applicant through a rebate or tax incentive.

**Budget Cost Categories:**

**Supplies and Equipment**

Itemize the estimated cost of supplies and equipment 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. 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.
Labor
Labor costs cannot exceed 25 percent of the total SWEEP grant request. Labor costs in excess of 25 percent 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).

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 or improvement 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 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 or project management, 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
- Purchase of trees, crops, or seeds
- Purchase soil amendments

**Assistance and Questions**

Questions should be sent to cdfa.sweeptech@cdfa.ca.gov. Based upon questions received, CDFA will prepare Questions and Answers (Q&A) documents 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.

<table>
<thead>
<tr>
<th>Questions Received by:</th>
<th>Responses Posted by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 10, 2022</td>
<td>October 17, 2022</td>
</tr>
</tbody>
</table>

To maintain the integrity of the grant process, CDFA is unable to advise and/or provide applicants with any information regarding specific grant applications during the solicitation process.

**Review Process and Notification of Application Status**

**Administrative and Technical Review**

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. 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, without an increase in 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.

Past performance in implementation of SWEEP or other Climate Smart Agriculture grant programs, if applicable, may be taken into consideration during selection. Criteria to evaluate past performance includes timeliness and satisfactory completion of funded activities and reporting requirements, data on meeting funding priorities, quantity and quality of past project performance.
including project termination or incomplete projects, or unresponsiveness, and cooperation with post-project outcome monitoring and reporting.

**Scoring Criteria**
The technical reviewer(s) will do an in-depth evaluation of each application and will validate water 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 the proposed project and design, budget, and estimated water savings. Applications must meet a minimum score of 25 to be awarded funding. See [Appendix D](#) for detailed scoring guidance.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Maximum Points</th>
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<tbody>
<tr>
<td>Merit and Feasibility</td>
<td>16</td>
</tr>
<tr>
<td>Quantity of Water Savings &amp; Calculations</td>
<td>12</td>
</tr>
<tr>
<td>Assurance of No GHG Emission Increase</td>
<td>12</td>
</tr>
<tr>
<td>Budget</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>50</strong></td>
</tr>
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**Priority Funding**

**Socially Disadvantaged Farmers and Ranchers and Priority Populations**
Twenty-five percent (25 percent) of the appropriation will be available for SWEEP projects for the following applicants and/or projects:

**Socially Disadvantaged Farmers and Ranchers**

CDFA will ensure the inclusion of Socially Disadvantaged Farmers and Ranchers (SDFR) in all programs, including SWEEP. Farmers and ranchers who identify as belonging to a socially disadvantaged group will receive priority for funding if they meet a minimum score of 25 points during the technical review. A socially disadvantaged group is defined by the 2017 Farmer Equity Act (AB 1348 (Aguiar-Curry, 2017))¹ 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
- Hispanics
- Asian Americans
- Native Hawaiians and Pacific Islanders

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¹ [https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201720180AB1348](https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201720180AB1348)
Benefits to Priority Populations

Priority Populations\(^2\) include disadvantaged communities, low-income communities and low-income households and can be identified using the mapping tool provided at https://webmaps.arb.ca.gov/PriorityPopulations/. To benefit Priority Populations projects, must be located within an area designated as a Priority Population and reduce on-site emissions of criteria pollutants through reduced combustion of fossil fuels.

Notification and Feedback

Disqualifications

During the administrative review, 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.
- Applications that do not provide primary applicant contact information in the application.
- Applications that do not comply with Eligibility or meet Program Requirements and Restrictions.

APPEAL RIGHTS: Any disqualification taken by the Office Environmental Farming and Innovation (OEFI) 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 OEFI decision being challenged. The submissions must be emailed to CDFA.LegalOffice@cdfa.ca.gov (preferred) or sent to the California Department of Food and Agriculture, Office of Hearings and Appeals, 1220 N Street, Sacramento, CA 95814. If submissions are not received within the time frame provided above, the appeal will be denied. Appeal rights are only afforded to disqualifications.

