





2022 REQUEST FOR PROPOSALS

Shafter Community Emissions Reduction Program: Urban Greening The San Joaquin Valley Air Pollution Control District is seeking proposals from entities to implement Urban Greening projects in the Shafter AB 617 Community.

Shafter Community Emissions Reduction Program 2022 RFP for Urban Greening

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Request for Proposals

Shafter Community Emissions Reduction Program: Urban Greening

The San Joaquin Valley Air Pollution Control District (District) is soliciting proposals from entities (applicants) to implement Urban Greening projects in the Shafter Community boundaries. This Request for Proposal (RFP) will provide a total grant amount of up to \$50,000 to the selected applicant(s) that can demonstrate the ability to efficiently and effectively implement urban greening projects by working with the community to reduce emissions and to provide several key co-benefits. The Urban Greening Emissions Reduction Program is a Community Identified Project that has been included and prioritized in the California Air Resources Board (CARB) and District adopted Community Emission Reduction Program (CERP).

Introduction

Assembly Bill 617 (AB 617) requires CARB and air districts to develop and implement additional emissions reporting, monitoring, reduction plans and emission reduction measures in an effort to reduce air pollution exposure in disadvantaged communities. Shafter is one of the San Joaquin Valley (Valley) communities selected by CARB for investment of additional resources under AB 617.

AB 617 provides mechanisms and resources to invest substantial funding in the community through voluntary incentive funding measures. Most importantly, these measures are guided by the shared experience and knowledge of local community members, through their input and involvement on Steering Committees for each AB 617-selected community.

Background

The Urban Greening Emission Reduction Program is a part of California Climate Investments (CCI), a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas (GHG) emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities.

Urban Greening projects will use natural solutions to improve air quality and public health, while enhancing a community with drought tolerant and low maintenance greenery. While the main benefit of Urban Greening projects is GHG reductions, the projects can also reduce criteria air pollutant (CAP) emissions. Certain species of trees can help further decrease particulate matter (PM) and oxides of nitrogen (NOx) emissions when strategically planted in a community.

Placement and choice of trees and vegetation can help reduce the impacts of heat islands, and maximize cooling benefits. Shade provided by trees and other vegetation prevents sunlight from reaching heat-absorbing surfaces such as sidewalks and parking lots, cooling the area by 1 to 9 degrees Fahrenheit. Furthermore, the reduction in water

and electricity usage from some of these projects will benefit air quality and the community.

Some of the key benefits of urban greening include the following:

- Reduces the impacts of climate change
- Protects our local air quality by reducing harmful pollutants
- Reduces emissions from the energy demand of cooling houses
- Reduces top soil runoff that protects local waterways and prevent water pollution
- Absorbs dust, wind, and sound while providing a natural view

Qualitative Benefits

In addition to reducing GHG and CAP emissions, Urban Greening projects will qualitatively benefit the surrounding communities. Urban Greening projects can provide shade to sidewalks and streets, which can encourage active transportation by making it more comfortable to walk or bike in those areas. This can improve the health and wellbeing of the community. Similarly, Urban Greening projects can shade buildings and reduce energy consumption by lessening the load on air conditionaling systems. When native and/or drought-resistant vegetation is planted and maintained using water efficient irrigation methods, Urban Greening projects can reduce water usage. In addition, planting more trees in certain areas, such as near freeways, may also help reduce noise pollution.

Community Support for Urban Greening

Community engagement continues to be an important part of the CERP development. District staff have routinely met with the respective Community Steering Committee (CSC) subcommittees. Through ongoing discussions with the Shafter CSC subcommittee for the vegetative barriers and urban greening measures, the subcommittee had expressed strong interest in providing funding to support the Urban Greening measure (UB.1). The Urban Greening measure has been discussed at CSC meetings in addition to the outreach activities conducted to inform residents of the program and requirements for participation. Following the outreach efforts, this measure received support from the Shafter CSC and was included in the adopted CERP. This RFP was developed and modeled after existing plans and resources for similar projects within the state of California and includes feedback received from the CSC to create a program that addresses the unique needs of the community.

Schedule

<u>Date</u>	Event
June 13, 2022	Release Request for Proposal
June 28, 2022 (11:00 AM)	Applicant Workshop
July 28, 2022 (5:00 PM)	Proposal submission deadline
Approximately 90 days	Proposal review and Final selection by District staff

Funding Available

The total funding available for the Urban Greening Emission Reduction Program is \$50,000 for projects within the Shafter Community.

The applicant must be in compliance with applicable State and/or federal conflict of interest laws. To be eligible to receive incentive funding, the applicant **must** agree to disclose additional funding sources that include, but are not limited to, federal, state, and third-party private sources as follows:

- 1. Indicate if their organization has applied for or received funding from any other sources for this project.
- 2. Indicate if you intend to apply for additional funding from other sources in the future for this project.
- 3. Disclose the value of any current financial incentive that directly reduces the project cost including tax credits or deductions or other public financial assistance.

For any additional funding that the applicant will receive or has already received for this project, the applicant will sumbit copies of letter(s) of financial commitment(s), agreement(s), or grant award letter(s). Information provided may be shared as required by federal, state, and local laws. Any owner, designee, or other third party who is found to have submitted multiple applications or signed multiple contracts for this project without proper disclosure may be disqualified from funding for that project from all sources within the control of the District. Applying for or receiving funding from other sources for this project does not necessarily preclude you from this RFP.

Projects funded through existing initiatives within the community may be leveraged to expand existing projects in the Shafter AB 617 community. Applicants may use the grant awarded to them as leverage to raise matching funds for Urban Greening projects. Match funding is not required for this program.

Contract Period

Applicants selected through this RFP are required to commit to their projects for a minimum of 10 years. Trees may be planted in stages, but must be completed within the first three (3) years of the contract execution date. During the contract period, Applicants must maintain the project, comply with other requirements described in this RFP, and make the project available for inspection if requested by District and/or CARB staff.

Applicant Eligibility

Applicants must meet the following criteria:

1. Applicant must be a joint powers authority, special district, non-profit, tribal government, or public agency and have the necessary experience or can work with

- project partners with the experience to implement urban greening projects within the selected AB 617 community.
- 2. Applicant must be the property owner or have documented authority from the property owner on which the project will be implemented;
- 3. Applicant must commit to implementing the project within three years of contract execution date and maintaining trees planted as part of the project for the remaining portion of the contract period. The contract will be ten (10) years from the date of execution. This includes having a commitment to irrigate trees, and tree maintenance, up to and including removal and replacement of dead trees;
- 4. Applicant must commit to making the project available for inspection if requested by the District or CARB staff during the entire contract period, which will be ten (10) years;
- Applicant must contact the local County Agricultural Commissioner's Office before obtaining any plant material originating from outside the respective county to ensure all the requirements for movement of plant material into the respective county are met;
- 6. Applicant must ensure that trees are purchased, planted, and maintained to the specifications provided in Appendix H *Tree Selection, Planting, and Care Specifications* of the CAL Fire Urban and Community Forestry Grant Guidelines.
- 7. Applicant shall, provide public access to the project where feasible.
- 8. Applicant shall obtain any required permits necessary for successful project completion;
- 9. Applicant must ensure that all work performed is in conformance with the California Environmental Quality Act and all other applicable statues, rules, and regulations.
- 10. Applicant and project partner(s) must have financial capacity to complete, operate, and maintain the project. If the Applicant is unable to carry the financial responsibility of a reimbursement program on their own, they may partner with a local public agency or 501(c)(3) non-profit.
- 11. Applicant must ensure that all property taxes where the Urban Greening project will be located are current at the time of application.
- 12. Applicant must ensure that any funds required from other sources are reasonably expected to be available in the time frame needed to carry out the project.

Project Eligibility

The following criteria are based on the adopted community CERP. Applicants are encouraged to review the resources provided in Exhibit C as they prepare their proposals.

- 1. All projects must be located within the Shafter Community boundaries and meet eligibility requirements described in this RFP.
- 2. Required species selection for the projects
 - a. Non-Invasive
 - b. Non-Poisonous
 - c. Roadway safety conformity (where applicable)
 - d. Maximize GHG reductions
 - e. Low-biogenic volatile organic compound (BVOC) emitting
 - f. Minimize allergenic pollen

- Payments will be made on a <u>reimbursement</u> basis. The Grantee pays for services, products, and supplies, then submits invoices and proof of payment, and is then reimbursed.
 - a. The following costs are eligible for funding:
 - i. Supplies and materials
 - ii. Labor and construction of the project such as removal of materials and equipment, installation of trees, and other approved items
 - iii. Contracted services related to the project
 - Signs and interpretive aids communicating information about the project
 - v. On-going project maintenance for the continued health of the project trees
 - vi. Up to 25% of the grant request may be budgeted for non-construction costs, including but not limited to design, permitting, outreach, and direct project administration and management.
 - vii. Up to 10% may be budgeted for contingency costs
 - viii. The grant amount will cover up to 100% of eligible costs
 - b. The following costs are ineligible to receive funding:
 - i. Overhead (i.e., rent, utilities, office equipment/supplies)

Project Evaluation and Scoring Criteria

Applications received by the District will be distributed to District staff and the Shafter CSC, who will work in partnership to evaluate and score the projects according to the scoring criteria described in Table 1 below. A meeting with the CSC will be scheduled after the conclusion of the RFP period to present and rank the submitted proposals. The scoring criteria and points, which were developed in partnership with the Shafter CSC, are meant to inform the decision-making process. Several of these criteria were based off of the CCI Urban Greening Guidelinesⁱⁱ and additional scoring criteria were added at the request of the sub-committee.

