



## Town Council Agenda Report

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Date: October 13, 2020 Item No. 5

To: Honorable Mayor and Town Council

Subject: APPROVE CALIFORNIA CHOICE ENERGY AUTHORITY ENTERING INTO A LONG-TERM RESOURCE ADEQUACY AGREEMENT WITH CALPINE ENERGY SERVICES, L.P. ON BEHALF OF APPLE VALLEY CHOICE ENERGY

From: Douglas Robertson, Town Manager

Submitted by: Sydnie Harris, Director of Finance  
Finance Department

Budgeted Item:  Yes  No  N/A

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### **RECOMMENDED ACTION:**

Approve California Choice Energy Authority entering into a long-term resource adequacy agreement with Calpine Energy Services, L.P. on behalf of Apple Valley Choice Energy.

### **SUMMARY:**

Apple Valley Choice Energy (AVCE) is required by the California Public Utilities Commission (CPUC) to comply with certain state mandated obligations related to its Resource Adequacy (RA) Program. This agreement will demonstrate compliance with this requirement.

### **BACKGROUND:**

On August 9, 2016, Town Council adopted Ordinance No. 486 Establishing the Apple Valley Community Choice Aggregation (CCA) Program, Apple Valley Choice Energy (AVCE). AVCE began serving customers in April 2017. As a CCA, AVCE is required to meet certain state mandated obligations, including those required by the CPUC's RA Program

Under its RA Program, the CPUC requires load-serving entities, including CCAs, to demonstrate in both annual and monthly filings that they have procured forward capacity commitments of no less than 115% of their monthly peak demand. These requirements are intended to secure sufficient commitments from actual, physical generating resources to ensure electrical system reliability.

In order to meet this requirement, California Choice Energy Authority (CalChoice) on behalf of AVCE and its other member agencies, issued a Request for Offers (RFO) for

RA products in April 2020 and has since been engaged in contract negotiations for both offers through the RFO process as well as through other bilateral opportunities. For one such RA contracting opportunity, CalChoice and its legal and technical team have negotiated and finalized commercial contract terms on behalf of its member agencies with Calpine Energy Services, L.P. (Calpine) for product that will demonstrate compliance with the CPUC's RA Program.

As a condition of the agreement, Calpine recognizes and accepts the secured deposit account in the name of AVCE as credit and collateral, and no other security or credit backing by the town will be required.

**FISCAL IMPACT:**

Not to exceed \$ 4,545,000 over an eight-year period beginning January 2021. There will be sufficient revenues generated by AVCE to cover operating expenses, including power procurement, and to fund reserves to provide financial and rate stability to the program.

**ATTACHMENT:**

Power Purchase and Sale Agreement Confirmation Letter.

**MASTER POWER PURCHASE AND SALE AGREEMENT  
CONFIRMATION LETTER  
BETWEEN  
CALPINE ENERGY SERVICES, L.P.  
AND  
CALIFORNIA CHOICE ENERGY AUTHORITY**

This confirmation letter ("Confirmation") confirms the Transaction between **Calpine Energy Services, L.P.**, a Delaware limited partnership ("Seller"), and **California Choice Energy Authority**, a California joint powers authority ("CalChoice" or "Buyer"), each individually a "Party" and together the "Parties", dated as of October \_\_, 2020 (the "Confirmation Effective Date"), in which Seller agrees to provide to Buyer the right to the Product, as such term is defined in Article 3 of this Confirmation. This Transaction is governed by the Edison Electric Institute Master Power Purchase and Sale Agreement between the Parties, and that certain Cover Sheet, effective as of October 29, 2018, along with any annexes and amendments thereto (collectively, the "Master Agreement"). Pursuant to the Master Agreement, the Transaction reflected by this Confirmation is being entered into on behalf of, and has been allocated to, the Town of Apple Valley ("Member"). The Master Agreement and this Confirmation shall be collectively referred to herein as the "Agreement". Capitalized terms used but not otherwise defined in this Confirmation have the meanings ascribed to them in the Master Agreement or the Tariff (as defined herein).

**1.  
DEFINITIONS**

- 1.1** "Alternate Capacity" means any replacement Product which Seller has elected to provide to Buyer in accordance with the terms of Section 4.5.
- 1.2** "Annual Supply Plan" has the meaning set forth in the Tariff.
- 1.3** "Applicable Laws" means any law, rule, regulation, order, decision, judgment, or other legal or regulatory determination by any Governmental Body having jurisdiction over one or both Parties or this Transaction, including without limitation, the Tariff.
- 1.4** "Availability Incentive Payments" has the meaning set forth in the Tariff.
- 1.5** "Availability Standards" shall mean Availability Standards as defined in Section 40.9 of the Tariff or otherwise applicable to CAISO.
- 1.6** "Buyer" has the meaning specified in the introductory paragraph hereof.
- 1.7** "CAISO" means the California Independent System Operator or its successor.
- 1.8** "Capacity Replacement Price" means (a) the price actually paid for any Replacement Capacity purchased by Buyer pursuant to Section 4.7 hereof, plus costs reasonably incurred by Buyer in purchasing such Replacement Capacity, or (b) absent a purchase of any Replacement Capacity, the market price for such Designated RA Capacity not provided at the Delivery Point. The Buyer shall determine such market prices in a commercially reasonable manner. For purposes of the definition of Section 1.51 of the Master Agreement, "Capacity Replacement Price" shall be deemed to be the "Replacement Price."
- 1.9** "CIRA Tool" means the CAISO Customer Interface for Resource Adequacy application, or its successor platform.
- 1.10** "Compliance Showings" means the Flexible RAR Showings, LAR Showings, and RAR Showings, as applicable to the Product.

