



Charge Ready Pilot Program  
**Q3/2018 Report**

Issued November 30, 2018



SOUTHERN CALIFORNIA  
**EDISON**<sup>®</sup>

Energy for What's Ahead<sup>®</sup>



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## Background

The Charge Ready and Market Education programs were developed to support California’s policies to reduce greenhouse gas (GHG) and air pollutant emissions in an effort to meet the state’s Zero-Emission Vehicle (ZEV) goals. The Charge Ready program deploys electric infrastructure to serve qualified electric vehicle (EV) charging stations throughout Southern California Edison’s (SCE) service territory, while the Market Education program targets car buyers to help them gain awareness of EVs and the benefits of fueling from the grid.

The Market Education program also includes a launch of SCE’s advisory services to include specific education and support related to electrifying fleets, EV charging, reducing GHG footprints, and other related transportation electrification (TE) areas for business customers. Each program was designed in two phases, with a smaller-scope Phase 1 Pilot to prepare for a broader Phase 2.

The Pilot’s objectives are to inform and refine the program’s design and cost estimates, and develop success measures for a subsequent Phase 2. The Pilot’s quarterly reports include key metrics and updates about progress, achievements, and lessons learned.



# 1 Executive Summary

## 1.1 Program Description

The Charge Ready Program Pilot was developed to reduce barriers to EV adoption by deploying electric infrastructure to serve EV charging stations (EV supply equipment, or EVSE)<sup>1</sup> at long dwell-time locations (where EVs are usually parked for at least four hours). These locations provide adequate time for most EV drivers to fully recharge their vehicles.

The Pilot was open to eligible non-residential customers in the following long dwell-time location market segments:

- Workplaces
- Multi-unit Dwellings (MUDs), such as apartment buildings
- Fleets
- Destination centers, such as sports arenas or malls

Through the Charge Ready Program Pilot, SCE installed, owned, maintained, and paid all related costs for make-ready stubs serving EVSE, including:

- Electric distribution infrastructure, such as transformers, service lines, and meters dedicated to EV charging equipment deployed under the program.
- Customer-side infrastructure, such as panels, step-down transformers, wiring and conduits, and stub outs to allow for EVSE installations.

Participating customers were responsible for procuring, installing, and maintaining qualified EVSE, including electrical energy and networking costs, but received rebates applicable against some or all of the EVSE and installation costs.

SCE established an Advisory Board comprised of customers, industry stakeholders, and representatives of disadvantaged communities (DACs). The board provided useful input and guidance to SCE during the Pilot implementation and execution.

## 1.2 Pilot Summary for Quarter

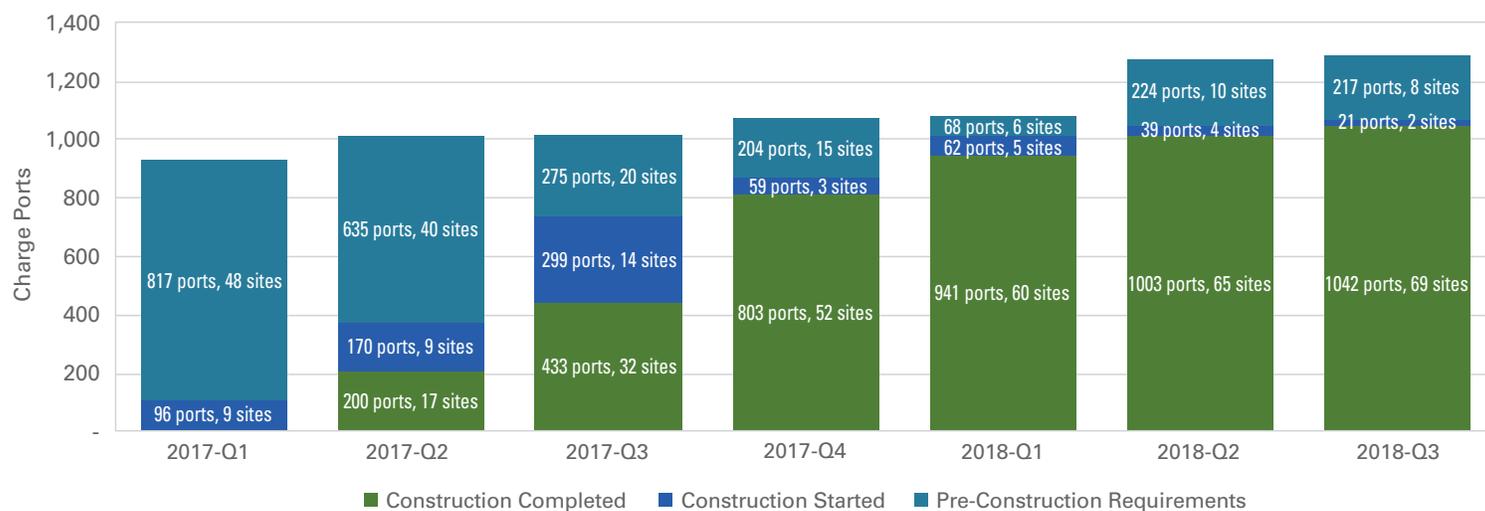
By the end of the third quarter in 2018, SCE reserved funding for a total of 1,280 charge port commitments at 79 sites. Of the 1,280 committed charge ports, 617 charge ports (48%) are located in DACs, which is considerably higher than the Pilot's requirement to deploy 10% of charge ports in DACs.

Several projects continued forward through the construction and installation process. SCE efforts included infrastructure construction and post-installation verification to confirm equipment installation, while customers continued procuring qualified charging stations, granting easements in the property where the charging infrastructure will be deployed, and completing the charging station installations. Figure 1.1 shows 69 sites with 1,042 ports where SCE completed infrastructure. SCE has started construction at two sites with 21 charge ports. Lastly, eight sites for 217 charge ports were gathering pre-construction requirements, such as permitting and easements.

<sup>1</sup> As EVSE may typically include one, two, or four charge ports, with varying costs and demand (kW), SCE uses charge port (rather than EVSE) as the preferred unit to provide detailed reporting about Charge Ready.

Figure 1.1 – Construction Status Quarterly Inception-to-Date

## Construction Status Quarterly Inception-to-Date



The following table summarizes the Pilot's costs recorded at the end of Q3 2018.

Table 1.1 – Pilot Summary for Quarter 3, 2018

| Variables  | Filing Assumptions<br>(2014\$) | Inception-to-date<br>as of 9/30/2018 | Variance             | % Variance  |
|--|--------------------------------|--------------------------------------|----------------------|-------------|
| <b>Capital</b>                                   |                                |                                      |                      |             |
| Utility Side Infrastructure Costs                | \$3,353,532                    | \$1,689,695                          | \$1,663,837          | 50%         |
| Customer Side Infrastructure Costs               | \$7,586,387                    | \$10,940,676                         | (\$3,354,289)        | -44%        |
| Easement   | \$115,942                      | \$85,699 <sup>2</sup>                | \$30,243             | 26%         |
| Station Testing                                  | \$30,000                       | \$38,554 <sup>4</sup>                | (\$8,554)            | -29%        |
| Business Customer Division Labor                 | \$103,500                      | \$99,877 <sup>4</sup>                | \$3,623              | 4%          |
| Program Management Office Labor                  | \$460,003                      | \$648,881 <sup>4</sup>               | (\$188,878)          | -41%        |
| <b>Total Capital</b>                             | <b>\$11,649,364</b>            | <b>\$13,503,382</b>                  | <b>(\$1,854,018)</b> | <b>-16%</b> |
| <b>Operations &amp; Maintenance</b>              |                                |                                      |                      |             |
| Rebate   | \$5,850,000                    | \$799,479                            | \$5,050,521          | 86%         |
| Business Customer Division Labor                 | \$51,750                       | \$39,916 <sup>3</sup>                | \$11,834             | 23%         |
| Transportation Electrification Advisory Services | \$316,800                      | \$301,763                            | \$15,037             | 5%          |
| PMO Labor & Non-Labor                            | \$232,340                      | \$268,862                            | (\$36,522)           | -16%        |
| Charge Ready ME&O                                | \$665,000                      | \$539,391                            | \$125,609            | 19%         |
| EV Awareness                                     | \$2,830,600                    | \$2,108,223                          | \$722,377            | 26%         |
| Other O&M <sup>4</sup>                           | \$0                            | \$1,049,611                          | (\$1,049,611)        | 0%          |
| <b>Total Operations and Maintenance</b>          | <b>\$9,946,490</b>             | <b>\$5,107,245</b>                   | <b>\$4,839,245</b>   | <b>49%</b>  |
| <b>Total Program</b>                             | <b>\$21,595,854</b>            | <b>\$18,610,627</b>                  | <b>\$2,985,227</b>   | <b>14%</b>  |

2 A decrease from the Pilot Report can be seen due to costs being transferred to Utility-Side and Customer-Side Infrastructure Costs per SCE reporting guidelines. Total Capital Costs did not change.

3 A decrease from the Pilot Report can be seen due to reclassification to capital labor.

4 Includes overhead, site assessments, design, and permitting costs on projects that did not move forward.

## 2 Pilot Operations

### 2.1 Process Overview

The Pilot's end-to-end process can be described in six stages: Engagement, Evaluation, Confirmation, Planning and Design, Construction, and Verification.

