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| Docket Number: | 23-LMS-01 |
| Project Title: | Load Management Standards Implementation |
| TN #: | 259412 |
| Document Title: | Peninsula Clean Energy's List of Load Flexibility Programs |
| Description: | N/A |
| Filer: | Jenna Sharp |
| Organization: | Peninsula Clean Energy |
| Submitter Role: | Public Agency |
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October 1, 2024

Mr. Drew Bohan
Executive Director
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

RE: Submission of Peninsula Clean Energy Authority's List of Cost-Effective Demand Flexible Programs to the CEC Executive Director Pursuant to California Code of Regulations, Title 20, Division 2, Chapter 4, Article 5, Section 1623.1(b)(3)

Dear Mr. Bohan,

Pursuant to the California Code of Regulations Section 1623.1, Peninsula Clean Energy Authority ("PCE") is writing to submit a current list of load flexibility programs available or planned for customer enrollment. These programs are either approved by the PCE board or within the authority of PCE's Chief Executive Officer Shawn Marshall to evaluate for cost effectiveness and implementation on behalf of the governing Board.

These programs align with the CEC's mission to support load shifting and load flexibility. In the context of PCE's Load Management Plan as a whole, they are intended to function as possible alternative or supplemental load shifting programs in conjunction with any marginal cost-based rates. We are targeting integrating these programs with real time signals by 2027 when several of the CPUC sponsored load flexibility pilots may be expiring. Although none of these programs are currently configured to integrate signals from the MIDAS system, Peninsula Clean Energy is participating in a solicitation to install and support a Distributed Energy Resources Management System to ensure that these programs will be able to respond to MIDAS signals once the MIDAS system becomes fully operational.

PCE appreciates the opportunity to update the CEC on our current programmatic offerings. If you have any questions or additional information is required, please contact Doug Karpa at dkarpa@peninsulacleanenergy.com.

Sincerely,

Jenna Sharp
Regulatory Analyst
Peninsula Clean Energy Authority
jsharp@peninsulacleanenergy.com

