Decision 17-04-017  April 6, 2017

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking Regarding Policies, Procedures and Rules for the California Solar Initiative, the Self-Generation Incentive Program and Other Distributed Generation Issues.  

Rulemaking 12-11-005  (Filed November 8, 2012)

DECISION REVISING THE SELF-GENERATION INCENTIVE PROGRAM PURSUANT TO ASSEMBLY BILL 1637 AND GRANTING THE PETITION FOR MODIFICATION OF DECISION 16-06-055 BY THE CALIFORNIA SOLAR ENERGY INDUSTRY ASSOCIATION
## Table of Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DECISION REVISING THE SELF-GENERATION INCENTIVE PROGRAM PURSUANT TO ASSEMBLY BILL 1637 AND GRANTING THE PETITION FOR MODIFICATION OF DECISION 16-06-055 BY THE CALIFORNIA SOLAR ENERGY INDUSTRY ASSOCIATION</td>
<td>1</td>
</tr>
<tr>
<td>Summary</td>
<td>2</td>
</tr>
<tr>
<td>1. Background</td>
<td>5</td>
</tr>
<tr>
<td>1.1. Legislative and Procedural History</td>
<td>5</td>
</tr>
<tr>
<td>1.2. Assigned Commissioner’s Ruling</td>
<td>6</td>
</tr>
<tr>
<td>1.3. Petition for Modification of D.16-06-055</td>
<td>6</td>
</tr>
<tr>
<td>2. Discussion</td>
<td>7</td>
</tr>
<tr>
<td>2.1. SGIP Program Changes to Implement AB 1637</td>
<td>8</td>
</tr>
<tr>
<td>2.1.1. Increasing the SGIP Budget</td>
<td>8</td>
</tr>
<tr>
<td>2.1.2. Annual Collections from Utility Customers</td>
<td>9</td>
</tr>
<tr>
<td>2.1.3. Distribution of AB 1637 Funding Among Technology Incentive Budget Categories</td>
<td>10</td>
</tr>
<tr>
<td>2.1.4. Distribution of AB 1637 Funding Across Incentive Stops</td>
<td>16</td>
</tr>
<tr>
<td>2.1.5. Consideration of SGIP Program Changes and Other Proposals</td>
<td>20</td>
</tr>
<tr>
<td>2.1.6. Intent to Reserve Budget for Projects Located in Disadvantaged Communities</td>
<td>22</td>
</tr>
<tr>
<td>2.2. CalSEIA Petition for Modification of D.16-06-055</td>
<td>23</td>
</tr>
<tr>
<td>3. Comments on Proposed Decision</td>
<td>27</td>
</tr>
<tr>
<td>4. Assignment of Proceeding</td>
<td>28</td>
</tr>
<tr>
<td>Findings of Fact</td>
<td>28</td>
</tr>
<tr>
<td>Conclusions of Law</td>
<td>30</td>
</tr>
<tr>
<td>ORDER</td>
<td>31</td>
</tr>
</tbody>
</table>
DEcision revising the self-generation incentive program pursuant to Assembly Bill 1637 and granting the petition for modification of decision 16-06-055 by the California solar energy industry association

Summary

This decision increases the budget for California’s Self-Generation Incentive Program (SGIP) consistent with the authorization established by Assembly Bill (AB) 1637 (Low, 2016). This decision also grants the November 18, 2016 Petition for Modification of Decision (D.) 16-06-055 filed by the California Solar Energy Industry Association. No other changes are made to the program. The proceeding remains open.

This decision revises SGIP as following:


- Allocates the additional funding authorized by AB 1637 to the energy storage incentive budget category and the generation category incentive budget as follows:
  - 85% of the AB 1637 funds are available for the energy storage category, of which 90% are allocated for projects greater than 10 kilowatts in size, and 10% are allocated to the existing carve-out for residential energy storage projects less than or equal to 10 kilowatts in size.
  - 15% of the AB 1637 funds are available for renewable generation projects within the generation category, as defined in D.16-06-055.

- The AB 1637 funds allocated to the energy storage category are apportioned to the incentive steps as follows: Step 1 (0%), Step 2 (34%), Step 3 (33%), Step 4 (33%), and Step 5 (0%).
The AB 1637 funds allocated to renewable projects in the generation category are apportioned to the incentive steps as follows: Step 1 (34%), Step 2 (33%), and Step 3 (33%).

Revises incentive amounts in Steps 2 through 5 for all projects in the energy storage category that receive the federal Investment Tax Credit (ITC) so that the Step 1 percentage differential between projects with and without the ITC is maintained in Steps 2 through 5.

Additionally, we express our intent to have a portion of the AB 1637 funds reserved for projects located in disadvantaged communities throughout California. The details of this policy will be developed through this proceeding without delaying the planned opening of SGIP on May 1, 2017.

Table 1: Total AB 1637 Funds and Allocation

<table>
<thead>
<tr>
<th>Authorized AB 1637 Incentive Funds</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(reflects doubling of 2008 collection amount of $83 million for each year 2017-2019)</td>
<td></td>
</tr>
<tr>
<td>Total AB 1637 Collections</td>
<td>$249,000,000</td>
</tr>
<tr>
<td>Energy Storage Incentive Allocation (85%)</td>
<td>$196,834,500</td>
</tr>
<tr>
<td>Renewable Generation Incentive Allocation (15%)</td>
<td>$34,735,500</td>
</tr>
<tr>
<td>Program Administration</td>
<td>$17,430,000</td>
</tr>
</tbody>
</table>
Table 2: Increase to Incentive Budget for Energy Storage and Renewable Generation Technologies