- **Engagement** begins with a customer submitting an application indicating their interest in participating in the Pilot. The application the customer submits is called **Step 1 – Notice of Intent**.
- **Evaluation** follows the application submission. SCE conducts on-site assessments to evaluate the feasibility of deploying charging stations through the Pilot.
- **Confirmation** of the customer's participation includes approval by the customer of the number of charging stations and deployment location at each site (as proposed by SCE). SCE reserves funding (if available) upon receipt of **Step 2 – Agreement**, signed by the customer and property owner.
- SCE then conducts **Planning and Design** for the approved site, while the Customer Participant procures qualified charging stations. At the end of the procurement period, Customer Participants must provide the required proof of purchase using **Step 3 – Certification**.
- SCE then conducts **Construction** for the approved site. A pre-construction meeting is held with the Customer Participant before construction begins. Once the infrastructure is completed and passes inspection, the Customer Participant's selected charging station vendor installs the charging stations.
- Finally, **Verification** takes place to ensure the electric infrastructure and charging systems were deployed in accordance with approved plans (using **Step 4 – Walk-Through Report** and **Step 5 – Rebate Confirmation**); SCE then issues the rebate.

#### Waitlist Process

SCE established a waitlist for customers that did not meet program timelines or whose applications exceeded funding availability. Waitlisted projects can move forward in the process if other projects with reserved funding drop out or if previously reserved funding becomes available (for example, if a project with reserved funding has cost underruns).

### 2.2 Status Overview

#### Pilot Re-Opening

On March 9, 2018, SCE released unused funds reserved for completed sites and re-opened the Pilot to new applications. Since the re-opening, the Pilot has received 137 applications requesting 2,086 charge ports. By September 2018, from the new applications received, the Pilot has reserved funds for eight sites and 214 charge ports.

#### Overall Status

By the end of the third quarter in 2018, SCE reserved funding for a total of 1,280 charge port commitments. Of the 1,280 committed charge ports, 617 charge ports (48%) are located in Disadvantaged Communities, which is considerably higher than the Pilot's requirement to deploy 10% of charge ports in Disadvantaged Communities. In addition, a total of 125 charge ports from six applications were put on the waitlist due to limited funding available. The following three charts provide the charge port distribution per the category noted for the 1,280 charge ports that have reserved funding.

Figure 2.1 – Charge Port Distribution by Market Segment

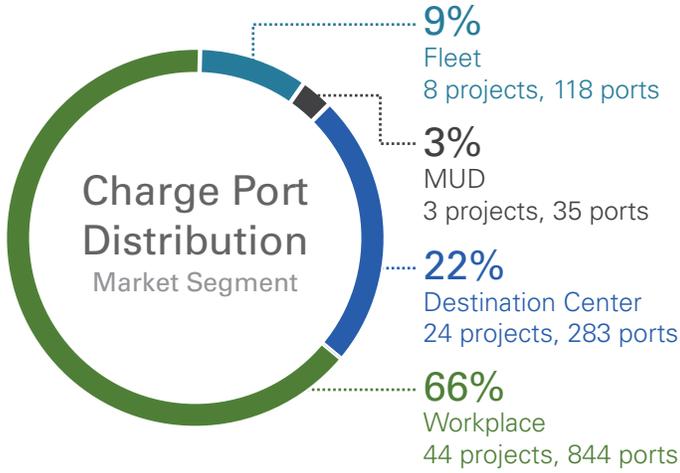


Figure 2.3 – Charge Port Distribution DAC and Non-DAC

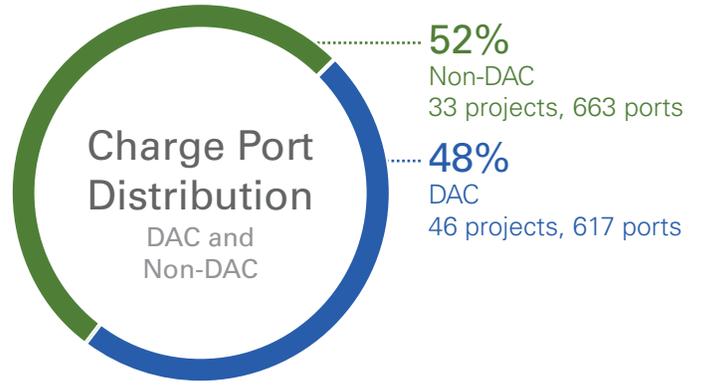
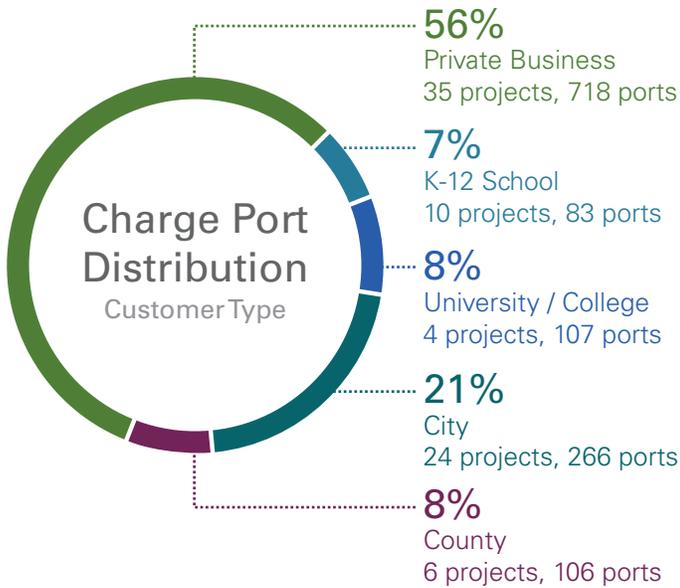
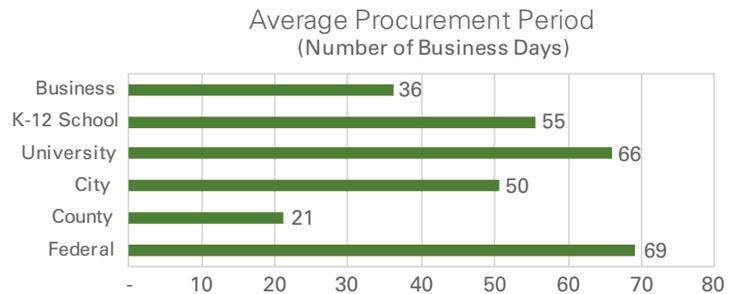


Figure 2.2 – Charge Port Distribution by Customer Type



By the end of Q3, 74 customers with 1,128 charge ports had submitted their procurement documents for the charging stations. The average procurement period was 43 business days with the majority of customers submitting the allowed two extension requests. The average procurement periods by organization type are shown in Figure 2.4.

Figure 2.4 – Average Procurement Period



The following two charts provide a snapshot of the Pilot's operational metrics relating to customer applications in the Charge Ready Program Pilot. The data reflected in the following charts captures project activity from the launch of the Pilot in May of 2016, through the end of Q3 2018.

Figure 2.5 – Applications Received

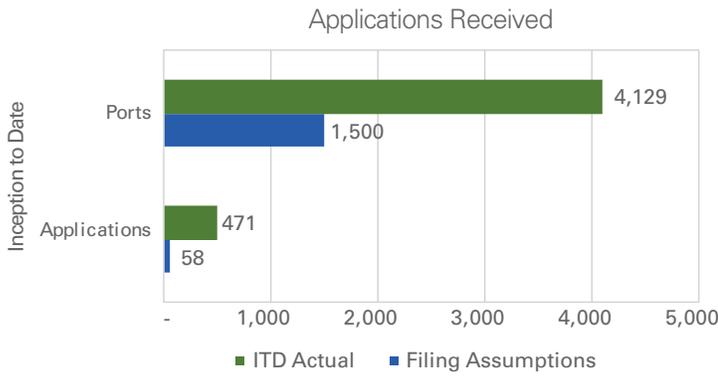


Figure 2.6 – Number of Approved and Confirmed Projects

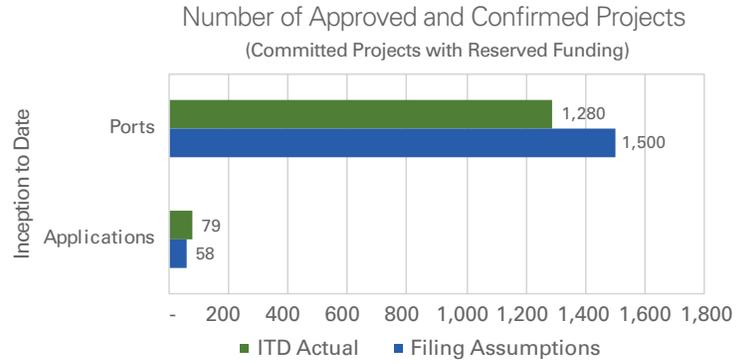


Table 2.1 – Pilot Operational Metrics for Quarter

## Total Number of Applications Received

|                           | Filing Assumptions                 | Quarter 3, 2018                  | Inception-to-Date Actual            | Percentage to Filing Assumptions |
|---------------------------|------------------------------------|----------------------------------|-------------------------------------|----------------------------------|
|                           | 58 projects,<br>1,500 charge ports | 22 projects,<br>131 charge ports | 471 projects,<br>4,129 charge ports | 812%,<br>275%                    |
| Disadvantaged Communities | N/A                                | 14%                              | 43%                                 | N/A                              |
| Destination Centers       | N/A                                | 14%                              | 24%                                 | N/A                              |
| Workplaces                | N/A                                | 81%                              | 65%                                 | N/A                              |
| Fleet                     | N/A                                | 0%                               | 5%                                  | N/A                              |
| Multi-unit Dwellings      | N/A                                | 5%                               | 6%                                  | N/A                              |