Table 1 – Scoring Criteria

Criteria	Points Available
Cost-Effectiveness - \$/ton GHG reduced	0-30
Exposure Benefits	0-25
Co-benefits	0-25

Criteria	Points Available
 Species Selection Types of species of trees and plants Environmental benefits of the species selected Consideration of initial size selection for the planting area to ensure the best chance for survival and growth 	0-10
Project Readiness - Timeliness of project implementation - Leveraging existing efforts in the community - Availability of external funding	0-10

During the selection process, the District and the CSC may wish to follow up with some Applicants for clarification purposes only. No new material will be permitted at this time. Additional information provided during the bid review process is limited to clarification by the Applicant of information presented in the proposal upon request by the District and the CSC.

The determination shall be based solely on the Evaluation Criteria contained in the RFP, on evidence provided in the proposal and on any other evidence provided during the bid review process.

The District will report program information in accordance with Community Air Protection program guidelines available at:

https://ww3.arb.ca.gov/msprog/cap/docs/cap_incentives_2019_guidelines.pdf.

Location

The rural community of Shafter in Kern County has a current estimated population of over 19,000 residents. Geographically this community is bounded by Merced Avenue to the north, the Calloway canal and Cherry Ave. to the east, Orange Street to the south, and Scaroni Avenue to the west. This area does not encompass the entire boundaries of the City of Shafter but the core, along with the small community of Smith Corner to the south, as well as the nearby rural areas surrounding the area. The City of Shafter includes businesses, schools, and residential areas.

The project(s) to be implemented through this RFP **must be** within the boundaries of the AB 617-selected community of Shafter.

The following are suggested areas by the Shafter CSC that would benefit from Urban Greening projects:

1. Schools

Temperatures in Shafter area can reach 110 degrees Fahrenheit in the Spring and Summer (beginning of the school year), where trees would help provide shaded areas for

children to safely play outside. The following schools have fenced areas with sprinkler systems for planting trees:

- Grimmway Academy
- Shafter High School
- Richland School District: Sequoia Elementary, Redwood Elementary, Richland Junior High, Golden Oak Elementary

Figure 1: Richland School District



2. New Shafter Sports Complex through Shafter Parks and Recreation

There is a need for trees and shrubbery at this community facility. The new facility is a three-phase project that will be located south of Lerdo Hwy on Ashe Street.

3. Veterans Park

This park is city-owned with existing sprinkler systems and is frequently used for outside activity, exercise, playground, recreation sport games, and practices amongst other community events.

Figure 2: Veterans Park

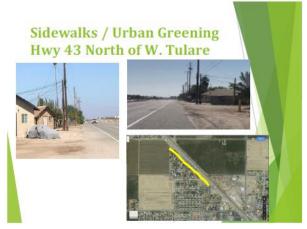


4. Ag barriers

Trees and shrubbery in this area is would help protect residents from car exhaust, noise, and pesticide drift.

- Hwy 43 and Beech Avenue / State Street
- Central 43 North of Town (W. Tulare North of Fresno Ave)
- Shafter to 99 via Lerdo Hwy

Figure 3: Sidewalks and Ag Barriers





Emission Reductions

Various California state and institutional bodies have developed tools to help estimate the GHG reductions and co-benefits associated with Urban Greening projects. The methodology and referenced tools below are consistent with the Quantification Methodology developed for the California Natural Resources Agency (CNRA) Urban Greening Grant Program under the California Climate Investments Program.

All Urban Greening project calculations can be performed in the Benefits Calculator Tool, a workbook, which has been developed by CARB for the CNRA. Project Applicants need to fill out data within two tabs in this workbook in order to quantify emissions and co-benefits. Applicants must fill out tabs "Project Info," and "Tree Planting – ITP." The tab "Tree Planting – ITS" should not be filled out (The "Tree Planting – ITS" tab is designed for an alternative input tab for use with alternative software that is no longer supported). Tab "New Bike-Ped Infrastructure" should not be completed, as new bicycle/pedestrian infrastructure is not included in the Urban Greening Program Plan.

In order to fill out all the information as prompted in the spreadsheet, project Applicants will also need to use three external tools, as follows:

- University of California Agriculture and Natural Resources (UCANR) Water Use Classification of Landscape Species (WUCOLS IV) tool7^{iv}
- California Department of Water Resources (DWR) Water Budget Workbook8^v
- i-Tree Planting Tool9vi

A guide detailing how to use each of these tools can be found in Exhibit B.

Proposal Requirements and Process

Applicants must submit a completed application (Exhibit A) and requested supplemental documents listed in this RFP to the District prior to the RFP deadline. Incomplete proposals or proposals arriving after the deadline will be automatically disqualified from consideration.

Eligible entities will submit applications that include the required information as described in this RFP. A certification section is included in the application and details applicant requirements. Participation occurs in several phases:

- 1. Applicants must submit the following documents in response to this RFP:
 - a. Completed Application, with no fields left blank;
 - Applicants may submit answers to Section 3 of the application on a separate document so long as the proposal answers each question in the order presented in the application and the responses are numbered accordingly.
 - b. Completed Certifications Form section, signed by applicant;
 - c. First page of IRS Form W-9:
 - d. Completed California Natural Resources Agency (CNRA) Draft Urban Greening Benefits Calculator Tool and provide copies of the "GHG Summary" tab and "Co-benefit Summary" tab;
 - e. Dated and itemized quote(s) for the project costs; and
 - f. Photographs of the project site, an aerial photo of the project from an online resource, and a representation of the project plan area (i.e., site plan).
- 2. Once the RFP period has ended, the District and the CSC will review applications received and contact Applicants as necessary to gather additional information. The District will aim to respond to prospective Applicants within 90 days following the end of the RFP period to alert them if their projects have been selected to receive funding. However, this timeline may be extended at the discretion of the District and CSC (e.g. to reach consensus from the CSC).
- 3. Upon CSC consensus, applications selected for funding will be processed by District Staff and a contract will be offered to the applicant. Once both parties have agreed to sign the contract, the applicant will be notified of the contract execution, at which point Applicants may then commence work on the project. Project expenses cannot be incurred prior to contract execution. In the event that the

District and the selected applicant(s) cannot agree to a contract, the District reserves the right to award the grant to the next qualified applicant(s) or close this solicitation.

4. Claim for Payments may be submitted for partial/progress payments for reimbursement throughout the project implementation period and up to 90-days following the completion of the project implementation period. A complete Claim for Payment packet is required as part of the reimbursement process and must include, but is not limited to, the invoice(s) and receipts for the services performed and materials purchased, and proof of payment for all expenses. During this time, District inspectors will inspect and take photos of the project site. District staff will review submitted claim packets and reimburse for eligible costs, up to the approved contract amount.

Proposal Submittal

All proposals must be submitted to the District according to specifications set forth in this RFP. Failure to adhere to these specifications may be cause for rejection of proposal.

Signature – All proposals shall be signed by an authorized representative of the Applicant.

<u>Due Date</u> – All proposals are due no later than 5:00 PM, July 28, 2022, and should be directed to:

David Lopez
Supervising Air Quality Specialist
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA 93726-0244
Email: grants@valleyair.org

Subject: Shafter Urban Greening Application

Late Proposals – Late proposals will not be accepted under any circumstances.

Grounds for Rejection – A proposal may be immediately rejected if:

- It is not prepared in the required format, or
- It is signed by an individual not authorized to represent the firm, or
- It is not signed.

<u>Modification or Withdrawal</u> – Once submitted, proposals cannot be altered without the prior written consent of the District. All proposals shall constitute firm offers and may not be withdrawn for a period of ninety (90) days following the last day to accept proposals.

Administration

1. Cost of Developing Application

The Applicant is responsible for the cost of developing an Application, and this cost cannot be charged to the District. In addition, the District is not liable for any costs incurred during environmental review or as a result of withdrawing a proposed award or canceling the solicitation.