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- 1.11 "Confirmation" has the meaning specified in the introductory paragraph hereof.
- 1.12 "Confirmation Effective Date" has the meaning specified in the introductory paragraph hereof.
- 1.13 "Contingent Firm RA Product" has the meaning specified in Section 3.4 hereof.
- 1.14 "Contract Price" means, for any Monthly Delivery Period, the price specified under the RA Capacity Price Table in Section 4.9.
- 1.15 "Contract Quantity" means, with respect to any particular Showing Month of the Delivery Period, the amount of Product (in MWs) set forth in the "Contract Quantity (MWs)" table in Section 4.3 which Seller has agreed to provide to Buyer from the Unit for such Showing Month.
- 1.16 "Control Area" has the meaning set forth in the Tariff.
- 1.17 "CPUC Decisions" means CPUC Decisions 04-01-050, 04-10-035, 05-10-042, 06-06-064, 06-07-031, 07-06-029, 08-06-031, 09-06-028, 10-06-036, 11-06-022, 12-06-025, 13-06-024, 14-06-050, 15-06-063, 16-06-045, 17-06-027, 19-02-022 and 19-06-026, and subsequent decisions related to resource adequacy issued from time to time by the CPUC.
- 1.18 "CPUC Filing Guide" means the annual document issued by the CPUC which sets forth the guidelines, requirements and instructions for LSE's to demonstrate compliance with the CPUC's resource adequacy program.
- 1.19 "Delivery Period" has the meaning specified in Section 4.1 hereof.
- 1.20 "Delivery Point" has the meaning specified in Section 4.2 hereof.
- 1.21 "Designated RA Capacity" shall be equal to, with respect to any particular Showing Month of the Delivery Period, the Contract Quantity of Product for such Showing Month including the amount of Contract Quantity that Seller has elected to provide Alternate Capacity with respect to, minus any reductions to Contract Quantity specified in Section 4.4 with respect to which Seller has not elected to provide Alternate Capacity.
- 1.22 "Effective Flexible Capacity" means the flexible capacity of a resource that can be counted towards an LSE's FCR obligation, as identified from time to time by the Tariff, the CPUC Decisions, LRA, or other Governmental Body having jurisdiction.
- 1.23 "FCR Attributes" means, with respect to a Unit, any and all FCR attributes that can be counted toward an LSE's FCR, as they are identified from time to time by the CPUC Decisions, the Tariff, an LRA, or other Governmental Body having jurisdiction that can be counted toward FCR and are consistent with the operational limitations and physical characteristics of such Unit. For clarity, it should be understood that if the CAISO, LRA, or other Governmental Body, defines new or re-defines the FCR Attributes of a Unit, then such change will not result in a change in obligations or payments made pursuant to this Transaction.
- 1.24 "FCR Showings" means the FCR compliance showings (or similar or successor showings) an LSE is required to make to the CPUC (and, to the extent authorized by the CPUC, to the CAISO) pursuant to the CPUC Decisions and the Tariff, or to an LRA having jurisdiction over the LSE.
- 1.25 "Firm RA Product" has the meaning specified in the Section 3.3 hereof.
- 1.26 "Flexible Capacity Category" shall be as described in the annual CPUC Filing Guide, as such may be modified, amended, supplemented or updated from time to time.

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- 1.27** "Flexible Capacity Requirements" or "FCR" means the flexible capacity requirements established for LSEs by the CPUC pursuant to the CPUC Decisions, or by an LRA or other Governmental Body having jurisdiction.
- 1.28** "Flexible RA Product" has the meaning specified in the Section 3.2 hereof.
- 1.29** "GADS" means the Generating Availability Data System or its successor.
- 1.30** "Generic RA Product" means Designated RA Capacity consisting of RAR Attributes and, if applicable, LAR Attributes, which does not include FCR Attributes.
- 1.31** "Governmental Body" means (i) any federal, state, local, municipal or other government; (ii) any governmental, regulatory or administrative agency, commission or other authority lawfully exercising or entitled to exercise any administrative, executive, judicial, legislative, police, regulatory or taxing authority or power; and (iii) any court or governmental tribunal.
- 1.32** "LAR" means local area reliability, which is any program of localized resource adequacy requirements established for jurisdictional LSEs by the CPUC pursuant to the CPUC Decisions, or by another LRA having jurisdiction over the LSE, as implemented in the Tariff. LAR may also be known as local resource adequacy, local RAR, or local capacity requirement in other regulatory proceedings or legislative actions.
- 1.33** "LAR Attributes" means, with respect to a Unit, any and all resource adequacy attributes (or other locational attributes related to system reliability), as they are identified as of the Confirmation Effective Date by the CPUC Decisions, CAISO, LRA, or other Governmental Body having jurisdiction, associated with the physical location or point of electrical interconnection of the Unit within the CAISO Control Area, that can be counted toward LAR and are consistent with the operational limitations and physical characteristics of such Unit, but exclusive of any RAR Attributes which are not associated with where in the CAISO Control Area the Unit is physically located or electrically interconnected. For clarity, it should be understood that if the CAISO, LRA, or other Governmental Body, defines new or re-defines existing local areas, then such change will not result in a change in obligations or payments made pursuant to this Transaction.
- 1.34** "LAR Showings" means the LAR compliance showings (or similar or successor showings) an LSE is required to make to the CPUC (and, to the extent authorized by the CPUC, to the CAISO) pursuant to the CPUC Decisions, or to an LRA having jurisdiction over the LSE.
- 1.35** "LRA" has the meaning set forth in the Tariff.
- 1.36** "LSE" means load-serving entity. LSEs may be an investor-owned utility, an electric service provider, a community aggregator or community choice aggregator, or a municipality serving load in the CAISO Control Area (excluding exports).
- 1.37** "Master Agreement" has the meaning specified in the introductory paragraph hereof.
- 1.38** "Maximum Cumulative Capacity" or "MCC" shall have the meaning specified in Section 2.1 hereof.
- 1.39** "Member" has the meaning specified in the introductory paragraph hereof.
- 1.40** "Monthly Delivery Period" means each calendar month during the Delivery Period and shall correspond to each Showing Month.
- 1.41** "Monthly RA Capacity Payment" has the meaning specified in Section 4.9 hereof.
- 1.42** "Monthly Supply Plan" has the meaning set forth in the Tariff.