## Percentage of Charging Stations Requested

|                           | Filing Assumptions                 | Quarter 3, 2018                  | Inception-to-Date Actual            | Percentage to Filing Assumptions |
|---------------------------|------------------------------------|----------------------------------|-------------------------------------|----------------------------------|
|                           | 58 projects,<br>1,500 charge ports | 22 projects,<br>131 charge ports | 471 projects,<br>4,129 charge ports | 812%,<br>275%                    |
| Disadvantaged Communities | 10%                                | 6%                               | 35%                                 | 368%                             |
| Destination Centers       | N/A                                | 3%                               | 24%                                 | N/A                              |
| Workplaces                | N/A                                | 94%                              | 56%                                 | N/A                              |
| Fleet                     | N/A                                | 0%                               | 6%                                  | N/A                              |
| Multi-unit Dwellings      | N/A                                | 3%                               | 14%                                 | N/A                              |

## Number of Applicants Rejected

|                           | Filing Assumptions | Quarter 3, 2018                            | Inception-to-Date Actual                         | Percentage to Filing Assumptions |
|---------------------------|--------------------|--|--|----------------------------------|
|                           | N/A                | 1 project,<br>20 requested<br>charge ports | 129 projects,<br>1,169 requested<br>charge ports | N/A                              |
| Disadvantaged Communities | N/A                | 100%                                       | 39%  | N/A                              |
| Destination Centers       | N/A                | 100%                                       | 26%  | N/A                              |
| Workplaces                | N/A                | 0%   | 68%  | N/A                              |
| Fleet                     | N/A                | 0%   | 0%   | N/A                              |
| Multi-unit Dwellings      | N/A                | 0%   | 6%   | N/A                              |

**Number of Applicants Withdrawn**

|                           | Filing Assumptions | Quarter 3, 2018              | Inception-to-Date Actual       | Percentage to Filing Assumptions |
|---------------------------|--------------------|------------------------------|--------------------------------|----------------------------------|
|                           | N/A                | 13 projects, 67 charge ports | 171 projects, 814 charge ports | N/A                              |
| Disadvantaged Communities | N/A                | 23%                          | 45%                            | N/A                              |
| Destination Centers       | N/A                | 31%                          | 21%                            | N/A                              |
| Workplaces                | N/A                | 61%                          | 67%                            | N/A                              |
| Fleet                     | N/A                | 8%                           | 6%                             | N/A                              |
| Multi-unit Dwellings      | N/A                | 0%                           | 6%                             | N/A                              |

**Number of Applicants Withdrawn After Signing Step 2 – Agreement**

|                           | Filing Assumptions | Quarter 3, 2018 | Inception-to-Date Actual | Percentage to Filing Assumptions |
|---------------------------|--------------------|-----------------|--------------------------|----------------------------------|
|                           | N/A                | 2               | 15                       | N/A                              |
| Disadvantaged Communities | N/A                | 1               | 7                        | N/A                              |
| Destination Centers       | N/A                | 1               | 5                        | N/A                              |
| Workplaces                | N/A                | 1               | 9                        | N/A                              |
| Fleet                     | N/A                | 0               | 1                        | N/A                              |
| Multi-unit Dwellings      | N/A                | 0               | 0                        | N/A                              |

**Average Number of Charge Ports per Site with Completed Infrastructure**

|                           | Filing Assumptions | Quarter 3, 2018 | Inception-to-Date Actual | Percentage to Filing Assumptions |
|---------------------------|--------------------|-----------------|--------------------------|----------------------------------|
|                           | N/A                | 10              | 15                       | N/A                              |
| Disadvantaged Communities | N/A                | 10              | 12                       | N/A                              |
| Destination Centers       | N/A                | 0               | 11                       | N/A                              |
| Workplaces                | N/A                | 10              | 18                       | N/A                              |
| Fleet                     | N/A                | 0               | 12                       | N/A                              |
| Multi-unit Dwellings      | N/A                | 0               | 12                       | N/A                              |

**Total Number of Projects with Completed Infrastructure**

|                           | Filing Assumptions              | Quarter 3, 2018             | Inception-to-Date Actual        | Percentage to Filing Assumptions |
|---------------------------|---------------------------------|-----------------------------|---------------------------------|----------------------------------|
|                           | 58 projects, 1,500 charge ports | 4 projects, 39 charge ports | 69 projects, 1,042 charge ports | 119%, 69%                        |
| Disadvantaged Communities | N/A                             | 100%                        | 62%                             | N/A                              |
| Destination Centers       | N/A                             | 0%                          | 32%                             | N/A                              |
| Workplaces                | N/A                             | 100%                        | 54%                             | N/A                              |
| Fleet                     | N/A                             | 0%                          | 10%                             | N/A                              |
| Multi-unit Dwellings      | N/A                             | 0%                          | 4%                              | N/A                              |

**Average Number of Charge Ports per Site with Customer Installation Completed**

|                           | Filing Assumptions | Quarter 3, 2018 | Inception-to-Date Actual | Percentage to Filing Assumptions |
|---------------------------|--------------------|-----------------|--------------------------|----------------------------------|
|                           | N/A                | 22              | 15                       | N/A                              |
| Disadvantaged Communities | N/A                | 29              | 13                       | N/A                              |
| Destination Centers       | N/A                | 12              | 11                       | N/A                              |
| Workplaces                | N/A                | 24              | 20                       | N/A                              |
| Fleet                     | N/A                | 0               | 9                        | N/A                              |
| Multi-unit Dwellings      | N/A                | 0               | 12                       | N/A                              |

**Total Number of Projects with Customer Installation Completed**

|                           | Filing Assumptions              | Quarter 3, 2018              | Inception-to-Date Actual      | Percentage to Filing Assumptions |
|---------------------------|---------------------------------|------------------------------|-------------------------------|----------------------------------|
|                           | 58 projects, 1,500 charge ports | 7 projects, 154 charge ports | 61 projects, 919 charge ports | 105%, 61%                        |
| Disadvantaged Communities | N/A                             | 57%                          | 61%                           | N/A                              |
| Destination Centers       | N/A                             | 14%                          | 34%                           | N/A                              |
| Workplaces                | N/A                             | 86%                          | 51%                           | N/A                              |
| Fleet                     | N/A                             | 0%                           | 10%                           | N/A                              |
| Multi-unit Dwellings      | N/A                             | 0%                           | 5%                            | N/A                              |

**Table 2.2 – Customer Participant Request<sup>5</sup>**

|   | Filing Assumptions | Year-to-Date Actual                        |
|---|--------------------|--|
| Average number of total parking spaces per site   | N/A                | 633 parking spaces/site                    |
| Percentage of total number of parking spaces located in parking structures              | N/A                | 19%  |
| Average fleet size <sup>6</sup>   | N/A                | 7 (Fleet Segment Only)<br>4 (All Segments) |
| Percentage of applications received with charging systems already installed at the site | N/A                | 19%  |
| Average number of charging systems already installed at the site                        | N/A                | 9  |
| Average number of charge ports requested per site                                       | 26                 | 13.6                                       |
| Disadvantaged Communities   | N/A                | 11.2                                       |
| Destination Centers   | N/A                | 12.7                                       |
| Workplaces  | N/A                | 12.1                                       |
| Fleet   | N/A                | 14.7                                       |
| Multi-unit Dwellings  | N/A                | 32.3                                       |

**Table 2.3 – Pilot Costs**

|  | Filing Assumptions <sup>7</sup>           | Inception-to-Date<br>(Recorded)   | Percentage<br>to Filing<br>Assumptions |
|--|---|---|--|
| Total estimated Pilot costs (infrastructure plus rebate paid) <sup>8</sup>                 | \$16,792,136                              | \$17,204,396<br>1,280 charge ports <sup>9</sup>                           | 102%                                   |
| Average estimated cost per site (Utility + Customer infrastructure + rebate) <sup>10</sup> | \$291,070<br>(\$11,195 x 26 charge ports) | Average Cost per Site: \$217,777<br>Average No. Charge Ports per Site: 16 | 75%<br>62%                             |
| Average estimated cost per port (Utility + Customer infrastructure + rebate) <sup>11</sup> | \$11,195                                  | \$13,441<br>(\$12,801 in 2014\$)  | 114%                                   |
| Total amount of rebate reserved <sup>11</sup>  | \$5,850,000                               | \$1,588,433   | 27%                                    |
| Average amount of rebate reserved per site   | \$101,400<br>(\$3,900 x 26 charge ports)  | \$20,107  | 20%                                    |

5 Based on customer-provided information on application.

6 Applicants from all segment categories may indicate the number of fleet vehicles at their site (All Segments). Applicants in the fleet category intend to use the new charging station for their EV fleet (Fleet Segment Only).