2. Errors

If an Applicant discovers any ambiguity, conflict, discrepancy, omission, or other error in the solicitation, the Applicant shall immediately notify the District of such error in writing and request modification or clarification of the document. The District shall not be responsible for failure to correct errors.

3. Immaterial Defect

The District may waive any immaterial defect or deviation contained in an Applicant's application. The District's waiver shall in no way modify the Application or excuse the successful Applicant from full compliance.

4. Disposition of Applicant's Documents

Pursuant to the District's Procurement Policy and Procedure, the District reserves the right to reject any or all proposals. On the date that the Agreement is signed, all applications and related material submitted in response to this solicitation become a part of the property of the District and public record.

5. Applicant's Admonishment

This solicitation contains the instructions governing the requirements for funding projects submitted by interested Applicants, including the format in which the information is to be submitted, the material to be included, the requirements that must be met to be eligible for consideration, and Applicant responsibilities. Applicants must take the responsibility to carefully read the entire solicitation, ask appropriate questions in a timely manner, submit the application with all required responses in a complete manner by the required date and time, and make sure that all procedures and requirements of the solicitation are followed and appropriately addressed.

6. Agreement Requirements

The content of this solicitation and each grant Recipient's application shall be incorporated by reference into a final grant agreement. The District reserves the right to negotiate with Applicants to modify the project scope, the level of funding, or both. If the District is unable to successfully negotiate and execute a funding agreement with an Applicant, the District, at its sole discretion, reserves the right to withdraw the pending award and fund the next highest ranked eligible project. This does not limit the District's ability to withdraw a proposed award for other reasons, including for no cause.

7. No Agreement Until Signed

No agreement between the District and the successful Applicant is in effect until the agreement is signed by the Recipient and signed by the authorized District representative. Costs are only subject to reimbursement by the District after execution; no costs incurred prior to execution of the agreement are reimbursable.

8. No Modifications to the General Provisions

Because time is of the essence, if an Applicant at any time, including after Preliminary Grantee Selection, attempts to negotiate, or otherwise seeks modification of, the application or proposed award, the District may reject an application or withdraw a proposed award.

9. Payment of Prevailing Wages

If applicable, all Applicants must read and pay particular attention to prevailing wages and labor compliance. Prevailing wage rates can be significantly higher than non-prevailing wage rates. Failure to pay legally-required prevailing wage rates can result in substantial damages and financial penalties, termination of the grant agreement, disruption of projects, and other complications.

10. Solicitation Cancellation and Amendments

The District reserves the right to cancel this solicitation, revise the amount of funds available under this solicitation, amend this solicitation as needed, and reject any or all applications received in response to this solicitation.

Insurance

The selected applicant(s) is required to maintain sufficient insurance, licenses, or other required certifications for the type of work being performed. The District may require specific insurance coverage be established and maintained during the course of the work and as a condition of award or continuation of contract.

Reporting Requirements

All projects that receive funding under this program must comply with the requirements described in Section H of Chapter 3 in the Community Air Protection Incentives 2019 Guidelines^{vii}. This will involve the preparation of Semi-annual and Yearly Reports, which the District will prepare based on information collected from the selected Applicant(s). Applicant(s) must ensure that project-related information is complete, correct, supported by documentation, and supplied to the District upon request for the preparation of the reports. Some of the information to be included in these reports is described below:

- Project information, including but not limited to the following:
 - Location information.
 - o Priority population identification, if applicable.
 - Approach for identifying beneficial projects (e.g. outreach efforts, community-based organization letters, etc.).
 - o Project benefits (e.g. reduction of emissions, greater mobility, etc.).

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- Program-level information, including but not limited to the following:
 - o Employment benefits and outcomes (jobs).
 - Public transparency and outreach events (outreach).
- Status of projects and funds for each grant year of CAP incentives
- A list of any projects identified as nonperforming and a brief narrative of any related enforcement actions

The above is not an exhaustive list of reporting requirements for the selected Applicant(s) in this program and the District will work with the Applicant(s) to ensure that the required data and information are collected for the reports. For more information, please refer to the Community Air Protection Incentives 2019 Guidelines.

Applicant Workshop

The District will host an informational meeting to address questions from Applicants interested in submitting a proposal. This meeting is open to the public and simultaneous interpretation will be provided upon request. Attendance at the informational meeting is NOT a requirement for submitting a proposal.

The information meeting will be held on June 28, 2022 at 11:00 AM via the link below: https://us06web.zoom.us/j/85431565758?pwd=R0Z1cElHaWVidFZmZnlZU29oSDVvQT09

Please email the District's contact person below to RSVP for this RFP informational meeting.

Contact Person

All questions concerning this RFP and application submittals should be directed to:

David Lopez
Supervising Air Quality Specialist
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave
Fresno, CA 93726-0244
Phone (559) 230-6144

Email: David.Lopez@valleyair.org

Shafter Community Emissions Reduction Program 2022 RFP for Urban Greening

https://ww2.arb.ca.gov/resources/documents/cci-quantification-benefits-and-reporting-materials?corr

Accessed: February 2021.

https://cadwr.app.box.com/s/5k39tv10u42rp5bn2uebd7fodkxzgve7

Accessed: February 2021.

https://ww2.arb.ca.gov/sites/default/files/2020-

10/cap incentives 2019 guidelines final rev 10 14 2020 0.pdf

Appendix H, CAL FIRE Urban and Community Forestry Grant Guidelines. Available at: https://www.fire.ca.gov/media/9653/cal-fire-ucf-cci-2019-20_grant-guidelines_final.pdf#page=54 Accessed: March 2021.

[&]quot;Urban Greening Program Final Guidelines. Available at: https://resources.ca.gov/grants/urban-greening/ Accessed: February 2021.

iii CARB Urban Greening Calculator Tool (Version 3). Available at:

iv WUCOLS IV Database. Available at https://ucanr.edu/sites/WUCOLS/ Accessed: February 2021.

^v DWR Water Budget Workbook. Available at:

i-Tree Planting Calculator v2.1.2. Available at: https://planting.itreetools.org/ Accessed: February 2021.

vii Community Air Protection Incentives 2019 Guidelines. Available at:

Exhibit A



2. Physical Address:

3. City:



URBAN GREENING

APPLICATION

Urban Greening Emission Reduction Program is part of <u>California Climate Investments</u>, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment — particularly in disadvantaged communities.

State:

Zip Code:

SECTION 1 - APPLICANT INFORMATION (PLEASE PRINT OR TYPE)

1. Organization, Company, or Proprietor's Name (as it appears on Form W-9):

6.	Mailing Address (if different from abo	ove):				
7.	City:	8.	State:			9. Zip Code:
SECTION 2- CONTACT INFORMATION (PLEASE PRINT OR TYPE)						
	IMARY CONTACT INFORMATION First and Last Name:					2. Title:
I.	FIISLAND LASLIVAINE.					Z. Title.
3.	Phone Number:			4.	Fax I	Number:
5.	Alternate Contact Number:			6.	Ema	ail (required):
SIC	SNING AUTHORITY INFORMATION	(IF D	IFFEREN	NT F	ROM	ABOVE)
1.	First and Last Name:					2. Title:
3.	Phone Number:			4.	Fax N	Number:
5.	Alternate Contact Number:			6.	Email	ail (required):

SECTION 3 — PROJECT INFORMATION (PLEASE PRINT OR TYPE)

Applicant may submit answers to this section on a separate document so long as the proposal answers each question in the order presented and the responses are numbered accordingly.

Pro	pject Type: Urban Greening
1.	Project Summary Briefly describe your project including committed partners, expected implementation period, project costs and how the project will mitigate air quality impacts.
2.	Location of Project Provide address or cross-streets and describe surrounding area. Please attach photographs of the project site, and aerial photo of the project from an online resource, and a representation of the project plan area (i.e., site plan).

3.	Is the applicant the property owner of the land on which the project will be implemented? ☐ Yes.
	 No. Please provide the name and contact information for the Property Owner(s) of Each Parcel within Project Footprint or provide a demonstrated plan to obtain the authority from the property owner(s).
4.	Describe Proposed Greenery
	Include quantity of each plant or tree to be planted. Also note environmental benefits of the selected species (e.g., if the species is native, drought resistant, non-allergenic, or low-BVOC emitting), if possible.
5.	Area of Project Footprint to be created or Enhanced (acres or square footage)
6.	Proposed Irrigation Systems Describe the type of irrigation systems (e.g., drip, overhead spray)

7. Project Limitations		
Describe any possible project limits such as parking, hours of operation, available staffing, user fees,		
seasonal restrictions, or other ecological considerations.		
8. Sensitive Receptors		
Provide a list of sensitive receptors (e.g., schools, day	cares, residences) within 1,000 feet of the project	
Name of Location	Distance from Project	

9. Estimated Timeline for Project Implementation

Provide an estimated timeline for project implementation assuming project is notified of grant approval within 90 working days of submittal of application. Include preliminary design, environmental documentation, permitting, long-term operations and				
maintenance	commitments, and any other relevant actions as steps in this timeline.			
Date	Action			
Describe the	measures that will be utilized to assure completion of the project within the indicated time.			

