



## Agriculture Energy Efficiency Program

Southern California Edison



May 2022

Karla Hendrickson Program Director (ICF) Caleb Hayhoe Program Manager (ICF)



#### **General Program Information**

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- AgEE Program Summary
- Budget and Savings Goals

#### **Measure Specifics**

- Measure and Incentive Details
- Primary Measure Listing

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- Contractor Eligibility
- Program Logic Model
- AgEE Program Targets
- Program Partners
- Marketing Tactics

#### **Discussion**

Stakeholder Questions and Comments

## ightarrow Agenda





# General Program Information

This webinar is designed to inform, educate, and solicit feedback from key stakeholders about Southern California Edison's (SCE's) Agriculture Energy Efficiency (AgEE) Program.



→ Purpose











- Implementation lead
- **Budget management and** incentive payments
- Marketing
- Information technology
- Lead outreach to the Controlled **Environment Agriculture, Winery,** and Non-Dairy Animal customer segments
- Industry partner engagement and outreach

- Woman-Owned Business
- Technical/engineering for **Controlled Environment** Agriculture
- Industry partner engagement and outreach
- Program-wide engineering support
- Custom and NMEC energy savings calculations
- Lead outreach to the Dairy Animal customer segment





## ICF Team





Karla Hendrickson Caleb Hayhoe **Program Director** 

Dr. Green ouse



Program Manager

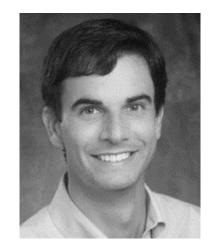


**Victor Vargas IT Solutions Lead** 



Amanda Tutera **Marketing Lead** 





Kyle Clark Strategic Advisor



Ben Cooper **Deputy Program** Manager



Dr. Nadia Sabeh Founder



**Eric Noller** Dairies and Post-**Harvest Processing Expert** 



#### Program Type

Resource Program

#### **Program Cycle Period**

• Four years (2022-2025)

#### Target Sector and Segments

- Agriculture (NAICS Code 11)
- Key Segments: Controlled Environment Agriculture, Non-Dairy Animal Production, Dairy Animal Production, Irrigated Crops, Cold Storage and Post Harvest Processing

#### Incentive Path(s) offered

Downstream/Direct Install

#### **Key Performance Metrics**

- Goal Accomplishment
- Cost Effectiveness
- Marketing Initiatives
- Enrollment in Hard-to-Reach/Disadvantaged
   Communities (HTR/DAC)
- Energy (kW and kWh)







## Program Budget for Four-Year Cycle: \$11,499,813

Program Savings Goals	2022	2023	2024	2025	Total
Gross Demand Reduction (kW)	1,953	2,374	1,071	1,083	6,481
Net Demand Reduction (kW)	1,390	1,693	932	943	4,959
Gross Energy Savings (kWh)	7,884,658	9,314,141	8,803,225	8,809,001	34,811,025
Net Energy Savings (kWh)	5,555,650	6,666,480	6,666,344	6,666,666	25,555,140





