

12/10/2020



TODAY'S OBJECTIVES

- 1. Introduce CPUC Energy Efficiency (EE) requirements
- 2. Present: 5 program concepts to include in EE application
- 3. Seek: Initial feedback on concepts to narrow focus to 2-3 concepts for application
- 4. Next: Coming back to CECAC in January with update and final proposed programs (2-3 concepts)



PROGRAMS ROADMAP PROCESS THUS FAR





PROGRAM AREAS AND GUIDING PRINCIPLES

Program Guiding Principles

- Promote equity and affordability and support disadvantaged communities
- Maximize greenhouse gas emission reductions
- Align with Climate Smart San José, the city's plan to reach the targets of the Paris Climate Agreement
- Benefit customers and the community
- Maintain or improve the financial status of SJCE

Building Electrification

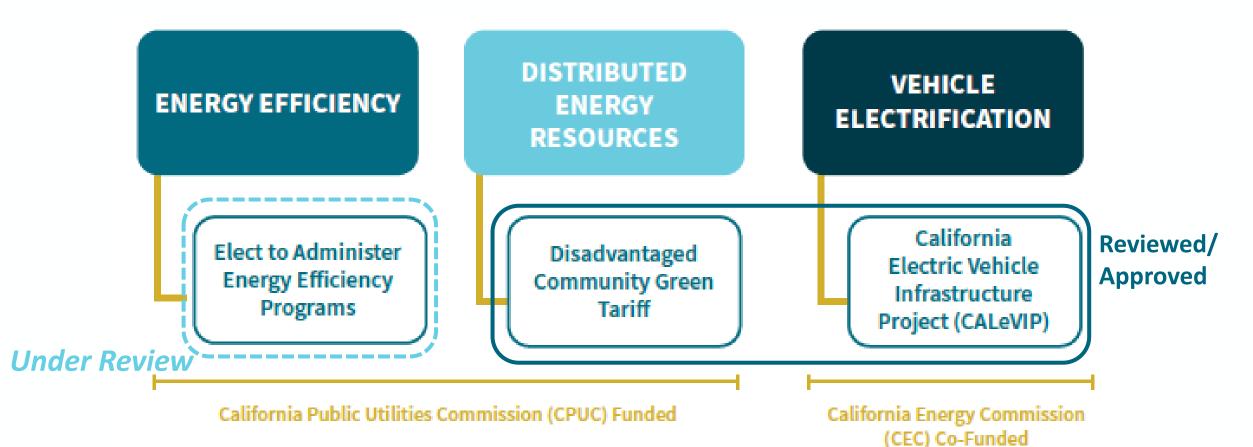
Vehicle Electrification Distributed Energy Resources

Energy Efficiency Program-Specific Rates

Resiliency

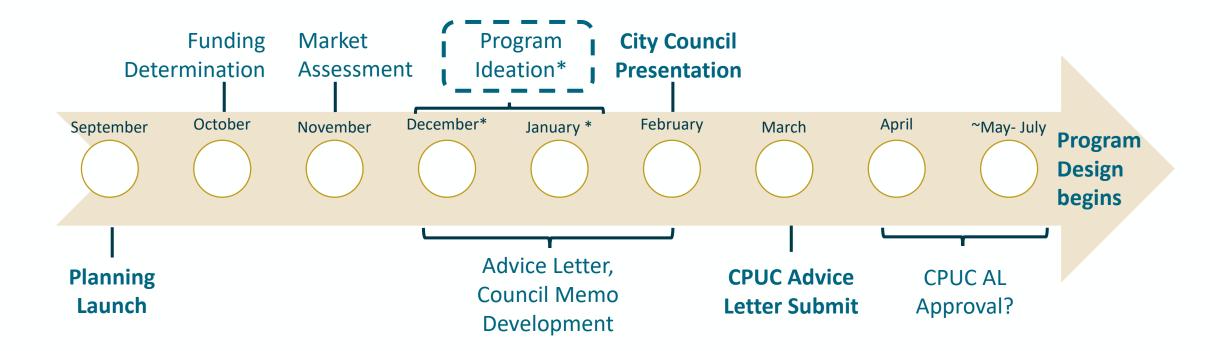


NEAR TERM PROGRAMS (2020-2022)