Name	Title/Position	implementation and their roles. Project Role
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_		
4 D 1 (O (
1. Project Costs	ad acata of the project	
Description	ed costs of the project.	Cost
Supplies and Materials		Cost
Labor and Construction		
Contracted Services		
Signs and Interpretive A	Aids	
Non-Construction Costs		
Contingency Costs		
Other:		
otal Project Cost		
Duraido sustas et un	-!	
Provide quotes of pro	oject costs identified above (s	ubmit with application).
2. Funding amount re	augatadı	
12. I unumg amount ic	questeu.	
3. Additional Funding	Secured for this Project:	
Include source of fun		
	3	

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CERTIFICATIONS FORM

I have read the Eligibility Criteria and Program Guidelines and I agree to ALL the following terms and conditions by signing below:

- I have not purchased, made any payments toward, or began any work, nor will I, until I have an executed contract from the District.
- I understand that submission of this application does not guarantee incentive funding for the project.
- I am the property owner, have documented authority from the property owner, or have a demonstrated plan to obtain the authority from the property owner to construct and maintain the Urban Greening project as described in the project application.
- I agree to complete the project implementation phase within three years of the contract execution date and maintain the project for a minimum of 10 years.
- I will make the project site available for inspection if requested by SJVAPCD and/or CARB staff during the ten (10) year contract period.
- I will provide photo documentation upon completion of the project.
- I will provide annual or bi-annual status updates in the form of a photo update and/or a tree condition report to ensure project maintenance is occurring throughout the contract period.
- I understand it is my responsibility to contact the local County Agricultural Commissioner's Office before obtaining any plant material originating from outside respective county to ensure all the requirements for movement of plant material into respective county are met.
- I understand, where feasible, projects shall provide public access.
- I will select plant species that maximize GHG reductions and minimize ROG (BVOC) and allergenic pollen.
- Project plan incorporates recommendations in the anti-displacement resources provided.
- All property taxes are current at the time of application.
- I understand that I am responsible for obtaining any permits required.
- Our organization, along with any project partners have the financial capacity to complete, operate, and maintain the project.
- I understand that any funds required from other sources must reasonably be expected to be available in the time frame needed to carry out the project.
- I understand that the final funding amount reimbursed may be less than the maximum incentive amount if the final invoice amount for the eligible costs of the project is less than the maximum incentive amount.
- I understand that the selection of a third party contractor to perform any or all of the project is completely my choice and the District does not endorse, or is not in partnership with any such contractors and shall not be responsible for any disputes arising from the work performed between the applicant and the contractor. The District will not be held liable for any disputes, circumstances or events that occur between the applicant and contractor. Contractors are independent contractors: they are not officers, representatives, agents, servants, employees, partners, associates, or joint ventures of the District.

June 2022 Application

- Projects funded by District will not be used as marketable emission reduction credits, to offset any
 emission reduction obligation, or for credit under any federal or state emission averaging, banking
 and trading program. In addition, projects funded through this program may not be used to
 generate a compliance extension or extra credit for determining regulatory compliance.
- Any current financial incentive that directly reduces the project cost, including tax credits or deductions, grants, or other public financial assistance for the same project, must be disclosed to the District.

I hereby certify that all	I information provided in t	this application and	d any attachments are	true and correct to the
best of my knowledge			-	

Signing Authority's Signature:	Date:
Print Name:	Title:

APPLICATION PACKET CHECKLIST

All proposals must be submitted according to specifications set forth in the RFP. Failure to adhere to these specifications may cause for rejection of proposal. Once submitted, proposals cannot be altered without the prior written consent of the District. A complete application packet includes the following items:

Completed Application, no fields left blank.

Completed Certifications Form section, signed by Applicant.

First page of IRS Form W-9.
 Copies of the applicant's results from the "GHG Summary" tab and "Co-benefit Summary" tab from the California Natural Resources Agency (CNRA) Draft Urban Greening Benefits Calculator Tool
 Dated and itemized Quote(s) for the project costs.
 Aerial map of the project from an online resource
 Photographs of the project site and a representation of the project plan area (i.e. site plan).

All proposals are due no later than 5:00 PM, July 28, 2022. Late proposals will not be accepted under any circumstances.

Please submit your completed application packet via <u>one</u> of the following methods below to avoid duplicate submittals:

Email: grants@valleyair.org

(Subject line must indicate Shafter Urban Greening Incentive Program and applicant's name)

-or-

Mail: SJVAPCD Attn: Grants and Incentives 1990 East Gettysburg Avenue Fresno, CA 93726-0244

Don't forget to retain a full copy of the completed application for your own records.

For additional assistance, please contact staff in the Grants Department at (559) 230-5800

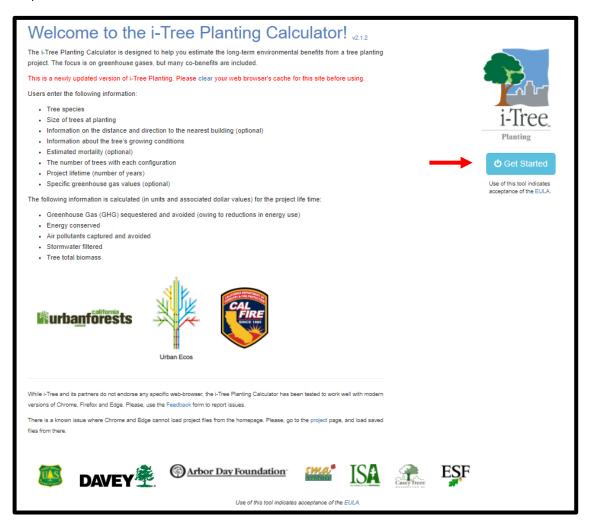
Exhibit B

Vegetative Barrier/Urban Greening Tools - User Guides

i-Tree Planting Calculator User Guide

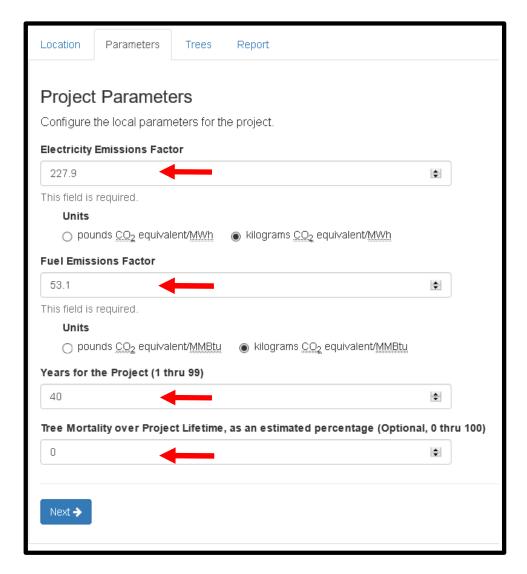
The tool **i-Tree Planting** should be used in order to help estimate the tree carbon storage, energy savings, and pollution reduction due to each group of trees to be planted. This tool can be found at https://planting.itreetools.org/

Step One – Open Tool. Once at the website, click "Get Started" on the right of the screen to access the tool, as shown below:



Step Two – Specify Project Location. Once in the tool, enter the project location (state, county, then city) as prompted from the three dropdown menus. Click next to continue.

Step Three – Specify Project Parameters. On the Project Parameters page, the Electricity Emissions Factor, Fuel Emissions Factor, Years for the Project, and Tree Mortality over Project Lifetime are all adjustable. Per CNRA guidelines, the Electricity Emissions Factor should be 227.9 kg CO2e/MWH and the Fuel Emissions Factor should be entered as 53.1 kg CO2e/MMBtu. The Years for the Project value should represent the total years of tree growth 40 years from the project start date. For example, for trees planted in the first year of the project, enter "40." For trees planted in the second year, enter "39," and so on. The Urban Greening Benefits Calculator Tool will account for the Tree Mortality over the Project Lifetime, so please enter zero for this field. See the following screenshot for an example of what this page may look like for a project within the San Joaquin Valley:



After making this change, hit next again to progress to the next tab, "Tree Planting Configurations."

Step Four – Specify Units for Tree Planting Configurations. At the top of the Tree Planting Configurations page, the units can be adjusted between English and Metric, and it can be selected whether the tree species will be listed using their common or scientific names.