| Customer Classes Served | | Residential, Commercial/Industrial | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------------|---|-----------------------|--|---|--|---|--|--|--|---|--|---|---|--|---|--|---|--|---|--|---|--|--|--|
| Program Name | Common Name | RIN(s) | Customer Class(es) | Enrollment Requirements | Interaction with MIDAS | Start Date | Evaluation Criteria | End Date | Description | Reward Structure | Customer Outreach | Cost Effectiveness | Program or Rate Website | | | | | | | | | | | | |
| Description: Identify the full name of the rate or program. | | Description: Indicate the program's common name | | Description: Provide a list of customer classes that will be uploaded to MIDAS for the rate or program. | | Description: Provide customer qualification criteria to enroll in the program. | | Description: Describe how the program will be integrated with MIDAS. | | Description: Identify the program start date. | | Description: Describe how the program will be evaluated. (If the program is not being evaluated this can be left blank.) | | Description: Identify the program end date, if known. | | Description: Provide a general overview of the program. | | Description: Describe how participation benefits customers. | | Description: Describe how customers will be informed about program availability, how to subscribe, and how to participate in load shifting. | | Description: Provide information on the program's cost effectiveness. | | Description: Provide a link to the program or rate webpage. If no webpage exists, put N/A. | |
| Residential Solar & Storage | PCE Solar + Battery Savings | TBD | Residential | The program will rollout in two phases. Initial phase is focused on low-income homeowners (with income at or below 80% of the area median income (AMI)) and is giving preference to outage risk regions. This phase will rely on available SGIP and ITC incentives to cover the costs of the systems. The second phase will be a general access program for any residential customer who relies on financing to address up-front costs. Customers will be required to have the systems participate in daily load shift and DR programs to maximize grid benefits while providing customer cost savings. The program may also be updated to integrate MIDAS hourly signals. | | Phase one began Sept. 2024 | | TBD | Phase 1 of PCE's Residential Solar and Storage program is called the "PCE Solar + Battery Savings" program. Under the program, PCE works with a pre-selected developer to facilitate solar + storage or standalone storage installations at low-income customers' homes by leveraging statewide incentives under the Self-Generation Incentive Program (SGIP) and federal tax credits. Customers will receive a streamlined installation experience with no upfront costs. In return, they are allowing PCE to use the systems to provide grid services. Phase 2 of the program will target general market (i.e. non low-income) customers and will provide low- to zero percent financing options for participating customers. | Under Phase 1 of the program, participating customers are receiving solar+storage or standalone storage systems at no upfront costs for their homes (an estimated value between \$13,000 - \$25,000 per home). This is feasible by leveraging SGIP incentives and federal tax credits. Under the SGIP, participating customers are also required to enroll in a Qualified DR program which will open up an additional revenue stream for customers. Finally, PCE intends to also dispatch the resources on a daily basis to provide grid services. The exact valuation of those services is TBD. | For phase one, broadcast email and mailers to CARE customers plus CBO outreach. | | https://www.pennstateenergy.com/solar-battery-savings/ | | | | | | | | | | | | |
| Residential Electrification Direct Install | Home Upgrade | TBD | Residential | Owner-occupied, 80% AMI | | 2024 | | TBD | The Residential Electrification Direct Install allows for no cost or low cost home upgrades to facilitate home electrification. These homes may interact with the planned DERMS platform to facilitate marginal cost based responsiveness. | Potential reward structures for customers for hourly responses will be determined at a future date when the DERMS and MIDAS platforms are operational and data on potential responses are better quantified. | Email and CBO outreach | | https://www.pennstateenergy.com/electrification/ | | | | | | | | | | | | |
| Local Government Solar + Storage | GovPV | TBD | Commercial/Industrial | Public agency, owner-occupied facility | Each of these programs is envisioned to incorporate remote dispatch DERMS or comparable technologies, which will enable all of these programs to become automated MCB signal responsive programs, as envisioned in 20 Cal. Code Regs. § 1623.1(a)(1)(B). The timeline and feasibility of the rollout of these technologies will be evaluated in future development of these programs and ongoing development of the MIDAS system. | 2022 | PCE closely evaluates all programs it executes and anticipates that load-shaping programs will be evaluated with the following criteria: • Amount of grid peak load reduction • Consistency and reliability of load reduction • Customer participation rate • Cost of recruitment and operation • Customer benefits, impacts, and satisfaction | TBD | The GovPV program provides fully financed technical assistance and installation services. Local agencies execute power purchase agreements (PPA) with PCE and PCE provides all development services including site assessment, design, competitive procurement, construction administration, and ongoing O&M. As a component of the program storage systems will be offered and the storage systems will be required to participate in daily load shifting and DR programs. | Potential reward structures for customers for hourly responses will be determined at a future date when the DERMS and MIDAS platforms are operational and data on potential responses are better quantified. | Direct outreach to local governments via PCE board to electeds and sustainability staff | • Program development. This includes the costs associated with program design and setup, including integrating such programs with internal and external systems. • Program administration. This involves ongoing costs to administer the program, including marketing, customer recruitment, customer education, development, and maintenance of customer tools, and any upfront or ongoing incentive payments that are part of the design. • Technology and Implementation costs. Each new load flexibility program requires significant investments in new technology platforms. These include external software systems that must be procured to communicate with and dispatch devices, as well as internal systems that must be developed and configured to integrate the external software. | https://www.pennstateenergy.com/government-programs/ | | | | | | | | | | | | |
| Local Government Electric Vehicles | GovEV | TBD | Commercial/Industrial | Public agency, owner-occupied facility | | 2023 | | TBD | The GovEV program helps local municipal fleets plan for fleet electrification by providing technical assistance for vehicle replacement purchasing and the installation of EV chargers. As a component of this program, PCE produces a charging optimization plan, which outlines the cost potential of managed charging for their specific fleet. PCE is also making the ChargePilot charge management system by The Mobility House free for fleets, as part of the GovEV program for one year. The ChargePilot system (optional to fleets but recommended) will help shift more fleet charging to occur during off-peak hours and mitigate demand charges, as well as provide insights into EV charging metrics for fleet managers. | Potential reward structures for customers for hourly responses will be determined at a future date when the DERMS and MIDAS platforms are operational and data on potential responses are better quantified. | Direct outreach to local governments via PCE board to electeds and sustainability staff | https://www.pennstateenergy.com/government-programs/ | | | | | | | | | | | | | |
| Local Government Building Electrification | GovBE | TBD | Commercial/Industrial | Public agency, owner-occupied facility | | Aug-24 | | TBD | The GovBE program helps local governments convert methane gas equipment to clean, efficient, electric alternatives with grants of up to \$600,000 per year and loans of up to \$600,000 per jurisdiction. | Potential reward structures for customers for hourly responses will be determined at a future date when the DERMS and MIDAS platforms are operational and data on potential responses are better quantified. | Direct outreach to local governments via PCE board to electeds and sustainability staff | https://www.pennstateenergy.com/government-programs/ | | | | | | | | | | | | | |