7 Some items did not have planning assumptions, but actual costs are being tracked and reported.

8 Based on projects completed, estimated costs of projects in progress, and projects with pending invoices. Estimated costs are based on initial site assessment.

9 Committed charge ports with reserved funding.

10 Based on projects completed, estimated costs of projects in progress, and projects with pending invoices. Estimated costs are based on initial site assessment.

11 Based on projects completed, estimated costs of projects in progress, and projects with pending invoices. Estimated costs are based on initial site assessment.

12 Based on Step 2 agreement.

|  | Filing Assumptions <sup>7</sup>          | Inception-to-Date<br>(Recorded) | Percentage<br>to Filing<br>Assumptions |
|--|--|---------------------------------|--|
| Total amount of rebate paid <sup>13</sup>  | \$5,850,000                              | \$799,479                       | 13.7%                                  |
| Average amount of rebate<br>paid per site  | \$101,400<br>(\$3,900 x 26 charge ports) | \$14,805                        | 15%                                    |
| Total actual construction costs<br>for Utility infrastructure  | \$10,942,136                             | \$12,630,371                    | 115%                                   |
| Average actual construction cost<br>for Utility infrastructure per site  | N/A                                      | \$167,112                       | N/A                                    |
| Average actual construction<br>cost for Utility infrastructure<br>for projects with all Level 1<br>charging systems                          | N/A                                      | \$22,574                        | N/A                                    |
| Average actual construction<br>cost for Utility infrastructure<br>for projects with all Level 2<br>charging systems                          | N/A                                      | \$165,917                       | N/A                                    |
| Average actual construction<br>cost for Utility infrastructure<br>for projects with hybrid<br>charging systems (both<br>Level 1 and Level 2) | N/A                                      | N/A                             | N/A                                    |
| Total actual SCE site<br>assessment cost incurred by<br>withdrawn applicants (prior to<br>signing Step 2)                                    | N/A                                      | \$264,643                       | N/A                                    |
| Average actual SCE site<br>assessment cost incurred by<br>withdrawn applicants (prior to<br>signing Step 2)                                  | N/A                                      | \$3,576                         | N/A                                    |
| Total actual SCE site<br>assessment, design, permit,<br>and easement cost incurred<br>by withdrawn applicants<br>(after signing Step 2)      | N/A                                      | \$263,572                       | N/A                                    |
| Average actual SCE site<br>assessment, design, permit,<br>and easement cost incurred<br>by withdrawn applicants<br>(after signing Step 2)    | N/A                                      | \$17,571                        | N/A                                    |
| Total actual SCE construction<br>cost incurred by withdrawn<br>applicants  | N/A                                      | \$18,317                        | N/A                                    |
| Average actual SCE construction<br>cost incurred by withdrawn<br>applicants  | N/A                                      | \$4,579                         | N/A                                    |

<sup>13</sup> Based on 54 projects with rebate paid.

Figure 2.7 – Pilot Cycle Times

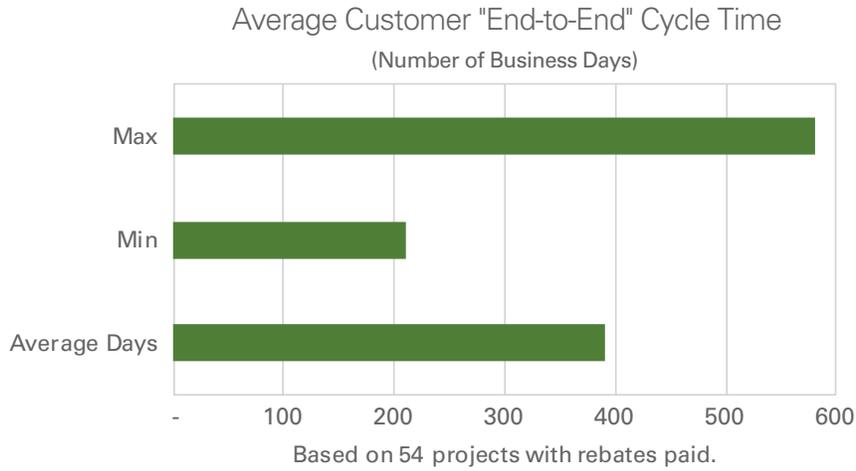
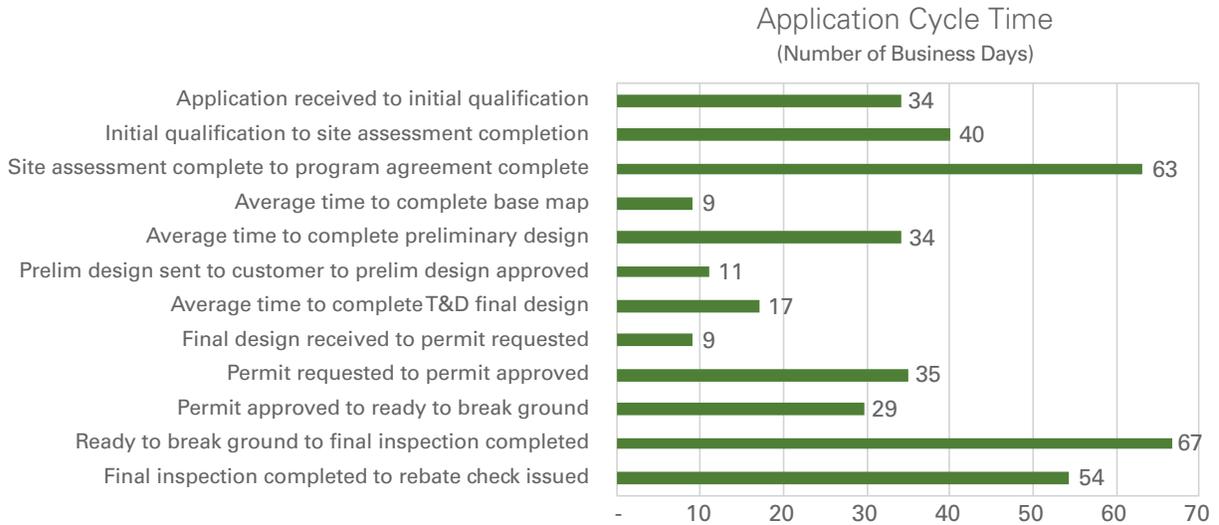


Figure 2.8 – Application Cycle Time



## 2.3 Supplier Diversity

In the Charge Ready Program Pilot, 82% of spend has been contracted with Diverse Business Enterprises (DBE) in support of the program.

The Charge Ready Program Pilot was previously at 100% DBE spend prior to conducting a second round RFP to source additional general contractors to support the construction of EV infrastructure.

## 2.4 Training and Safety

SCE values safety and ensured the utility and the customer participant site infrastructures were installed and maintained in safe working order. The Pilot requires SCE employees and subcontractors installing the make-readies to follow these safety requirements:

- All general contractors must prepare and adhere to a job specific Job Hazard Analysis (JHA).

- All general contractors must have a dedicated safety officer or manager who regularly visits the job site.
- Safety tailboards must be held daily to discuss the work to be performed and any potential risks.
- All general contractors must submit a monthly safety report to SCE.
- SCE personnel must follow all site safety regulations, including wearing appropriate personal protective equipment (PPE).
- Subcontractor electricians must hold valid California C-10 licenses.
- Electricians preparing the make-readies must be EV Infrastructure Training Program (EVITP) certified.

For infrastructure safety, all site plans were submitted to their authorities having jurisdiction (AHJs) for approval and permitting. Some AHJs required multi-agency (for example, Building & Safety, Electrical, and Fire Department Planning) approval. For charging station safety, all installations were completed per AHJ-approved plans and inspected by AHJ inspectors.



## 3 Charging Stations

### 3.1 Overview

The Charge Ready Program Pilot qualifies three different types of charging system profiles:

- Level 1 charging system, without network capability,
- Level 2 “A” charging system, with network capability integrated into the EVSE, and
- Level 2 “B” charging system, with network capability provided by an external device (such as a kiosk or gateway) shared among multiple stations.

Through a Request for Information (RFI) process, SCE conducts technical tests on proposed charging systems. In accordance with the terms and conditions of the RFI, qualified vendors (manufacturers, distributors) for the Pilot are required to offer Customer Participants:

- Qualified charging systems that meet SCE’s technical requirements
- Networking services, including transactional data reporting and demand response (DR) services

The Pilot’s Approved Package List (APL)<sup>14</sup> summarizes the vendors and EVSE models available to Customer Participants as of Q4 2017. By September, 2018, the Pilot offered 62 options for charging stations from 13 EVSE vendors and eight network providers, maintaining customer choice and market-neutral customer engagement.