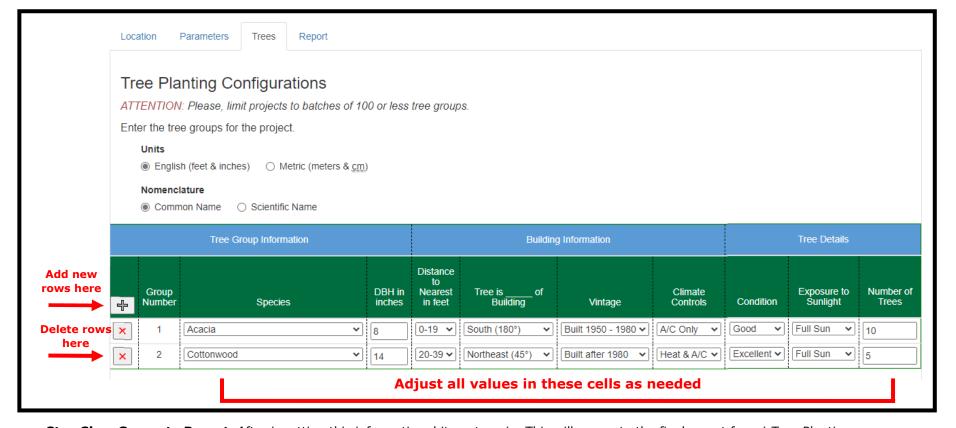
Step Five – Enter Tree Planting Configuration Information. After the units and nomenclature items are selected (under Step Four), the following must be entered:

- Tree Group Information
 - Species of tree (select from dropdown)
 - o Diameter at breast height (DBH) at time of planting
- Building Information
 - Distance to nearest building (select from dropdown)
 - Direction from nearest building (select from dropdown the cardinal direction [e.g., North South, etc.] in which the tree is located when standing at the building)
 - Age of building (select from dropdown)
 - Climate controls within the nearest building (select from dropdown)
- · Tree Details
 - Tree condition (select from dropdown)
 - Exposure to sunlight (select from dropdown)
 - Number of trees to be planted

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This information must be entered for each different group of trees that will be planted. A new group is required whenever any of the above parameters are different for a set of trees. To add a new group of trees, hit the plus sign at the far left of the table. To remove a group, click the X at the left of the row that needs to be removed.

An example of this completed tab with two groups of trees is shown below:



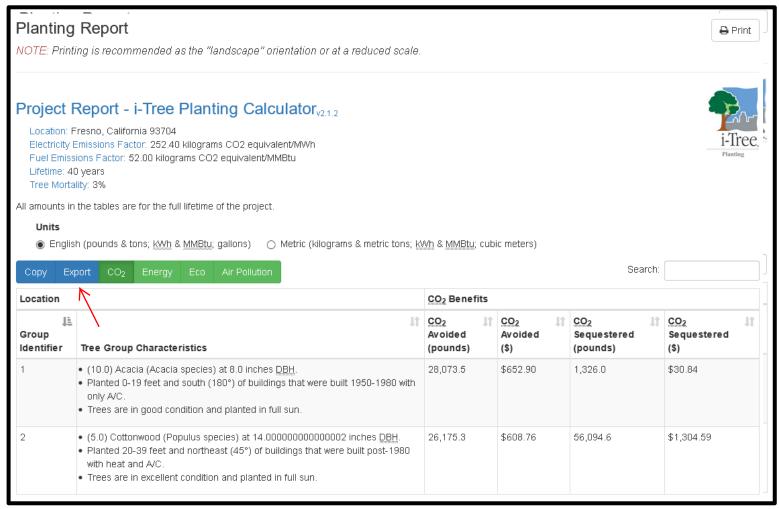
Step Six – Generate Report. After inputting this information, hit next again. This will generate the final report from i-Tree Planting.

The report has four sections within the webtool:

- "CO2" shows the pounds of CO2 avoided and sequestered and the resultant cost savings.
- "Energy" shows the electricity and other fuel savings and resultant cost savings.
- "Eco" shows the total tree biomass, rainfall interception, and the avoided runoff in gallons and resultant cost savings.
- "Air Pollution" shows the total mass of several key air pollutants that was either avoided (via deposition and dispersion) or removed (via absorption) as a result of the project.

In order to see values from all four of these tabs at once, proceed to Step Seven – Export Report.

Step Seven - Export Report.

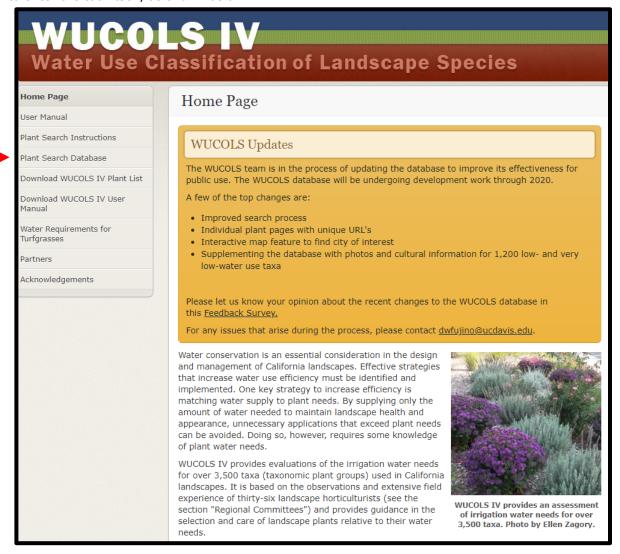


Hitting export will generate an Excel spreadsheet with all relevant values included. These values will need to be imported into tab "Tree Planting – ITP" in the CNRA Calculator Tool.

Water Use Classification of Landscape Species (WUCOLS IV) Tool User Guide

The University of California Agriculture and Natural Resources (UC ANR) **WUCOLS** tool should be used in conjunction with the DWR Water Budget Workbook in order to estimate the amount of water and type of irrigation that this project will require. This tool is available here: https://ucanr.edu/sites/WUCOLS.

Step One – Open Plant Search Database. From the tool home page, click "Plant Search Database" to enter the tool itself, as shown below:



Clicking that link will open the Plant Search Database.

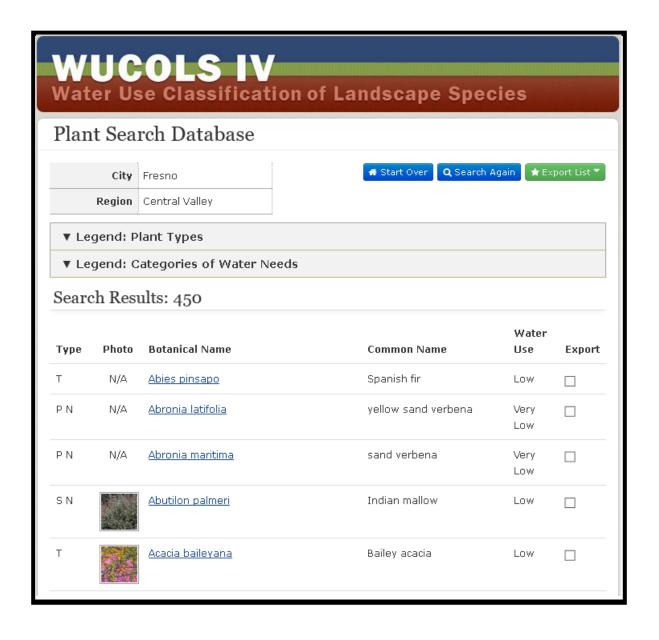
Step Two – Enter City Name. Enter the city in which the proposed project will be located using the drop-down menu or "Find a city on the map" option.

