Efficient Yields

Best practices on energy, water efficiency, and productivity

Managing Peak Loads and Renewables in CEA

April 18, 2023

PG&E

RESOURCE INNOVATION INSTITUTE

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Safety

Earthquake:
Drop
Cover
Hold

Evacuation Plan

Review Emergency Plan & Pack Go-Bag

Stretch, Get Up & Move

Visit: www.pge.com/emergencypreparedness

Class Survey (feedback)

- Click on the survey link in the chat box
- Written comments are very helpful
- Other topics? Other classes you want?
- Survey also sent in follow up email after the class

SECTION 01

INTRODUCTION

POLL ALERT!

What role do you play in the cultivation space?

- Grower
- Owner / Operator
- Consultant
- Other

Agenda

Introduction & Purpose

Energy Management 101

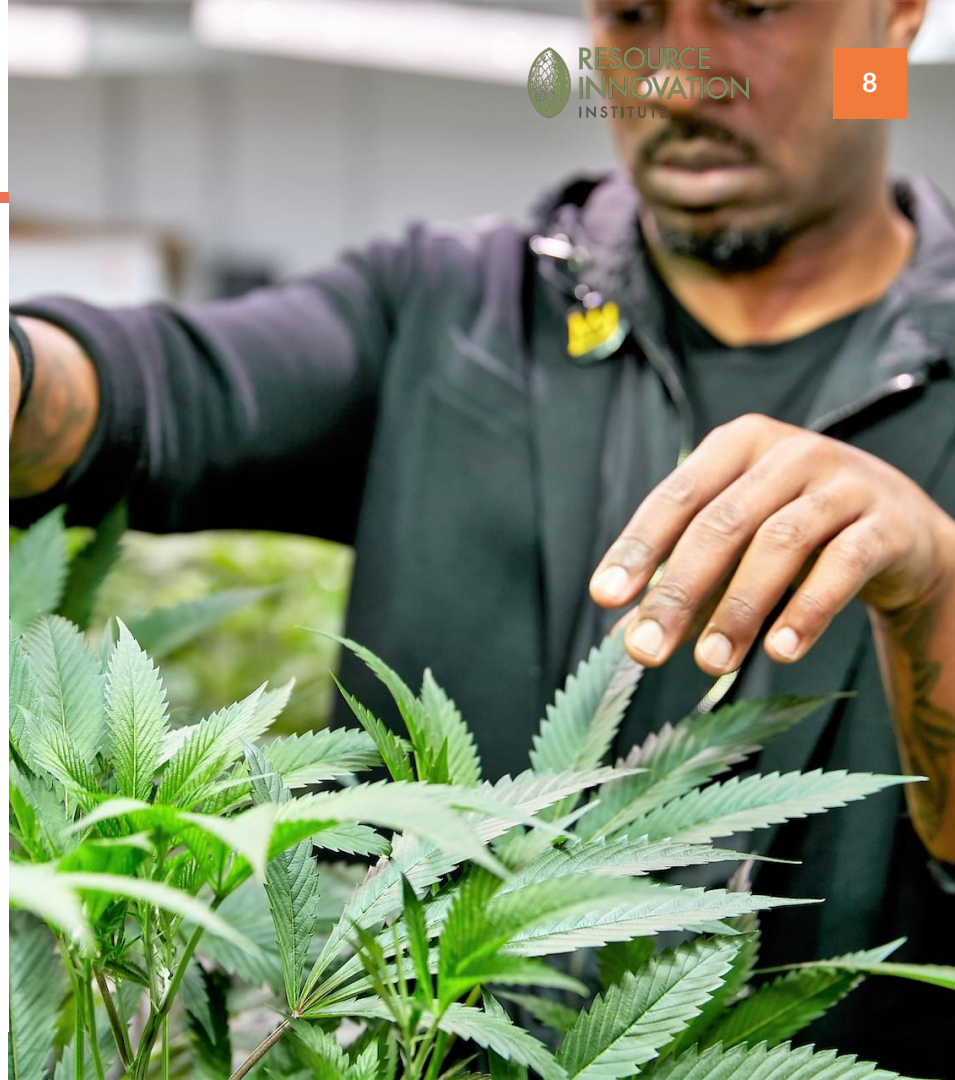
Planning & Management

On Site Energy Solutions

Utility & State Programs

Tips & tools slide

Q&A



Today's Experts

Carmen Azzaretti

Sultan Sabha
Project Manager Power Solutions (AMPS)

Sam Schmidt
Commissioning Project Manager

Today's Utility Representatives

Mary McDonald
Workforce Education & Training

Scott Bond
Account Manager

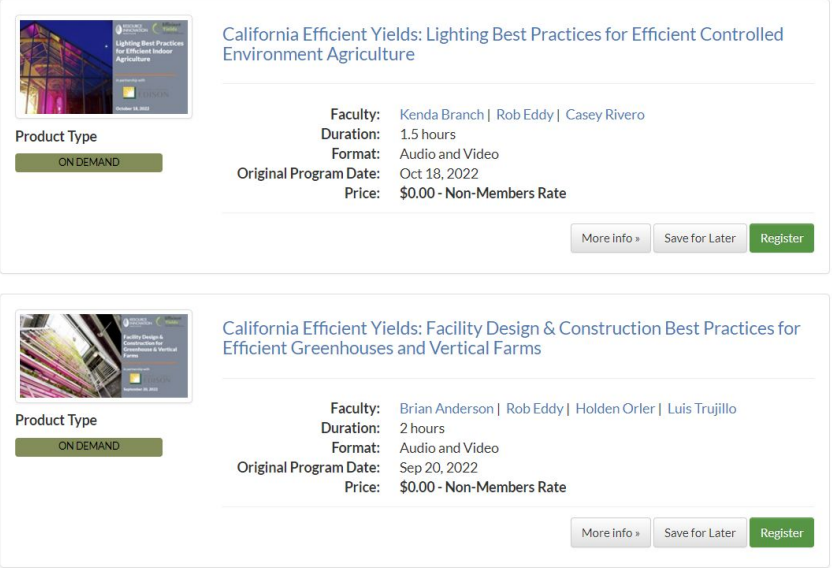
Access Your California Virtual Classroom

Continue Learning Online

Free guidance on efficient cultivation

All live workshops are available for on-demand viewing!

- Recordings of live workshops
- Tip clips
- Downloadable resources
- PG&E and state program tools



Create an account at resourceinnovation.org/California

Register for Upcoming Workshops

PG&E funded Workshops:

May 2 | Case Studies in Efficiency

Register and access other free resources on the RII catalog

PG&E hosted Workshop:

May 9 | Code Breaker: Controlled Environment Horticulture

(CEH) 2022 Energy Code

POLL ALERT!