Graph 3.1 – Number of Approved Charging System Models

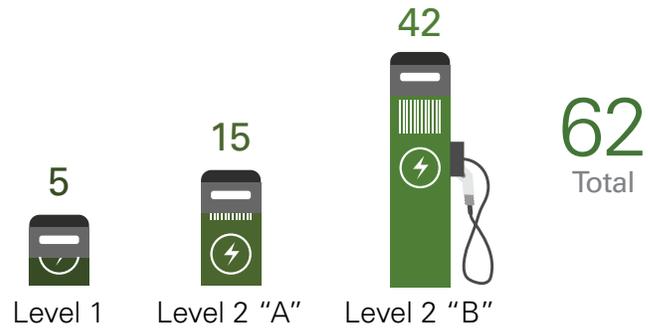


Table 3.1 – EVSE Model Summary

|  |     |
|--|-----|
| Average number of ports per EVSE       | 1.5 |
| Average number of circuits per EVSE    | 1.3 |
| Average number of ports per circuit    | 1.1 |
| Number of wall EVSE units              | 18  |
| Number of pedestal units               | 29  |
| Number of both wall and pedestal units | 15  |

The base cost of qualified EVSE for the Charge Ready Program Pilot is defined as “the best value offered for a charging station and its installation within each defined profile [of EVSE].”<sup>15</sup> SCE determines a price per port for each of the qualified models and configurations. SCE then selects the lowest price per port within each charging system type (using only those EVSE models that passed SCE’s technical evaluation) to determine the base costs. The base cost values as of Q4 2017 are shown in Table 3.2. The base cost values have not changed from the prior reporting period.

Table 3.2 – Base Cost of Charging Systems

| Charging System Type | Base Cost per Port |
|----------------------|--------------------|
| Level 1              | \$1,396            |
| Level 2 “A”          | \$2,188            |
| Level 2 “B”          | \$1,611            |

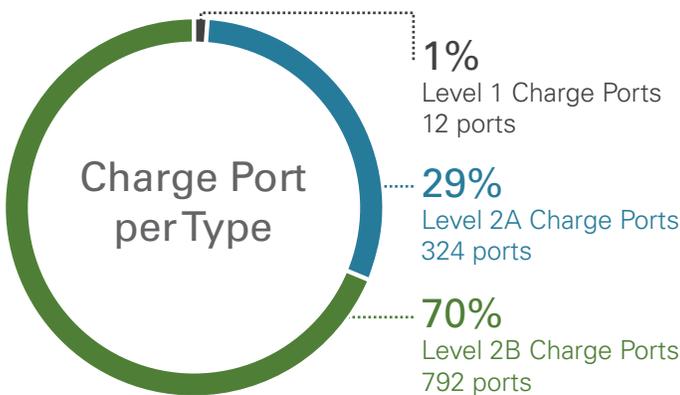
<sup>14</sup> The Pilot’s Approved Package List can be found on the landing page at <https://on.sce.com/chargeready>.

<sup>15</sup> In the Step 2 Agreement, the applicant indicates the requested number of Level 1 EVSE to be approved and installed under the Program. The number of installed Level 1 EVSE must match the number of Level 1 EVSE requested in Step 2 Agreement.

### 3.2 Customer Charging Stations

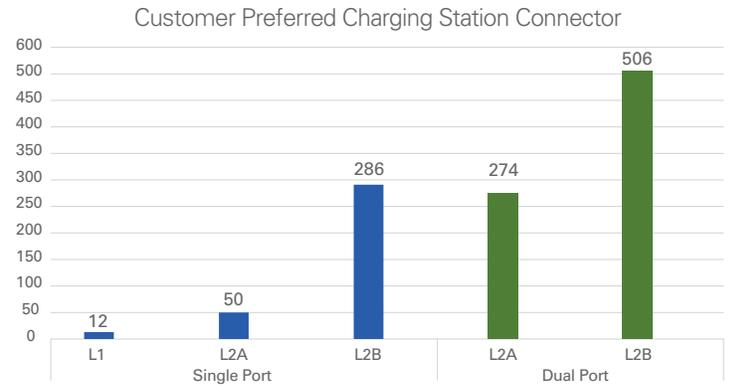
By the end of Q3 2018, 74 customers with reserved funding for 1,128 charge ports had submitted their proof-of-procurement documents for the charging stations. The vast majority of participants selected L2 “B” charging station systems that have network capability provided by an external device (such as a kiosk or gateway), which is shared among multiple stations. The second most popular L2 configuration included stations that have integrated networking capability. The following chart displays customer preferences for types of charging stations.

Figure 3.1 – Charge Ports per Type



More than twice as many Customer Participants selected and procured dual-port charging station configurations than those that acquired single-port systems. Figure 3.2 depicts the distribution of purchases across various charging station configurations.

Figure 3.2 – Customer Preferred Charging Station Connector



### 3.3 Rebates

As of September 30, 2018, a total of 54 rebate payments were released, representing 747 charge ports.

Table 3.3 provides a summary of charging station requests and rebates, as of September 30, 2018.

Table 3.3 – Charging Station Requests and Rebates

|  |           |
|--|-----------|
| Number of Level 1 charge ports requested <sup>16</sup>           | 12        |
| Number of Level 2 charge ports requested <sup>17</sup>           | 1,268     |
| Number of total charge ports approved                            | 1,280     |
| Average number of Level 1 charge ports approved per Level 1 site | 12        |
| Average number of Level 2 charge ports approved per Level 2 site | 16.3      |
| Rebate amount reserved for Level 1 ports                         | \$19,356  |
| Rebate amount reserved for Level 2A ports                        | \$364,965 |
| Rebate amount reserved for Level 2B ports                        | \$845,122 |
| Rebate amount paid for Level 1 ports                             | \$19,356  |
| Rebate amount paid for Level 2A ports                            | \$285,086 |
| Rebate amount paid for Level 2B ports                            | \$495,037 |

<sup>16</sup> In the Step 2 Agreement, the applicant indicates the requested number of Level 1 EVSE to be approved and installed under the Program. The number of installed Level 1 EVSE must match the number of Level 1 EVSE requested in Step 2 – Agreement.

<sup>17</sup> In the Step 2 Agreement, the applicant indicates the requested number of Level 2 EVSE to be approved and installed under the Program. The number of installed Level 2 EVSE must match the number of Level 2 EVSE requested in Step 2 – Agreement.

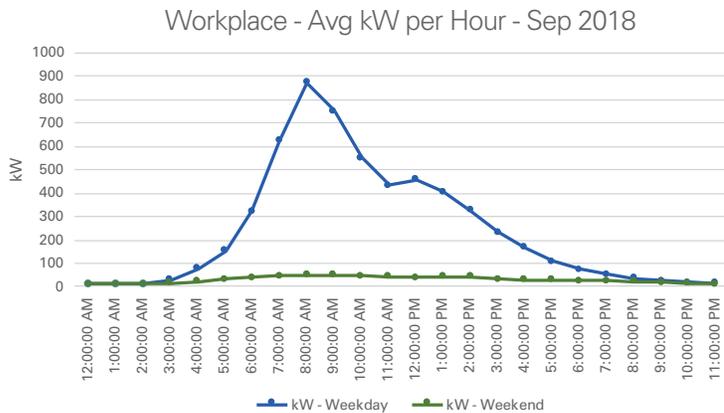
# 4 Charging Station Operation

## 4.1 Charging Station Utilization

Average load shapes for each segment (based on SCE meter data) are analyzed each month in order to determine when electric vehicles are being charged and when EV load may be available for curtailment or shifting. These load shapes have remained fairly consistent over time as more charging ports have been added to each segment. All figures below are based on Pacific Standard Time.

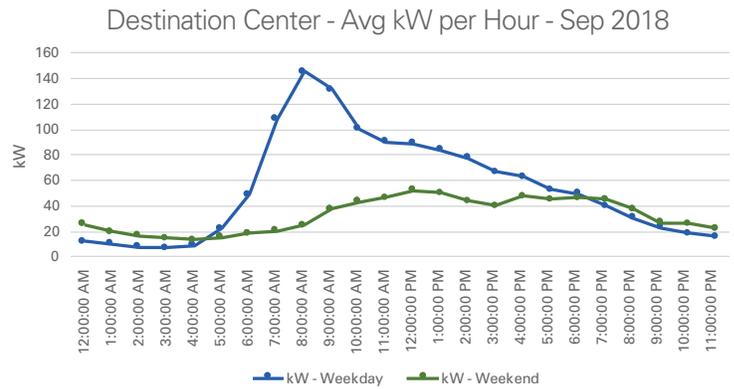
During the month of September 2018, charging ports at workplaces were used primarily during morning hours, with average peak usage occurring at 8 a.m. on weekdays. As expected, very little load occurred on weekends since workplaces typically operate Monday through Friday. Workplaces may be good candidates for load shifting since there is substantial load in the morning that could be shifted to later in the day, when more renewable generation is available.

Figure 4.1 – Workplaces Average Usage per Hour in September 2018, 29 sites/596 ports



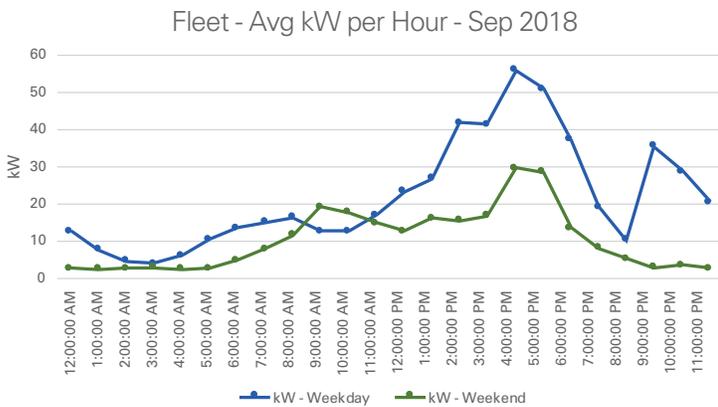
During the month of September 2018, charging ports located at Destination Centers were used throughout the day on both weekdays and weekends with average peak usage occurring at 8 a.m. on weekdays. With fairly consistent loads observed during the day on both weekdays and weekends, the morning peak on weekdays may be a result of these sites being used by employees of neighboring workplaces since the load mirrors the load seen at Charge Ready workplace sites. Based on available load during the morning and evening, Destination Centers may be good candidates for both shifting morning load to later in the day and reducing evening load to help manage the evening ramp.