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Step Three – Choose Plant Type. Once the city name is entered, there are two options. If the types of plant and greenery for the project have already been determined, use the "Plant Name" search box to choose the specific plants and greenery. If not, then the general Plant Type can be chosen from the list on the right, and the water usage can be chosen from the checklist on the left. In the example below, the user selected California native trees that require very low or low water usage within Calexico:

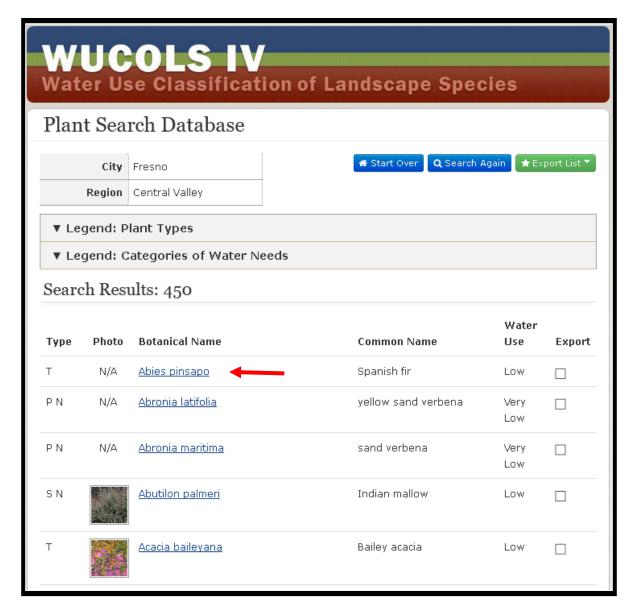


Step Four – Search Plants. After the options have been set, click "Search Plants" on the bottom left of the screen in order to view the results. The top results of the plant type selected in Step Three appear alphabetically as shown on the following page:



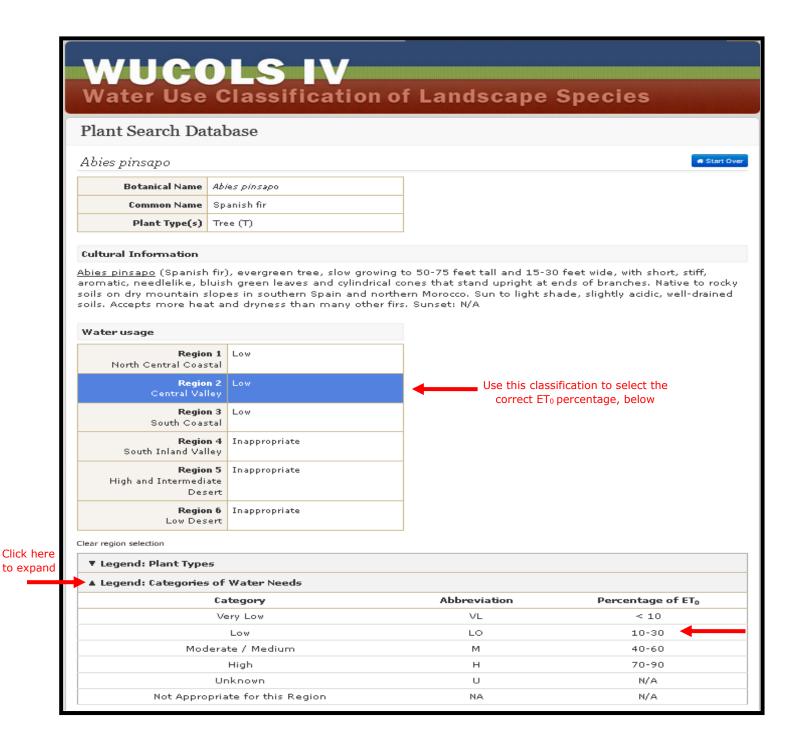
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Step Five – Choose Plant Type. Once an appropriate plant has been identified, or once the type of plant that has already been chosen for this project is found, click on its name. An example for the first search result, *Abies pinsapo*, is shown below:



Step Six – Obtain Evapotranspiration Rate. On the next page, click on the text "Legend: Categories of Water Needs" in order to display the evapotranspiration rates for the chosen plant. Look for the value that matches the water usage classification for that plant, which should be highlighted in blue. An example for the first search result, *Abies pinsapo*, is shown on the following page:

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The Evapotranspiration Rate, ET_0 , is shown in the "Percentage of ET_0 " column. Take note of the average value from the column "Percentage of ET_0 ," shown above. In this case, the average would be 20%.

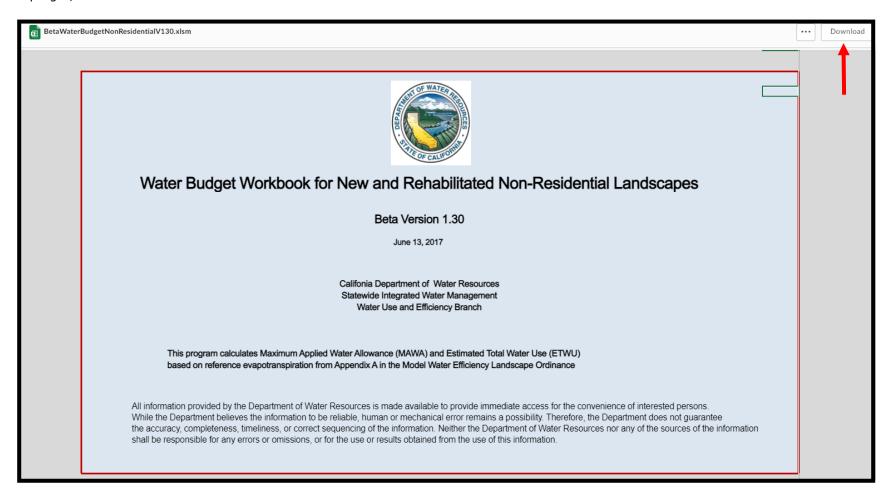
The ET₀ value needs to be obtained for all plants that are currently at the proposed project site, as well as all of the species that would be planted as part of the project itself. Once these values have been collected, they can be entered into the next tool, the DWR Water Budget Workbook.

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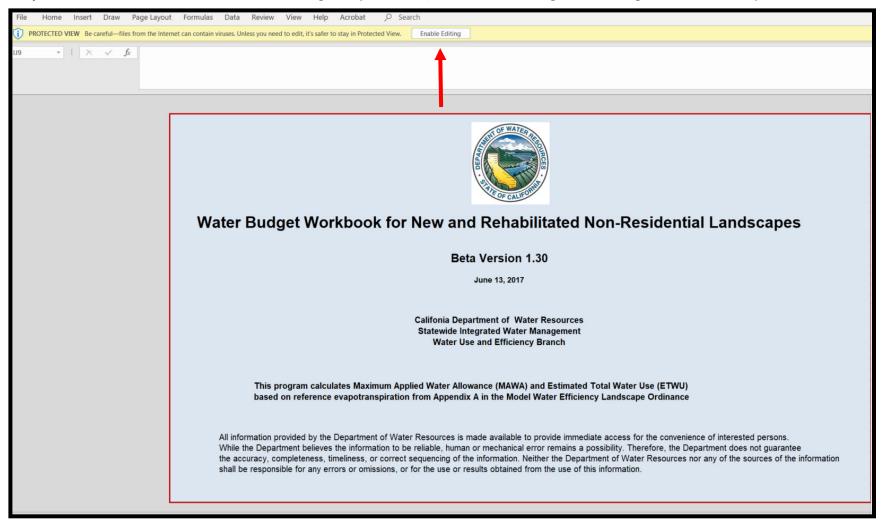
DWR Water Budget Workbook User Guide

After the WUCOLS tool is run, the California Department of Water Resources' Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes ("DWR Water Budget Workbook") should be used in order to estimate the amount of water and type of irrigation that the proposed project will require. This tool is available for download here: https://cadwr.app.box.com/s/5k39tv10u42rp5bn2uebd7fodkxzgve7.

Step One – Download Tool. Clicking the link above opens an embedded workbook. In order to access the tool in Excel, click "Download" in the top right, as shown below.



Step Two - Enable Workbook. After downloading the spreadsheet, click "Enable Editing" in order to gain access to the spreadsheet.



This tool consists of three main tabs: Maximum Applied Water Allowance (MAWA), Estimated Total Water Use (ETWU), and Special Landscape Area (SLA).

For all proposed projects, this entire workbook must be filled out twice:

- Once using the current landscape characteristics of the proposed project site ("Pre-Project Scenario"), and
- Once accounting for the landscape characteristics after the proposed project is implemented ("Post-Project Scenario").

To do so, it is recommended that the applicant save two copies of the Water Budget workbook: one for the Pre-Project Scenario, and one for the Post-Project Scenario.

Workbook cells highlighted in blue are ones for which data should be entered. Cells highlighted in tan display results and should not be adjusted.

"MAWA" Tab

Steps One through Three should be performed in the blue highlighted cells in the "MAWA" tab. For reference, a screenshot of this tab is provided on the next page. Note that there is additional instruction to the left of the data entry in this tab.

Step Three – Specify Project Location. In the tab "MAWA," first select the city where the proposed project will be located.

Step Four – Specify Project Area. Next, enter square footage of the landscape area that is irrigated via overhead spray, as well as the square footage of landscape area that is irrigated by drip irrigation. Where prompted, also enter the square footage of any special landscape area on the project site. Special landscape area includes recreational area, area permanently and solely dedicated to edible plants, and area irrigated with recycled water.

Step Five – Specify Project Precipitation. If known, enter the annual precipitation at the project site in inches per year. If the annual precipitation is unknown, this cell can be left blank.

