

Southern California Edison Demand Response and San Joaquin Valley Pilots - Update

Disadvantaged Communities Advisory Group Meeting
September 18, 2020

Purpose & Agenda

Purpose

Provide an update on:

- San Joaquin Valley Disadvantaged Communities Pilot Projects (SJV Pilot)
- Demand Response Pilot in Disadvantaged Communities (DR Pilot)

Agenda

- Overviews
- Implementation Timeline
- Pilot Activities
- Preliminary Results
- Looking Ahead
- Questions & Comments

SJV Pilot Overview

Implement a cost-effective solution to increase access to affordable energy for residents of disadvantaged communities in the San Joaquin Valley.

Pilot Communities

California City = 100 households Ducor = 222 households West Goshen = 127 households

Budget

\$15,653,000

Measures

Heat Pump HVAC System; Heat Pump Water Heater; Electric Cooktop; Electric Dryer



The product images are for illustration purposes only and may not be an exact representation of the product.

SJV Pilot Overview cont.

Outreach & Enrollment

- Self-Help Enterprises - Community Energy Navigator Program Manager (CPM)
 - Will hire and manage community-based organizations and/or community leaders
 - Educate customers and provide technical assistance throughout the Pilot

Assessment & Installation

- Proteus & Synergy - General Contractors
 - Will determine viability of home for electrification
 - Will procure appliances & provide warranty/service coverage

Inspections

- SCE Inspectors
 - Will perform post-installation verification
- Local Building & Safety Department
 - Close-out permit

Community Energy Navigator Program Manager (CPM): Entity approved in D.18-12-015 to educate residents on the details of the SJV pilot, and among other things, manage aspects of outreach and enrollment in the SJV Pilot.

Community Energy Navigator (CEN): community-based organizations (e.g. Leadership Counsel for Justice & Accountability) and/or individuals' that perform the actual outreach and enrollment.

DR Pilot Overview

Implement traditional demand response shed strategies on heat pump water heaters installed through the SJV Pilot. Ensure heat pump water heaters are a viable and reliable source of water heating while supporting demand response capabilities.

Pilot Target

299 households within the three (3) SJV Pilot communities

Budget

\$1,000,000

Incentives

\$175 bill credit per period (i.e. 12 months) - *credit will be prorated if participation is less than 12 months*

Outreach & Enrollment

- CEN will educate and enroll eligible customers

Installation

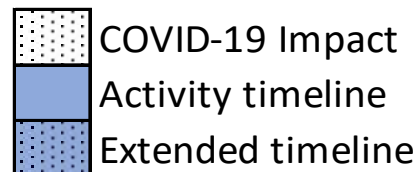
- Contractors will install CTA-2045 control device on heat pump water heaters

Consumer Technology Association (CTA) (formerly the Consumer Electronics Association, CEA) developed the ANSI/CTA-2045 (formerly CEA-2045) Modular Communications Interface for Energy Management standard

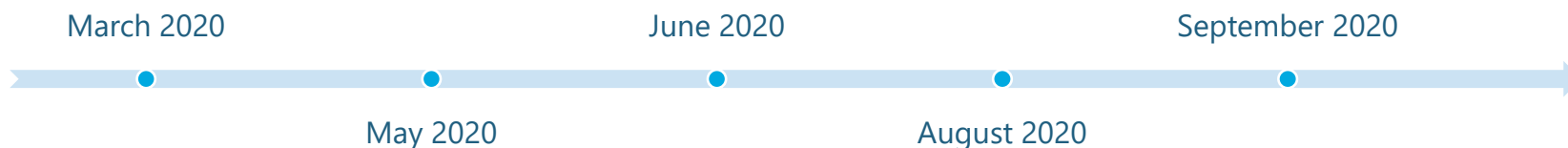


Implementation Timeline

Activity	2020				2021				2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
SJV Outreach & Enrollment	COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline							
SJV Home Assessment		COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline						
SJV Installation		COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline	Activity timeline					
DR Pilot Enrollment		COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline						
DR Pilot Participation #1			COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline					
DR Pilot Participation #2									Activity timeline	Activity timeline	Activity timeline	
Analyze DR Pilot Data											Activity timeline	Activity timeline
Report DR Pilot Results												Activity timeline
SJV Inspections		COVID-19 Impact	Activity timeline	Activity timeline	Activity timeline	Activity timeline	Activity timeline					



Pilot Activities



March 2020 - SCE suspended all face-to-face interaction between SCE contractors and SCE customers to comply with the State of California “stay at home” orders to slow the spread of COVID-19. SCE and the CPM collaborated on a letter sent to potential participants to notify them of the change to virtual outreach/enrollment for the SJV Pilot.

May 2020 – SCE provided CPM customer contact information (name, address, phone, email – if available). CEN started outreach and enrollments in Ducor via phone campaigns.

June 2020 - SCE removed previous restrictions on face-to-face interactions between SCE contractors and SCE customers. Contractors are to follow SCE’s safe work practices guidance at minimum as well as the most restrictive state, county, or local orders for all relevant work activities.

- CEN started outreach and enrollment in West Goshen via phone and in-person (*with willing customers*)

August 2020 – First assessment completed in Ducor and West Goshen. Contractors coordinating with SCE Engineering group and Local Building & Safety Department to evaluate electrical upgrades and identify any efficiencies to streamline process.

September 2020 – Contractors starting to ramp-up assessments and start installation on first SCE approved projects.

- SCE and CEN to collaborate on outreach and enrollment plan for California City.

Preliminary Results

As of August 31, 2020

Community	Applications			Assessments		
	Not Eligible	In-Progress	Complete	Pending Scheduling	In-Progress	Completed
Ducor	8	2	51	39	10	2
West Goshen	5	8	56	43	11	1
California City						
TOTAL	13	10	107	82	21	3

NOTES:

“Not Eligible” – includes homes without propane appliances, landlord refusal, or customer not interested.

Leveraging Other Programs

During the outreach and enrollment process, the CEN educates customers on additional programs, such as but not limited to:

- **California Alternate Rates for Energy (CARE)**, an income qualified program that reduces energy bills for eligible customers by about 30%.
 - 54% of “Completed” applications are currently on CARE.
- **Energy Savings Assistance (ESA) Program**, customer who meet the CARE income guidelines may be eligible to receive energy efficient measures, such as Light Emitting Diode (LED) bulbs, smart power strips, refrigerators, and weatherization services at no-cost.
 - Both general contractors are authorized to provide ESA Program services.
- **Disadvantaged Communities Single-family Affordable Solar Homes Program (DAC-SASH)**, modeled after the Single-family Affordable Solar Homes (SASH) Program, may help in the form of up-front financial incentives towards the installation of solar generating systems on the single-family homes of low-income homeowners.

Looking Ahead

- Contractors completing installations in Ducor and West Goshen;
- CEN starting outreach and enrollments for DR Pilot; and
- CEN starting outreach and enrollments in California City.

Applying lessons learned:

- Customers are not trusting CEN or legitimacy of Pilot; therefore, second round of outreach and enrollment may be necessary for Pilot communities.
 - Cancellation of community outreach events (COVID-19) impacted CEN ability to engage and establish themselves within community of Ducor.
- Continue to improve communication among CPM/CEN, general contractors, and SCE; ensure CPM electronic tool is utilized to track touchpoints throughout the customer journey.

Questions & Comments

Thank you

Davi Ibarra
davi.ibarra@sce.com