What role do you play in the cultivation space?

Discuss Results

SECTION 02

ENERGY MANAGEMENT 101

POLL ALERT!

How comfortable are you reading and understanding your energy bills?

- Very comfortable
- I think I understand them
- Often confused
- I don’t look at it

California Cannabis Space

License Types

- Specialty cottage
- Specialty
- Small
- Medium
- Large
- Nursery
- Processor

Lighting Types

- Tier 1 – Up to 6 watts per sq. ft.
- Tier 2 – 6 to 25 watts per sq. ft.

Market Size

$4 billion legal market
$8 billion illicit market

Environment

- Indoor
- Greenhouse / mixed light
- Outdoor

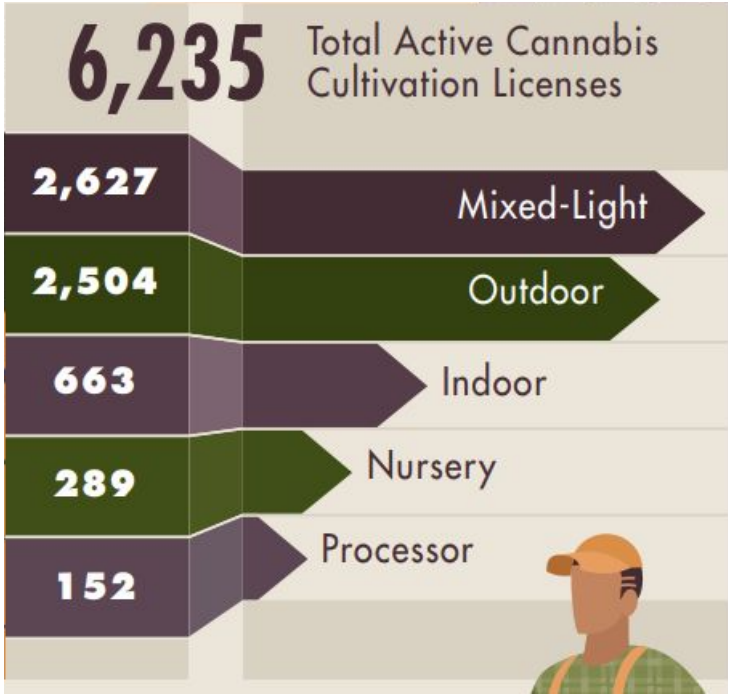
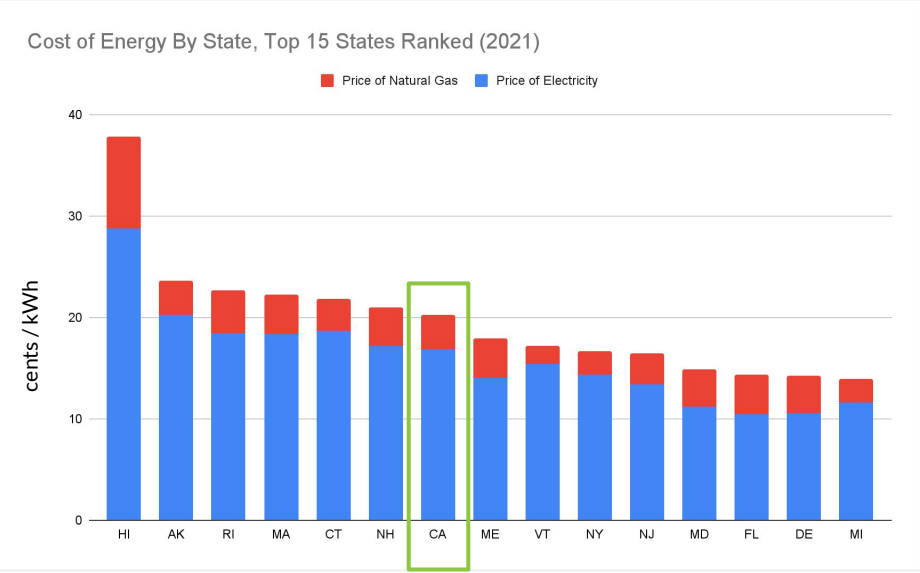
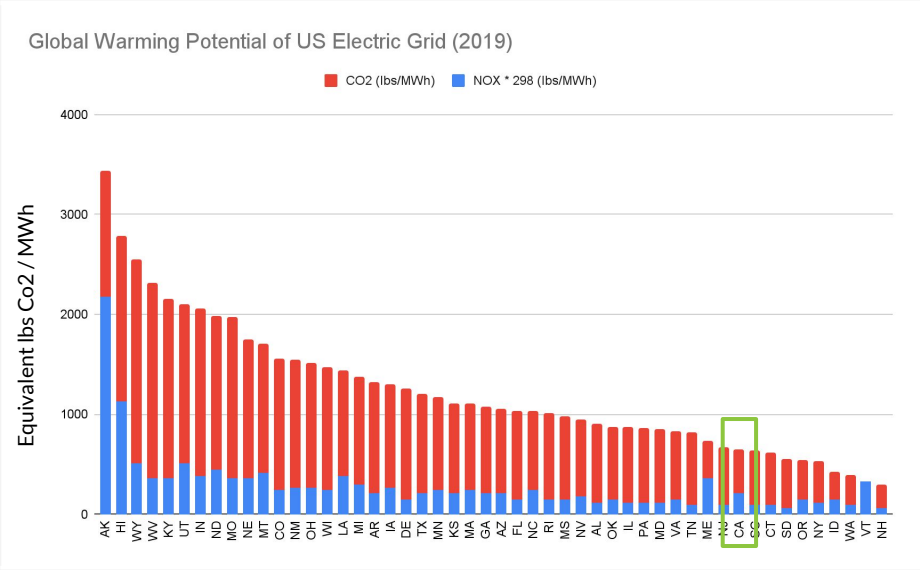


Image credit: CDFA 2020. License info: Cannabis.CA.gov

Energy in Cannabis





Conservation → Energy Efficient Equipment → Load Shifting → Renewables

Definitions

Connected Load : The energy consumed when all connected systems, circuits, components, devices or equipment are operating and drawing power at the same time.

Operating Demand Load : Presents a more realistic total of energy consumed (drawn). It gauges how much energy is used in the optimal operation of your service based on what electrical items are likely to operate simultaneously day-to-day e.g. furnaces and air conditioning units are unlikely to run at the same time so you would not add these two items together when calculating an operating demand load.

Peak load : The highest amount of energy that a consumer draws from the grid in a set period of time.