Figure 4.2 – Destination Centers Usage per Hour in September 2018, 22 sites/234 ports



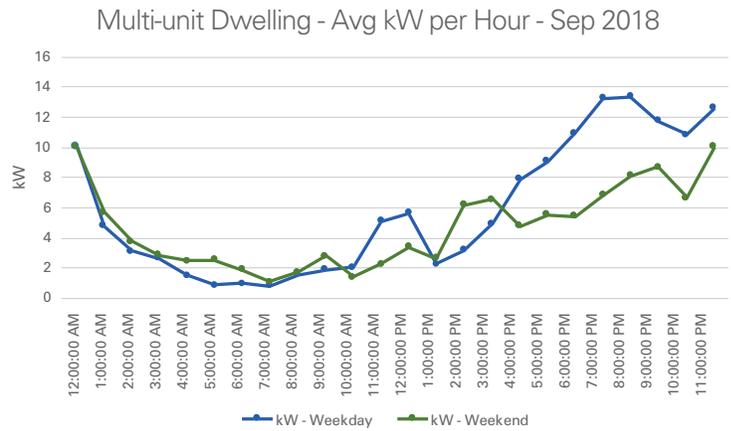
During the month of September 2018, charging ports at fleet sites were used primarily during late afternoon and evening hours with average peak usage occurring at 4 p.m. on weekdays. Some usage also occurs during morning hours on weekdays and throughout the day on weekends. Some morning load may be available for load shifting, but based on load shape fleets appear to be better suited for reducing load during evening ramping periods.

**Figure 4.3 – Fleets Usage per Hour in September 2018, 7 sites/83 ports**



During the month of September 2018, charging ports at Multi-Unit Dwellings were used primarily during weekday evenings and early morning hours on weekdays and weekends, with average peak usage occurring at 8 p.m. on weekdays. The load shape remained similar during both weekdays and weekends as expected since residences are typically occupied every day of the week. Very little morning load is available for shifting, but there is load available during evening hours that could be reduced to help manage the evening ramp.

**Figure 4.4 – Multi-unit Dwelling Usage per Hour in September 2018, 3 sites/35 ports**



Growth in the number of participating sites and charging ports in the Charge Ready Program Pilot and corresponding electricity consumption has been fairly consistent in all segments. This growth represents significant environmental benefits and progress toward meeting the State of California’s GHG reduction goals. The month of September 2018 showed a slight decrease in overall kWh consumption as a result of lower usage at the Workplace and Fleet segments. This is most likely a result of fewer weekdays during the month of September compared to August.

Figure 4.5 – Workplaces Usage by Month

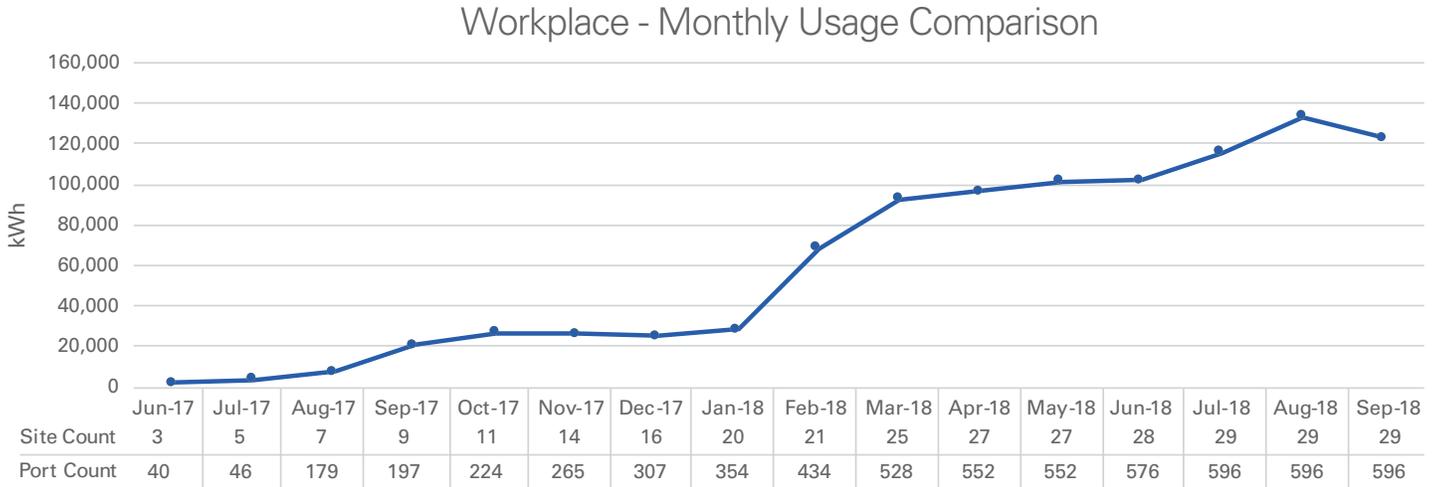
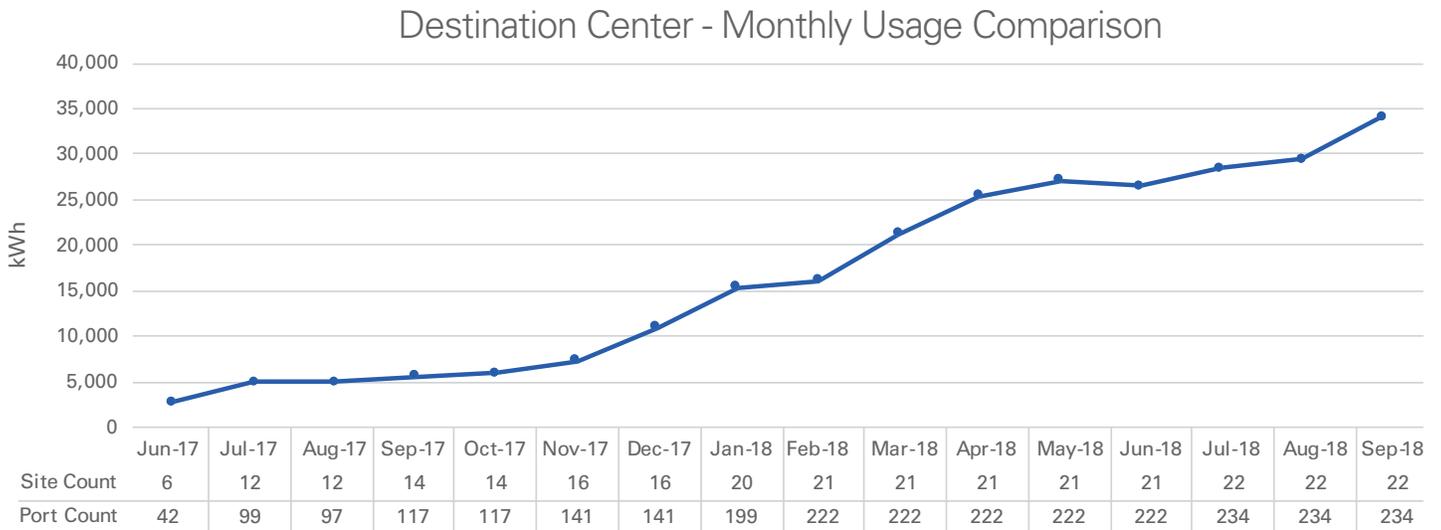


Figure 4.6 – Destination Centers Usage by Month<sup>18</sup>



<sup>18</sup> One site excluded in August 2017 due to data issues.