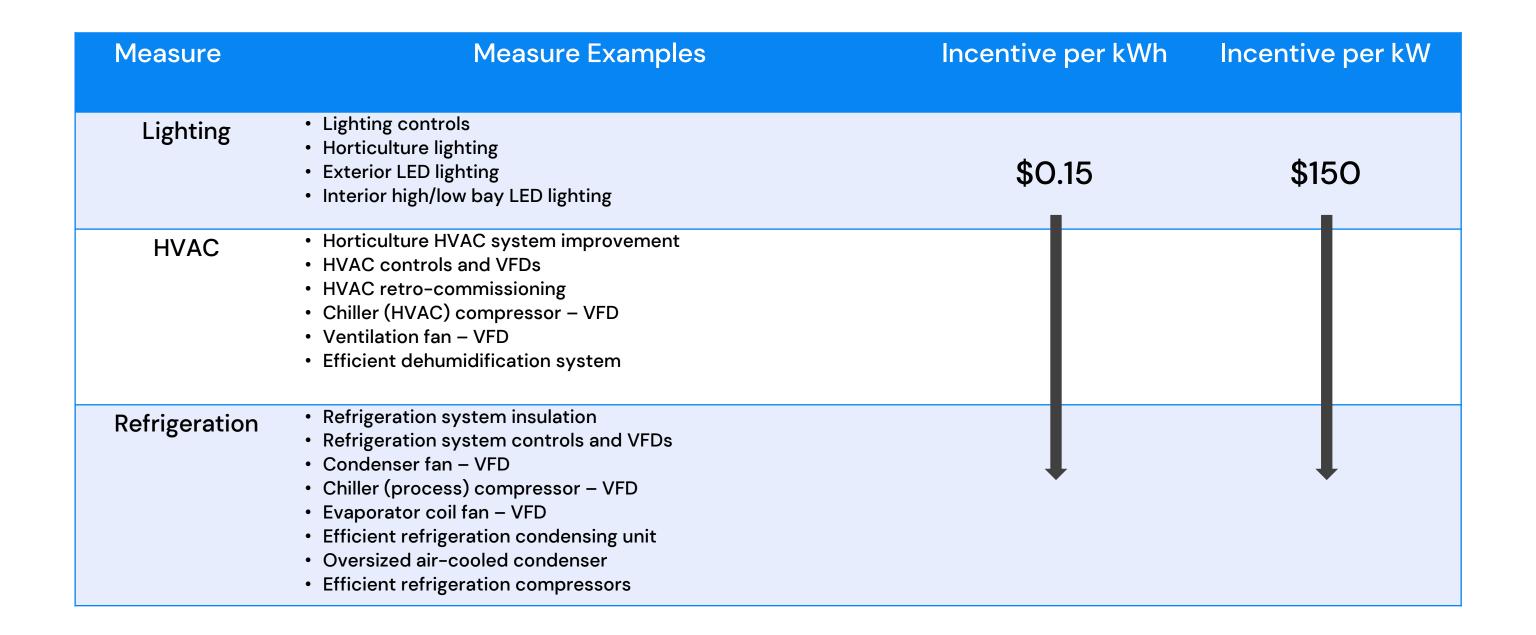


Measure Specifics

Measure	Measure Sizes	Incentive
Glycol Pump VFD	3hp – 25hp	\$1,500 - \$5,000 / unit
High-Low Bay LED Horticultural Lighting	4500 lumens – 65,900 lumens 130 LPW – 150+ LPW	\$30 - \$55 / unit
Efficient Ag Ventilation Fans	24 – 48 inch VSD	\$200 / unit \$195 / hp for VSD
Dust Collection Fan VSD	VFD on 10hp – 150hp motor	\$2,000 - \$15,000 / unit
VFD on Ag Well and Booster Pumps	<75 hp – 600hp	\$75 - \$200 / hp
Enhanced VFD on Ag Well and Booster Pumps	<75 hp – 600hp	\$150 / hp