<table>
<thead>
<tr>
<th>Incentive Category</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
<th>Step 4</th>
<th>Step 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Storage &gt; 10kW (pre-AB 1637)</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
</tr>
<tr>
<td>Energy Storage &gt; 10kW (AB 1637 funds)</td>
<td>$0</td>
<td>$60,231,357</td>
<td>$58,459,847</td>
<td>$58,459,847</td>
<td>$0</td>
</tr>
<tr>
<td>Total Funds for Energy Storage &gt; 10kW</td>
<td>$34,446,038</td>
<td>$94,677,395</td>
<td>$92,905,884</td>
<td>$92,905,884</td>
<td>$34,446,038</td>
</tr>
<tr>
<td>Residential Energy Storage &lt;= 10kW (pre-AB 1637)</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
</tr>
<tr>
<td>Residential Energy Storage &lt;= 10kW (AB 1637 funds)</td>
<td>$0</td>
<td>$6,692,373</td>
<td>$6,495,539</td>
<td>$6,495,539</td>
<td>$0</td>
</tr>
<tr>
<td>Total Funds for Residential Energy Storage &lt;= 10kW</td>
<td>$6,078,713</td>
<td>$12,771,086</td>
<td>$12,574,251</td>
<td>$12,574,251</td>
<td>$6,078,713</td>
</tr>
<tr>
<td>Renewable Generation (pre-AB 1637)</td>
<td>$9,005,500</td>
<td>$9,005,500</td>
<td>$9,005,500</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Renewable Generation (AB 1637 funds)</td>
<td>$11,810,070</td>
<td>$11,462,715</td>
<td>$11,462,715</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Total Funds for Renewable Generation</td>
<td>$20,815,570</td>
<td>$20,468,215</td>
<td>$20,468,215</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
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1 Totals may not sum precisely due to rounding.
1. **Background**

1.1. **Legislative and Procedural History**

California’s Self-Generation Incentive Program (SGIP) was established in 2001 by the Commission in Decision (D.) 01-03-073 in response to Assembly Bill (AB) 970 (Ducheny, Stats. 2000, Ch. 329). AB 970 directed the Commission to provide incentives for distributed generation resources to reduce peak energy demand. Since 2001, the Legislature has refined and extended SGIP several times. During 2014 and 2015, the Commission acted to extend SGIP funding through 2019 and updated program eligibility criteria related to greenhouse gas (GHG) emissions, pursuant to SB 861 (Committee on Budget and Fiscal Review, 2014). In 2016, the Commission adopted D.16-06-055, which made significant programmatic changes for how SGIP incentive dollars are awarded and other program refinements. On September 26, 2016, Governor Brown signed the piece of legislation we address today, AB 1637 (Low, 2016), which gives the Commission the authority to increase collections for SGIP and extends the net energy metering tariff for electric fuel cell systems.

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2 Notably, AB 1685 (Leno, 2003), AB 2778 (Lieber, 2006) and Senate Bill (SB) 412 (Kehoe, 2009), which collectively shifted SGIP’s focus from peak demand reduction towards reducing criteria pollutants and greenhouse gas emissions.

3 The decisions implementing these changes are D.14-11-001 and D.15-11-027.

4 AB 1637 is codified in Pub. Util. Code §§ 379.6(a)(2) and 2827.10(c).
1.2. Assigned Commissioner’s Ruling

On December 30, 2016, the assigned Commissioner issued a ruling seeking party comment on a set of questions and proposals related to the implementation of AB 1637.5

The Assigned Commissioner’s Ruling (ACR) sought input from parties on whether the Commission should fully exercise the authority granted by AB 1637 to double collections from utility customers for SGIP incentives, or if some lesser amount was warranted. AB 1637 is silent on how the additional funds, if collected, should be allocated across the various resource and technology categories, as well as, the incentive steps established by D.16-06-055. On these issues, the ACR asked parties to comment on specific proposals.

Numerous parties to this proceeding filed comments to the ACR on January 31, 2017.6 We address these comments in detail below.

1.3. Petition for Modification of D.16-06-055

On November 18, 2016, the CalSEIA filed a petition for modification of D.16-06-055 (Petition). In its Petition, CalSEIA seeks modification to the incentive calculation for energy storage systems that are supported by the federal


6 Parties that filed comments include the following: Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE), and San Diego Gas & Electric Company (SDG&E) filed jointly (Joint IOUs); Office of Ratepayer Advocates (ORA); California Solar Industries Association (CalSEIA); National Fuel Cell Research Center (NFCRC); California Energy Storage Alliance (CESA); Robert Bosch LLC (Robert Bosch); Sunrun, Inc. (Sunrun); Southern California Gas Company (SoCalGas); California Clean DG Coalition (CCDC); SolarCity and Tesla as Joint Parties (SolarCity/Tesla); Silicon Valley Leadership Group (SVLG); FuelCell Energy, Inc. (FCE); Advanced Microgrid Solutions (AMS), Green Charge Networks, LLC (Green Charge) and Custom Power Solar.
Investment Tax Credit (ITC). Responses to the Petition were filed on December 15, 2016 by the Center for Sustainable Energy (CSE) and on December 19, 2016 by SolarCity, CESA, ORA, and jointly by PG&E and SCE. We also address this Petition below.

2. Discussion

Today’s decision adopts changes to SGIP in response to the authority granted to the Commission in AB 1637 regarding funding. This decision also adopts changes to SGIP that result from our granting of CalSEIA’s November 18, 2016 petition for modification of D.16-06-055.

In D.16-06-055, less than one year ago, the Commission made significant changes to SGIP to implement legislation and align funding with program goals. The changes adopted in D.16-06-055 can be described broadly as follows: (1) enhanced environmental benefits, through reduced GHG reductions, criteria air pollutants and water usage, (2) grid support, and (3) market transformation for distributed resources.\(^7\) SGIP applications for energy storage have been suspended since before new program rules established by D.16-06-055 went into effect, so we lack recent robust information about how SGIP-funded systems are responding to the program and their impacts on the electric grid.\(^8\) For these reasons, we find it most prudent to refrain from making changes to SGIP beyond what is expressly authorized in AB 1637.

\(^7\) See Decision Revising The Self-Generation Incentive Program Pursuant to Senate Bill 861, Assembly Bill 1478, And Implementing Other Changes (D.16-06-055).

\(^8\) The planned reopening of SGIP to energy storage applicants is due to occur on May 1, 2017. The portal will be opened to prepare draft applications on April 10, 2017. Information about SGIP is available on the Commission’s website here (accessed on March 27, 2017): [http://www.cpuc.ca.gov/General.aspx?id=5935. The statewide SGIP website is: https://www.selfgenca.com/](https://www.selfgenca.com/).
2.1. **SGIP Program Changes to Implement AB 1637**

On December 30, 2016, the assigned Commissioner issued a ruling in response to the passage of AB 1637 and sought party comment on: (1) the overall level of funding of SGIP, (2) distribution of potential new funding among technology sectors, (3) distribution of any new funding across incentive steps, and 4) consideration of developer cap and other SGIP rules. This decision adopts changes related to the first three enumerated topics.