Demand Factor : The ratio of the maximum demand of a system, or part of a system, to the total connected load of a system or the part of the system under consideration.

Loading Order: Decreasing electricity demand by increasing energy efficiency and demand response then meeting remaining needs with renewable resources. Helps balance supply and demand on the grid.

Understand Your Electric Charges

- Demand Charges
  - Generally cover fixed costs for generation, transmission and distribution of having a given level of power available
  - The largest amount of power in kiloWatts or kW used during the billing period
- Energy Charges
  - Generally cover the variable costs of power consumed
  - The amount of power used over time in kiloWatt-hour or kWh
- Time of Use
  - Demand and Energy Charges vary by time of day to try to curb use during peak hours
  - TOU periods recently changed to reflect current system conditions, primarily impacted by a significant increase in solar

POLL ALERT!

How comfortable are you reading and understanding your energy bills?

Discuss Results

SECTION 03

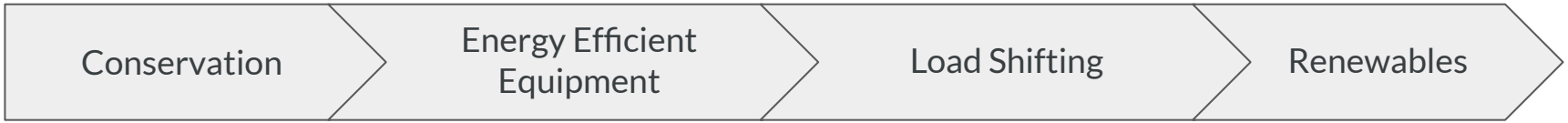
PLANNING & MANAGEMENT

POLL ALERT!
What controls systems do you use?

- Water treatment plant
- Fertigation injection and distribution
- Environmental controls
- Lighting controls
- CO2 monitoring and controls

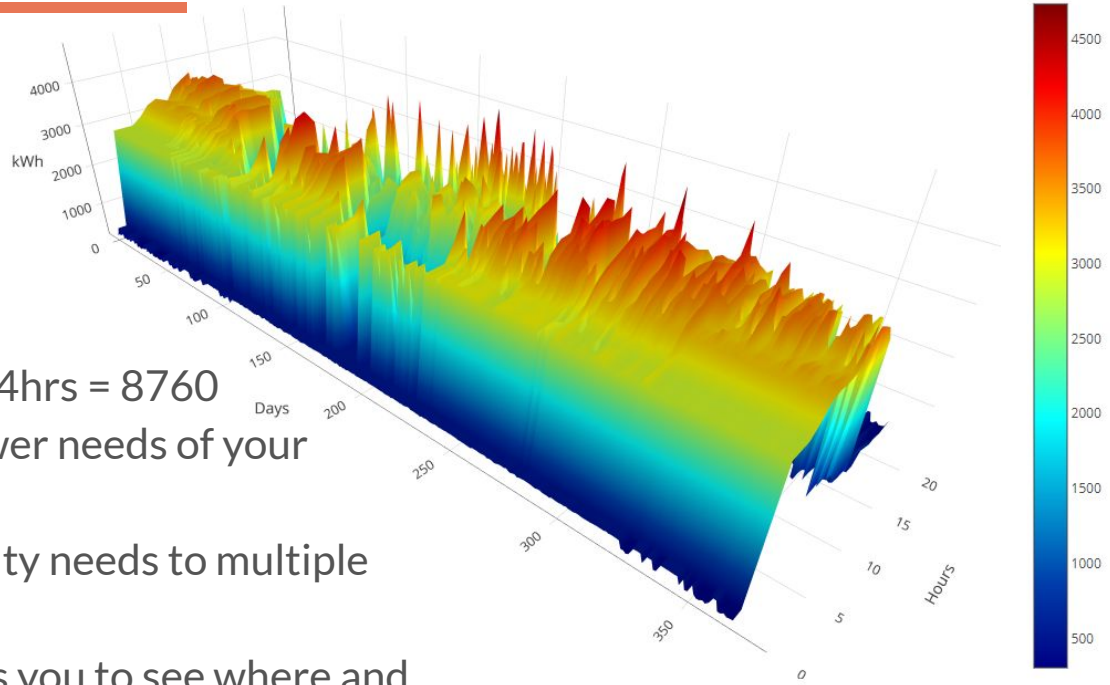
Determine Your Goals

- Understand your building type and room types
  - Warehouse
  - Manufacturing
    - Processing
    - Cultivation
  - Greenhouse
  - Indoor farm
- Existing
  - Utility bill available?
  - Similar facility in another location
- New Build
  - Energy analysis (Energy App)
  - Similar facility in another location with utility bills



Power Needs and 8760 Load Profile

What is an 8760 model?



- Hourly load profile 365 days x 24hrs = 8760
- Formalizes and digitizes the power needs of your facility
- Used to communicate your facility needs to multiple parties
- Visualizations of this data allows you to see where and when you require different power levels

Photo Credit: ARCO MURRAY DESIGN BUILD

Conservation | Energy Efficient Equipment | **Load Shifting** | Renewables

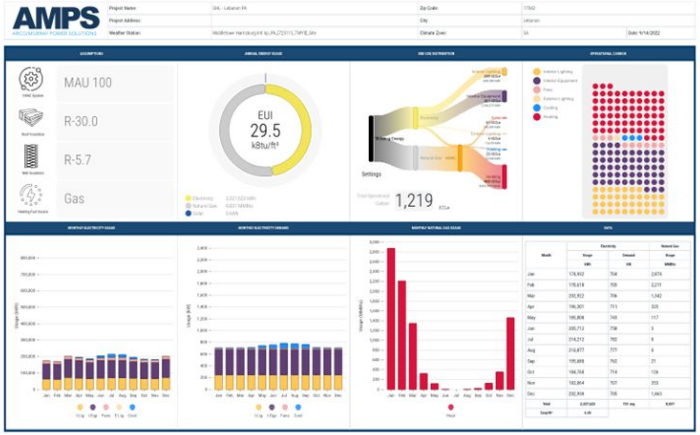
Power Needs and 8760 Load Profile

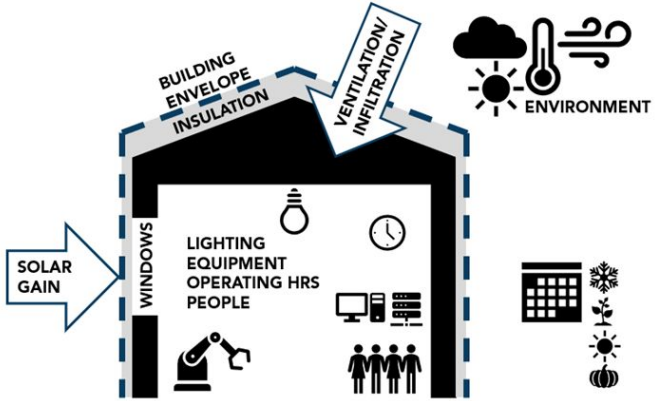
Load Profile and Energy Modeling

- Predicts consumption
- Represents the hourly behavior of using energy
- Provides us with max peak load and min peak (base load)