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- 1.43 "NERC" means the North American Electric Reliability Council, or its successor.
- 1.44 "NERC/GADS Protocols" means the GADS protocols established by NERC, as may be updated from time to time.
- 1.45 "Net Qualifying Capacity" has the meaning set forth in the Tariff.
- 1.46 "Non-Availability Charges" has the meaning set forth in the Tariff.
- 1.47 "Notification Deadline" means in respect of a Showing Month the day that is fifteen (15) Business Days before the Compliance Showing deadlines. For illustrative purposes only, as of the Confirmation Effective Date, the applicable Compliance Showing deadlines are as follows: (A) forty-five (45) days prior to the Showing Month covered by the Supply Plan for the Monthly Supply Plan; and (B) the last Business Day of October that is prior to commencement of the year for the Annual Supply Plan. The Parties acknowledge and agree that such dates may be modified by the CAISO from time to time throughout the Delivery Period
- 1.48 "Outage" means disconnection, separation, or reduction in the capacity of any Unit that relieves all or part of the offer obligations of the Unit consistent with the Tariff. For the avoidance of doubt, Outage shall be deemed to include Planned Outage (defined below).
- 1.49 "Planned Outage" means, subject to and as further described in the CPUC Decisions and the Tariff (Planned Outage referred to as "Approved Maintenance Outage" under the Tariff), a CAISO-approved planned or scheduled disconnection, separation or reduction in capacity of the Unit that is conducted for the purposes of carrying out routine repair or maintenance of such Unit, or for the purposes of new construction work for such Unit.
- 1.50 "Product" has the meaning specified in Article 3 hereof.
- 1.51 "RA Capacity" means the qualifying and deliverable capacity of the Unit for RAR, LAR, and FCR purposes for the Delivery Period, as determined by the CAISO, or other Governmental Body authorized to make such determination under Applicable Laws. RA Capacity encompasses the RAR Attributes, LAR Attributes and FCR Attributes of the capacity provided by a Unit, as applicable pursuant to this Confirmation.
- 1.52 "RA Capacity Price" means the price specified in the RA Capacity Price Table in Section 4.9 hereof.
- 1.53 "RAR" or "Resource Adequacy Requirements" means the resource adequacy requirements, exclusive of LAR and FCR, established for LSEs by the CPUC pursuant to the CPUC Decisions, by the CAISO under the Tariff, or by an LRA or other Governmental Body having jurisdiction.
- 1.54 "RAR Attributes" means, with respect to a Unit, any and all resource adequacy attributes, as they are identified as of the Confirmation Effective Date by the Tariff, the CPUC Decisions, LRA, or any Governmental Body having jurisdiction, that can be counted toward RAR and are consistent with the operational limitations and physical characteristics of such Unit, exclusive of any LAR Attributes or FCR Attributes.
- 1.55 "RAR Showings" means the RAR compliance showings (or similar or successor showings) an LSE is required to make to the CPUC (and/or, to the extent authorized by the CPUC, to the CAISO), pursuant to the Tariff, the CPUC Decisions or LRA having jurisdiction.
- 1.56 "Replacement Capacity" has the meaning specified in Section 4.7 hereof.
- 1.57 "Replacement Unit" means a generating unit meeting the requirements specified in Section 4.5.

- 1.58** "Resource Adequacy Plan" has the meaning set forth in the Tariff.
- 1.59** "Resource Category" shall be as described in the CPUC Filing Guide, as such may be modified, amended, supplemented or updated from time to time.
- 1.60** "Scheduling Coordinator" or "SC" has the same meaning as in the Tariff.
- 1.61** "Seller" has the meaning specified in the introductory paragraph hereof.
- 1.62** "Showing Month" is the calendar month during the Delivery Period that is the subject of the Compliance Showing. For illustrative purposes only, pursuant to the CPUC Decisions in effect as of the Confirmation Effective Date, the monthly Compliance Showing made in June is for the Showing Month of August.
- 1.63** "Shown Unit" means a generating unit from which RA Capacity will be provided by Seller to Buyer and that Seller identifies annually pursuant to Article 2.
- 1.64** "Subsequent Buyer" means the purchaser of Product from Buyer in a re-sale of Product by Buyer.
- 1.65** "Substitute Capacity" has the meaning set forth in the Tariff for "RA Substitute Capacity."
- 1.66** "Supply Plan" has the meaning set forth in the Tariff.
- 1.67** "Tariff" means the tariff and protocol provisions of the CAISO, including associated rules, procedures and business practice manuals, as amended or supplemented from time to time.
- 1.68** "Transaction" has the meaning specified in the introductory paragraph hereof.
- 1.69** "Unit" or "Units" shall mean the generation assets described in Article 2 hereof (including any Replacement Units), from which RA Capacity is provided by Seller to Buyer.
- 1.70** "Unit EFC" means the Effective Flexible Capacity set by the CAISO for the applicable Unit. If the CAISO adjusts the Effective Flexible Capacity of a Unit after the Confirmation Effective Date, then for the period in which the adjustment is effective, the Unit EFC shall be deemed the lesser of (i) the Unit EFC as of the Confirmation Effective Date, and (ii) the CAISO-adjusted Effective Flexible Capacity. To the extent the Confirmation Effective Date of this Confirmation occurs prior to the CAISO's setting of a Unit EFC for the applicable Unit, the Unit EFC shall be as agreed to by the Parties and specified in Article 2, and Seller represents that, to the best of its knowledge, this Unit EFC is consistent with the CAISO's methodology for determining Unit EFC as of the Confirmation Effective Date. To the extent the CAISO creates new categories of flexible capacity during the term of this Transaction and a Unit can count toward such new categories of flexible capacity while operating consistent with the operational limitation and physical characteristics of such Unit, any and all such new categories of flexible capacity shall be deemed to be part of the Effective Flexible Capacity of that Unit. The above notwithstanding, to the extent the CAISO decides to reduce the applicable Unit EFC, Seller shall not be liable for any costs or damages related to such reduction and the Unit EFC shall be reduced per Section 4.4 of this Confirmation.
- 1.71** "Unit NQC" means the Net Qualifying Capacity set by the CAISO for the applicable Unit. If the CAISO adjusts the Net Qualifying Capacity of a Unit after the Confirmation Effective Date, then for the period in which the adjustment is effective, the Unit NQC shall be deemed the lesser of (i) the Unit NQC as of the Confirmation Effective Date, and (ii) the CAISO-adjusted Net Qualifying Capacity.