2.1.1. **Increasing the SGIP Budget**

AB 1637 amended Public Utilities (Pub. Util.) Code Section 379.6(a)(2) such that, “The commission, in consultation with the Energy Commission, may authorize the annual collection of not more than double the amount authorized for the self-generation incentive program in the 2008 calendar year, through December 31, 2019.” (Emphasis added.)

In comments, a majority of parties including all the energy storage parties, SoCalGas, and ORA supported doubling collections in years 2017-2019, the maximum amount allowed pursuant to Pub. Util. Code § 379.6(a)(2).⁹

Parties representing companies that manufacture or supply SGIP-eligible technologies assert that legislative intent points strongly towards authorizing the maximum increase.

Robert Bosch argues that strong market demand warrants the maximum increase in SGIP funding, stating, that: “based on applicant participation in the SGIP the past couple of years, specifically for energy storage incentives, there has proven to be more than enough customer demand to warrant an increase in SGIP

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⁹ A total of 12 out of 18 commenting parties support this approach.
funding. As the Commission is aware, demand for SGIP incentives has far outstripped available funds in the past several program openings.”

SoCalGas and ORA also support the maximum increase in SGIP funds but with conditions for how the additional funds would be allocated. We discuss their proposals below.

The Joint IOUs oppose the full doubling of annual collections for SGIP and, instead, favor a 50% increase of the amount collected in the 2008 calendar year, with the additional funds made available only after the existing incentive steps have been fully subscribed and certain other conditions are met. CCDC does not support increasing SGIP funding at any level at this time, primarily due to uncertainty regarding the net GHG impacts of energy storage systems.

As we affirmed recently in D.16-06-055, the Commission continues to see value in SGIP and expects this value to continue through 2019. Therefore, based on the broad support from parties and the customer demand for distributed resources participating in SGIP, we find that adopting the maximum increase in SGIP funding authorized by AB 1637 is reasonable and additional collections should begin for calendar year 2017.

Accordingly, PG&E, SCE, SDG&E and SoCalGas, shall collect from customers the maximum amount authorized by Pub. Util. Code § 379.6(a)(2) and required by this decision for years 2017, 2018, and 2019.

2.1.2. Annual Collections from Utility Customers

In D.14-12-033, the Commission extended SGIP funding through 2019 and addressed the manner in which the IOUs collect SGIP funds from their

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10 Comments of Robert Bosch LLC on Implementation of AB 1637 at 2.
customers. Importantly, D.14-12-033 continued the methodology used to derive the annual SGIP collections among PG&E, SCE, SDG&E, and SoCalGas based on the proportionate share of energy efficiency funding adopted by the Commission in D.06-12-033 and D.06-01-024. We find no need to change the existing process, which has been in place for several years; however, the total amount collected will increase as a result of today’s decision.¹¹

Accordingly, PG&E, SCE, SoCalGas and SDG&E shall collect on an annual basis, through 2019, double the amount collected for SGIP in the 2008 calendar year based on the proportionate share methodology adopted in D.06-12-033 and D.06-01-024. That is, $166 million annually, an increase of $83 million above the amount authorized to be collected on an annual basis in D.14-12-033. The SGIP Program Administrators¹² shall file a Tier 2 advice letter within 10 days of the effective date of this decision to reflect this budget increase and any other changes needed to the SGIP handbook as a result of this decision.

2.1.3. Distribution of AB 1637 Funding Among Technology Incentive Budget Categories

The ACR asked parties to comment on whether the potential new funding should be distributed across the two incentive budget categories for energy storage technologies and generation technologies using the 75% energy storage/25% generation methodology adopted in D.16-06-055. The ACR also

¹¹ Administrative expenses shall be limited to no more than 10% of each IOU’s SGIP budget, as set forth in D.04-12-045 and affirmed in D.08-01-029. As a practical matter, the SGIP Administrators have proposed a 7% administrative budget for SGIP starting in 2017 in their advice letters implementing D.16-06-055 (see advice letters: SCE 3564-E; PG&E 3814-G/5029-E; SoCalGas 5074-G; CSE 76-E).

¹² The Program Administrators are PG&E, SCE, SoCalGas, and CSE on behalf of SDG&E.
asked if the budget for the residential carve-out for energy storage and the renewable carve-out for generation adopted in D.16-06-055 should be increased through the new funding.\textsuperscript{13}

Parties’ comments reflect a broad range of views regarding how the AB 1637 funds should be used. Several parties support allocating the AB 1637 funds according to the 75% energy storage/25% generation split established in D.16-06-055.\textsuperscript{14} ORA asserts that the 75%/25% split should be retained, but that funds collected from gas ratepayers should be reserved for renewable and non-renewable natural gas projects, and for energy storage paired with a natural gas onsite generator.

SoCalGas and CCDC oppose additional funding of energy storage and request that any new funds be used to support non-renewable natural gas projects that meet SGIP eligibility criteria, notwithstanding the biogas blending requirement adopted in D.16-06-055.

The remaining commenting parties generally support the 75%/25% allocation between the energy storage and generation categories but each party also put forth an alternate approach with preferences for specific technology categories, sub-categories or carve-outs. For example, NFCRC recommends that a biogas adder be applied to all biogas used (including the minimum required). CESA advocates for up to 100% of new funding being allocated to energy

\textsuperscript{13} 15\% of the 75\% of SGIP incentive dollars allocated to energy storage projects are reserved for residential energy storage projects and 40\% of the 25\% of SGIP incentive dollars allocated to generation projects are reserved for renewable generation projects. (D.16-06-055 at Conclusion of Law 14.)

\textsuperscript{14} The Joint IOUs (only if new funding is authorized), SVLG, CalSEIA, SolarCity/Tesla, Sunrun, FCE and AMS support this position.
storage. Robert Bosch supports a higher allocation to energy storage if there is weak demand for SGIP incentives in the generation category. Custom Power Solar proposes that at least 25% of AB 1637 funding be reserved for energy storage projects paired with renewable systems in disadvantaged communities.

After considering all comments we determine that allocating the AB 1637 funds according to a 85%/15% split for the energy storage and renewable generation categories, respectively, best effectuates the SGIP goals of GHG reductions and market transformation that have been amplified by the Legislature in recent years.