\(^2\) http://www.caclimateinvestments.ca.gov/priority-populations
Award Notices and Regrets

- Successful applicants will be notified of their grant award through email and will enter the grant agreement execution process.
- Applications that are not selected for an award will receive feedback on their grant application within 30 business days after receiving notification.
Award Process

Grant Agreement Execution

CDFA will initiate the Grant Agreement process with applicants selected to receive a grant award. This process of executing a grant agreement is estimated to take several months. A CDFA SWEEP staff member will contact each Recipient to schedule a pre-project consultation to confirm project site information and discuss implementation plans. Applicants who are selected for awards may be required to provide APN map(s) of the impacted acreage and aerial map(s) to confirm the location of the project, photographs of the project site or additional quotes. 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.

PAYEE DATA RECORD

If an application is selected for an award, the applicant will receive a notification email with the request to fill out the payee data record form (STD 204). The applicant must complete the form following the instructions provided on the form, electronically sign, and submit within 5 business days. Late submission of the payee data form may result in delay of grant execution or cancelation of award.

Award Timeline

<table>
<thead>
<tr>
<th>Grant Agreement Stage</th>
<th>Estimated Time for Stage Completion</th>
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<tbody>
<tr>
<td>Grant packet is completed – During this step, CDFA will work with awardees to get the information the state needs to execute the grant. The timeline for this step is dependent on how quickly information is provided to CDFA staff.</td>
<td>Variable</td>
</tr>
<tr>
<td>Grant Execution</td>
<td>Up to 120 days</td>
</tr>
<tr>
<td>Processing advance payments – If awardees request and are granted an advance payment, please be aware that it will take up to 4 weeks to process this payment once the grant is executed. (<a href="#">See Payment Process</a>)</td>
<td>Up to 4 weeks</td>
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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 project start date.
(which is estimated for May 1, 2023). During project implementation, grant recipients must maintain frequent communication with CDFA staff about the SWEEP project. CDFA staff may regularly send emails or surveys to gauge project progress in addition to quarterly invoicing. Recipients must be responsive.

Recipients are responsible for the overall management of their awarded project to ensure all project activities, including labor associated with installation, are completed by the end of the grant agreement (estimated for no later than November 1, 2024. 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, grant awardee’s authorized representative or CDFA staff.

Project implementation must occur on the parcels (APNs) identified in the Grant Agreement’s 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, which may involve an on-site visit, 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
The SWEEP is a reimbursement grant program. CDFA will provide the grant recipient with the necessary grant award and invoicing documents for reimbursement process. CDFA will withhold 10 percent from the total grant award reimbursement until the verification requirement is complete and meets the expectations agreed upon in the Scope of Work.

Advanced Payments
If selected for funding, recipients may be eligible for an advance payment 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. If appropriate justification is submitted and awardee is in compliance with grant management requirements, additional advance payments may be issued in accordance with CDFA’s Grant Administration regulations.
**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 CDFA-contracted third party, 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. If CDFA determines that remote verification is required, the grant awardee will submit geotagged photos of critical project components so that the project can be verified as complete on the intended APN. The verification component must be completed by February 1, 2025.

**Post-Project Requirements**

**Project Outcome Reporting**

Execution of the Grant Agreement is conditional upon agreement to post-project reporting requirements. Recipients are required to maintain documentation related to the SWEEP funded project, including energy and water use documentation, be responsive to requests for information about the project and to report actual water and energy use for a period of three years after project completion. All projects awarded through this targeted SWEEP solicitation will be required to provide water and energy records for three years following completion of the project. The purpose of this reporting is to evaluate the long-term success of SWEEP awarded projects.

After the project is operational, a CDFA Environmental Scientist will work with recipients to collect the necessary data, evaluate the co-benefits and maintenance of the project and to quantify water savings and GHG emission reductions. This may entail enrollment with a third-party contactor to monitor energy and/or water 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.