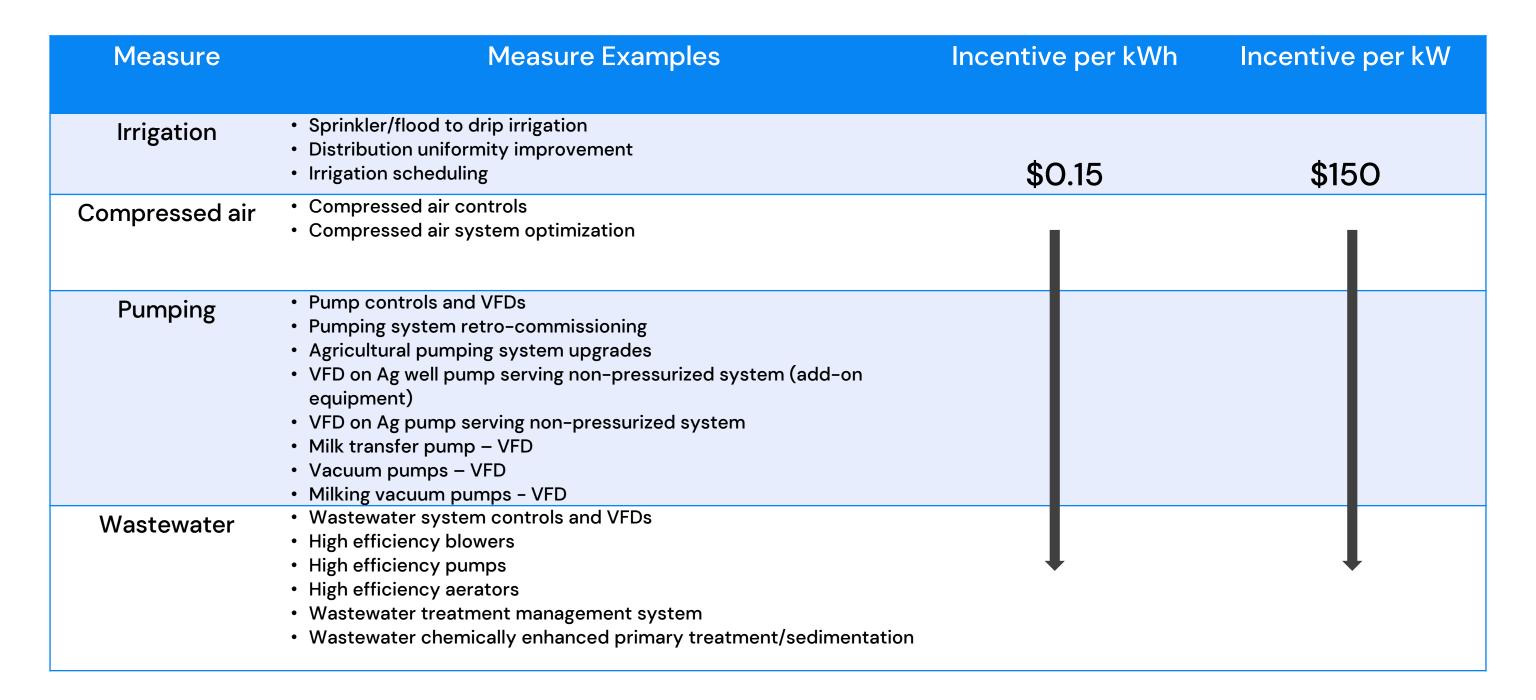
## → Measure and Incentive Details Deemed





#### → Measure and Incentive Details Custom + NMEC





#### → Measure and Incentive Details Custom + NMEC\*



#### Basic Requirements for All Measures

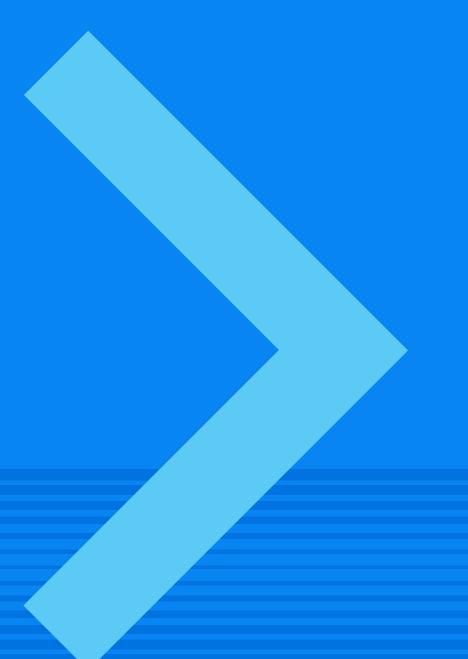
- Customers must meet general program eligibility requirements to apply for AgEE Program incentives
- All equipment must be new electric powered equipment
- Qualifying equipment must be purchased and installed between July 5, 2022, and December 31, 2025. The purchase date of the equipment must be within the calendar year that the application is submitted unless indicated otherwise.
- All required efficiencies must exceed Title 20 and 24 standards.