Our rationale for this change to the budgetary structure of SGIP adopted in D.16-06-055 is as follows. In their comments, CESA indicated that an increase in the amount of SGIP budget allocated to energy storage projects was justified due to the fact the biogas blending rules of D.16-06-055 will practically exclude pure electric fuel cells from SGIP. In the absence of demand for SGIP incentives from such fuel cells, CESA estimates that energy storage would have accounted for 80% of SGIP incentives in 2015. Furthermore, CESA argued, that a forward-looking SGIP should account for the fact that demand from the energy storage sector will likely increase from 2015 levels, thus justifying an increased budget allocation.

Considering SGIP more broadly, as the proportion of renewable electricity on the grid increases, energy storage will play an increasingly important role in meeting California’s climate goals. Additional funding for the energy storage category can help facilitate market transformation similar to how the California Solar Initiative program played an important role in the deployment of solar photovoltaic systems throughout the state. Given the considerations above, we
find that 85% is a reasonable allocation of AB 1637 incentive funding to the energy storage incentive budget.

The remaining 15% of the AB 1637 incentive funding shall be reserved for renewable generation projects. Our analysis of the last several years of SGIP incentive funding requests and awards for renewable generation indicates that approximately $16 million per year of SGIP funding has been needed to meet current demand from these generation sources. We also note that the 2014-2015 SGIP Impact Evaluation found that non-renewable generation projects were increasing GHG emissions on a net basis while renewably fueled generation projects were reducing GHG emissions on a net basis. Maintaining at least enough funding for existing demand from GHG-reducing generation sources is important for SGIP to meet its goals to reduce GHG emissions on a net basis. For these reasons, we find that 15% is a reasonable amount of the AB 1637 incentive funding that should be reserved for renewable generation projects.

In order to maximize the impact of the newly authorized funds towards SGIP goals, we direct that the 85% of AB 1637 funds allocated to the energy storage category will be split 90%/10% between projects greater than 10 kW in size and residential projects less than or equal to 10 kW, respectively. Allocating 10% of AB 1637 funds to residential projects less than or equal to 10kW in size is generally consistent with D.16-06-055, wherein the Commission established the residential project “carve-out” to ensure that this market segment had the opportunity to participate in SGIP. In response to comments made on the

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15 Numerous parties in their comments on the proposed decision sought clarification regarding whether or not, and under what conditions, D.16-06-055 permitted residential storage projects to access the budget allocated to the larger non-residential storage projects. This may be less of a concern given our decision to allocate a portion of the AB 1637 funds to residential projects.

*Footnote continued on next page*
Proposed Decision by the CSE and SCE, we expressly authorize the SGIP Program Administrators, through a Tier 2 advice letter, to change the 10% allocation to residential projects less than or equal to 10kW before the opening of Steps 2, 3 or 4 if the SGIP Program Administrators find a modification is justified by the ratio of demand to budget for such projects exhibited in an earlier step relative to the ratio of demand to budget for projects greater than 10kW in size.\textsuperscript{16} Notwithstanding this, the SGIP Program Administrators retain their existing authority to modify the amount of pre-AB 1637 funding available to residential projects less than or equal to 10kW per D.16-06-055.\textsuperscript{17}

Furthermore, the funds allocated to the generation category will be available only for those projects that rely on renewable resources as determined by the Renewables Portfolio Standard (RPS) program and D.16-06-055.\textsuperscript{18}

Accordingly, the Program Administrators, PG&E, SCE, SoCalGas, and CSE on behalf of SDG&E, shall implement the incentive budget allocations specified

\textsuperscript{16} Comments of CSE at 3 (“allowing funding to move between budgets mid-program via the approval of an Advice Letter will build in enough flexibility to ‘course correct’ as necessary”); comments of SCE at 5 (“SCE proposes… provisions for the PAs to have the ability to move funding between the commercial and industrial and small residential customers to avoid certain funding buckets from becoming stagnant”).

\textsuperscript{17} D.16-06-055 at 25 (“we find that the SGIP Program Administrators may seek to amend the size of [the 15% residential carve out] by advice letter filing no earlier than one year from the ratification of this Decision”).

\textsuperscript{18} RPS eligibility is established in Pub. Util. Code § 399.12(e).
above, and any other changes needed to the SGIP handbook as a result of this decision by submitting a Tier 2 advice letter within 10 days of the effective date of this decision. In response to CSE’s comments to the Proposed Decision, we clarify that for the purpose of updating databases, websites and budget reports necessary to ensure the program reopens on schedule, the SGIP Program Administrators may proceed with the incentive allocations specified in this Decision before their Tier 2 advice letter implementing this Decision is formally approved by Energy Division.\(^{19}\)

**Table 3: Incentive Budget Allocation for Energy Storage and Renewable Generation Technologies**

<table>
<thead>
<tr>
<th>Authorized AB 1637 Incentive Funds (reflects doubling of 2008 collection amount of $83 million for three years, 2017-2019)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total AB 1637 Collections</strong></td>
<td>$249,000,000</td>
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<tr>
<td><strong>Energy Storage Incentive Allocation (85%)</strong></td>
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</tr>
<tr>
<td><strong>Program Administration(^{20})</strong></td>
<td>$17,430,000</td>
</tr>
</tbody>
</table>

\(^{19}\) CSE, March 27, 2017 Comments at 5 (“CSE requests that the final Decision clarify that the SGIP PAs are permitted to update the database, their websites, and budget reports inclusive of AB 1637 funding and revised incentive rates immediately after Commission approval of the Decision, i.e., the effective date of the Decision…”).

\(^{20}\) This amount reflects the assumption that program administration costs equal 7% of total incentive budget.
2.1.4. Distribution of AB 1637 Funding Across Incentive Stops

The ACR asked for comments on a proposal to distribute AB 1637 funding equally across the energy storage category Steps 2-5 (25% in each step), with no increased funding for Step 1, and equally across generation category Steps 1-3 for renewable projects only. The ACR then asked a series of questions related to the proposal.

In comments, a number of perspectives were offered regarding options for distributing the new funding across incentive steps. Most parties focus on the energy storage category. Sunrun and SVLG support the proposal put forth in the ACR.

- Energy Storage Category

Custom Power Solar, CalSEIA, NFCRC, CESA, SolarCity/Tesla, AMS all argue for equal distribution across all incentive steps, i.e., Steps 1-5 (20% in each step) for the energy storage category.