Purpose of Modeling

- To predict energy OpEx
- Helps in energy procurement options with the utility
- Used for sizing power generation systems/alternative energy generation



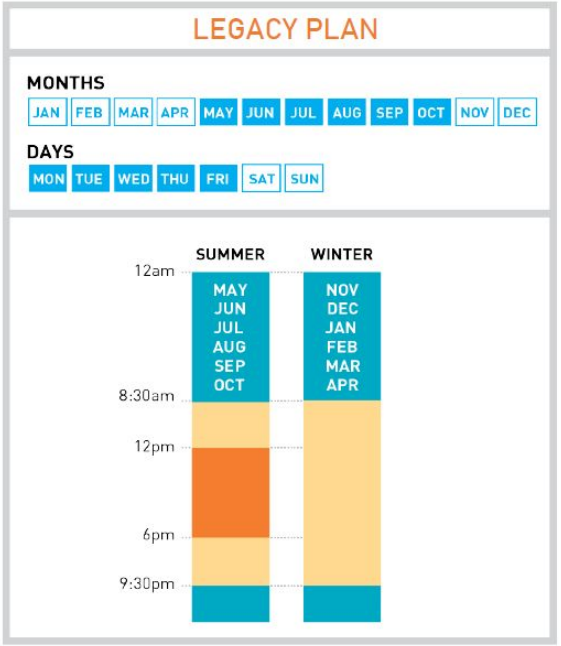


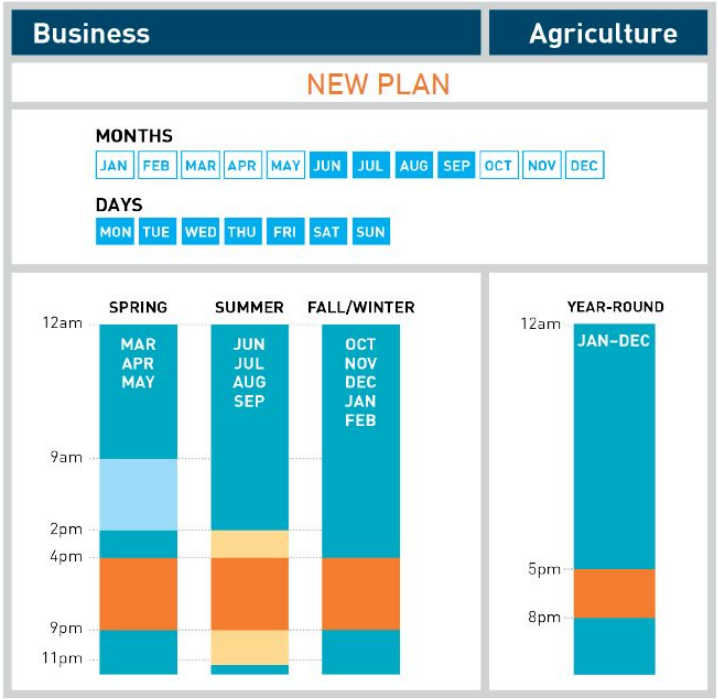
8760 Load Profile: PG&E Rate Examples

Rate Schedule	Customer Charge ($ per meter per day)	Season	Time-of-Use Period	Total Demand Rates ($ per kW)			Time-of-Use Period	Total Energy Rates ($ per kWh)
				Secondary	Primary	Transmission		
Rate Schedule AG (Rate AG-C) 3/	$1.43343	**Summer**	Peak	$25.19	$25.19	$25.19	Peak	$0.22674
			Maximum Demand	$13.14	$11.77	$3.40	Off-Peak	$0.18730
		Winter	-	-	-	-	Peak	$0.19895
			Maximum Demand	$13.14	$11.77	$3.40	Off-Peak	$0.17326

Rate Schedule	Customer Charge ($ per meter per day)	Season	Time-of-Use Period	Demand Charge ($ per kW)			Time-of-Use Period	Total Energy Charge ($ per kWh)		
				Secondary	Primary	Transmission		Secondary	Primary	Transmission
B-10 TOU	$6.87031	**Summer**		$18.65	$18.23	$14.61	Peak	$0.33238	$0.31341	$0.24397
							Part-Peak	$0.27069	$0.25510	$0.18723
							Off-Peak	$0.23812	$0.22427	$0.15716
		Winter		$18.65	$18.23	$14.61	On-Peak	$0.25610	$0.24055	$0.19092
							Off-Peak	$0.22062	$0.20692	$0.15809
							Super Off-Peak	$0.18428	$0.17058	$0.12175
B-19 TOU	MB-19 S $34.02077 MB-19 P $51.74260 MB-19 T $74.76399 VB-19 $6.87031	**Summer**	Max. Peak	$36.83	$30.75	$16.03	Peak	$0.21540	$0.19248	$0.17363
			Max. Part-Peak	$7.56	$6.27	$4.01	Part-Peak	$0.17297	$0.16004	$0.16001
			Maximum	$28.17	$23.62	$16.76	Off-Peak	$0.14296	$0.13184	$0.13102
		Winter	Max. Peak	$2.53	$1.85	$1.54	Peak	$0.18845	$0.17362	$0.17271
			-	-	-	-	Off-Peak	$0.14284	$0.13219	$0.13166
			Maximum	$28.17	$23.62	$16.76	Super Off-Peak	$0.08165	$0.07325	$0.07128

8760 Load Profile: PG&E Time of Use Hours





Strategic Energy Management

- Programs available nationwide to assist
- No cost reduction in energy consumption
- Modify standard operating procedures (SOPs)
- Changing company culture
- Education & incentives from the ground up
- Building Automation System
- Energy Management System

Conservation → Energy Efficient Equipment → Load Shifting → Renewables

Energy Management Metrics

- Understanding energy usage enables energy management
  - Energy Consumption by End Use
    - Lighting - 38%
    - AC, Fans, Dehum - 51%
  - Energy Consumption Metrics
    - Yield/kWh
    - Yield/SF
    - kWh/SF
  - Benchmark
    - Powerscore