Figure 4.7 – Fleets Usage by Month

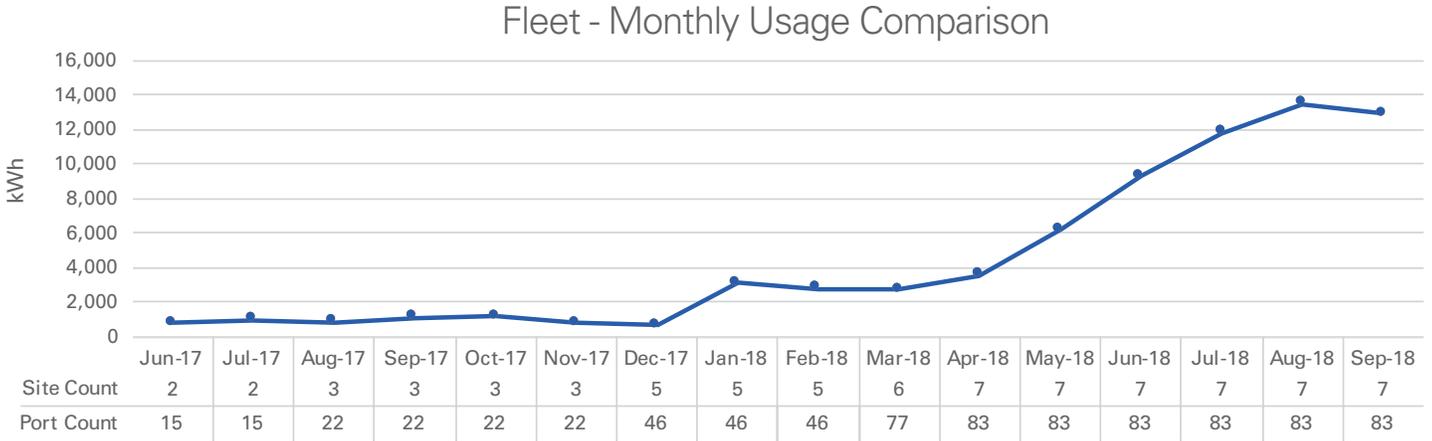
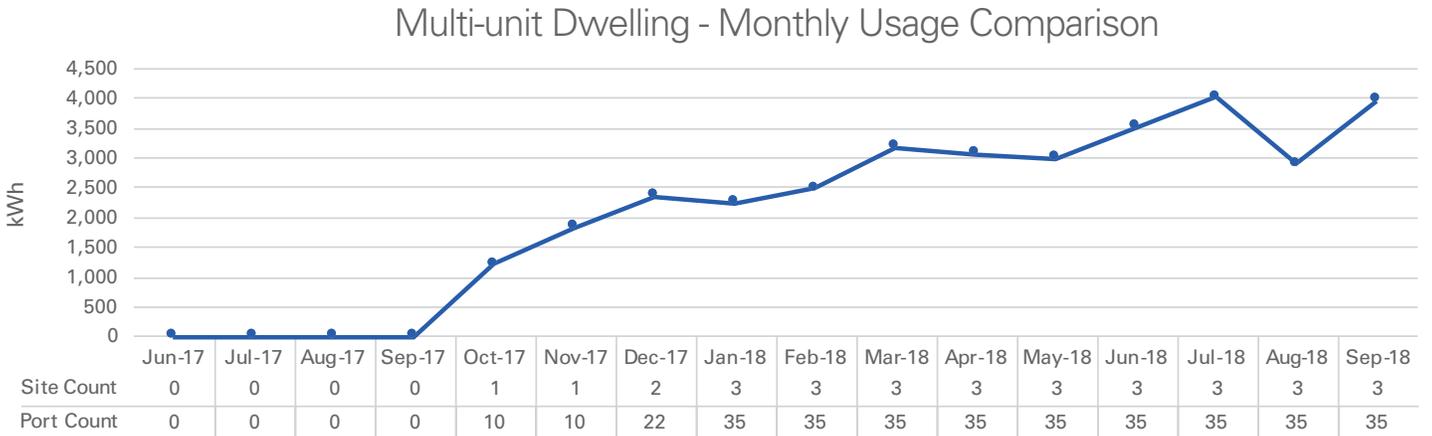


Figure 4.8 – Multi-unit Dwellings Usage by Month



## 5 Customer Outreach and Market Education

### 5.1 Charge Ready Education & Outreach

Charge Ready education and outreach efforts are designed to promote the Pilot to SCE customers. SCE continued to track marketing channels in preparation for a subsequent phase of the Pilot.

Table 5.1 presents the data collected for the Charge Ready Program Pilot Landing Page to measure the traffic of the website from Q1 2017 to Q3 2018. A decrease in website activity was expected since marketing and outreach for new applicants ceased on January 3, 2017.

### 5.2 Market Education

Separately from its education and outreach efforts to support enrollment in the Charge Ready Program Pilot, SCE also communicates about EVs and the benefits of fueling from the grid to a broad audience through its “What’s Your Electric Vehicle (EV) IQ?” campaign. Through the EV IQ messaging, SCE aims to intrigue and engage customers by challenging them with fun mini-quizzes to overcome barriers and misconceptions about EVs, and provides an opportunity to inform them of EV benefits that could prompt them to consider driving one. The campaign utilizes a number of channels, including:

- Paid Media: digital banners, search engine marketing (SEM), sponsored social media ads, and radio.
- Local Sponsorship: booth sponsorship and ride-and-drives at EV-related events.
- Direct Messaging: email to targeted customer populations.
- Other channels: bill inserts, messaging on SCE.com, and organic social media.

Customers exposed to these channels are driven to relevant information on the updated SCE.com EV website, which includes content in English, Spanish, Korean, Chinese, and Vietnamese. Customer site interactions were tracked to improve and optimize the experience.

**Table 5.1 – Charge Ready Program Pilot Landing Page Metrics**

| Metric               | Q1<br>2017 | Q2<br>2017 | Q3<br>2017 | Q4<br>2017 | Q1<br>2018 | Q2<br>2018 | Q3<br>2018 |
|----------------------|------------|------------|------------|------------|------------|------------|------------|
| Unique Visitor Count | 939        | 935        | 910        | 835        | 1,300      | 1,878      | 2,573      |
| Repeat Visitor Count | 381        | 419        | 254        | 234        | 545        | 793        | 602        |
| Page Views           | 1,477      | 1,479      | 1,444      | 1,317      | 2,045      | 3,408      | 3,106      |
| Bounce Rate          | 51.01%     | 51.85%     | 47.86%     | 50.59%     | 57.81%     | 63.92%     | 64.32%     |

The following table includes metrics capturing traffic for key campaign pages within the site. Web traffic decreased as expected as there was no mass media in market during Q3 2018.

**Table 5.2 – Charge Ready EV Awareness Website Metrics**

| EV Awareness  | Q3 2017 | Q4 2017 | Q1 2018 | Q2 2018 | Q3 2018 |
|---|---------|---------|---------|---------|---------|
| <b>Electric Vehicle Overview Page on SCE.com<sup>19</sup></b>         |         |         |         |         |         |
| Unique Visitor Count  | 9,138   | 7,986   | 14,102  | 7,484   | 8,152   |
| Repeat Visitor Count  | 3,407   | 2,851   | 10,388  | 3,390   | 3,608   |
| Page Views  | 13,029  | 11,526  | 3,714   | 11,466  | 11,097  |
| Bounce Rate <sup>20</sup>   | 39.52%  | 41.46%  | 635     | 25.87%  | 24.41%  |
| Multi-page Visits   | 7,773   | 6,674   | 8,334   | 7,786   | 8,481   |
| <b>Electric Vehicle Campaign Landing Page on SCE.com<sup>21</sup></b> |         |         |         |         |         |
| Unique Visitor Count  | 9,175   | 8,518   | 354     | 334     | 237     |
| Repeat Visitor Count  | 653     | 743     | 184     | 180     | 101     |
| Page Views  | 11,931  | 10,944  | 487     | 487     | 338     |
| Bounce Rate   | 86.95%  | 87.08%  | 20%     | 13.54%  | 14.89%  |
| Multi-page Visits   | 1,378   | 1,277   | 341     | 344     | 245     |

For SCE’s Market Education efforts, customer awareness of electric vehicle benefits and messaging are tracked using SCE’s Customer Attitude Tracking (CAT) survey. The CAT survey is a quarterly tool designed to assess and track attitudes, brand

favorability, and awareness of relevant marketing messages among SCE customers. This telephone survey is conducted with 450 randomly-selected SCE households and 250 small businesses by an independent marketing research firm. Customers are asked to recall and rate messaging around the benefits of electric vehicles when preparing to buy or lease an electric vehicle, as well as SCE’s role in supporting and advancing electric transportation. Since the campaign fully launched in late August 2016, the data collected from the 2016 Q1, Q2, and Q3 CAT surveys was used to establish a baseline around message recall.

Table 5.3 below summarizes the CAT survey baseline data. Respondents were asked, “In the past three months, do you recall seeing, hearing, or reading about any ads about SCE and the benefits of electric vehicles?”

**Table 5.3 – CAT Survey Results**

| Response          | Baseline<br>(Q1-Q3 2016) | Q2<br>2017 | Q3<br>2017 <sup>22</sup> | Q4<br>2017 | Q1<br>2018 | Q2<br>2018 | Q3<br>2018 |
|-------------------|--------------------------|------------|--------------------------|------------|------------|------------|------------|
| Total Respondents | 1,354                    | 450        | 600                      | 600        | 600        | 600        | 450        |
| Yes               | 189<br>14%               | 54<br>12%  | 92<br>15%                | 92<br>15%  | 132<br>22% | 99<br>17%  | 82<br>18%  |
| No                | 1,147<br>85%             | 378<br>84% | 489<br>82%               | 476<br>79% | 441<br>74% | 480<br>80% | 353<br>78% |
| No Response       | 18<br>1%                 | 18<br>4%   | 19<br>3%                 | 32<br>5%   | 27<br>5%   | 21<br>4%   | 15<br>3%   |

<sup>19</sup> <https://www.sce.com/wps/portal/home/residential/electric-cars/>

This page provides an overview of the EV-related content for residential customers on the website, and includes links to pilots (Submeter, Charge Ready) and EV content for businesses. Customers can navigate to this site without a vanity URL.

<sup>20</sup> Bounce rate is the percentage of single-page visits.

<sup>21</sup> <https://www.sce.com/wps/portal/home/residential/electric-cars/EV-Assessment-Campaign-Page/>

This page was visible only by clicking through on digital and social media ads, or by using a vanity URL provided in radio ads.