ORA suggests that energy storage system costs are close to the Steps 1 and 2 incentive levels, which leads ORA to recommend laddering the AB 1637 funds to later steps. ORA proposes distributing the funds allocated to energy storage in the following manner: Step 3 (20%), Step 4 (30%), and Step 5 (50%). ORA asserts that this approach maximizes the effectiveness and value of the ratepayer funded SGIP budget.

Similar to ORA, Robert Bosch suggests that the energy storage incentive Step 1 is sufficiently funded but recommends allocating larger portions of the AB 1637 budget to Steps 3 and 4 “to support market transformation when the incentives will have a positive impact on price reduction for energy storage.” Robert Bosch cautions against overfunding Step 5 when the lower incentive has
less of an impact on the consumer’s decision to invest in the system. To balance effective use of the AB 1637 funds, Robert Bosch recommends the following distribution: Step 2 (15%), Step 3 (30%), Step 4 (30%) and Step 5 (25%).

The Joint IOUs favored creating a new, final step for energy storage (Step 6) and for generation (Step 4). In support of their approach, the Joint IOUs assert that this would help extend the SGIP program and allow time for new rules to be developed and implemented related to how energy storage systems charge and discharge energy. SoCalGas opposes any disbursement of their pro-rated share to energy storage.

In summary, the comments on the ACR offer a wide range of options for how to distribute new funds across the incentive steps. Some proposals are driven by an interest to avoid funding projects when the incentive amount may represent a disproportionate share of a system’s total cost, which is a laudable objective. Some proposals are elegant in their simplicity. Distributing the funds equally to all incentive steps, or all in one step, is easy to implement and administer, which also has value. Allocating all the AB 1637 funds to the last and lowest incentive step could also be easily implemented but may not assist SGIP’s goal of market transformation.

Comments on the Proposed Decision show that parties continue to hold strong opinions for which incentive steps offer the greatest value and thus should receive the largest portion of AB 1637 funds. In general, energy storage proponents favor funding the earlier, higher-incentive steps, while utilities and ORA favor funding the later, lower-incentive steps.

After considering the perspectives of all parties, we find the proposal put forth in the ACR most compelling, with one modification. An approximately equal allocation of funds across incentive Steps 2-4 provides additional budget
for those projects that the vast majority of parties agree will help drive market transformation in customer adoption of energy storage resources. This approach takes an honest account of the challenges with an administratively determined incentive program for a dynamic market in which prices are decreasing, but stops short of making any drastic decisions based on the lack of certainty about what the future holds. In D.16-06-055, we allocated the budget equally across the five steps. Here, the allocation of additional funds made available by AB 1637 to the incentive steps most likely to incentivize customers to invest in energy storage systems can play a role in market transformation, and we find an approximately equal distribution across Steps 2 - 4 is the most reasonable means to achieve this goal.

- **Renewable Projects in the Generation Category**

Turning to the renewable generation category, none of the comments offer a compelling argument to adopt anything different than the approximately equal distribution proposed in the ACR.

Therefore, the AB 1637 funds allocated to the renewable generation category will be distributed in the following manner: Step 1 (34%), Step 2 (33%) and Step 3 (33%).

Accordingly, the Program Administrators, PG&E, SCE, SoCalGas, and CSE on behalf of SDG&E, shall implement the AB 1637 incentive funding distribution to incentive steps for the energy storage and renewable generation categories, as set forth above and make any other changes needed to the SGIP handbook as a result of this decision by submitting a Tier 2 advice letter within 10 days of the effective date of this decision.
### Table 4: Nominal Increase to Incentive Budget for Energy Storage and Renewables Generation Categories\(^{21}\)

<table>
<thead>
<tr>
<th>Incentive Category</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
<th>Step 4</th>
<th>Step 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Energy Storage</strong> &gt; 10kW (pre-AB 1637)</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
<td>$34,446,038</td>
</tr>
<tr>
<td><strong>Energy Storage</strong> &gt; 10kW (AB 1637 funds)</td>
<td>$0 (no increase)</td>
<td>$60,231,357</td>
<td>$58,459,847</td>
<td>$58,459,847</td>
<td>$0 (no increase)</td>
</tr>
<tr>
<td><strong>Total Funds for Energy Storage &gt; 10kW</strong></td>
<td>$34,446,038</td>
<td>$94,677,395</td>
<td>$92,905,884</td>
<td>$92,905,884</td>
<td>$34,446,038</td>
</tr>
<tr>
<td>Residential Energy Storage &lt;= 10kW (pre-AB 1637)</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
<td>$6,078,713</td>
</tr>
<tr>
<td><strong>Residential Energy Storage &lt;= 10kW (AB 1637 funds)</strong></td>
<td>$0 (no increase)</td>
<td>$6,692,373</td>
<td>$6,495,539</td>
<td>$6,495,539</td>
<td>$0 (no increase)</td>
</tr>
<tr>
<td><strong>Total Funds for Residential Energy Storage &lt;= 10kW</strong></td>
<td>$6,078,713</td>
<td>$12,771,086</td>
<td>$12,574,251</td>
<td>$12,574,251</td>
<td>$6,078,713</td>
</tr>
<tr>
<td><strong>Renewable Generation (pre-AB 1637)</strong></td>
<td>$9,005,500</td>
<td>$9,005,500</td>
<td>$9,005,500</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Renewable Generation (AB 1637 funds)</strong></td>
<td>$11,810,070</td>
<td>$11,462,715</td>
<td>$11,462,715</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total Funds for Renewable Generation</strong></td>
<td>$20,815,570</td>
<td>$20,468,215</td>
<td>$20,468,215</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

\(^{21}\) Totals may not sum precisely due to rounding.
• **Step 1 not used due to timing of AB 1637 implementation**

The ACR asked parties how to address the possibility a decision implementing AB 1637 is issued too late for any new incentive funds to be allocated to Step 1. In such an event, Custom Power Solar, CalSEIA suggest applying Step 1 funding to Step 2 and Step 3. CESA and AMS suggest applying Step 1 funding to Step 2. SolarCity/Tesla suggest disbursing Step 1 funds evenly between Steps 2 through 5.