**2.  
UNIT DESIGNATION**

**2.1 Seller to Annually Designate Shown Unit**

- (a) On an annual basis during the term of this Transaction, Seller shall designate the Shown Unit(s) from which RA Capacity will be provided to Buyer for the following calendar year by providing Buyer with the specific Unit information contained in Appendix A by no later than the earlier of (i) October 1, or (ii) thirty (30) calendar days before the deadline for the year-ahead Compliance Showing.
- (b) The Shown Unit shall meet the Product characteristics and Contract Quantity specified in Sections 3 and 4 and the Resource Category requirements set forth in Section 2.1(c). Under no circumstances shall the Shown Unit be a coal-fired generating facility.
- (c) 
- (d) Nothing in this Section 2.1 shall be construed to limit the applicability of Sections 4.4 (Adjustment to Contract Quantity) or 4.5 (Alternate Capacity and Replacement Units) of this Confirmation.
- (e) Seller's designation of the Shown Unit each year shall not in any way (i) convert the Contingent Firm RA Product being sold under this Confirmation into Firm RA Product, or (ii) cause any change to the Monthly RA Capacity Payment.

**3.  
RESOURCE ADEQUACY CAPACITY PRODUCT**

During the Delivery Period, Seller shall provide to Buyer, pursuant to the terms of this Confirmation, the Contract Quantity of (i) RAR Attributes and, if applicable, LAR Attributes, and (ii) FCR Attributes, if Flexible RA Product is specified in Section 3.2, and the Contract Quantity shall be either a Firm RA Product or a Contingent Firm RA Product, as specified in either Section 3.3 or 3.4 (the "Product"). The Product does not confer to Buyer any right to the electrical output from the Units, other than the right to include the Designated RA Capacity associated with the Contract Quantity in RAR Showings, LAR Showings, and FCR Showings, as applicable, and any other capacity or resource adequacy markets or proceedings as specified in this Confirmation. Specifically, no energy or ancillary services associated with any Unit is required to be made available to Buyer as part of this Transaction and Buyer shall not be responsible for compensating Seller for Seller's commitments to the CAISO required by this Confirmation. Seller retains the right to sell pursuant to the Tariff any RA Capacity from a Unit that is in excess of that Unit's Contract Quantity and any RAR Attributes, LAR Attributes or FCR Attributes not otherwise transferred, conveyed, or sold to Buyer under this Confirmation. The Parties agree that, since this Transaction has been allocated to Member pursuant to the Master Agreement, if CalChoice is unable or unwilling to accept delivery of the Product, Seller may deliver the Product to Member, and delivery to Member will satisfy Seller's obligations under this Confirmation.

**3.1 RAR and LAR Attributes**

Seller shall provide Buyer with the Designated RA Capacity of RAR Attributes and, if applicable, LAR Attributes from each Unit, as measured in MWs, in accordance with the terms and conditions of this Agreement.



**3.2  Flexible RA Product**

Seller shall provide Buyer with Designated RA Capacity of FCR Attributes from the Units in the amount of the applicable Contract Quantity.

**3.3  Firm RA Product**

Seller shall provide Buyer with Designated RA Capacity from the Units in the amount of the Contract Quantity. If the Units are not available to provide the full amount of the Contract Quantity for any reason other than Force Majeure, including without limitation any Outage or any adjustment of the RA Capacity of any Unit, pursuant to Section 4.4, then, Seller shall provide Buyer with Designated RA Capacity from one or more Replacement Units pursuant to Section 4.5 hereof. If Seller fails to provide Buyer with replacement Designated RA Capacity from Replacement Units pursuant to Section 4.5, then Seller shall be liable for damages and/or required to indemnify Buyer for penalties or fines pursuant to the terms of Sections 4.7 and 4.8 hereof.

**3.4  Contingent Firm RA Product**

Seller shall provide Buyer with Product from the Unit in the amount of the applicable Contract Quantity; provided, however, that if, and to the extent that the Unit is not available to provide the full amount of the Contract Quantity due to any reduction in Contract Quantity in accordance with Section 4.4, Seller shall have the option to notify Buyer that either (a) Seller will not provide the portion of the Contract Quantity attributable to such reduction during the period of such non-availability; or (b) Seller will supply Alternate Capacity to fulfill the remainder of the Contract Quantity during such period pursuant to Section 4.5. If Seller fails to provide Buyer with the Designated RA Capacity from the Unit and has failed to supply Alternate Capacity to fulfill the remainder of the Designated RA Capacity during such period, Seller shall be liable for damages and/or required to indemnify Buyer for penalties or fines pursuant to the terms of Section 4.7 and 4.8.

