ATTACHMENT B
“Conformed” Version of D.09-12-042
Decision 09-12-042, as modified by D.10-04-055 and D.10-12-055, as modified by D.11-04-033

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking on the Commission's Own Motion into Combined Heat and Power Pursuant to Assembly Bill 1613.

DECISION ADOPTING POLICIES AND PROCEDURES FOR PURCHASE OF EXCESS ELECTRICITY PURSUANT TO CALIFORNIA ASSEMBLY BILL 1613 AND THE PUBLIC UTILITY REGULATORY POLICIES ACT OF 1978
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DECISION ADOPTING POLICIES AND PROCEDURES FOR PURCHASE OF EXCESS ELECTRICITY PURSUANT TO CALIFORNIA ASSEMBLY BILL 1613 AND THE PUBLIC UTILITY REGULATORY POLICIES ACT OF 1978

1. Summary

This decision adopts the policies and procedures for purchase of excess electricity from eligible combined heat and power (CHP) systems by an electrical corporation pursuant to Assembly Bill (AB) 1613 and the Public Utility Regulatory Policies Act of 1978 (PURPA).¹ The decision adopts two separate contracts for the purchase of excess electricity from eligible CHP systems. A standard contract will be available to all eligible CHP systems up to 20 megawatts (MW) and a simplified contract will be available to CHP systems that export no more than 5 MW. Investor-owned utilities’ (IOUs) offers under the AB 1613 contracts will be based on the long run avoided costs of a new combined cycle gas turbine, and a location bonus based on avoided transmission and distribution costs shall be available to eligible CHP systems located in high-value areas identified pursuant to an analysis performed by the California Independent System Operator Corporation (CAISO). Unless otherwise excepted, all California electrical corporations shall be required to offer these contracts. This rulemaking remains open to address implementation of a “pay-as-you-save” program.²

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¹ PURPA is codified in scattered sections of 16 U.S.C. including § 796 (definitions), § 824a-3, and §§ 2601 et seq.

² Implementation of a “pay-as-you-save” program was addressed in D.11-01-010 and this proceeding was closed pursuant to that decision.
2. Background

On June 26, 2008, we opened this rulemaking to implement the provisions of Assembly Bill (AB) 1613, codified as Pub. Util. Code §§ 2840 et seq. (Stats. 2007, ch. 713.) AB 1613 established the Waste Heat and Carbon Emissions Reduction Act which relates to the utilization of excess waste heat through combined heat and power (CHP) technologies. The legislation expresses the intent to support and facilitate both consumer and utility-owned CHP systems and imposes certain requirements on the Commission, the California Energy Commission (CEC), the California Air Resources Board (ARB) and electric corporations.

The Scoping Memo and Ruling of Assigned Commissioner and Administrative Law Judge (Scoping Memo) issued on November 4, 2008, divided this proceeding into two phases. The first phase of this proceeding addresses the policies and procedures for purchase of excess electricity from eligible CHP systems, including the development of a standard contract. The Scoping Memo directed the Commission’s Energy Division staff to prepare a draft proposal for consideration and discussion at a workshop. On February 3, 2009, Energy Division staff submitted its proposed policies and procedures for purchase of excess electricity in the form of a draft AB 1613 contract (Staff Proposal). A workshop was held to discuss the Staff Proposal on February 27, 2009. Prior to the workshop, pre-workshop comments were filed by Fuel Cell Energy, Inc. (Fuel Cell), Southern California Edison Company (SCE), San Diego Gas & Electric Company (SDG&E), Energy Producers and Users Coalition

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3 CHP (sometimes referred to as cogeneration) is the production of two kinds of energy — electricity and thermal heat — from a single source of fuel.
(EPUC), California Cogeneration Council (CCC), Sierra Pacific Power Corp. (Sierra Pacific), California Clean DG Coalition (CCDC), The Utility Reform Network (TURN), and Pacific Gas and Electric Company (PG&E).

Following the workshop, the assigned Commissioner and Administrative Law Judge (ALJ) issued an Amended Scoping Memo which directed parties to work together to review the Staff Proposal and propose specific revisions to the terms and conditions of the draft AB 1613 contract. Parties were also asked to brief four additional issues.4

A Working Group, consisting of the IOUs, governmental entities, smaller utilities, CHP representatives, consumer groups and other interested parties, met during April and May to review the Staff Proposal and proposed changes. The Working Group’s report (Working Group Report) was submitted on May 15, 2009. Comments on the Working Group Report and in response to the four issues were filed on June 1, 2009 by SCE, SDG&E, PG&E, TURN, the Division of Ratepayer Advocates (DRA), EPUC, the California Independent Petroleum Association, Fuel Cell, jointly by Merced Irrigation District and Modesto Irrigation Districts (jointly, Irrigation Districts), and CCDC. Reply comments were filed on June 15, 2009 by PG&E, SDG&E, SCE, Fuel Cell, Irrigation Districts, Alliance for Retail Energy Markets (AREM) and CCDC.