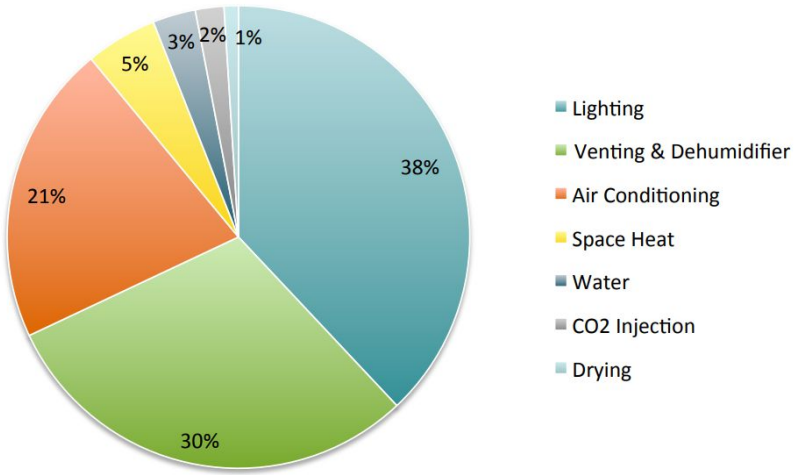
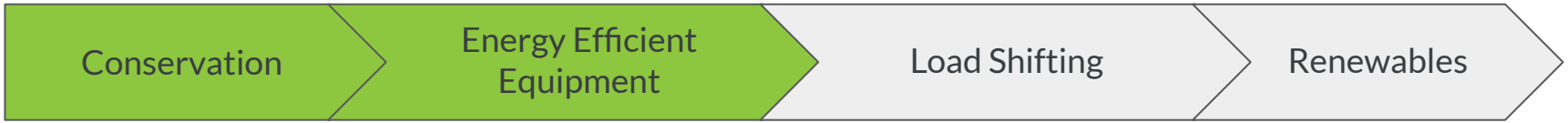


Figure 3: Proportion of Energy Consumption by End Use for Indoor Marijuana Cultivation

Evergreen Economics 2016, SDG&E Cannabis Agriculture Energy Demand Study

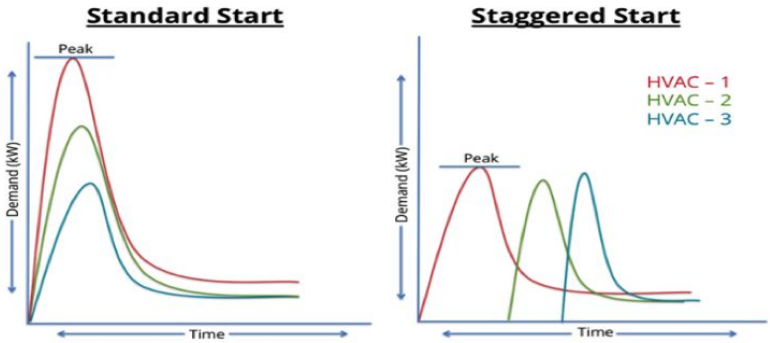
Energy Efficiency Investments

- LED Horticultural Lighting
- Lighting Controls
- High efficiency packaged HVAC units with hot-gas bypass reheat
- Variable frequency drives for fan motors
- Efficient stand-alone dehumidifiers
- Integrated HVAC with on-site heat recovery
  - Heat Recovery Chillers
  - Air-to-air Heat Exchangers
- Energy curtains



Cost Savings Investments

- Integrated controls systems
- Staggering room start up
- Peak Load Shaving
- Integrated HVAC systems utilizing thermal storage
  - Generating chilled water during of peak hours and storing it for use during on peak hours.



Conservation | Energy Efficient Equipment | **Load Shifting** | Renewables

Building Automation Systems and Controls

- Efficient sequence of operations for mechanical systems
  - Chilled water supply temperature reset (Trim and Respond)
  - Differential pressure setpoint reset (Trim and Respond)
  - Sunrise and sunset lighting controls
  - Demand control ventilation for storage, warehousing
  - Ancillary RTUs to operate on a schedule. Night airflow setbacks where schedules are not possible
- Fault detection and diagnostics
- Monitoring-based commissioning
- Demand response and reduction controls sequences

Reference ASHRAE Guideline 36: High-Performance Sequences of Operation for HVAC Systems

POLL ALERT!
What controls systems do you use?

Discuss Results

SECTION 04

ON SITE ENERGY SOLUTIONS

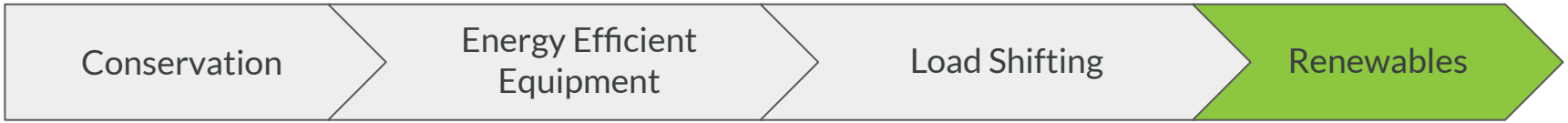
POLL ALERT!

What is the most efficient on site energy production method?

- Solar & battery
- Combined heat & power
- Wind

Possible On-Site Generation Solutions

- Renewable energy (solar, wind)
- Battery storage
- Cogeneration (Combined Heat & Power)
- Microgrids



Power Options / Solutions

Solar

- Grid tied
  - Front of meter
  - Behind the meter
- Off grid
- Hybrid with an Energy Storage System (ESS)
  - AC coupled
  - DC coupled

Combined Heat and Power (CHP)

- Connection/Operation methods
  - Islanded/off grid
  - Grid tied
- Natural gas engine
- Electric generator: Converts mechanical energy to electricity
- Thermal energy recovery from exhaust flue gas heat and water jacket of engine
- CO2 recovery from flue gas – filter or liquefaction

Preparedness

- Power outages
  - Generator
  - CHP as a backup
  - Battery Storage
- System failures
- Essential system down time
  - Redundancy
- Microgrid

Investment Financial Analysis

FINANCIAL OVERVIEW

Cash Flow, IRR, and ROI Calculations			
	System Size	246.78	kW
	System Cost	750,984	$
	1st Year PV Production	363,080	kWh
	Annual Electric Usage	360,495	kWh
	Current Yearly Electric Bill	91,255	$
	Energy Offset	100.7	%
	System Lifespan	25	Years
	Utility Escalation Rate	3.0	%
	Assumed Federal Tax Rate	30.0	%
	Assumed State Tax Rate	10.75	%
	Panel Degregation Rate	0.7	%
	Federal Tax Incentive (ITC)	30	%
	Bonus Depreciation	80	%
LOAN INFO	Upfront payment	0	$
	Loan Principal	750,984	$
	Loan Duration	12	Years
	Interest Rate	8.0	%
	Discount Rate	8.0	%
	Risk Free Rate (Reinv.)	2.25%	