We find that to promote administrative simplicity and fairness, in the event that a decision implementing AB 1637 is not approved by the Commission before the Step 1 incentive budget approved in D.16-06-055 for renewable generation projects is fully subscribed, the funds that would have been allocated to Step 1 will be equally allocated to Steps 2 and 3, such that 50% of the funds go towards Step 2 and 50% of the funds go towards Step 3.

This issue is moot for the energy storage category in light of our decision not to further fund Step 1.

Accordingly, the Program Administrators, PG&E, SCE, SoCalGas, and CSE, on behalf of SDG&E, shall implement this rule if a decision to implement AB 1637 is not issued before the Step 1 budget approved in D.16-06-055 for renewable generation projects is fully subscribed, and any other changes needed to the SGIP handbook as a result of this decision by submitting a Tier 2 advice letter due within 10 days of the effective date of this decision.

**2.1.5. Consideration of SGIP Program Changes and Other Proposals**

The ACR asked a number of questions related to changes to SGIP for parties to consider in relation to implementing AB 1637, including:

• whether any changes to the developer cap should be considered;
• whether changes to the lottery should be considered;
• whether residential energy storage systems subject to time-of-use rates should be prioritized;
• whether operational requirements should be imposed to address the concerns surrounding the net GHG emissions impact of energy storage systems and non-renewable generation identified in the recent SGIP evaluation report prepared by Itron.  

In addition, parties also came forward with their own proposals, including:

• FCE advocated for reserved funding for long-duration energy storage with discharge durations above 6 hours;
• The Joint IOUs recommended creating additional incentive steps;

While most parties suggest that it is premature to make changes to the program, some express interest in doing so now. Most notably, the Joint IOUs strongly urge the Commission to impose a range of operational conditions on energy storage systems in an effort to affect when these systems charge/discharge and to increase system efficiency. On this issue, ORA argues against imposing operational conditions for energy storage systems, and, instead, argues in favor of having the charge/discharge decisions driven by rate design.

NFCRC opposes the idea that changes would be made to SGIP too soon after the lengthy deliberation that led to D.16-06-055, and in the absence of data from the revised program that has not yet opened.

In deciding whether to make additional changes to SGIP now, we consider the potential benefits that may come from the changes raised in parties’ comments against the disruption to customers and market participants from making changes to the program that is scheduled to open within the next two months after being suspended for more than a year, and following so closely on the adoption of our recent comprehensive SGIP decision. We also differentiate between proposals advocating for a structural change to how the program established in D.16-06-055 will be administered, such as those referenced above, and proposals that are more narrowly focused on preferences for how the AB 1637 funds should be distributed, which we address in the next section.

From this perspective, we find that it is premature to make major programmatic changes at this time. We agree with CSE and others that these more significant changes proposed for the program established in D.16-06-055 should be made only after the Commission, Program Administrators, and program participants gain experience with the newly revised program to inform any potential changes to program eligibility or administrative rules. We appreciate the detailed comments from the parties, and we may return to these issues once there is sufficient information from the new program to evaluate the impacts of any changes. Notwithstanding this, and in response to comments by CESA and others, we direct the SGIP Program Administrators to modify the SGIP Handbook such that the 20% developer cap applies to the new funding levels allotted to each incentive step as determined by this decision.

### 2.1.6. Intent to Reserve Budget for Projects Located in Disadvantaged Communities

In response to the ACR, Custom Power Solar proposed that at least 25% of the AB 1637 funds should be reserved for storage projects paired with renewable
systems located in disadvantaged communities, as defined under other state programs. This proposal has considerable merit and is consistent with state policy.

Further record development; however, is needed to determine the specifics of how this policy should be implemented including the size of the budget reservation, and notably, how to best integrate the policy into the existing SGIP structure without adversely impacting program timelines. However, we herein express our intent to reserve a portion of the AB 1637 funds for projects located in disadvantaged communities.

2.2. CalSEIA Petition for Modification of D.16-06-055

CalSEIA’s November 18, 2016 petition for modification identifies a problem with the methodology adopted in D.16-06-055 in the way large scale energy storage incentives are calculated for projects benefitting from the federal ITC.

Some technologies qualify for the 30% federal ITC, while others do not. In D.16-06-055, the Commission accounted for this in the incentive rates due to the significant benefit the ITC has on the total cost of a system, 30% of the capital cost of the project. In D.16-06-055, the Commission adjusted the Step 1 incentive of $0.50/Watt-hour (Wh) for systems without the ITC to $0.36/Wh for systems that did receive the ITC, reasoning that CalSEIA’s proposed incentive level of $0.36/Wh for large systems was a substantiated level of incentive for larger systems taking advantage of the ITC. Then, having identified the “value” of the

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23 For example, SB 535 (De León, Chapter 830, 2012); AB 327 (Perea, Chapter 611, 2013); and SB 43 (Wolk, Chapter 413, 2013).
ITC at $0.14/Wh ($0.50/Wh minus $0.36/Wh), that value was then subtracted from Steps 2 through 5 to calculate the incentives for ITC projects at all steps.

The problem identified by CalSEIA in its Petition arises in Step 5 when the full incentive budget for the preceding steps are fully subscribed across all four Program Administrator’s service territories within ten calendar days and the incentive steps down from $0.05/Wh to $0.10/Wh at each step. Under this scenario, there would be no incentive in Step 5 for projects that qualify for the ITC.

24 See, D.16-06-055, Conclusion of Law 24.
Table 5: D.16-06-055 Incentive Structure for Non-Residential Energy Storage ($/Wh)

<table>
<thead>
<tr>
<th>Incentive Level</th>
<th>Slow Adoption</th>
<th>Fast Adoption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No ITC</td>
<td>With ITC</td>
</tr>
<tr>
<td></td>
<td>ITC Pct of Non-ITC</td>
<td></td>
</tr>
<tr>
<td>Step 1</td>
<td>0.50</td>
<td>0.36</td>
</tr>
<tr>
<td>Step 2</td>
<td>0.45</td>
<td>0.31</td>
</tr>
<tr>
<td>Step 3</td>
<td>0.40</td>
<td>0.26</td>
</tr>
<tr>
<td>Step 4</td>
<td>0.35</td>
<td>0.21</td>
</tr>
<tr>
<td>Step 5</td>
<td>0.30</td>
<td>0.16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incentive Level</th>
<th>Pct Decline in Incentive Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Step 1</td>
</tr>
<tr>
<td>Slow Adoption</td>
<td></td>
</tr>
<tr>
<td>No ITC</td>
<td>n/a</td>
</tr>
<tr>
<td>With ITC</td>
<td>n/a</td>
</tr>
<tr>
<td>Fast Adoption</td>
<td></td>
</tr>
<tr>
<td>No ITC</td>
<td>n/a</td>
</tr>
<tr>
<td>With ITC</td>
<td>n/a</td>
</tr>
</tbody>
</table>

We find that CalSEIA’s explanation of the current incentive structure for non-residential energy storage demonstrates a flaw in the current methodology. To address the problem, CalSEIA recommends that the non-ITC/ITC incentive adjustment methodology for each step be based on the percentage difference at Step 1, i.e., 72%. Five parties filed responses to the Petition. CESA, SolarCity and CSE support the changes recommended by the Petition. The Joint IOUs oppose the Petition. ORA supports the Petition but recommends a different solution.