Following the completion of the three-year post project outcome reporting process, a report will be developed and shared with the public. The purpose of this report will be to highlight the program outcomes from this pilot project.

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, the 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 an accurate audit trail, including original source documents such as purchase orders, receipts, progress payments, invoices, employee paystubs and timecards, 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

Application Attachments
☐ Project Design (map of components locations including field-based sensors, pumping station, solar, and other project components)
☐ Budget Worksheet
☐ SWEEP Irrigation Water Savings Assessment Tool
https://www.cdfa.ca.gov/oefi/sweep/docs/IrrigationWaterSavingsAssessmentTool.xlsx

Optional Application Attachments (only if applicable to project)
☐ Cost Share (optional)
☐ Quotes for solar renewable energy projects (required if requesting funding for a renewable energy installation)
☐ GHG Baseline Use Documentation (e.g., utility bills, fuel receipts, field operational logs, etc. covering 12 months of peak irrigation season) (required if the current irrigation system has a baseline)
☐ Supplemental information to support water use baseline
☐ All Other Supplemental Documents (optional)
Appendix B: Preview of Grant Application Questions

Project Description

SWEEP Applicant Information & Project Location

Applicant Information and Project Location

Applicant’s Tax Information

What type of tax identification number will be used when applying for this grant? (Social Security Number (SSN) or Federal Employer Identification Number (FEIN))

Select an item...

Provide the identification number

Provide the last four digits of your SSN

What is the name that matches the identification number? Use your full legal name if using your SSN, (Ensure that the name exactly matches any IRS tax documentation)

What is the entity that matches the Tax ID?

Select an item...

Physical Mailing Address

City

State

Zip code

Identify your Secretary of State (SOS) File Number using the link below

This number can be found by selecting this link California Secretary of State Business Search

Type in your business name into the search bar. Use Advanced setting as needed.

What is the SOS File Number?

Identify your Secretary of State (SOS) File Number using the link below

This number can be found by selecting this link California Secretary of State Business Search

Type in your business name into the search bar. Use Advanced setting as needed.

What is the SOS File Number?
Identify your Secretary of State (SOS) File Number using the link below

This number can be found by selecting this link: California Secretary of State Business Search

Type in your business name into the search bar. Use Advanced setting as needed.

What is the SOS File Number?
____________________________________________________________________

Contact Information

Authorized Individual - This is the person who would sign a grant agreement if the project is selected for funding

Authorized contact's office phone number

Authorized contact's cell phone number

Authorized contact's email address

Applicant's gender

[Select an item...]

Has the applicant served on active duty in the U.S. Armed Forces, Reserves, or National Guard?

[Select an item...]

Does the applicant belong to a socially disadvantaged group as defined below?

[Select an item...]

“Socially disadvantaged group” means 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. The Farmer Equity Act of 2017 identifies the following as socially disadvantaged groups: African Americans; Native Indians; Alaskan Natives; Hispanics; Asian Americans; and Native Hawaiians and Pacific Islanders.

Is the authorized contact the same individual who will be the day-to-day contact and/or project manager? If not, please include the day to day contact as the alternative contact.

[Select an item...]

Full name of alternative contact

Alternative contact’s role (e.g., farm manager, family member, adviser)

Alternate contact's phone number

Alternate contact's email address

List any additional contacts names, role, and contact information
____________________________________________________________________

Location Information
What county is the proposed project in?
Select an item...