	SAVINGS & INCENTIVES			LOAN						CASH					
Years	Electric Bill Savings	Federal Tax Effect	PV Incentives	Financing Payments	Total Cash Flow	Cumulative Cash Flow	NPV Loan			Cash Payment	Total Cash Flow	Cumulative Cash Flow	NPV Cash		
0			$0	$0	$0	$0	$0	IRR	N/A	($750,984)	($750,984)	($750,984)	($750,984)	IRR	15.7%
1	$55,871	$386,156		($97,549)	$344,479	$344,479	$318,962	MIRR	40.2%		$442,027	($308,957)	$409,285	MIRR	5.8%
2	$57,157	$12,256		($97,549)	($28,136)	$316,343	($24,122)	LCOE PV	$0.090		$69,413	($239,544)	$59,510	ROI	203.1%
3	$58,471	$7,354		($97,549)	($31,724)	$284,619	($25,183)	LCOE W/O PV	$0.369		$65,825	($173,719)	$52,254	LCOE PV	$0.040
4	$59,816	$4,412		($97,549)	($33,320)	$251,299	($24,491)				$64,228	($109,491)	$47,210	LCOE W/O PV	$0.369
5	$61,192	$4,412		($97,549)	($31,945)	$219,354	($21,741)				$65,604	($43,887)	$44,649		
6	$62,599	$2,206		($97,549)	($32,743)	$186,611	($20,634)				$64,805	$20,918	$40,838	Payback Period [Years]	5.7
7	$64,039			($97,549)	($33,510)	$153,101	($19,553)				$64,039	$84,957	$37,366		
8	$65,512			($97,549)	($32,037)	$121,064	($17,308)				$65,512	$150,469	$35,394		
9	$67,019			($97,549)	($30,530)	$90,534	($15,273)				$67,019	$217,487	$33,526		
10	$68,560			($97,549)	($28,989)	$61,546	($13,427)				$68,560	$286,047	$31,757		
11	$70,137			($97,549)	($27,412)	$34,134	($11,756)				$70,137	$356,184	$30,081		
12	$71,750			($97,549)	($25,799)	$8,336	($10,245)				$71,750	$427,934	$28,493		
13	$73,400				$73,400	$81,736	$26,989				$73,400	$501,335	$26,989		
14	$75,088				$75,088	$156,824	$25,565				$75,088	$576,423	$25,565		
15	$76,816				$76,816	$233,640	$24,215				$76,816	$653,239	$24,215		
16	$78,582				$78,582	$312,222	$22,937				$78,582	$731,821	$22,937		
17	$80,390				$80,390	$392,612	$21,727				$80,390	$812,211	$21,727		
18	$82,239				$82,239	$474,851	$20,580				$82,239	$894,449	$20,580		
19	$84,130				$84,130	$558,981	$19,494				$84,130	$978,579	$19,494		
20	$86,065				$86,065	$645,046	$18,465				$86,065	$1,064,644	$18,465		
21	$88,045				$88,045	$733,090	$17,491				$88,045	$1,152,689	$17,491		
22	$90,070				$90,070	$823,160	$16,567				$90,070	$1,242,759	$16,567		
23	$92,141				$92,141	$915,301	$15,693				$92,141	$1,334,900	$15,693		
24	$94,260				$94,260	$1,009,562	$14,865				$94,260	$1,429,160	$14,865		
25	$96,428				$96,428	$1,105,990	$14,080				$96,428	$1,525,589	$14,080		
Totals:	$1,859,777	$416,796	$0	($1,170,583)	$1,105,990	-	$373,897			($750,984)	$1,525,589	-	$358,046		

POLL ALERT!

What is the most efficient on site energy production method?

- ~~Solar & battery~~ ~22%
- Combined heat & power ~75%
- ~~Wind~~ ~40%

SECTION 04

UTILITY & STATE PROGRAMS

POLL ALERT!

Have you used Your Account at pge.com?

- Yes
- No
- Accounts Payable does, but I don't need to

PG&E Demand Response Programs

- Demand Response programs provide incentives to customers for reducing electric usage during grid, heat, and other emergency events.

- Benefits include:
  - Maintaining electric grid reliability
  - Preventing power interruptions during grid emergencies
  - Lowering environmental impact
  - Providing financial incentives to customers for participation

- PG&E Core and Third Party programs provide an array of parameters, incentives, and risks/penalties.

Ag Customer Service Center: 877-311-3276
www.pge.com/demandresponse

Customer DR Success Story: Bonipak Produce

Anthony Topas, Refrigeration Technician for Bonipak Produce, a refrigerated warehouse in Santa Maria

- PG&E / Voltus outreach
- Initial response
- Investigation of equipment, processes, culture
- Goals
- Results
- Improvement moving forward

What is the Self Generation Incentive Program?

SGIP is the statewide CPUC ratepayer funded program across multiple California utilities. **The program is designed to offset a portion of the cost to install behind-the-meter technologies that offset customer load.**

Program goals

1. **Environmental:** Reduction of greenhouse gas and criteria air pollutants; facilitate the integration of renewables
2. **Grid Support:** Reduce/shift peak demand, improve efficiency and reliability of the T&D system, lower grid infrastructure costs, provide ancillary services, ensure DER reliability
3. **Market Transformation:** Support technologies that have the potential to thrive in future years without rebates

Current technologies

Energy storage (AES or batteries), thermal and mechanical storage, wind, fuel cells, internal combustion engines, microturbine, pressure reduction turbine, linear generator.

SGIP Program Now

	Large Scale Storage	Generation
Maximum Incentive Level	$0.25/Wh	$2.00/W Additional $2.50/W for backup to grid
	Commercial customers not eligible for Equity or Equity Resiliency budget categories	**100% renewable fuel requirement**

An energy storage/battery system has the following main functions/benefits:

Storage/backup power procures electricity from the grid or solar panels to be stored and used later. When shutoffs occur, a battery can provide power for several hours to multiple days, depending on battery size, critical energy needs and (if paired with solar panels) weather conditions.

Rate arbitrage battery can be discharged during peak hours to reduce bill

GHG reduction charging and discharging at specific times, including from solar, batteries can reduce greenhouse gases.

Generator/ Battery Rebate Program

This program offers eligible customers a $300 rebate with the purchase of a qualifying portable generator or battery to prepare for power outages. An additional $200 rebate (or $500 total) is available to eligible residential customers who are also on PG&E's California Alternate Rates for Energy (CARE)/Family Electric Rate Assistance Program (FERA) Programs.