25 See, D.16-06-055, Conclusion of Law 23.
The Joint IOUs’ opposition to the Petition centers on their concerns that granting CalSEIA’s Petition would contravene the Commission’s determination in D.16-06-055 that the value of the ITC is $0.14/Wh for all projects at all incentive levels. D.16-06-055 did not make such a finding. In D.16-06-055, we determined the incentive difference between projects with and without the ITC should reflect the value of the 30% ITC and, on that basis, we set the Step 1 incentive for ITC supported projects at 72% of the incentive amount for non-ITC projects. We then took the $/Wh difference, i.e., $0.14/Wh, and reduced each of the incentive steps by that amount.

ORA’s proposes an alternative fix to the issue CalSEIA identifies in the Petition. Their alternative is to set an incentive floor to ensure that ITC-supported projects do not face a Step 5 where no incentive is available. ORA proposes that Step 5 would have an incentive floor of $0.06/Wh, the same incentive level for projects without the ITC.

CalSEIA’s Petition highlights a flaw in the incentive adjustment mechanism adopted in D.16-06-055 that goes beyond the most obvious problem that could occur in Step 5 under a very specific scenario. The Commission’s intent in D.16-06-055 was to put SGIP projects on approximate equal footing in consideration of the federal ITC. CalSEIA’s proposal to apply the percentage difference employed in D.16-06-055, not the nominal value, is the most reasonable remedy to this issue. Therefore, we grant CalSEIA’s Petition. The impact of this methodology is illustrated in Table 6 below. Note that in Table 6 the incentive values for ITC-supported projects may not precisely equal 72% of the incentive values for non-ITC-supported projects, but they are adopted in any event.
Accordingly, the Program Administrators, PG&E, SCE, SoCalGas, and CSE on behalf of SDG&E, shall implement the revised incentive levels, and any other changes needed to the SGIP Handbook, by submitting a Tier 2 advice letter within 10 days of the effective date of this decision.

**Table 6: Energy Storage Incentive Levels Using Fixed Percentage ($/Wh)**

<table>
<thead>
<tr>
<th>Incentive Level</th>
<th>Slow Adoption</th>
<th></th>
<th>Fast Adoption</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No ITC</td>
<td>With ITC</td>
<td>ITC Pct of Non-ITC</td>
<td>No ITC</td>
</tr>
<tr>
<td>Step 1</td>
<td>0.50</td>
<td>0.36</td>
<td>72%</td>
<td>0.50</td>
</tr>
<tr>
<td>Step 2</td>
<td>0.45</td>
<td>0.32</td>
<td>72%</td>
<td>0.40</td>
</tr>
<tr>
<td>Step 3</td>
<td>0.40</td>
<td>0.29</td>
<td>72%</td>
<td>0.30</td>
</tr>
<tr>
<td>Step 4</td>
<td>0.35</td>
<td>0.25</td>
<td>72%</td>
<td>0.20</td>
</tr>
<tr>
<td>Step 5</td>
<td>0.30</td>
<td>0.22</td>
<td>72%</td>
<td>0.10</td>
</tr>
</tbody>
</table>

3. **Comments on Proposed Decision**

The proposed decision of Commissioner Rechtschaffen in this matter was mailed to the parties in accordance with Section 311 of the Public Utilities Code and comments were allowed under Rule 14.3 of the Commission’s Rules of Practice and Procedure.

Comments were filed on March 27, 2017 by Custom Power Solar; PG&E; SCE; SDG&E; Swell Energy, Inc. (Swell); SunVerge Energy, Inc. (SunVerge); CSE; CalSEIA; ORA; NFCRC; CESA; Robert Bosch LLC; Sunrun; SolarCity.; and AMS, Green Charge and Stem, as Joint Storage Parties.

Reply comments were filed on April 3, 2017 by PG&E; CSE; ORA; CESA; Robert Bosch LLC; SolarCity; CalSEIA; and AMS, Green Charge and Stem, as Joint Storage Parties.
All comments and reply comments have been carefully considered and the Proposed Decision has been revised to respond to many of the concerns raised. Revisions have also been made to improve program administration and correct minor errors.

4. Assignment of Proceeding

Clifford Rechtschaffen is the assigned Commissioner and Regina DeAngelis is the assigned Administrative Law Judge in this proceeding.

Findings of Fact

1. Value continues to exist in the distributed resources that participate in the SGIP and this value is expected to continue through 2019.

2. Doubling the SGIP budget is consistent with AB 1637 and is broadly supported by parties.

3. The methodology used to derive the annual SGIP collections split between PG&E, SCE, SDG&E, and SoCalGas is based on the proportionate share of energy efficiency funding adopted by the Commission in D.06-12-033 and D.06-01-024.

4. SGIP goals of GHG reductions and market transformation are goals supported by the Legislature.

5. As the proportion of renewable electricity on the grid increases, energy storage can play an increasingly important role in meeting California’s climate goals.

6. Incentive programs can help facilitate market transformation.

7. In D.16-06-055, the Commission allocated 75% of the SGIP incentive funds to energy storage and 10% of incentive funds to renewable generation technologies.
8. In D.16-06-055, the Commission set higher incentive levels and reserved 15% of the SGIP incentive budget for residential energy storage projects that are less than or equal to 10 kilowatts in size.