A simplified AB 1613 contract for small CHP systems was subsequently filed by the Working Group on June 30, 2009. Comments on this simplified

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4 These issues concerned whether a simplified contract should be developed, how the terms “indifference” and “benefitting customer” should be interpreted, and whether a maximum kilowatt limitation should be established.
contract were filed on July 10, 2009 by SCE, PG&E, jointly by SDG&E and Southern California Gas Company (SoCalGas), Fuel Cell and CCDC.

On July 31, 2009, Energy Division staff submitted its final proposal on the standard contract terms and pricing for eligible CHP systems (Final Staff Proposal). In developing the Final Staff Proposal, Energy Division staff proposed that the Commission use the following guiding principles:

- Expand the market for small to medium scale (i.e., systems no more than 20 megawatts (MW)), highly efficient CHP in California and in so doing provide significant greenhouse gas (GHG) emissions reductions.
- Be simple and transparent - terms and conditions should be the same for each utility.
- To the greatest extent possible, lower the transaction costs for the seller, the buyer, and the regulator.
- Equitably allocate financial risk, relative to project size, between the buyer and the seller.
- Facilitate interconnection of projects that efficiently utilize the existing distribution system.
- Complement, but not interfere with or replace, existing programs, such as the Self-Generation Incentive Program.
- Provide sufficient payment to stimulate untapped markets and build new projects, but not overpay.

Among other things, the Final Staff Proposal recommends:

- two separate contracts for purchase of excess electricity. A standard contract would be offered to all eligible CHP systems up to 20 MW, and a simplified contract would be offered to eligible CHP systems that export up to 5 MW;
- transferring all GHG attributes and GHG compliance costs, if any, to the buyer; and
- an interim cap of 500 MW on the amount of excess electricity to be purchased.
The Final Staff Proposal also proposed two options for the pricing of power and sought parties’ comments on these proposals.

Comments to the Final Staff Proposal were filed on August 24, 2009 by SCE, Fuel Cell, DRA, CCDC, jointly by SDG&E and SoCalGas, Sierra Pacific, Mountain Utilities, and jointly by PG&E and TURN. Reply comments were filed on September 4, 2009 by SCE, Fuel Cell, CCDC, jointly by PG&E and TURN, and jointly by CCC, EPUC and the Cogeneration Association of California.

3. Threshold Issues

3.1. Commission Authority to Establish AB 1613 Purchase Price

The primary issue of dispute in this proceeding has been the extent to which the Commission has authority to establish the price to be paid by electrical corporations to eligible CHP facilities, and if so, what this price must be. PG&E, SCE, and SDG&E/SoCalGas (collectively, the investor-owned utilities or IOUs) assert that since power sold under AB 1613 would be considered a wholesale transaction, the Commission has limited authority in setting the price for this feed-in tariff (FIT). They note that under the Federal Power Act (FPA), the Federal Energy Regulatory Commission (FERC) has sole jurisdiction to set rates for wholesale power sales to and by public utilities, unless the generator is a qualifying facility (QF). Therefore, the IOUs assert that if the AB 1613 CHP is not a QF, the price is solely within the FERC’s jurisdiction and must be based on

5 Under PURPA and the FERC regulations implementing PURPA, the states have been delegated authority to establish the rates for sale of power by QFs to the utilities at no more than avoided cost.
prices in the CAISO market. To the extent an AB 1613 CHP is a QF, the IOUs maintain that the Commission may only set prices at utility avoided cost.

We agree that the AB 1613 program must be implemented pursuant to PURPA, that AB 1613 CHPs must be QFs, and that the prices paid to them must not exceed utility avoided costs. We implement the AB 1613 program accordingly, while also meeting the legislative policy goals and requirements set forth in that statute.

3.2. **AB 1613 Policy Objectives And Requirements**

AB 1613 – The Waste Heat and Carbon Emissions Reduction Act – was enacted by the California Legislature in 2007 to be effective January 1, 2008, in order to further environmental objectives, particularly the reduction of GHG emissions. AB 1613 is codified at Public Utilities Code sections 2840 through 2845.