Enter	value in Pale Blue Cells	O WATER				
Tan Cells Show Results						
Messages and Warnings						
Olish and the black and an electric Black Olive Name	Fresno	▼ me of City				
Click on the blue cell on right to Pick City Name ET _o of City from Appendix A		ET _o (inches/year)				
E10 of City from Appendix A						
	23000	Overhead Landscape Area (ft²)				
	27000	Drip Landscape Area (ft²)				
	43000	SLA (ft²)				
Total Landscape Area	93,000					
Results:						
(ET₀) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) X SLA)]	2,075,040	Gallons				
		Cubic Feet				
	2,774					
		Acre-feet				
MAWA calculation incorporating Effective Precipitation (C Precipitation (Optional)		Millions of Gallons				
ET _o of City from Appendix A	51	ET _o (inches/year)				
Total Landscape Area	93,000	LA (ft²)				
Special Landscape Area	43,000	SLA (ft²)				
		Total annual precipitiation (inches/year)				
Enter Effective Precipitation	0.00	Eppt (in/yr)(25% of total annual precipitation)				
Results:						
MAWA = [(ET _o - Eppt) x (0.62)] x [(0.45 x LA) + ((1.0 - 0.45) x SLA)]	-	Gallons				
,, , , , , , , , , , , , , , , , , , , ,	-	Cubic Feet				
	-	HCF				
	-	Acre-feet				
		Millions of Gallons				

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Next, move to tab "ETWU."

"ETWU" Tab

Steps Six through Nine should be performed in the blue highlighted cells in the "ETWU" tab. For reference, a screenshot of this tab is provided on the next page.

Note that after download, the tool will display example data in this sheet, with six hydrozones listed. Delete the irrigation type, plant factor, and hydrozone area columns before starting.

Step Six – Specify Irrigation Type. Fill out the irrigation type (overhead spray or drip) for each hydrozone. A hydrozone is a portion of the landscaped area having plants with similar water needs. If two different types of tree are planted as part of this project, then each type of tree qualifies as its own hydrozone. Additionally, if certain areas of the landscape are irrigated in different ways then those areas would constitute different hydrozones as well. Special Landscape Areas do not need to be entered on this tab.

Step Seven – Specify Area of Each Hydrozone. For each hydrozone, enter the area in square feet in the column labelled "Hydrozone Area Without SLA." The total area entered for all hydrozones on this page should match the total area entered on the "MAWA" tab. Special Landscape Areas do not need to be entered on this tab.

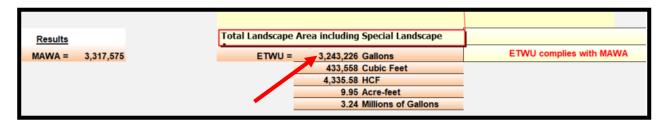
Step Eight – Enter Plant Factors. Next, input the correct plant factor for each hydrozone. This plant factor will be the average evapotranspiration rate (ET_0) that was obtained from the WUCOLS tool. Each type of plant will have its own plant factor, and thus may represent its own hydrozone. Special Landscape Areas do not need to be entered on this tab.

These three items will be input into the columns highlighted in blue, as shown below for a project with six example hydrozones:

		Estimate	ed Total Water I	Use		
tion: ETWU = E	T _o x 0.62 x [((PF x HA)/IE) + SLA]; Cons	idering precipit	ation ETWA = (ETo-Eppt	x 0.62 x [((Pl	F x HA)/IE) +SLA]
		Enter valu	ues in Pale Blue	Cells		
		Tan C	ells Show Resul	ts		
		Messa	ges and Warnin	gs		
Irrigation Eff	iciency Default Value	for overhead 0.75	and drip 0.81.			
Plant Water	Use Type		Plant Factor			
Very Low			0 - 0.1			
Low			0.2 - 0.3			
Medium			0.4 - 0.6			
High			0.7 - 1.0			
SLA			1.0			
Hydrozone	Select System From the Dropdown List click on cell below	Type (s) (low, medium, high)	Plant Factor (PF)	Hydrozone Area (HA) (ft²) Without SLA	Irrigation Efficiency (IE)	(PF x HA (ft²))/IE
Zone 1	Overhead Spray	High	0.70	5,000	0.75	4,60
Zone 2	Overhead Spray	Medium	0.50	4,000	0.75	2,66
Zone 3	Overhead Spray	Medium	0.40	3,000	0.75	1,60
Zone 4	Drip	Low	0.30	7,000	0.81	2,59
Zone 5	Drip	Low	0.30	15,000	0.81	5,58
Zone 6	Drip	Low	0.20	16,000	0.81	3,98

Step Nine – View Results. At the bottom of this tab, the workbook will display the estimated total water usage as shown below. Note this value (in gallons) for both the pre- and post-project scenarios, as it will need to be entered into tab "Tree Planting-ITP" of the CNRA calculations workbook.

Projects must comply with MAWA, per California's updated Model Water Efficient Landscape Ordinance (MWELO).1 This workbook will show if a project complies with MAWA as shown in red font in the screenshot below.



Note that the DWR Water Budget Workbook also includes a third tab, "SLA." For purposes of these projects, the inputs on this tab do not affect the project results. Therefore, this tab can be ignored.

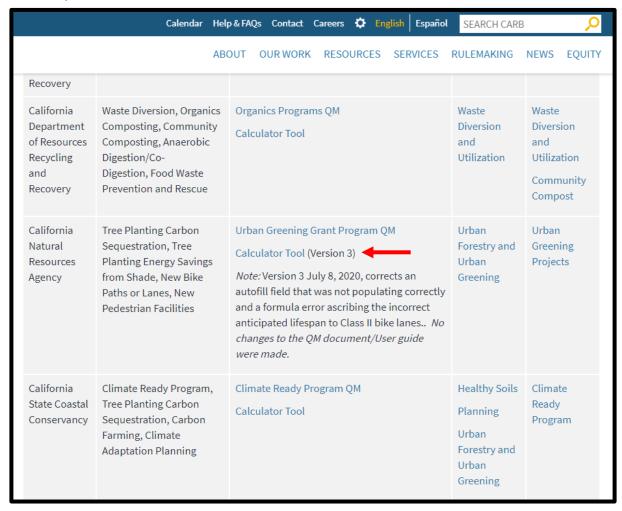
CNRA Benefits Calculator Tool User Guide

After using i-Tree Planting, WUCOLS IV, and the DWR Water Budget Workbook, the California Natural Resources Agency (CNRA) **Benefits Calculator Tool** can be completed for the proposed urban greening project.

To access the tool, visit the following site: https://www.arb.ca.gov/cci-resources.

Step One – Locate Tool. Scroll down to the section labelled "Natural Resources and Waste Diversion," then look for the California Natural Resources Agency's Urban Greening Program.

Step Two – Open Tool. Once identified, click the link for "Calculator Tool (Version 3)," as shown below, to open the tool. This will download an Excel file named "cnra_ug_finalcalculator_070820_v3.xlsx". Open the Excel file and click the prompt to "Enable Editing" if necessary.



Step Three – Enter Project Information. Within the Excel file, two main tabs need to be updated manually. The first is labelled "Project Info." This tab requires the applicant to enter the project name, contact information, and the requested funding amount. The items that should be filled out are highlighted in green.

While there are multiple line items set up for funding, the total amount of funding requested under the San Joaquin Valley AB 617 program should be entered in the row labelled "Total Urban Greening GGRF

Funds Requested," as shown below. Unless other funding is available, all other funding rows can be labelled as \$0.

Note to applicants: A step-by-step user guide, including a project example, for this Benefits Calculator Tool is available at: http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/cnra_ug_finaluserguide_050720_v2.pdf Third-party tools: This Benefits Calculator Tool requires data inputs obtained from several third-party tools. The following third-party tools are required to use this Benefits Calculator Tool: i-Tree Planting Available at: https://planting.itreetools.org/ i-Tree Tools Available at: https://www.itreetools.org/streets/index.php Water Budget Workbook for New and Rehabilitated Non-Residential Landscapes Available at: http://water.ca.gov/ Water Use Classification of Landscape Species (WUCOLS IV) Available at: http://ucanr.edu/ Information for using i-Tree tools is available in the user guide (see above). Information and examples for using the water tools is available in the Water Savings Assessment Methodology at: www.arb.ca.gov/cci-cobenefits. Urban Greening applicants must enter the applicable information in the table below before proceeding with the project-specific data on the Inputs tab. Project Name: Applicant ID: Contact Name: Contact Phone Number: Contact Email: Date Calculator Completed: **Enter requested funding amount here** Total Urban Greening GGRF Funds Requested (\$): \$ Other GGRF Leveraged Funds (\$): \$ Total GGRF Funds (\$): \$ Non-GGRF Leveraged Funds (\$): \$ \$ Total Funds (\$): Key for color-coded fields: Green Required input field* Grey Output field / not modifiable

After the "Project Info" tab has been filled out, go to tab "Tree Planting-ITP." Steps Four and Five should be entered on the "Tree Planting-ITP" tab.

Yellow Helpful hints / important tips

*See "Documentation" tab for additional information.

Step Four - Enter Water Usages.