SAN JOSE VIZ

ADVICE LETTER DEVELOPMENT TIMELINE





CPUC ENERGY EFFICIENCY PROGRAM REQUIREMENTS

- "Elect to Administer" (ETA) through Advice Letter
- Lancaster Choice Energy, Redwood Coast Energy Authority, CleanPowerSF, EBCE applied or applying for funds

Programs shall:

- Advance cost-effective electricity savings and benefits
- Accommodate need for statewide and regional programs
- 3. Meet CPUC audit and reporting requirements



CPUC COST EFFECTIVENESS REQUIREMENTS

Cost Effectiveness

Costs

- Administration
- Implementation
- Marketing
- Incentives
- Measure Costs

Benefits

- Energy Savings
- Avoided grid costs
- Avoided GHGs

- 3-Year program plan and budget
- Cost effectiveness with
 Total Resource Cost > 1.0
- Can reapply every three years

- Total Resource Cost Test (TRC)
- Program Administrator Test (PAC)



PROGRAM FUNDING & PROGRAM IDEATION

Program Funding

- Current estimate:
 - \$1.7 million/year
- Application total @ 3 years:\$5.1 million
- Eligible budget may increase
 - Pending PG&E 2021 Implementation Plan Review
 - Early January 2021 check point

Program Ideation

- Goals and objectives:
 - Engage local communities to promote equity
 - Focus on local businesses
 - Maximize energy savings and GHG reduction; electrification
- Complement EE programs at BayREN and PG&E
- Balance portfolio scope and scale to achieve required SAN JOSE

TRC (1 or better)

PROGRAM CONCEPT FILTERING (1 OF 2)

Separate Non-residential Customers **All SJCE Customers**

Residential Customers

Single Family Residential

Single family in disadvantaged communities or at 200-400% FPL

Focus on Residential Customers to provide customer service and demand response

Narrow based on several PG&E and BayREN existing programs already serving multifamily

Focus on low to moderate income (that do not qualify for CARE/FERA) to address equity and existing program gaps

Non-res Customers (to next slide)



PROGRAM CONCEPT FILTERING (2 OF 2)

All SJCE Non-Residential Customers

Public & Small/Medium Non-residential Customers

Small and Medium Leverage synergies Schools between business and school EE opportunities to

meet unmet school needs

Businesses

Office, Retail, Food Service and Light **Commercial Services** Focus on customers with greater need for energy program support

Establish program framework to serve multiple customer types aligned with Guiding Principles

Narrow down to subsectors identified to deliver cost-effective projects



PRELIMINARY PROGRAM CONCEPTS

Concept	Customers of Primary Focus	Proposed Measures
Single Family	Low income (above CARE/FERA, below 400% Federal Poverty Level)	Weatherization; demand response; indoor air quality; appliances
Business (Office, retail)	Furniture, clothing, personal care	Lighting & HVAC; demand response
Food Service	Restaurants; small grocery; convenience stores	Lighting & HVAC plus water heating, cooking & refrigeration
Light Commercial Services	Repair & maintenance; laundry; nursing; medical & dental	Lighting & HVAC plus water heating & specialty equipment
Schools	Elementary, middle, & secondary schools	Lighting & HVAC plus water heating, refrigeration, & specialty equipment

SUMMARY OF OPTIONS

	Potential TRC	Relative Cost of Proposed Measures	Program Costs/Level of Effort	Energy Efficiency Benefit	Additional SJCE Benefit
Single Family	TRC <1	High	High	Low	Strong Equity focus
Business (office, retail)	TRC >1	Low	Moderate	Moderate	Local Business Support
Food Service	TRC >1+	Moderate	High	High	Local Business Support
Light Commercial Services	TRC >1+	Moderate	High	High	Local Business Support
Schools	TRC >1	Moderate	High	Moderate	Support Local Schools

1) Reduce to 2-3 Programs

2) Combined
Portfolio TRC >1



NEXT STEPS

Program Plan Development

- 1. Adjust plan based on CECAC and staff direction
- 2. Continue CPUC, PG&E, BayREN, and internal San Jose Coordination
- 3. Complete Final Funding Determination
- Adjust budget and activities for final proposed programs