List the Assessor's Parcel Number(s)

Address or nearest cross street of project site location(s)

City

Zip Code

Provide a single representative GPS waypoint in decimal degree format. Example: xx.xxxxx, -xxx.xxxxx (https://www.google.com/maps/ and right click on field to obtain lat/long information)

https://www.google.com/maps/

Representative GPS Coordinates

Legislative Information: Identify the applicants Senate and Assembly Districts. Click below to find the districts.

https://findyourrep.legislature.ca.gov/

Assembly District Number (Number only)

Senate District Number (Number only)
Proposed Project Overview

Project Description

Provide a concise project description. The project description should summarize the existing irrigation system, the main irrigation system improvements that will be installed with the proposed project, the existing and future crop, the acreage impacted by the project, and relevant pump information (including HP and energy conversions). The description should be written in third person and emphasize the planned upgrades. This description may be posted the SWEEP website before awards are announced. Do not include the estimated water savings.

What is the number of acres that would be impacted by the SWEEP project?
0

List current crop(s) and corresponding acreage that would be impacted by the proposed SWEEP project. If crops are in rotation, list the primary crops which are present the majority of of crops during the irrigation season (Example: Alfalfa: 40 acres, Corn: 20 acres)

Current Crop(s)

Corresponding acreage

Current Irrigation System and Practice

The questions in this section apply to the current irrigation and/or distribution system. The purpose of this section is to understand an applicant’s current irrigation infrastructure and water use system.

Description of current water use system

Describe in detail the current water use system and the associated energy sources. At a minimum, applicants should address the current crop, irrigation type, irrigation management practices, horsepower of pump(s) and fuel type.

Description of current water use system

- Surface/flood irrigation
- Hand moved sprinklers
- Solid set sprinklers
- Micro sprinklers
- Drip irrigation
- Sub surface drip irrigation
- Center pivot
- Other

Describe "Other"

Indicate if the property location(s) water source is surface water (i.e., water delivered to the property) or groundwater pumped from on-farm wells. If the property utilizes both surface water and groundwater, provide an estimate of the percentage from both sources (Example: surface water 50%, groundwater 50%)

Select an item...

What is the ratio of ground water and surface water on a normal year? (example: 50/50)
Is current water use from all sources measured either on farm or by the water supplier (e.g., with a flow meter)? Please explain.

Is the project acreage undergoing a crop conversion?
- Yes - Crop Conversion
- No

What are the anticipated new crop(s) and corresponding acreage?

What is the total acreage of the agricultural operation?

__________________________________________________

Project Type

The questions in this section apply to the SWEEP project types for which the applicant is applying. Only indicate project types that are being incorporated as part of the SWEEP project. Do not indicate a project type if it is already the current practice at the project site.

__________________________________________________

Water Conservation

Does the project involve installing irrigation scheduling sensors or tools?
- Yes
- No

Examples include the use of soil moisture or plant sensors, the use of electronic data output and telemetry, and the use of weather station(s), the use of evapotranspiration (ET) based irrigation scheduling, or the California Irrigation Management Information System (CIMIS) to optimize irrigation timing. The use of an on-farm irrigation automation system for scheduling irrigation is allowable and should be described here if funding for automation is sought.

Describe the irrigation scheduling tools

Identify the number of soil moisture stations proposed to be installed.

Identify the number of flow meters proposed to be installed.

Identify the number of ET/Weather stations proposed to be installed.

Identify the number of other types of irrigation water management systems proposed to be installed.

Does the project involve a change of or improvement to the irrigation method?
- Yes
- No

Examples include the conversion to a more water efficient irrigation method or improvement of existing method to conserve water. On-farm practices such as adding/repairing a pipeline, lining water ways or outlets, and installing drip line or other forms of irrigation line are allowable.

Describe the irrigation method changes

Which type of irrigation method is proposed?
- Flood irrigation
- Solid set sprinklers
Micro sprinklers
Drip irrigation
Sub surface drip irrigation
Center pivot
Other

Describe "Other"

- Does the project involve a change or improvement to the irrigation infrastructure?
  - Yes
  - No

Examples include land leveling, increasing flow rates, replacing or installing on farm water delivery gates, and installing a tail water recovery system.