#### Access to Increased Incentives

• Customers who are classified as Hard-to-Reach (HTR) or who are located within a Disadvantaged Community (DAC) as defined by CalEnviroscreen 3.0 will receive a higher incentive

## Measure and Incentive Eligibility





**Delivery Details** 

#### Training and education on broader participation benefits

- Energy savings
- Non-energy benefits (e.g., increased yield, worker safety, etc.)
- Building energy assessments
- Energy benchmarking
- Technical support in selecting the most beneficial measures
- Ongoing guidance regarding measure installation and usage
- Financing assistance
- Support in gaining access to additional grant funding and financing options
- Dedicated outreach and increased incentives for DAC and HTR customers

## Program Delivery and Customer Services



- AgEE will develop a Trade Ally Network to connect customers with installation contractors who understand the specific needs of Agriculture businesses
- Customers may select the licensed contractor of their choice the Trade
   Ally Network will be provided as a service to customers

#### **Contractor Eligibility Requirements**

Have Current, valid Contractors State License Board (CSLB) license

Proof of current liability insurance

Current w-9

Additional certification (e.g., CALCTP) as defined by CPUC

Workforce Standards

Comply OSHA safety requirements as established by the governing

statutes, standards

or regulations

Attend All required program training

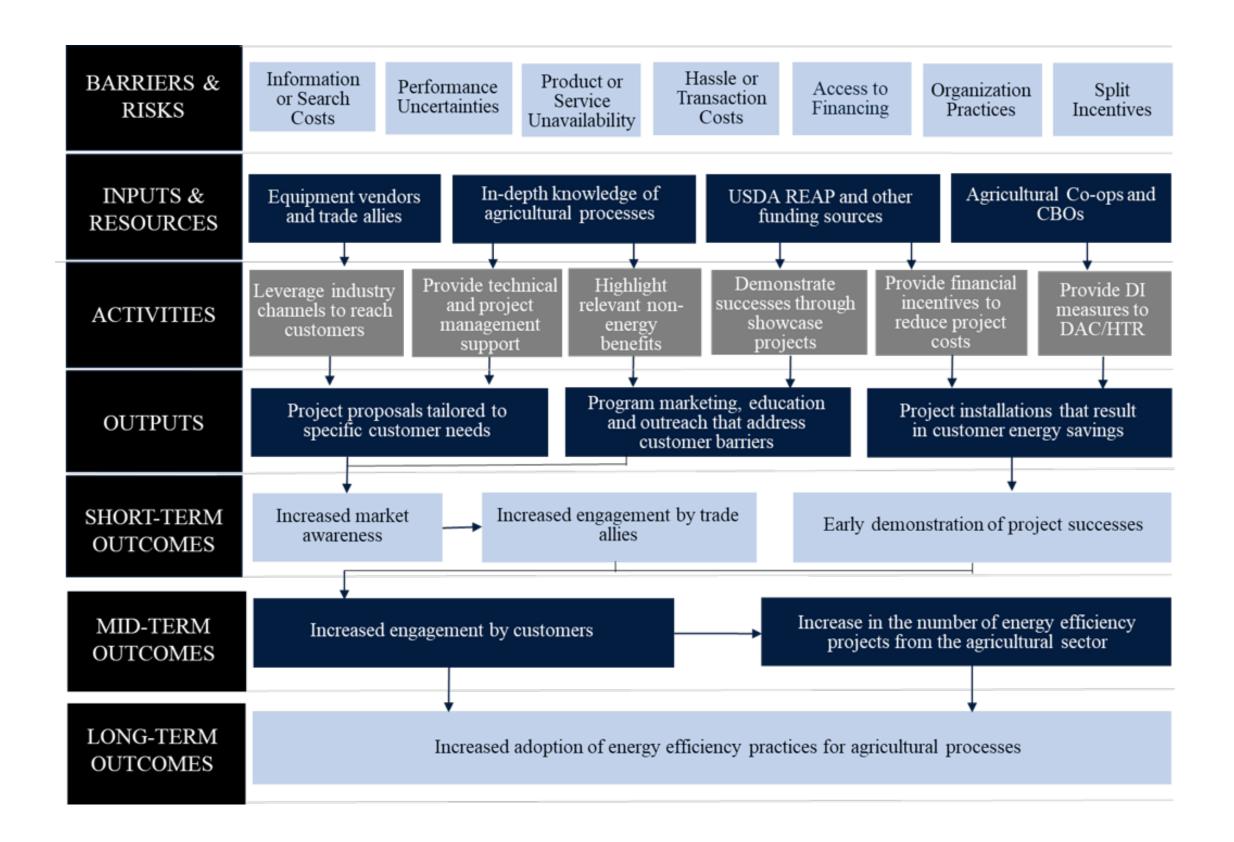
Follow Specified program complaint/dispute resolution procedures