APPENDIX

Market Assessment Data

Draft Proposed Measure Lists

Program Concept Examples and Comparisons

FUNDING DETERMINATION METHODOLOGY

How eligible funds for Elect to Administer programs are calculated

Based on:

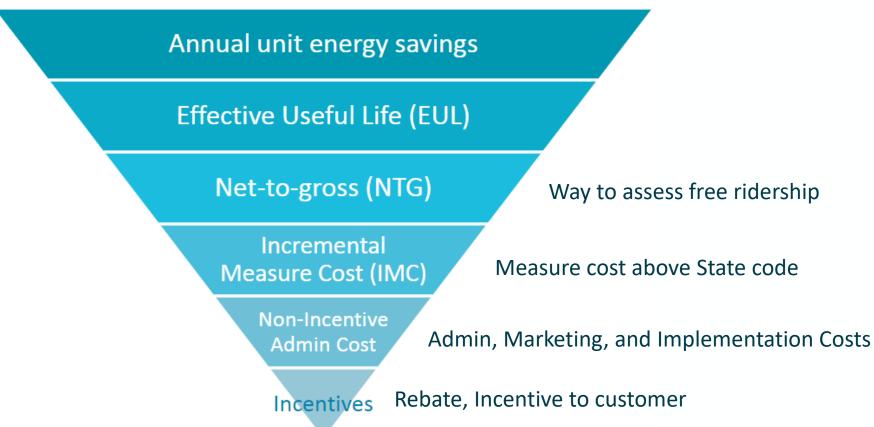
- 1. SJCE Public Purpose Program Charges
- 2. % of PG&E program funding that is "local", or per CPUC terms is not:
 - 1) Available statewide or
 - 2) Available across all PG&E territory

Calculated using the PG&E programs approved and operating during the year of the submitted ETA application



WHAT INPUTS DRIVE COST EFFECTIVENESS

Inputs that *generally* impact the TRC the most:





SINGLE FAMILY PROGRAM SUMMARY

	Single Family Moderate Income Electric Ready Low TRC (high cost and effort; societal benefit)
# of Accounts	~320,000
Measures	Weatherization; demand response; indoor air quality; appliances
Theoretical Cost- Effectiveness	Limited potential for deep energy savings with TRC >1
Benefits and Opportunities	 Serve low income customers (200-400% FPL) that do not qualify for CARE/FERA that are not typically participating in other energy programs Make existing building loads as efficient as possible, with load shifting options Save people energy and make them more comfortable Decrease the required size (and cost) of (electric) appliances when customers upgrade
Challenges	TRC likely to limit percent of portfolio funds for these projects

NON-RES PROGRAMS COMPARISON

	BUSINESS
# of Accounts	3,020
Measures	Lighting & hvac ; demand response
Theoretical Cost-	Some potential for
Effectiveness	TRC>1
Effectiveness Benefits and Opportunities	TRC>1 Allows build out of more tailored business offerings

FOOD SERVICE	LIGHT COMMERCIAL
Higher effort,	More benefit
2,822	1,358
Business measures plus water heating & refrigeration	Business measures plus water heating & process loads
Business measures plus water heating	Business measures plus water heating

Better potential for TRC>1

More fuel substitution options;
Each offers multiple unique community
and industry engagement opportunities
Significant issues of renter/owner split

Significant issues of renter/owner split incentive; customer needs good measure ROI

SCHOOLS Higher effort More benefit

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heating, refrigeration, & process loads

Better potential for TRC>1

Community engagement; Unmet capital improvement needs

Public school procurement & project requirements/timelines



PORTFOLIO OPTION "A"

Use base Business offering with higher potential TRC in Food Service/Light Commercial to balance Portfolio

	Potential TRC	Relative Cost of Proposed Measures	Program Costs/Level of Effort	Energy Efficiency Benefit	Additional SJCE Benefit
Single Family	TRC <1	High	High	Low	Strong Equity focus
Business (office, retail)	TRC >1	Low	Moderate	Moderate	Local Business Support
Food Service	TRC >1+	Moderate	High	High	Local Business Support
Light Commercial	TRC >1+	Moderate	High	High	Local Business Support
Schools	TRC >1	Moderate	High	Moderate	Support Local Schools CLEAN ENERGY

CLEAN ENERG

PORTFOLIO OPTION "B"

Use base Business offering with Schools to drive sufficient projects to balance Portfolio.