Describe the irrigation infrastructure

__________________________________________________

Energy Use Reductions or Greenhouse Gas Emission Offset

Does the project involve a fuel conversion and/or the installation of renewable energy?
  - Yes
  - No

The conversion of a fossil fuel pump to solar, wind, electric, or natural gas that will not result in an increase in GHG emissions. Renewable energy installation, including solar, installations that power irrigation systems are allowable costs.

Describe fuel conversion

Will the project involve installing on farm renewable energy or agreeing to use utility provided renewables?
  - On farm renewables
  - Utility provided renewables
  - No renewables

What is the proposed size of the on farm renewable energy system? (kW)
0.00

What is the anticipated yearly energy generation of the solar system?

Add solar quote (A quote is required if proposing installing a solar array)

Describe the utility-provided renewable agreement

Attach supporting documentation justifying utility provided renewable agreement

Does the project involve improving the energy efficiency of pumps or adding variable frequency drives (VFDs)?
  - Yes
  - No

Examples include retrofitting or replacing pumps and the use of variable frequency drives to reduce energy use and match pump flow to load requirements. NRCS Conservation Practice Standard 372 or 533 may apply.

Describe energy efficiency improvements

If installing VFD(s), how many will be installed?
Does the project involve converting from a higher-pressure irrigation system to a lower pressure irrigation system?

☐ Yes
☐ No

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. NRCS Conservation Practice 441 or 442

Describe the lower pressure system

Does the project result in reduced water pumping through the water savings strategies indicated above?

☐ Yes
☐ No

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

Describe reduced pumping

__________________________________________________

Other Management Practices

Does the project involve other management practices or technologies that are not described in the previous categories?

☐ Yes
☐ No

For projects implementing any other management practices that result in water savings without an increase in on farm GHG emissions.

Describe other management practices

__________________________________________________

Design

Are there any permits needed to complete the proposed project?

☐ Yes
☐ No

Describe the anticipated permits

Upload the Project Design

At a minimum the project design should include the APN number, location of critical project components, etc.

__________________________________________________

SWEEP Water Calculations and GHG Statements

Download, complete and save the SWEEP Irrigation Water Savings Assessment Tool from the SWEEP website. Please provide outputs of the calculator here and upload the completed tool.
**SWEEP Irrigation Water Savings Assessment Tool**

To determine soil characteristics use the link below

https://casoilresource.lawr.ucdavis.edu/gmap/

To determine baseline, township, and range use the link below and enable PLSS map layer (Humboldt (H), Mount Diablo (M), San Bernardino (S))

https://apps.wildlife.ca.gov/bios/

What is the baseline water use (acre-inches/acre) from the SWEEP Irrigation Water Savings Assessment Tool, located in cell F3 of the "Water Savings Estimate" tab?

0.00

What is the estimated "after" scenario water use (acre-inch/acre) from the SWEEP Irrigation Water Savings Assessment Tool, located in cell F4?

0.00

What is the estimated water savings (acre-inches/acre) from the project, located in cell F5?

0.00

Water Savings Assessment Tool Upload

Note: You cannot upload a macro enabled excel file. If needed, convert file to an .xlsx file and verify that the information is retained before uploading.

Are there any further comments or clarifications regarding the supporting water documentation or calculations? Indicate "Yes" or "No."

- Yes
- No

Describe the further clarifications

____________________________________________________________________________________________________

**No Net Increase in On-Farm GHG Statements**

Does the proposed project currently have any on-farm energy use associated with irrigation?

- Yes
- No

Describe on-farm energy associated with irrigation

How many pumps are currently associated with this project? What is the HP of this/these pump(s)?

What is the current fuel type?