<sup>22</sup> Sample size increased in Q3 2017 to allow for additional testing related to other corporate campaigns.

### 5.3 Transportation Electrification Advisory Services

SCE created TE Advisory Services (TEAS) to provide business customers with a dedicated “one-stop shop” for specialized education, awareness, and support on such issues as federal, state, and local incentives, vehicle and charging equipment financing opportunities, vehicle types, and charging installation programs.

#### TE Advisory Services includes:

Updated web content on SCE.com’s business section, which includes information on:

- Vehicle types
- Charging infrastructure
- SCE’s EV rates
- Information specific to MUDs, Fleets, Workplaces, and Public sites
- Links to additional tools, resources, and fact sheets
- Calls to action to reach out to SCE for more information and support (Account Manager or 800#)

#### Self-service online tools to assist customers:

- The Charge Port Estimator, which estimates the number of charge ports customers may need at their sites
- A Rate Analysis Tool, based on customers’ numbers of estimated charge ports and segment types
- A self-administered customer EV survey for workplaces and MUDs
- A Low Carbon Fuel Source Calculator was added to the Fleet Assessment Report to help customers identify the estimated credit value per kW used

#### Fact Sheets: Customer-facing PDFs covering the following TE topics, including links to additional resources:

- Transportation Electrification Overview
- Fleet Conversion
- MUDs
- Vehicle to Grid Integration
- Planning for Charging Infrastructure
- Understanding GHG Emissions from Transportation
- Overview of Fleet Segments and available EV alternatives

In addition to the above, TEAS completed in-person services for approximately 65 business customers in 2018. Services included the following:

- An initial fleet assessment (including GHG savings calculations) to help customers evaluate business cases for converting fleets of vehicles to TE technology
- Infrastructure Assessments to assist customers in evaluating a potential deployment of charging equipment

Customers selected were those who had shown a commitment to sustainability, potential for a larger scale conversion/deployment, and had participated in multiple discussions with their Account Managers to confirm their interest in TE. A combination of government entities and commercial businesses were selected to include a representative mix of customers. SCE is tracking web traffic and has established the following baselines presented in the table below to compare against as more outreach is conducted.

**Table 5.4 – TEAS Web Traffic**

| Metric               | Q4 2017 Baseline |        |       |     | Q1 2018    |        |       |     | Q2 2018    |        |       |     | Q3 2018    |        |       |     |
|----------------------|------------------|--------|-------|-----|------------|--------|-------|-----|------------|--------|-------|-----|------------|--------|-------|-----|
|                      | Work-place       | Public | Fleet | MUD | Work-place | Public | Fleet | MUD | Work-place | Public | Fleet | MUD | Work-place | Public | Fleet | MUD |
| Unique Visitor Count | 292              | 121    | 138   | 69  | 360        | 174    | 139   | 105 | 434        | 188    | 193   | 146 | 403        | 190    | 206   | 129 |
| Page Views           | 507              | 188    | 281   | 162 | 587        | 236    | 220   | 143 | 683        | 263    | 310   | 206 | 675        | 270    | 360   | 203 |
| Multi-page           | 346              | 143    | 165   | 111 | 388        | 167    | 141   | 112 | 443        | 167    | 194   | 129 | 425        | 149    | 219   | 136 |

## 5.4 Outreach Events

SCE participated in five events in Q3 2018. SCE employees who attended the events provided an estimated number of customer interactions. The table below shows the events for Q3 2018.

**Table 5.5 – Outreach Events**

| Event Date            | Event Name   | Location   | Estimated Customer Interactions |
|-----------------------|--|--|---------------------------------|
| August 21, 2018       | Association of Energy Services Professionals Summer Conference | Indianapolis, Ind.   | 40                              |
| September 8, 2018     | National Drive Electric Week, Los Angeles                      | LADWP<br>111 N. Hope St.<br>Los Angeles, CA                | 180                             |
| September 8, 2018     | National Drive Electric Week, Carson                           | Carson Civic Center<br>801 E. Carson St.<br>Carson, CA     | 250                             |
| September 12-13, 2018 | Santa Monica Alt Car Expo                                      | Santa Monica<br>Civic Auditorium                           | 430                             |
| September 26, 2018    | 2018 Women's Forum   | Diamond Bar Center<br>1600 Grand Avenue<br>Diamond Bar, CA | 204                             |

## 6 Conclusion

### 6.1 Conclusion

In this quarterly report, SCE provided data and updates on progress in implementing and executing the Pilot. Projects with executed agreements continued forward through the construction and installation process. By the end of the third quarter of 2018, SCE had completed infrastructure at 69 sites that support 1,042 charge ports. SCE had started construction at two sites with 21 charge ports. Lastly, eight sites for 217 charge ports were gathering Pre-Construction Requirements, such as permits and easements. SCE will also continue to learn from the energy usage of the charging stations deployed under the Charge Ready Program Pilot.



## Appendix

### Pilot Participants

#### Summary by Market Segment in Disadvantaged Communities with Reserved Funding

| Segment             | Number of Ports | Number of Sites |
|---------------------|-----------------|-----------------|
| Destination Center  | 80              | 12              |
| Workplace           | 497             | 29              |
| Fleet               | 28              | 4               |
| Multi-unit Dwelling | 12              | 1               |
| <b>Grand Total</b>  | <b>617</b>      | <b>46</b>       |

#### Summary by Market Segment in Non-Disadvantaged Communities with Reserved Funding

| Segment             | Number of Ports | Number of Sites |
|---------------------|-----------------|-----------------|
| Destination Center  | 203             | 12              |
| Workplace           | 347             | 15              |
| Fleet               | 90              | 4               |
| Multi-unit Dwelling | 23              | 2               |
| <b>Grand Total</b>  | <b>663</b>      | <b>33</b>       |

#### Average Number of Total Parking Spaces per Site<sup>23</sup>

| Customer Participant Request | Filing Assumptions | Inception-to-Date Actual |
|------------------------------|--------------------|--------------------------|
|                              | N/A                | 633 parking spaces/site  |
| Disadvantaged Communities    | N/A                | 437 parking spaces/site  |
| Destination Centers          | N/A                | 882 parking spaces/site  |
| Workplaces                   | N/A                | 569 parking spaces/site  |
| Fleet                        | N/A                | 353 parking spaces/site  |
| Multi-unit Dwellings         | N/A                | 591 parking spaces/site  |

<sup>23</sup> Per customer application.

**Percentage of Total Number of Parking Spaces Located in Parking Structures<sup>22</sup>**

| Customer Participant Request | Filing Assumptions | Inception-to-Date Actual |
|------------------------------|--------------------|--------------------------|
|                              | N/A                | 19%                      |
| Disadvantaged Communities    | N/A                | 10,272                   |
| Destination Centers          | N/A                | 11,764                   |
| Workplaces                   | N/A                | 37,009                   |
| Fleet                        | N/A                | 2,382                    |
| Multi-unit Dwellings         | N/A                | 3,967                    |

| Customer Participant Request  | Filing Assumptions | Inception-to-Date Actual                   |
|---|--------------------|--|
| Average fleet size <sup>24</sup>  | N/A                | 7 (Fleet Segment Only)<br>4 (All Segments) |
| Percentage of applications received with charging systems already installed at the site | N/A                | 19%  |
| Average number of charging systems already installed at the site                        | N/A                | 9  |

**Average Number of Charge Ports Requested per Site<sup>23</sup>**

| Customer Participant Request | Filing Assumptions | Inception-to-Date Actual |
|------------------------------|--------------------|--------------------------|
|                              | 26                 | 13.6                     |
| Disadvantaged Communities    | N/A                | 11.2                     |
| Destination Centers          | N/A                | 12.7                     |
| Workplaces                   | N/A                | 12.1                     |
| Fleet                        | N/A                | 14.7                     |
| Multi-unit Dwellings         | N/A                | 32.3                     |

<sup>24</sup> Applicants from all segment categories may indicate the number of fleet vehicles at their site (All Segments). Applicants in the fleet category intend to use the new charging station for their EV fleet (Fleet Segment Only).

**Charging Station Request & Rebate**

| Charging Station Request & Rebate   |      |
|---|------|
| Average Number of Level 1 charge ports approved per site                        | 12   |
| Average Number of Level 2 charge ports approved per site                        | 16.3 |
| Average Number of total charge ports approved per site                          | 16.2 |
| Number of Level 1 EVSE stations bought  | 12   |
| Average number of ports per Level 1 EVSE  | 1.0  |
| Number of Level 2A EVSE stations bought   | 187  |
| Average number of ports per Level 2A EVSE                                       | 1.7  |
| Number of Level 2B EVSE stations bought   | 539  |
| Average number of ports per Level 2B EVSE                                       | 1.5  |
| Number of Level 1 EVSE stations installed with completed infrastructure         | 12   |
| Number of Level 2A EVSE stations installed with completed infrastructure        | 184  |
| Number of Level 2B EVSE stations installed with completed infrastructure        | 495  |
| Number of Level 1 EVSE stations installed with completed customer-installation  | 12   |
| Number of Level 2A EVSE stations installed with completed customer-installation | 178  |
| Number of Level 2B EVSE stations installed with completed customer-installation | 408  |