At the top of the "Tree Planting – ITP" tab, there are two rows to enter the estimated annual baseline on-site water use and the estimated annual on-site water use after planting. Here, enter the estimate total water usage (ETWU) from the DWR Water Budget Workbook. Enter the value from the pre-project scenario in row 16, and the value from the post-project scenario in row 17, as shown below:

Estimated Change in Water Irrigation from Planting Trees		
Enter data below after using the UCANR Water Use Classification of Landscape Species (WUCOLS IV) and the DWR Water Budget Workbook for New and Rehabilitated Non-	-Residential Landscapes (Nater Budget Workbook).
If Project Involves Additional Irrigation, Estimated Annual Baseline On-site Water Use (gal/yr) Enter pre-project ETWU from DWR Workbook here		
lf Project Involves Additional Irrigation, Estimated Annual On-Site Water Use After Planting (gal/yr) _ Enter post-project ETWU from DWR Workbook here 💳		
Irrigation Savings Over 40 Year Quantification Period (gal)	0	

Step Five – Enter Data from i-Tree Planting. In the second table on the "Tree Plating – ITP" (shown below), enter the results from the i-Tree Planting Report as prompted. Enter the results for each individual group of trees in a separate row. Once all of the green cells below have been populated, this tool will calculate emission reductions as well as water and energy savings at the bottom of the tab.

Tree Planting Benefits Enter data below after using i-Tree Planting to estimate tree carbon storage, electricity savings, natural gas savings, and co-pollutants removed due to the groups of trees.									
Group Identifier	Tree Group Characteristics	Quantity of Trees to be Planted within this Tree Group	Carbon Stored in Tree Group Over the 40 Year Quantification Period (Ib CO ₂ e)	Electricity Savings From Tree Group Over the 40 Year Quantification Period (kWh)	Natural Gas Savings From Tree Group Over the 40 Year Quantification Period (MMBtu)	NO ₂ Removed Over the 40 Year Quantification Period (lb)	PM _{2.5} Removed Over the 40 Year Quantification Period (lb)	Rainfall Interception Over the 40 Year Quantification Period (gal)	Avoided Runoff Over the 40 Year Quantification Period (gal)

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The data from the i-Tree Planting output file should match the table above as shown below:

Data Label in Exported i-Tree Planting Report	Data Label in Tab "Tree Planting – ITP"
Group Identifier	Group Identifier
Tree Group Characteristics	Tree Group Characteristics
CO ₂ Sequestered (pounds)	Carbon Stored in Tree Group over the 40 Year Quantification Period
Electricity Saved (kWh)	Electricity Savings from Tree Group over the 40 Year Quantification Period
Fuel Saved (MMBtu)	Natural Gas Savings from Tree Group over the 40 Year Quantification Period
NO ₂ Removed (pounds)	NO ₂ Removed Over the 40 Year Quantification Period
PM _{2.5} Removed (pounds)	PM _{2.5} Removed Over the 40 Year Quantification Period
Rainfall Interception (gallons)	Rainfall Interception Over the 40 Year Quantification Period
Avoided Runoff (gallons)	Avoided Runoff Over the 40 Year Quantification Period

The workbook contains two additional data entry tabs highlighted in green. The "Tree Planting-ITS" tab should not be filled out (the "Tree Planting – ITS" tab is designed as an alternative input tab for use with alternative software that is no longer supported).

The "New Bike-Ped Infrastructure" tab is used for estimating benefits from implementation of new bicycle or pedestrian infrastructure. This action was not identified as a requirement in the Vegetative Barrier/Urban Greening Program Plan, so this tab may also be skipped.

Step Six – View Results. Results are viewed on the gray-highlighted tabs, "GHG Summary" and "Co-benefit Summary". The applicant does not need to fill in any information in these tabs. However, the applicant shall attach a copy of these results to the San Joaquin Valley Vegetative Barriers/Urban Greening Project Application form as prompted. Screenshots of these two tabs are shown on the following pages:

Tab "GHG Summary:"



California Air Resources Board

Benefits Calculator Tool for the Urban Greening Grant Program



California Climate Investments

Version 3 - July 8, 2020

Pro	ject	Name	
-----	------	------	--

Project Information				
Total Urban Greening GGRF Funds Requested (\$)	\$	-		
Other GGRF Leveraged Funds (\$)	\$	-		
Total GGRF Funds (\$)	\$	-		
Non-GGRF Leveraged Funds (\$)	\$	-		
Total Funds (\$)	\$	-		
		,		

GHG Summary				
GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Planting (MT CO ₂ e)	0			
GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Streets (MT CO₂e)	0			
GHG Benefit from Energy Savings Estimated Using i-Tree Planting (MT CO ₂ e)	0			
GHG Benefit from Energy Savings Estimated Using i-Tree Streets (MT CO ₂ e)	0			
Avoided GHG from Establishment of New Bicycle and Pedestrian Facilities (MT CO ₂ e)	0			
GHG Emissions from Tree Planting Project Implementation (MT CO ₂ e)	0			
Total Urban Greening GHG Benefit (MT CO ₂ e)	0			
Total GHG Benefit (MT CO ₂ e)	0			
Total GHG Benefit per Total Urban Greening GGRF Funds (MT CO ₂ e/\$)	0			
Total GHG Benefit per Total Funds (MT CO ₂ e/\$)	0			
	_			

Tab "Co-benefit Summary:"

Project Name:	
Co-benefits and Key Variables Sun	mman/
Urban Greening GGRF Funds	minary
Total PM _{2.5} Emission Reductions (lb)	0
Total NOx Emission Reductions (Ib)	0
Total ROG Emission Reductions (lb)	0
Total Diesel PM emission reductions (lb)	0
Remote PM2.5 Emission Reductions (lb)	0
Remote NOx Emission Reductions (lb)	0
Remote ROG Emission Reductions (lb)	0
Trees Planted	0
Total Water Savings (gal)	0
Annual Water Savings (acre feet/year)	0
Fossil Fuel Based Energy Use Reductions (kWh)	0
Fossil Fuel Based Energy Use Reductions (therms)	0
Energy and Fuel Cost Savings (\$)	\$0
Passenger VMT Reductions (miles)	0
Fossil Fuel Based Transportation Fuel Use Reductions (gal)	0
Travel Cost Savings (\$)	\$0
Total	
Total PM _{2.5} Emission Reductions (lb)	0
Total NOx Emission Reductions (lb)	0
Total ROG Emission Reductions (lb)	0
Total Diesel PM emission reductions (lbs)	0
Remote PM2.5 Emission Reductions (lb)	0
Remote NOx Emission Reductions (Ib)	0
Remote ROG Emission Reductions (lb)	0
Trees Planted	0
Total Water Savings (gal)	0
Annual Water Savings (acre feet/year)	0
Fossil Fuel Based Energy Use Reductions (kWh)	0
Fossil Fuel Based Energy Use Reductions (therms)	0
Energy and Fuel Cost Savings (\$)	\$0
Passenger VMT Reductions (miles)	0
Fossil Fuel Based Transportation Fuel Use Reductions (gal)	0
Travel Cost Savings (\$)	\$0

Exhibit C

Helpful Resources

Applicants are encouraged to review the following resources provided as they prepare their proposals.

Plant Selection Resources

- SelecTree: A Tree Selection Guide
 - https://selectree.calpoly.edu/
- Allergy-Free Gardening Considerations for Asthmatic and Sensitive Residents
 - http://www.allergyfree-gardening.com/
- California Native Plant Society Calscape Tool
 - o https://www.calscape.org/
- SMAQMD Landscaping Guidance
 - http://www.airquality.org/LandUseTransportation/Documents/LandscapingGui danceforImprovingAirQualityNearRoadwaysMay2020V2.pdf#page=21

Anti-Displacement Resources

- Greening without Gentrification Guide
 - https://www.ioes.ucla.edu/wp-content/uploads/Parks-Related-Anti-Displacement-Strategies-report-with-appendix.pdf

Additional Guidelines

- CAL FIRE Standards and Specifications for Purchasing, Planting, and Maintaining Trees, Appendix H
 - o https://www.fire.ca.gov/media/9653/cal-fire-ucf-cci-2019-20_grant-guidelines_final.pdf#page=54
- SMAQMD Vegetative Barrier Recommendations
 - http://www.airquality.org/LandUseTransportation/Documents/LandscapingGui danceforImprovingAirQualityNearRoadwaysMay2020V2.pdf#page=15
- USEPA Recommendations for Constructing Roadside Vegetation Barriers
 - https://cfpub.epa.gov/si/si public record report.cfm?Lab=NRMRL&dirEntryld =321772&simpleSearch=1&searchAll=Recommendations+for+constructing+ro adside+vegetation+barriers+to+improve+near+road+air+quality