**4.  
DELIVERY AND PAYMENT**

**4.1 Delivery Period**

The Delivery Period shall be January 1, 2021 through December 31, 2028, inclusive.

**4.2 Delivery Point**

The Delivery Point for each Unit shall be the CAISO Control Area, and if applicable, the LAR region in which the Unit is electrically interconnected.

**4.3 Contract Quantity**

[REDACTED]

[REDACTED]

**4.4 Adjustments to Contract Quantity**

- (a) Planned Outages: If Seller is providing Contingent Firm RA Product and is unable to provide the applicable Contract Quantity for a portion of a Showing Month due to a Planned Outage of the Unit, then Seller shall have the option, but not the obligation, upon written notice to Buyer by the Notification Deadline, to either (i) reduce the Contract Quantity in accordance with the Planned Outage for such portion of the Showing Month, provided such reduction is able to be reflected on the Supply Plans in accordance with the Tariff; or (ii) provide Alternate Capacity in accordance with Section 4.5 up to the Contract Quantity for the applicable portion of such Showing Month.
- (b) Reductions in Unit NQC: If Product is both (i) Generic RA Product, and (ii) Contingent Firm RA Product specified under Section 3.4, then Seller's obligation to deliver the applicable Contract Quantity for any Showing Month may also be reduced if the Unit experiences a reduction in Unit NQC after the Confirmation Effective Date as determined by the CAISO. Seller's potential reduction in Contract Quantity for each remaining Showing Month shall equal the product of (a) the applicable Showing Month Contract Quantity and (b) the total amount (in MW) Unit NQC was reduced since Confirmation Effective Date, divided by (c) Unit NQC as of the Confirmation Effective Date. If the Unit experiences such a reduction in Unit NQC, then Seller has the option, but not the obligation, to provide the applicable Contract Quantity for such Showing Month from (i) the same Unit, provided the Unit has sufficient remaining and available Product and/or (ii) from Replacement Units, provided, that in each case Seller provides and identifies such Replacement Units in accordance with Section 4.5.
- (c) Reductions in Unit EFC: If Product is both (i) Flexible RA Product specified under Section 3.2, and (ii) Contingent Firm RA Product specified under Section 3.4, then Seller's obligation to deliver the applicable Contract Quantity of Product for any Showing Month may also be reduced if the Unit experiences a reduction in Unit EFC as determined by the CAISO. Seller's potential reduction in Contract Quantity for each remaining Showing Month shall equal the product of (a) the applicable Showing Month Contract Quantity and (b) the total amount (in MW) Unit EFC was reduced since Confirmation Effective Date, divided by (c) Unit EFC as of the Confirmation Effective Date. If the Unit experiences such a reduction in Unit EFC, then Seller has the option, but not the obligation, to provide the applicable Contract Quantity for such Showing Month from (i) the same Unit, provided the Unit has sufficient remaining and available Product and/or (ii) from Replacement Units, provided, that in each case Seller provides and identifies such Replacement Units in accordance with Section 4.5.
- (d) UCAP: If during the Delivery Period the CAISO or the CPUC either replaces Unit NQC as the value utilized to measure the qualifying capacity of a Unit with a successor value such as unforced capacity (UCAP) or utilizes such successor value as a supplemental means of measuring the qualifying capacity of a Unit together with Unit NQC, then the Parties shall negotiate an amendment to this Confirmation so that from and after such replacement Seller shall convey to Buyer an amount of qualifying capacity of such Unit of (i) no less than the amount obtained by calculating the Buyer's share of such qualifying capacity but (ii) no more than the Contract Quantity. Seller shall determine its pro-rata delivery obligation by calculating the product of (A) the Contract Quantity divided by the Unit NQC, multiplied by (B) the Unit's overall qualifying capacity (in MW) as measured by such new method of measuring a Unit's qualifying capacity).

**4.5 Alternate Capacity and Replacement Units**

- (a) If Seller is unable to provide the full Contract Quantity for any Showing Month for any reason, including, without limitation, due to one of the reasons specified in Section 4.4, or Seller desires to provide the Contract Quantity for any Showing Month from a different generating unit other than the Unit, then Seller may, at no cost to Buyer, provide Buyer with Alternate Capacity from one or more Replacement Units, with the total amount of Product provided to Buyer from the Unit and Replacement Units up to an amount equal to the Contract Quantity for the applicable Showing Month; provided that in each case, Seller shall notify Buyer of its intent (i) not to provide or (ii) to provide Alternate Capacity and identify Replacement Units meeting the above requirements and the Resource Category requirements set forth in Section 2.1(c), no later than the Notification Deadline. If Seller notifies Buyer in writing as to the particular Replacement Units and such Units meet the requirements of this Section 4.5, then such Replacement Units shall be automatically deemed a Unit for purposes of this Confirmation for that Showing Month.
- (b) With respect to a Contingent Firm RA Product, if Seller does not provide Alternate Capacity in an amount equal to the Contract Quantity for that Showing Month, then Buyer may, but shall not be required to, purchase replacement Product. Seller shall not be liable for damages and/or required to indemnify Buyer for penalties or fines pursuant to the terms of Sections 4.7 and 4.8 hereof if (i) the failure to deliver the full Contract Quantity is due to a reduction in Contract Quantity in accordance with Section 4.4 and (ii) Seller has notified Buyer, no later than the Notification Deadline, of Seller's intent not to provide Alternate Capacity in an amount equal to the Contract Quantity of that Showing Month.