- Electricity (kWh/yr)
- Diesel (gallons/yr)
- Motor gasoline (gallons/yr)
- Biodiesel/renewable diesel (gallons/yr)
- Natural gas (scf/yr)
- Renewable (kWh/yr)

How many kWh were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
How many diesel gallons were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
  0.00

How many gasoline gallons were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
  0.00

How many biodiesel gallons were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
  0.00

How many natural gas square cubic feet (scf) were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
  0.00

How many renewable electricity kWh were used in the last calendar year for the pump(s) that support the irrigation on the project fields?
  0.00

Attach supporting documentation

Additional supporting documentation if needed

Will the proposal result in any on farm energy use associated with irrigation after the project is complete?
  ○ Yes
  ○ No

What will the proposed fuel type be?
  ○ Electricity
  ○ Diesel
  ○ Motor gasoline
  ○ Biodiesel/Renewable diesel
  ○ Natural gas
  ○ On-farm produced renewable
  ○ The use of utility provided renewable energy

Budget

Download, complete and save the budget template linked below. Items are divided into irrigation improvements, irrigation water management equipment, pump and energy equipment, renewable energy equipment, and other management practices. Labor cannot exceed 25% of the total grant request. Matching funds are encouraged but not required. Review the request for grant application document for a list of unallowable costs.

Link: 2021 SWEEP Pilot Budget Worksheet

What is the grant request? This is the amount requested from CDFA and should match what is on the attached CDFA budget in cell H2
  $0.00

What is the matching funds amount that is contributed by the applicant and that matches the budget in cell H3?
$0.00

Attach The Project's Completed Budget Worksheet

__________________________________________________

Additional Attachments

(Optional) This is where the applicant can attach price quotes, additional water and energy use data, and/or any additional considerations. You may attach multiple files in this field, but each item will need to be briefly described.

Description of attachments

__________________________________________________

Project Duration and Acknowledgement

The maximum grant duration for a proposed project is 18 months. Grant funds cannot be expended before the project start date and a grant agreement has been fully executed. Does the applicant acknowledge that the project will be completed within the grant term? *

☐ Yes
☐ No

Every awarded pilot project will be required to provide water and energy use records to CDFA for three calendar years after the project has been installed. Does the applicant agree to provide these records upon request if the project is selected for an award?

☐ Yes
☐ No

Would you be interested to have your project highlighted/showcased? CDFA would first notify you and seek additional consent before showcasing any individual project

☐ Yes
☐ No

Did the applicant receive any technical assistance in completing the application?

☐ Yes
☐ No

Check the boxes for all technical assistance that was provided

☐ Non-Profit
☐ University
☐ Resource Conservation District (RCD)
☐ CDFA lead workshop
☐ Irrigation company/vendor

What organization provided the bulk of the assistance?

What is the name of the individual that provided the bulk of the assistance?

The information in this application is true and current to the best of my knowledge