Program Eligibility Requirements (must satisfy all to qualify):

- Must have an active residential or business PG&E account
- Must be located in a Tier 2 or 3 High Fire-Threat District and/or be served by an Enhanced Power Safety Setting-protected circuit
- Product must be in the Qualified Products List

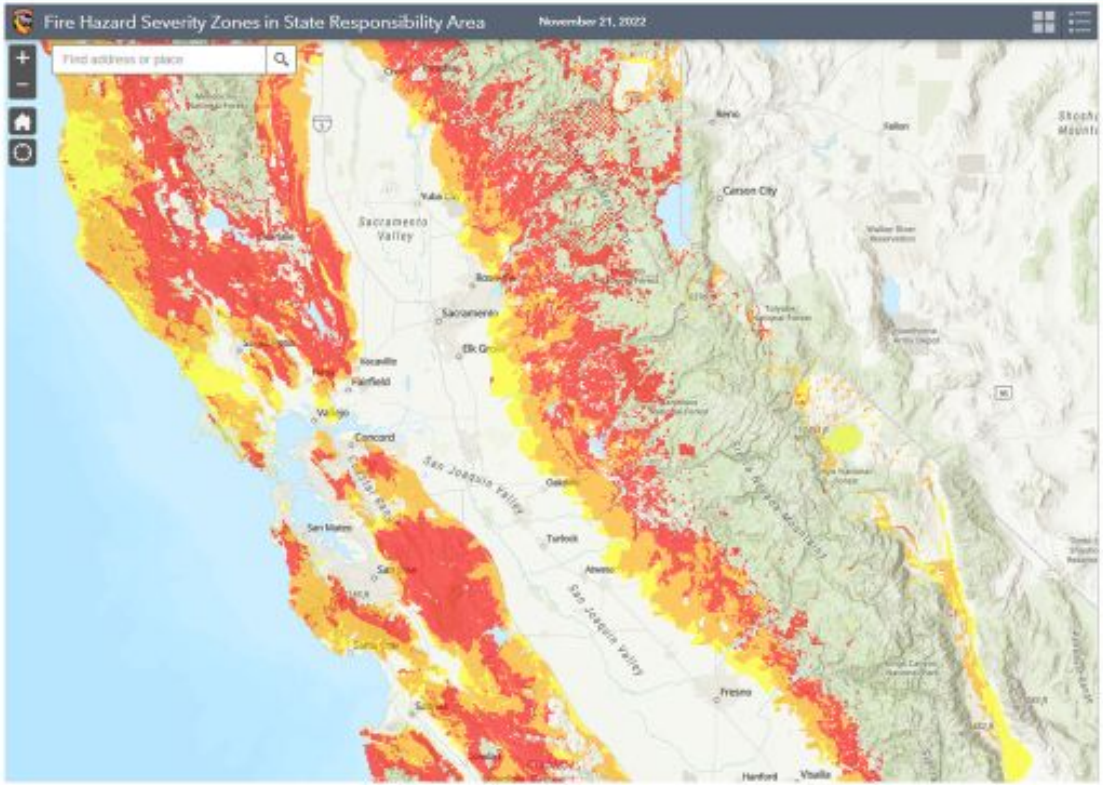
Apply to the Rebate Program at:

pge.com/backuppower

To find out if you are in a high fire threat district: Fire Hazard Severity Zones in State Responsibility Area (arcgis.com)

To find out if you are on an EPSS circuit email GeneratorBatteryRebateProgram@pge.com

Fire Hazard Severity Zones



Backup Power Transfer Meter Program

This program is available to PG&E customers who are located in a Tier 2 or 3 High Fire Threat District and/or served by an Enhanced Powerline Safety Setting. Customers located in these areas must have a compatible generator.

How it Works:
This PG&E patented device allows customers to safely power their facility or house using a generator. It lets customers predetermine which appliances or rooms to power during an outage. When the utility power is off the Backup Power Transfer Meter switches to the generator, then automatically switches back to the utility power when it becomes available.

What it Does:
The Backup Power Transfer Meter eliminates the need for multiple extension cords by using your electrical panel to let you determine which rooms to power. In most cases, this meter takes the place of a separate transfer switch.

For more information:

pge.com/backuppower

Upcoming Classes

Basics of Photovoltaic (PV) and Energy Storage Systems for Grid Tied Applications
May 8, 2023

Solar PV, Energy Storage, and Microgrid Technologies with a Commercial Focus
May 31, 2023

Photovoltaic (PV) and Energy Storage Systems (ESS) Site Analysis and Installation
June 5, 2023

Explore our classes and register: www.pge.com/energyclasses

POLL ALERT!

Have you used Your Account at pge.com?

Discuss Results

POLL ALERT!

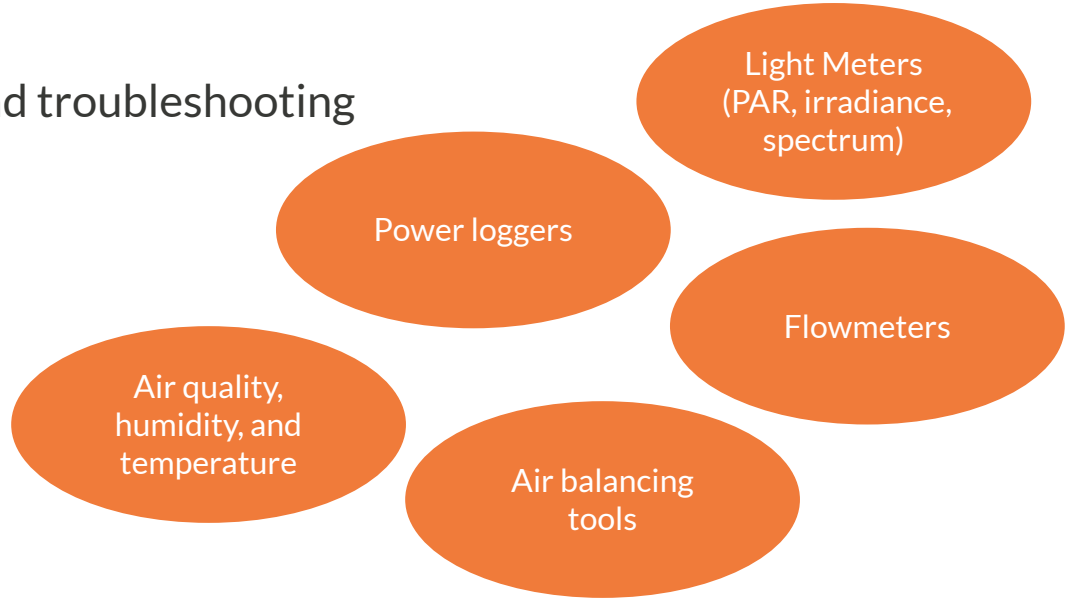
Have you engaged with a PG&E account manager?