**4.6 Delivery of Product**

Seller shall provide Buyer with the Designated RA Capacity of Product for each Showing Month consistent with the following:

- (a) Seller shall submit, or cause the Unit's Scheduling Coordinator to submit, by the Notification Deadline (i) Monthly Supply Plans and (ii) Annual Supply Plans if the Confirmation Effective Date is prior to the year-ahead Compliance Showing deadline applicable for the Showing Months as specified in Section 4.1, in accordance with the CAISO Tariff, identifying and confirming the transfer of the Designated RA Capacity to Buyer for each Showing Month, unless Buyer specifically requests in writing that Seller not do so (it being understood that any Designated RA Capacity subject to such a request from Buyer will be deemed to have been provided to Buyer for all purposes under this Confirmation).
- (b) The Product is delivered and received when the CIRA Tool shows the Supply Plan accepted for the Product from the Unit by CAISO or Seller complies with Buyer's instruction to withhold all or part of the Contract Quantity from Seller's Supply Plan for any Showing Month during the Delivery Period. Seller has failed to deliver the Product if (i) Buyer has elected to submit the Product from the Unit in its Resource Adequacy Plan and such submission is accepted by the CPUC and the CAISO but the Supply Plan and Resource Adequacy Plan are not matched in the CIRA Tool due solely to a Seller error, and are rejected by CAISO, or (ii) Seller fails to submit the volume of Designated RA Capacity for any Showing Month pursuant to this Confirmation. Buyer will have received the Contract Quantity if (x) Seller's Supply Plan is accepted by the CAISO for the applicable Showing Month, (y) Seller correctly submits the Supply Plan and the Supply Plan and/or Resource Adequacy Plan are not matched in the CIRA Tool due solely to a Buyer error or (z) Seller

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complies with Buyer's instruction to withhold all or part of the Contract Quantity from Seller's Supply Plan for the applicable Showing Month. Seller will not have failed to deliver the Contract Quantity if Buyer fails or chooses not to submit the Unit and the Product in its Resource Adequacy Plan with the CPUC or CAISO.

**4.7 Damages for Failure to Provide Designated RA Capacity**

If Seller fails to provide Buyer with the Designated RA Capacity of Product for any Showing Month and such failure is not excused under the terms of this Confirmation, then the following shall apply:

- (a) Buyer may, but shall not be required to, replace any portion of the Designated RA Capacity not provided by Seller with capacity having equivalent RAR Attributes, LAR Attributes and/or FCR Attributes as the Designated RA Capacity not provided by Seller, provided, that, if any portion of the Designated RA Capacity that Buyer is seeking to replace is Designated RA Capacity having RAR Attributes and no LAR Attributes (such capacity shall also include FCR Attributes if this is a Flexible Capacity Product) and no such RAR capacity is available, then Buyer may replace such portion of the Designated RA Capacity with other capacity having RAR Attributes and LAR Attributes (as well as FCR Attributes if this is a Flexible Capacity Product) ("Replacement Capacity"). Such Replacement Capacity may be provided by CAISO to Buyer pursuant to the Tariff. Buyer may enter into purchase transactions with one or more parties to replace any portion of Designated RA Capacity not provided by Seller. Additionally, Buyer may enter into one or more arrangements to repurchase its obligation to sell and deliver capacity to another party and, to the extent such transactions are done at prevailing market prices, such arrangements shall be considered equivalent to the procurement of Replacement Capacity. Buyer shall use commercially reasonable efforts to minimize damages when procuring any Replacement Capacity.
- (b) Seller shall pay to Buyer at the time set forth in Section 4.1 of the Master Agreement, the following damages in lieu of damages specified in Section 4.1 of the Master Agreement: an amount equal to the positive difference, if any, between (i) the sum of (A) the actual cost paid by Buyer for any Replacement Capacity, plus (B) each Capacity Replacement Price times the amount of the Designated RA Capacity neither provided by Seller nor purchased by Buyer pursuant to Section 4.7(a), and (ii) the Designated RA Capacity not provided for the applicable Showing Month times the Contract Price for that month. If Seller fails to pay these damages, then Buyer may offset those damages owed it against any future amounts it may owe to Seller under this Confirmation pursuant to Article Six of the Master Agreement.

**4.8 Indemnities for Failure to Deliver Contract Quantity**

Subject to any adjustments made pursuant to Section 4.4 and requests from Buyer pursuant to Section 4.6(b)(i), Seller agrees to indemnify, defend and hold harmless Buyer from any penalties, fines or costs assessed against Buyer by the CPUC or the CAISO, to the extent not otherwise paid by Seller to Buyer under Section 4.7(b), resulting from any of the following:

- (a) Seller's failure to provide any portion of the Designated RA Capacity;
- (b) Seller's failure to provide notice of the non-availability of any portion of Designated RA Capacity as required under Sections 4.4 and 4.5;
- (c) A Unit Scheduling Coordinator's failure to timely submit Supply Plans that identify Buyer's right to the Designated RA Capacity purchased hereunder; or

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- (d) A Unit Scheduling Coordinator's failure to submit accurate Supply Plans that identify Buyer's right to the Designated RA Capacity purchased hereunder.

With respect to the foregoing, the Parties shall use commercially reasonable efforts to minimize such penalties, fines and costs; provided, that in no event shall Buyer be required to use or change its utilization of its owned or controlled assets or market positions to minimize these penalties and fines. If Seller fails to pay the foregoing penalties, fines or costs, or fails to reimburse Buyer for those penalties, fines or costs, then Buyer may offset those penalties, fines or costs against any future amounts it may owe to Seller under this Confirmation.