In short, AB 1613 requires the Commission to establish a “standard tariff” for qualifying CHP generators to sell their excess electricity to the utilities. AB 1613 anticipates that such a program will result in multiple benefits to California because it will:

-[(a)] advance the efficiency of the state’s use of natural gas by capturing unused waste heat, and in doing so, help offset the growing crisis in electricity supply and transmission congestion in the state.

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6 SCE Comments, June 1, 2009, at 8; PG&E Comments, June 1, 2009, at 2-3; SDG&E/SoCalGas Comments, June 1, 2009, at 2-3.

7 The methodology for calculating IOU payments for power purchased from QFs was adopted in Decision (D.) 07-09-040.

reduce wasteful consumption of energy through improved . . . utilization of waste heat whenever it is cost effective, technologically feasible, and environmentally beneficial, particularly when this reduces emissions of carbon dioxide and other carbon-based greenhouse gases.9

The AB 1613 program seeks to enhance the efficiency of an existing class of industrial boilers and reduce GHG emissions by providing incentives to install heat recovery steam generators and turbines (CHP systems) at the tail end of these existing units. AB 1613 CHPs will capture and make useful the energy already produced by boilers, which until now, had been discharged to the atmosphere as waste heat.10 AB 1613’s policy goal to reduce carbon-based emissions is part of the state’s overall objective to reduce GHG emissions, as articulated in Assembly Bill 32, California’s Global Warming Solutions Act of 2006 (Stats. 2006, ch. 488) (AB 32).11

To advance these goals beyond a traditional CHP program, an AB 1613 CHP must meet strict efficiency and emission requirements, including the following: at least a 60% Energy Conversion Efficiency; a nitrogen oxide (NOx) emission standard of 0.07 pounds per megawatt-hour (MWh); a GHG emission standard of no more than 1,100 pounds of carbon dioxide (CO2) equivalent emissions per MWh; and an allocation of any more stringent carbon emissions

9 Pub. Util. Code §§ 2840.6 (a) and (b)

10 This process and logic can be used to describe either topping-cycle or bottoming-cycle CHP; the policy goal to maximize the use of waste heat applies to both.

11 AB 32 requires, among other things, that the ARB adopt a statewide GHG emissions limit equivalent to the statewide GHG emissions levels in 1990, to be achieved by 2020, in consultation with this Commission and the CEC.
compliance costs, which the ARB may adopt under AB 32, and/or which the Federal government ultimately may impose.\textsuperscript{12}

AB 1613 also imposes requirements to ensure reliable and continuous onsite generation to address the state’s energy supply and transmission congestion challenges. An AB 1613 CHP must be sized to meet its onsite load, must “operate continuously in a manner that meets the expected thermal load,” and may only sell its excess power to the utilities.\textsuperscript{13} In exchange, the entire physical generating capacity of the AB 1613 CHP, not just the excess energy sold to the utility, counts towards the purchasing utility’s resource adequacy obligations.\textsuperscript{14}

3.3. Ratepayer Indifference

Pub. Util. Code § 2841(b)(4) states that ratepayers not utilizing CHP systems should be “held indifferent to the existence of this tariff.” Parties were asked how indifference should be determined under AB 1613. All parties state that establishing an “appropriate” level of pricing will ensure that ratepayers are indifferent to the existence of an AB 1613 tariff. However, there are varying opinions on what would be considered an appropriate level.

3.3.1. Parties’ Positions

SCE maintains that prices paid for power in the day-ahead CAISO market are the appropriate measure for ratepayer indifference because “the CAISO wholesale market is where SCE would buy power if an AB 1613 system did not

\textsuperscript{12} Pub. Util. Code § 2843.

\textsuperscript{13} See Pub. Util. Code §§ 2840.2 (a) and (e), 2841, and 2843, with quotation from § 2843 (a)(2).

\textsuperscript{14} Pub. Util. Code § 2841 (f).
produce power as expected.”\textsuperscript{15} SDG&E/SoCalGas contend that ratepayers not utilizing the CHP systems would be held indifferent only if the price is based on utility avoided cost or the CAISO day-ahead market, since these are the costs the utility would have otherwise paid for energy and capacity.\textsuperscript{16} PG&E agrees with SDG&E/SoCalGas and further states that certain non-price contract provisions, such as operational issues, may also result in higher costs to non-CHP customers. Therefore, it contends that any costs resulting from these non-price provisions must also be accounted for to ensure non-CHP customers will be held indifferent.\textsuperscript{17}