- No, I don’t need their help
- No, I didn’t know they were available to help
- Yes, we are working together

Energy Measurement Tool Lending Library

Wide selection of energy and building measurement tools to customers and professionals working on energy efficiency, demand reduction and demand response projects in California.

- FREE tool lending programs
- Assistance in tool selection and troubleshooting
- PG&E: pge.com/tools
- SCE: sce.myturn.com/library



New Service Installation or Upgrade

- ✓ Submit and track your application at www.yourprojects-pge.com
- ✓ Design your project in accordance with PG&E Greenbook www.pge.com/greenbook
- ✓ Call Customer Service to determine best billing rate 1-800-743-5000
- ✓ Questions? Call Building and Renovation Service Center at 1-877-743-7782

Energy Efficiency for CEA

Utilities provide free energy efficiency engineering support, rebates, incentives and 0% loans to customers through the Public Purpose Program funds

Each segment has a third party who manages their energy efficiency program

TRC manages the CEA segment through their AESAP program

What is AESAP

TRC's **Agriculture Energy Savings Action Plan (AESAP)** offers incentives and financing for energy-saving projects involving the retrofit or installation of energy consuming equipment.

CEA Rebate and Incentives for:

- Grow lighting and controls
- Greenhouse heat curtains and IR film
- Boiler, pipe insulation, heat recovery
- Irrigation upgrades and more!

AESAP:

- Provides rebates and incentives on energy efficient equipment upgrades
- Offers technical assistance and incentives for more complex projects
- Provides Integrated Demand Side Management support and services
- Provides services at no cost to customer

www.AgEnergySavings.com

Connect@AgEnergySavings.com | 1-833-987-7283

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AESAP Rebate Process

AESAP
AGRICULTURE ENERGY SAVINGS ACTION PLAN

1. Equipment Purchase

You purchase the equipment, making sure it complies with all requirements (TRC can help)

2. Submit Application

You send AESAP documentation with, a paid invoice, install and operational date

3. Application Review

Program team reviews and completes the paperwork

4. Signature Stage

Paperwork will be sent to you for final signature

5. Rebate Issuing

Rebate check will be issued and sent to you

Customer defined

1-2 months
upon application submission

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AESAP Custom Incentive Process

AESAP
AGRICULTURE ENERGY SAVINGS ACTION PLAN

1. Assessment

AESAP meets with you for a no-cost energy audit or to discuss opportunities. AESAP will review the preliminary analysis with you prepare necessary reports

2. Application

You sign the program participation agreement and AESAP submits required paperwork to PG&E for review and approval

3. Installation

You install project based on approved parameters

4. Verification

AESAP verifies project completion and submits final report

5. Incentive Issuing

Final paperwork is processed, and incentive is delivered

3+ months — **Customer defined** — **2+ months**

Timeline varies based on several factors, including scope of project, project complexity or installation timeline. CPUC selected projects will require additional review time

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On-Bill Financing

On-Bill Financing helps eligible customers pay for energy-efficiency retrofit projects with **0% interest and zero penalty loans**.

- Loans range between $5,000 and $4,000,000 per premise
- Loan periods of up to 120 months
- Loan repayment amount will be in line with the monthly energy savings from the upgrade
- Energy bill shouldn't increase due to equipment investment
- Once loan is paid off, savings on your bill will be realized

GoGreen Financing

Administered by the State of California and supported by the state's investor-owned utilities, the Small Business Financing (SBF) program offers financing with attractive terms for energy-efficiency improvements to existing businesses. Participating finance companies offer quick approval with monthly payments to meet your budget.

- $100,000 up to $5 million, competitive interest rates, terms up to 10 years
- Up to 30% of financed amount can be for non-energy upgrades
- For Small Businesses with 1) 100 or fewer employees or 2) Annual revenues less than $15 million or 3) Meet SBA size requirements

Visit GoGreenFinancing.com to learn more.

PG&E Market Access Program

High Incentives for Energy Saving and Load Shift Projects Installed by March 31, 2024

www.aesc-inc.com/map

aesc

Market Access Program (MAP) Overview

- **What is MAP?**
  - A pay-for-performance EE program delivered by enrolled MAP Aggregators

- **Key Advantages of MAP**
  - Very high project incentives; No cost caps
  - Bonus incentives for savings during Summer 4-9pm peak period
  - Fast project approval (<1 week)
  - Broad measure eligibility

- **Site Eligibility**
  - Commercial/light industrial sites (indoor ag is eligible)
  - At least 12 months utility baseline usage
  - Site must be screened and meet other data-related screening criteria

- **Program Status**
  - AESC has remaining budget available
  - We will continue to take project reservations until program incentive budget is used up, expected in the next 4-6 weeks.

- **Timeline**
  - **Remember: Projects must installed by March 31, 2024**

- **To Learn More:**
  - Learn more about MAP, screen potential project sites, identify an aggregator
  - Contact Tyrra Adams, AESC Project Manager, 760-889-8664 tadams@aesc-inc.com

www.aesc-inc.com/map

Statewide Programs for Producers

California Energy Design Assistance (CEDA)

- Statewide Program serving PG&E, SCE, SoCal Gas, SDGE
  - Program participants receive the following complimentary services:
    - Comprehensive Whole Building Energy Analysis
    - Assistance identifying and evaluating energy-saving measures
    - Analysis of energy costs and paybacks
    - Incentives for New Construction and Major Renovations projects
  - CEDA Pathways: Mixed Fuels or All-Electric
    - Mixed Fuels for customers who want the option of both gas and electricity
    - All-Electric program option offers higher incentives if customers do not install gas service
  - Learn more: CaliforniaEDA.com

California Department of Tax and Fee Administration (CDTFA)

- Cannabis producers qualify for some Equipment Exemptions under agricultural programs
- Learn more: cdtfa.ca.gov/industry/cannabis.htm

POLL ALERT!

Have you engaged with a PG&E account manager?

Discuss Results

Actionable Takeaways

- Spend time reading & understanding you energy bill
- Investigate SEM strategies and programs that may fit your operation
- Investigate opportunities to map your load profile
- Contact your PG&E account manager and investigate programs available
- Remember energy priorities

Conservation → Energy Efficient Equipment → Load Shifting → Renewables

Panel Q & A

CONTACT US

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