**4.9 Monthly RA Capacity Payment**

[REDACTED]

[REDACTED]

**4.10 Allocation of Other Payments and Costs**

Seller may retain any revenues it may receive from the CAISO or any other third party with respect to any Unit for (a) start-up, shut-down, and minimum load costs, (b) capacity revenue for ancillary services, (c) energy sales, (d) any revenues for black start or reactive power services, or (e) the sale of the unit-contingent call rights on the generation capacity of the Unit to provide energy to a third party, so long as such rights do not confer on such third party the right to claim any portion of the RA Capacity sold hereunder in order to make an RAR Showing, LAR Showing, FCR Showing, or any similar capacity or resource adequacy showing with the CAISO or CPUC. Buyer acknowledges and agrees that all Availability Incentive Payments are for the benefit of Seller and for Seller's account, and that Seller shall receive, retain, or be entitled to receive all credits, payments, and revenues, if any, resulting from Seller achieving or exceeding Availability Standards. The Parties acknowledge and agree that any Non-Availability Charges are the responsibility of Seller, and for Seller's account and Seller shall be responsible for all fees, charges, or penalties, if any, resulting from Seller failing to achieve Availability Standards. However, Buyer shall be entitled to receive and retain all revenues associated with the Designated RA Capacity of any Unit during the Delivery Period (including any capacity or availability revenues from RMR Agreements for any Unit, Reliability Compensation Services Tariff, and Residual Unit Commitment capacity payments, but excluding payments described in clauses (a) through (c) above). In accordance with Section 4.9 of this Confirmation and Article Six of the Master Agreement, all such revenues received by Seller, or a Unit's SC, owner, or operator shall be remitted to Buyer, and Seller shall indemnify Buyer for any such revenues that Buyer does not receive, and Seller shall pay such revenues to Buyer if the Unit's SC, owner, or operator fails to remit those revenues to Buyer. If Seller fails to pay such revenues to Buyer, Buyer may offset any amounts owing to it for such revenues pursuant to Article Six of the Master Agreement against any future amounts it may owe to Seller under this Confirmation.

**5.  
CAISO OFFER REQUIREMENTS**

During the Delivery Period, except to the extent any Unit is in an Outage, or is affected by an event of Force Majeure that results in a partial or full Outage of that Unit, Seller shall either schedule or cause the Unit's Scheduling Coordinator to schedule with, or make available to, the CAISO each Unit's Designated RA Capacity in compliance with the Tariff, and shall perform all, or cause the Unit's Scheduling Coordinator, owner, or operator, as applicable, to perform all obligations under the Tariff that are associated with the sale of Designated RA Capacity hereunder. Buyer shall have no liability for the failure of Seller or the failure of any Unit's Scheduling Coordinator, owner, or operator to comply with such Tariff provisions, including any penalties or fines imposed on Seller or the Unit's Scheduling Coordinator, owner, or operator for such noncompliance.

**6.**

- [REDACTED]
- [REDACTED]
- [REDACTED]
- [REDACTED]

**7.  
SECURED OBLIGATIONS**

[REDACTED]

**8.**

**OTHER BUYER AND SELLER COVENANTS**

**8.1.** Buyer and Seller shall, throughout the Delivery Period, take all commercially reasonable actions and execute any and all documents or instruments reasonably necessary to ensure Buyer's right to the use of the Contract Quantity for the sole benefit of Buyer's RAR, LAR and/or FCR, as applicable, or that of a Subsequent Buyer under Article 11. Such commercially reasonable actions (neither Party shall be required to spend more than \$10,000 in total under the Agreement in support of such actions) shall include, without limitation:

- (a) Cooperating with and providing, and in the case of Seller causing each Unit's Scheduling Coordinator, owner, or operator to cooperate with and provide requested supporting documentation to the CAISO, the CPUC, or any other Governmental Body responsible for administering RAR, LAR and/or FCR under Applicable Laws, to certify or qualify the Contract Quantity as RA Capacity and Designated RA Capacity. Such actions shall include, without limitation, providing information requested by the CAISO, the CPUC, or by an LRA having jurisdiction, to demonstrate for each month of the Delivery Period the ability to deliver the Contract Quantity from each Unit to the CAISO Controlled Grid for the minimum hours required to qualify as RA Capacity, and providing information requested by the CPUC, the CAISO or other Governmental Body having jurisdiction to administer RAR, LAR or FCR to demonstrate that the Contract Quantity can be delivered to the CAISO Controlled Grid, pursuant to "deliverability" standards established by the CAISO, or other Governmental Body having jurisdiction to administer RAR, LAR and/or FCR; and
- (b) Subject to Section 4.4, negotiating in good faith to make necessary amendments, if any, to this Confirmation to conform this Transaction to subsequent clarifications, revisions, or decisions rendered by the CPUC, CAISO, FERC, or other Governmental Body having jurisdiction to administer RAR, LAR and FCR, in each case occurring after the Confirmation Effective Date, so as to maintain the benefits of the bargain struck by the Parties on the Confirmation Effective Date.

**8.2 Seller represents, warrants and covenants to Buyer that, throughout the Delivery Period:**

- (a) Seller owns or has the exclusive right to the RA Capacity sold under this Confirmation from each Unit, and shall furnish Buyer, CAISO, CPUC or other jurisdictional LRA, or other Governmental Body with such evidence as may reasonably be requested to demonstrate such ownership or exclusive right;
- (b) No portion of the Contract Quantity has been committed by Seller to any third party in order to satisfy RAR, LAR, FCR or such analogous capacity obligations in CAISO markets, other than pursuant to an RMR Agreement between the CAISO and either Seller or the Unit's owner or operator;
- (c) No portion of the Contract Quantity has been committed by Seller in order to satisfy RAR, LAR, FCR, or analogous capacity obligations in any non-CAISO market;
- (d) Each Unit is connected to the CAISO Controlled Grid, is within the CAISO Control Area, or is under the control of CAISO;
- (e) The owner or operator of each Unit is obligated to maintain and operate each Unit using Good Utility Practice and, if applicable, General Order 167 as outlined by the CPUC in the Enforcement of Maintenance and Operation Standards for Electric Generating Facilities Adopted May 6, 2004, and is obligated to abide by all