Fuel Cell maintains that customer indifference should not be defined by reference to utility avoided costs since QF pricing under PURPA is administratively established and must comply with Federal regulation.\textsuperscript{18} It points out that in contrast, AB 1613 specifies the criteria for participation in the program and that there is no requirement that a CHP facility have QF status. Fuel Cell argues that indifference under AB 1613 should take into account not only the price paid for power, but also all costs and benefits associated with AB 1613. It states these possible costs and benefits would include any above- or below-market costs for power, price paid for or value received from GHG

\textsuperscript{15} SCE Comments, June 1, 2009, at 8.
\textsuperscript{16} SDG&E/SoCalGas Comments, June 1, 2009, at 2-3. In contrast, SCE has argued that the currently-adopted methodology for calculating utility avoided cost is not the appropriate measure for ratepayer indifference as it does not believe this methodology results in prices that accurately reflect its true avoided costs. (SCE Comments, June 1, 2009, at 9.)
\textsuperscript{17} PG&E Comments, June 1, 2009, at 5-6.
\textsuperscript{18} Fuel Cell Comments, June 1, 2009, at 17.
emission reductions, resource adequacy benefits, and benefits associated with added distributed generation.

CCDC maintains that market-based pricing, such as the Market Price Referent (MPR), would ensure that ratepayers would be held indifferent to the existence of an AB 1613 tariff. It notes that the MPR has been used to determine the reasonableness of renewable energy contracts. Thus, similar to the finding of reasonableness in the context of renewable procurement, AB 1613 contracts based on MPR pricing could be considered “reasonable per se.” CCDC further asserts that AB 1613 contemplates that there will be benefits associated with the sale and purchase of excess energy. Thus it argues that any market-based pricing mechanism also includes the benefits of CHP to ensure indifference.

3.3.2. Discussion

Customer indifference is achieved when ratepayers not utilizing the CHP systems are no worse off, nor any better off, as a result of power purchased pursuant to AB 1613. Given that AB 1613 CHPs will, as discussed in Section 4.5.2 below, operate as firm resources, we believe that the customer indifference standard of AB 1613 is met by setting the price paid to the AB 1613 generators at the utilities’ avoided costs, as we propose to do here.

3.4. Benefiting Customers

Pub. Util. Code § 2841(e) requires that the costs and benefits associated with the new CHP tariff be allocated to all “benefiting customers” and that this term may include “bundled service customers of the electrical corporation, customers of the electrical corporation that receive their electric service through a

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19 CCDC Comments, June 1, 2009, at 11.
direct transaction, as defined in [Pub. Util. Code § 331(c)], and customers of an 
electrical corporation that receive their electric service from a community choice 
aggregator, as defined in [Pub. Util. Code] Section 331.1.” Parties were asked to 
comment how broadly this term should be construed for purposes of allocating 
the costs and benefits associated with the AB 1613 tariff.

3.4.1. Parties’ Positions

The IOUs advocate the broadest definition of “benefiting customer.” SCE 
states that “[t]o the extent the purpose of AB 1613 is to reduce carbon emissions, 
all residents of the state are “benefitting customers,” and the net costs should be 
spread equally among all bundled service customers, direct access (DA) 
customers and community choice aggregation (CCA) customers.” In support 
of its proposal, SCE notes that D.06-07-029 had allocated the benefits and costs of 
new generation to all customers in an IOU’s service territory. PG&E agrees 
with SCE, but notes that since it is not clear what benefits would result from the 
AB 1613 program, benefits should be allocated based on each customer group’s 
contribution to payment of above-market costs.

Irrigation Districts assert that the definition of “benefiting customer” is 
limited under AB 1613 to only three categories of electrical corporation 
customers: bundled service customers, DA customers, and CCA customers.

21 SCE Comments, June 1, 2009, at 16.
22 PG&E Comments, June 1, 2009, at 7.
23 Irrigation Districts Comments, June 1, 2009, at 3.
They note that since § 2841(e)\(^{24}\) only identifies three categories of customers, it would violate the rules of statutory interpretation to include customers of publicly owned utilities (POUs) in the term “benefiting customers.” Irrigation Districts list additional reasons why POU customers should not fall within the definition of “benefiting customer.” First, they note that POU customers generally receive electric and distribution service from a publicly owned utility and no services from the electrical corporation. Further, they state that POU customers do not fall within the definition of a DA customer as defined in § 331, or a CCA customer, as defined in § 331.1. Finally, Irrigation Districts state that POU customers who were formerly bundled service customers have, with the exception of large municipalizations, been excepted from any non-bypassable charges associated with “new world generation.”\(^{25}\) Thus, they contend that since generation contracted under AB 1613 is “new world generation,” even these POU customers should not be allocated any costs associated with it.