9. Allocating 85% of the incremental incentive funds authorized by AB 1637 to the energy storage category according to a 90%/10% split between projects greater than 10 kW in size and residential projects less than or equal to 10 kW in size, respectively, and 15% to the renewable generation category will advance the goals of GHG reductions and market transformation.

10. In evaluating the merit of the ACR proposal to distribute AB 1637 funding across incentive steps, the following characteristics were considered: (1) not funding projects where the incentive amount represents a disproportionate share of the project’s total cost, (2) administrative ease and implementation simplicity, (3) legislative intent, and (4) market transformation when the incentives will have a positive impact on price reduction for energy storage.

11. The allocation of funds across incentive steps can play a role in market transformation.

12. A decision implementing AB 1637 may not be adopted by the Commission before the Step 1 budget approved in D.16-06-055 for renewable generation projects is fully subscribed.

13. The Commission significantly revised SGIP in D.16-06-055 and the revised program has not yet opened.

14. The Commission established a developer cap in D.16-06-055, such that any single developer/installer is limited to 20% of the available incentive funding for the generation, large energy storage and residential energy storage categories.

15. State policy strongly supports investment in disadvantaged communities.
16. CalSEIA’s petition for modification of D.16-06-055 identified a flaw in the incentive structure for non-residential energy storage projects that qualify for the federal ITC.

**Conclusions of Law**

1. Collectively, PG&E, SCE, SDG&E and SoCalGas should collect an additional $83 million for calendar year 2017, 2018, and 2019 for purposes of the SGIP.

2. When calculating the proportionate annual SGIP collections from customers, PG&E, SCE, SDG&E, and SoCalGas should employ the methodology adopted in D.06-12-033 and D.06-01-024.

3. To promote SGIP goals of GHG reductions, grid support and market transformation, the allocation of the SGIP incentive budget authorized by AB 1637 should be 85% for the energy storage category according to a 90%/10% split between projects greater than 10 kW in size and residential projects less than or equal to 10 kW, respectively, and 15% for the renewable generation category.

4. To balance effective use of the AB 1637 funds, the following allocation for the energy storage category should be adopted as follows: Step 1 (0%), Step 2 (34%), Step 3 (33%), Step 4 (33%) and Step 5 (0%).

5. An approximately equal allocation of AB 1637 funds for the renewable generation category is reasonable and should be adopted as follows: Step 1 (34%), Step 2 (33%) and Step 3 (33%).

6. In the event that a decision implementing AB 1637 is not approved by the Commission before the Step 1 budget approved in D.16-06-055 for renewable generation projects is fully subscribed, those funds should be equally allocated to Step 2 and Step 3.
7. The developer cap established in D.16-06-055 should apply to the total funding levels for all SGIP incentive steps inclusive of the funding authorized by this decision.

8. In fairness to SGIP Administrators, market participants and parties to this proceeding, the revised SGIP should reopen before further changes are made to the program.

9. CalSEIA’s proposal to apply the percentage difference in incentive amounts between large energy storage projects with and without the federal ITC is reasonable and should be employed for all incentive steps for energy storage projects greater than 10 kW in size.

10. It is reasonable to reserve a portion of AB 1637 funds for projects located in disadvantaged communities.

11. CalSEIA’s November 18, 2016 petition for modification of D.16-06-055 should be granted.

ORDER

IT IS ORDERED that:

1. Within 10 days of the effective date of this decision, the Program Administrators (Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE), Southern California Gas Company (SoCalGas), and the Center for Sustainable Energy (CSE) on behalf of San Diego Gas & Electric Company (SDG&E)) shall submit a Tier 2 advice letter with revisions to the Self-Generation Incentive Program (SGIP) incorporating the program revisions adopted in this decision, as set forth below:
a. Beginning in 2017, PG&E, SCE, SoCalGas, and SDG&E shall collect on an annual basis through 2019, the maximum amount authorized by Public Utilities Code Section 379.6(a)(2), which in total is $166 million, or double the amount collected from customers in the 2008 calendar year.

b. The amounts authorized under Assembly Bill (AB) 1637 shall continue to be collected consistent with the current methodology used to derive the annual SGIP collections split between PG&E, SCE, SDG&E, and SoCalGas based on the proportionate share of energy efficiency funding adopted by the Commission in Decision (D.) 06-12-033 and D.06-01-024.

c. The additional funding authorized by AB 1637 shall be allocated to the energy storage category and the generation category of SGIP, as follows:

   i. 85% of the AB 1637 funds to the energy storage category according to a 90%/10% split between projects greater than 10 kilowatts in size and residential projects less than or equal to 10 kilowatts in size, respectively, and

   ii. 15% of the AB 1637 funds to renewable generation projects within the generation category, as defined in D.16-06-055 and the Renewables Portfolio Standard program.

d. The AB 1637 funds allocated to the energy storage category for projects larger than 10 kilowatts in size and residential projects less than or equal to 10 kilowatts are apportioned to their respective incentive steps as follows: Step 1 (0%), Step 2 (34%), Step 3 (33%), Step 4 (33%), and Step 5 (0%).

e. The AB 1637 funds allocated to renewable projects in the generation category are apportioned to the incentive steps as follows: Step 1 (34%), Step 2 (33%), and Step 3 (33%).

f. In the event that a decision implementing AB 1637 is not approved by the Commission before the Step 1 budget approved in D.16-06-055 for renewable generation projects is fully subscribed, those funds will be equally allocated as follows: Step 2 (50%) and Step 3 (50%).
g. Incentive amounts in Steps 2 through 5 for all projects in the energy storage category that are greater than 10 kilowatts in size and that receive the federal investment tax credit (ITC) shall be revised so that the Step 1 percentage differential of 72 percent between projects with and without the ITC adopted in D.16-06-055, Conclusions of Law 23 and 24 is maintained in Steps 2 through 5.

h. The 20% developer cap will be calculated based on the total incentive funding levels for each incentive step as determined in D.16-06-055 and this decision.

i. Make all necessary corresponding changes to the SGIP Handbook.

2. The Petition for Modification of Decision 16-06-055 by California Solar Energy Industry Association is granted.

3. Rulemaking 12-11-005 remains open.

This order is effective today.

Dated April 6, 2017, at Santa Rosa, California.

MICHAEL PICKER
President
CARLA J. PETERMAN
LIANE M. RANDOLPH
MARTHA GUZMAN ACEVES
CLIFFORD RECHTSCHAFFEN
Commissioners