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Applicable Laws in operating such Unit; provided, that the owner or operator of any Unit is not required to undertake capital improvements, facility enhancements, or the construction of new facilities;

- (f) The owner or operator of each Unit is obligated to comply with Applicable Laws, including the Tariff, relating to RA Capacity and, as applicable, RAR, LAR and/or FCR;
- (g) If Seller is the owner of any Unit, the respective cumulative sums of LAR Attributes, RAR Attributes, and FCR Attributes that Seller has sold, assigned or transferred for any Unit does not exceed that Unit's RA Capacity;
- (h) With respect to the RA Capacity provided under this Confirmation, Seller shall, and each Unit's SC is obligated to, comply with Applicable Laws, including the Tariff, relating to RA Capacity, and RAR, LAR and FCR;
- (i) Seller has notified the SC of each Unit that Seller has transferred the Designated RA Capacity to Buyer, and the SC is obligated to deliver the Supply Plans in accordance with the Tariff;
- (j) Seller has notified the SC of each Unit that Seller is obligated to cause each Unit's SC to provide to the Buyer, by the Notification Deadline, the Designated RA Capacity of each Unit that is to be submitted in the Supply Plan associated with this Agreement for the applicable period; and
- (k) Seller has notified each Unit's SC that Buyer is entitled to the revenues set forth in Section 4.10 of this Confirmation, and such SC is obligated to promptly deliver those revenues to Buyer, along with appropriate documentation supporting the amount of those revenues.

**9.  
ASSIGNMENT**


Buyer may assign its interest in this Confirmation to Member effective upon written notice to Seller, provided that any such assignment shall only be effective if: (i) Member and this Agreement shall remain subject to the Security Agreement, or (ii) Member has provided other Performance Assurance in an amount and form reasonably acceptable to Seller.

**10.  
CONFIDENTIALITY**

Notwithstanding Section 10.11 of the Master Agreement, the Parties agree that Buyer may disclose information regarding this Transaction to any Governmental Body, the CPUC, the CAISO or any LRA having jurisdiction as necessary to support its LAR Showings, RAR Showings, and/or FCR Showings, as applicable, and Seller may disclose information regarding this Transaction to the SC of each Unit in order for such SC to timely submit accurate Supply Plans. Buyer may also disclose to any Subsequent Buyer whatever information regarding this Transaction is commercially reasonable for such party to evaluate the re-sale; provided that any Subsequent Buyer agrees in writing to maintain the confidentiality of such information consistent with this Section 8. Upon request or demand of any third person or entity not a Party hereto to Buyer pursuant to the California Public Records Act for production, inspection and/or copying of confidential information regarding this Transaction, Buyer will as soon as practical notify Seller in writing via email that such request has been made. Seller will be responsible for taking whatever legal steps are necessary to prevent Buyer's release of such information to the third party. Seller acknowledges that Buyer is a public agency subject to the requirements of the California Public Records Act (Cal. Gov. Code section 6250 et seq.).



**11.  
BUYER'S RE-SALE OF PRODUCT**

- (a) Buyer may re-sell all or a portion of the Contract Quantity of Product hereunder; provided, however, that (i) any Subsequent Buyer assumes all of Buyer's obligations and liabilities hereunder, and (ii) any such re-sale does not increase Seller's obligations or liabilities hereunder. Seller will, or will cause the Unit's SC, to follow Buyer's instructions with respect to providing such resold Product to Subsequent Buyers, to the extent such instructions are consistent with Seller's obligations under this Confirmation. Seller will, and will cause the Unit's SC, to take all commercially reasonable actions and execute all documents or instruments reasonably necessary to allow such Subsequent Buyers to use such resold Product in a manner consistent with Buyer's rights under this Confirmation. If Buyer incurs any liability to a Subsequent Buyer due to the failure of Seller or the Unit's SC to comply with this Confirmation, Seller will be liable to Buyer for the same amounts Seller would have owed Buyer under this Confirmation if Buyer had not resold the Product.
  
- (b) 
  
- (c) If CAISO or CPUC develops a centralized capacity market, Buyer will have exclusive rights to direct Seller to offer, bid, or otherwise submit the applicable Contract Quantity of Product for each day during the Delivery Period provided to Buyer pursuant to this Confirmation for re-sale in such market, and Seller and the Unit's SC shall comply with Buyer's direction and Buyer shall retain and receive all revenues from such re-sale. Seller agrees to take all commercially reasonable actions to assist Buyer with such re-sale, provided that Seller's obligation to assist shall not require modification of any of the commercial terms of this Confirmation.

**12.  
MARKET BASED RATE AUTHORITY**

Seller agrees, in accordance with Federal Energy Regulatory Commission (FERC) Order No. 697, to, upon request of Buyer, submit a letter of concurrence in support of any affirmative statement by Buyer that this contractual arrangement does not transfer "ownership or control of generation capacity" from Seller to Buyer as the term "ownership or control of generation capacity" is used in 18 CFR Section 35.42. Seller also agrees that it will not, in filings, if any, made subject to Order Nos. 652 and 697, claim that this contractual arrangement conveys ownership or control of generation capacity from Seller to Buyer.

**13.  
COLLATERAL REQUIREMENTS**



*[Signatures appear on the following page.]*

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**ACKNOWLEDGED AND AGREED TO AS OF THE CONFIRMATION EFFECTIVE DATE**

**Calpine Energy Services, L.P.**

**California Choice Energy Authority, a California  
joint powers authority**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**Acknowledged:**

**Town of Apple Valley**

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Calpine Deal:

Appendix A