Specified program standards for all work performed

Program quality assurance procedures

## → Contractor Eligibility





Program Logic Model

#### Marketing and Outreach

- •ICF creates market awareness through multiple channels:
- Digital marketing using website, banner ads and key word search and farm radio.
- Customer outreach via direct mail, target emial, and Account Managers.
- Partner with engineering firms, manufactures, and equipment vendors to identify opportunities.
- Partner with agriculture organizations and trade associations to provide technical training and webinars.

#### **Customer Enrollment**

- Customer learns about program through marketing and outreach activities.
- •Customer interested in participating and commits to initial involvement.
- ICF works with vendor and customer to bring in engineering experts.

#### **Technical Support**

- •ICF evaluates customer facilities to determine appropriate technical support services, identifying opportunities and developing project scope including:
- Project viability
- •Appropriate measures
- •Expected savings and incentives
- Cost-effectiveness
- •ICF delivers project scope to vendor and customer to help decision-making for installation.

#### Project Installation

•ICF works closely with engineers and equipment vendors to ensure successful installation.

#### Installation Verification

- •ICF verifies the installation per the QA/QC manual.
- •ICF revises savings calcuations as neccesary to reflect as-built conditions.

#### Incentive Payment

•ICF makes incentive check payment to customer to reduce the cost on the customer's bill.

#### **Results Reporting**

- •ICF reports final project savings.
- •ICF conducts postinstallation customer satisfaction survey.

## **Program Process Flow**

#### **Key Customer Details**

- Agriculture customers under NAICS code 11
- Valid SCE service account
- Largest concentration in the San Joaquin Valley, followed by Ventura, Riverside, and San Bernardino counties

#### **Key Customer Groups**

- HTR/DACs
- Estimated % of savings goals
  - 5% from HTR
  - 32.5% from DACs

#### **Customer Types**

- Controlled Environment Agriculture
- Non-Dairy Animal Production
- Dairy Animal Production
- Irrigated Crops
- Cold Storage and Post Harvest Processing







#### Colleges & Universities

 Cal Poly San Luis Obispo, UC Santa Barbara, California State University Extension System

#### **Farmer Trade Associations**

Farm Bureau, California
 Certified Organic Farmers

#### **Industry Associations**

Western United Dairymen,
 California Growers Association,
 California Fresh Fruit Association,
 Wine Institute, California Cannabis
 Industry Association, Plant
 California Alliance

## Government Agencies & Affiliated Groups

 California Department of Food and Agriculture, local Chambers of Commerce, local USDA offices

#### Service Providers for Farmers

Farm Credit

## Equipment Manufacturers & Distributors

 Horticultural Lighting, HVAC Systems, Lighting and HVAC controls, Pumping Systems







#### **Objectives**

- Communicate the benefits of program participation to identified eligible customers
- Empower the outreach team with promotional tools and materials
- Support engagement efforts with California's extended agriculture community

#### **Tactics and Resources**



24/7 digital access via website with key program information



Email newsletter to promote incentives, services, events, and technologies that may be available during the program period



Direct mail to targeted customers, including customers located within ZIP codes classified as Disadvantaged Communities



Informational collateral in English, Spanish, Simplified Chinese, and other languages as necessary



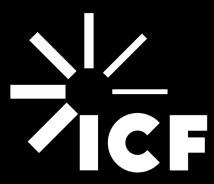
Industry engagement including event sponsorship, trade advertising, and association participation



→ AgEE Program Marketing







#### Get in touch with us:

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