☐ Yes
☐ No

Please type your name here
Appendix C: USDA NRCS Payment Schedule

Adapted from [Environmental Quality Incentives Program Payment Rate Summary List](https://www.nrcs.usda.gov/production/programs/eqip/eqippaymentrates2019.htm) 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 project types or 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, &gt;= 500 HP</td>
<td>Ea</td>
<td>$39,855.25</td>
</tr>
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<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 125-174 HP</td>
<td>Ea</td>
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<tr>
<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 12-69 HP</td>
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<td>$3,278.87</td>
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<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 175-224 HP</td>
<td>Ea</td>
<td>$12,410.81</td>
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<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 225-274 HP</td>
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<td>$14,837.62</td>
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<td>$19,947.70</td>
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<td>372</td>
<td>Combustion System Improvement</td>
<td>Electric Motor in-lieu of IC Engine, 400-499 HP</td>
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<td>Combustion System Improvement</td>
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<td>$6,799.30</td>
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<tr>
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<td>Combustion System Improvement</td>
<td>IC Engine Repower, &gt;25 bhp</td>
<td>BHP</td>
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<td>Irrigation System, Microirrigation</td>
<td>Filter replace</td>
<td>ac</td>
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</tr>
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<td>Practice Name</td>
<td>Component</td>
<td>Unit Type</td>
<td>Unit Cost</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------</td>
<td>-----------</td>
<td>-----------</td>
<td>------------</td>
</tr>
<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, 10ac or less</td>
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<td>441</td>
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<td>Orchard-vineyard, durable tubing replace</td>
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<td>Irrigation System, Microirrigation</td>
<td>Row Crop, Above Ground PE Manifold</td>
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<tr>
<td>441</td>
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<td>Row Crop, Buried Manifold</td>
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<td>$990.51</td>
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<tr>
<td>441</td>
<td>Irrigation System, Microirrigation</td>
<td>SDI (Subsurface Drip Irrigation)</td>
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<td>SDI (Subsurface Drip Irrigation), Manure</td>
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<td>Small Acreage</td>
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<td>442</td>
<td>Sprinkler System</td>
<td>Big Gun, Stationary</td>
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<tr>
<td>442</td>
<td>Sprinkler System</td>
<td>Center Pivot, &lt; 600 Ft</td>
<td>ft</td>
<td>$49.77</td>
</tr>
<tr>
<td>442</td>
<td>Sprinkler System</td>
<td>Center Pivot, &gt; 600 Ft</td>
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</tr>
<tr>
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<td>Handline system</td>
<td>ft</td>
<td>$4.27</td>
</tr>
<tr>
<td>442</td>
<td>Sprinkler System</td>
<td>Linear Move System</td>
<td>ft</td>
<td>$57.49</td>
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<td>Pod System</td>
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<tr>
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<td>Traveling Gun System, &gt;2 to 3 inch Hose</td>
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<tr>
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<td>Pumping Plant</td>
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<td>HP</td>
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<td>Water Ram Pump</td>
<td>In</td>
<td>$862.28</td>
</tr>
<tr>
<td>Practice Code</td>
<td>Practice Name</td>
<td>Component</td>
<td>Unit Type</td>
<td>Unit Cost</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------</td>
<td>----------------------------</td>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>533</td>
<td>Pumping Plant</td>
<td>Windmill-Powered Pump</td>
<td>ft</td>
<td>$709.89</td>
</tr>
</tbody>
</table>

State Water Efficiency and Enhancement Program
California Department of Food and Agriculture
Appendix B
# Appendix D: Technical Review Scoring Guidance

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>MAX POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MERIT AND FEASIBILITY</strong></td>
<td></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>16</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, energy use efficiency 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 efficiency without increase in GHG emissions from irrigation pumping.</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 water conservation and water resiliency policy.</td>
<td></td>
</tr>
<tr>
<td>• The project replaces or reduces diesel fuel consumption.</td>
<td></td>
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<tr>
<td><strong>WATER SAVINGS</strong></td>
<td></td>
</tr>
<tr>
<td>• The applicant estimated projected water savings accurately using SWEEP water savings assessment tool and provided sufficient explanation for calculations and/or supporting documentation.</td>
<td>12</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>ASSURANCE OF NO GHG INCREASE</strong></td>
<td></td>
</tr>
<tr>
<td>• The project provides sufficient information to explain how the project will not result in any GHG increase after the project has been installed. The energy use strategies are clear in the project design and application and will not result in an increase in on-farm GHG production associated with pumping.</td>
<td>12</td>
</tr>
<tr>
<td>• The proposed project will not result in GHG increases from the baseline or over the project life of 10 years.</td>
<td></td>
</tr>
<tr>
<td><strong>BUDGET</strong></td>
<td></td>
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<tr>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>
- The project budget worksheet provides sufficient detail on the project components.
- If relevant, the project includes the appropriate number of flow meters and irrigation water management (IWM) equipment to meet the project IWM goals.
- Labor costs are reasonable and do not exceed 25 percent of the total budget.
- The budget does not include unnecessary or duplicative items.
- Quotes are required for solar systems, but not for all project components. If quotes are provided, they are reasonable and reflective of the budget.

| Total Points Available | 50 |