		Potential TRC	Relative Cost of Proposed Measures	Program Costs/Level of Effort	Energy Efficiency Benefit	Additional SJCE Benefit
	Single Family	TRC <1	High	High	Low	Strong Equity focus
۲	Business (office, retail)	TRC >1	Low	Moderate	Moderate	Local Business Support
	Food Service	TRC >1+	Moderate	High	High	Local Business Support
	Light Commercial	TRC >1+	Moderate	High	High	Local Business Support
<u></u>	Schools	TRC >1	Moderate	High	Moderate	Support Local Schools



SUMMARY OF PROGRAM OPPORTUNITIES

Program Area	Program Opportunity
Single Family	 Equity: Help low to moderate income customers save energy and increase comfort Electrification: Make existing building loads more efficient for electrification Community Benefits: Leverage PG&E, and other weatherization and healthy homes programs
Business	 Community Benefits: Help commercial customers with cost effective EE Streamline program delivery with simple menu of opt-in services Community Engagement: Work with local business communities
Food Service	 Electrification: Meet water heating, process loads, & hvac with electrification Community Engagement: Focused outreach and project channels within tough-to-
Light Commercial	reach communities
Schools	 Leverage business offering to meet school retrofit needs within new sector Obstacle: Completed projects reliant on school procurement cycles

FOOD SERVICE + GROCERY CONCEPT EXAMPLE

- Deemed and custom rebates
 - Point of sale incentives
 - Dealer/distributor discounts
- Unique marketing channels
 - Business district and community outreach
 - Vendor and industry relationships

Customer Type	Number of	Average Use/Customer		
Customer Type	Accounts	Electric	Gas	
Full-Service Restaurants, Cafeterias, Grill Buffets, & Buffets	112	150,652	10,262	
Caterers	42	126,715	3,149	
Snack, Nonalcoholic Beverage Bars	365	54,238	1,108	
Limited-Service Restaurants	672	101,260	5,318	
Restaurants, Other Eating Places	34	55,176	6,549	
Food Services-Drinking Places	1,307	54,193	5,299	
Fresh Food Markets (Meat, Seafood, Farm)	18	121,585	1,223	
Grocery, Convenience, Food & Beverage Stores	153	116,811	130	
Other Specialty Food Stores	72	30,981	1,499	
Confectionery and Nut Stores	14	24,239	527	

PROGRAM MEASURE EXAMPLES

- Residential
 - Water heaters
 - Heat pump space heaters
 - Faucet aerators
 - Insulation
 - Appliances

- Non-Residential
 - HVAC controls
 - Air conditioners
 - LED lighting
 - Food preparation equipment
 - Ozone washing machines
 - Pipe insulation



MARKET ASSESSMENT DRILLDOWN EXAMPLE

2019		
	NAICS Category Description	# of Customers (Count of SAIDs)
2019	Manufacturing	908
2019	Other	5,870
2019	Information	2,869
2019	Healthcare_SocialService	2,079
2019	Utilities	789
2019	Professional_Scientific_Tech	155
2019	Retailers	2,980
2019	Public Administration	314
2019	Accommodation & Food Services	2,838
2019	Wholesale_Trade	564
2019	Education	682

	2019	Top Retailers Subcategories	
		NAICS Subcategory Description	# of Customers (Count of SAIDs)
	2019	Depart Stores-exc Discount	1
	2019	Department Stores.	29
	2019	Discount Department Stores	1
	2019	New Car Dealers	49
-	2019	Gasoline Stations	9
	2019	All Other General Merchandise Stores.	114
-	2019	Family Clothing Stores	67
	2019	Office Supply-Stationery Store	9
	2019	Other Gasoline Stations	183
_	2019	Convenience Stores	141
1			