CCDC also argues that the Commission may only consider three categories of electrical corporation customers as “benefiting customers” under AB 1613.\(^{26}\) It raises many of the same arguments concerning statutory interpretation as Irrigation Districts. Thus, CCDC maintains the Commission

\(^{24}\) Unless otherwise noted, all further section references are to the California Public Utilities Code.

\(^{25}\) Irrigation Districts Comments, June 1, 2009, at 8 (citing D.08-09-012 at 12). In D.08-09-012, “new world generation” was defined as generation from both fossil-fueled and renewable resources contracted for or constructed by the investor-owned utilities subsequent to January 1, 2003.

\(^{26}\) CCDC Comments, June 1, 2009, at 12.
may only include one, two or all three of the customer categories listed in § 2841(e) in the term “benefiting customers.”

AReM asserts that costs should only be allocated to bundled customers. It notes that the proposed Standard Contract provides that all benefits under the contract, including all GHG-related rights and benefits, are to be conveyed to the buyer (i.e., electric corporation). As such, AReM asserts that only bundled customers will receive any of the benefits associated with power purchased under AB 1613. 27

AReM also disputes PG&E’s conclusion that above-market costs should be allocated to all customers. AReM notes that allocation of “above-market” costs is not included in the statute. It further notes that the name of the statute is not a basis for the cost allocation proposed by the IOUs, since all load serving entities, including electric service providers, are obligated to meet the State’s GHG requirements. As such, AReM believes allocation of costs to DA customers would be both anticompetitive and contrary to AB 1613.

Finally, AReM disputes the IOU’s proposals that existing Commission decisions concerning cost allocation should be applied to AB 1613. It contends that the allocation methodology adopted in D.06-07-029 is not applicable because the purpose of adopting a broad definition of benefiting customer in that decision was to meet a system reliability need. 28 AReM states that AB 1613 does not make any statements concerning a need to improve system reliability, but

rather includes a provision in the event procurement under the statute would adversely affect reliability.

AReM concedes that the Commission could impose a non-bypassable charge (NBC) on current bundled customers who later depart utility service and receive electric service from an electric service provider (ESP) or CCA, but contends that the mechanism adopted in D.08-09-012 is not wholly applicable. AReM states that this is because D.08-09-012 does not include the allocation of benefits to these departing customers. Therefore, AReM maintains that if the Commission were to impose an NBC, it would need to conduct a separate proceeding to determine how to calculate and distribute the associated benefits with the departing load.29

3.4.2. Discussion

Parties’ comments raise two main considerations – which customer categories should be included in the term “benefiting customers” and what costs and benefits should be allocated to these benefiting customers. Both of these considerations must be addressed in order to properly allocate costs and benefits to ensure ratepayer indifference.

In determining which customer categories should be included in the term “benefiting customers,” we must first consider whether § 2841 expressly limits the term “benefiting customers” to the three customer categories listed in the statute, as has been proposed by some parties. Section 2841(e) states, in pertinent part:

For purposes of this section, “benefiting customers” may, as determined by the commission, include

bundled service customers of the electrical corporation, customers of the electrical corporation that receive their service through a direct transaction, as defined in subdivision (c) of Section 331, and customers of an electrical corporation that receive their electric service from a community choice aggregator, as defined in Section 331.1.

A proper reading of this language would indicate that the Commission is to determine which customers are to be included in the term “benefiting customers” and that these groups may include the three categories identified in the statute. However, there is nothing in the statute stating that these are the only customer categories to be included. If the Legislature had intended the list to be inclusive, the statute would have contained more limiting language, such as “may only include” or “shall be limited to.” However, it does not. Rather, § 2841(e) states that the term “may, as determined by the Commission, include” the categories listed. This language more reasonably supports a conclusion that the three categories listed in the statute were examples of what categories of customers could be considered “benefiting customers” and not an exhaustive list. As such, our consideration of which customer categories should be considered benefiting customers is not limited to the categories listed in § 2841(e), and may include other categories of customers.

We next consider which customer categories should be allocated the costs and benefits under AB 1613. AReM has argued that benefiting customers should be limited to only those customers that receive the power purchased under AB 1613, since the contract conveys all benefits, such as GHG-related attributes, to the buyer. In contrast, the IOUs have advocated a much broader definition of benefiting customer due to the policy objectives of AB 1613.
We do not agree that only bundled customers would receive benefits under AB 1613. Although the AB 1613 contracts have identified certain quantifiable benefits that shall be conveyed to the buyers, all customers will benefit from reduced GHG emissions, potential reduction in congestion and more efficient utilization of natural gas as a result of encouraging development of these CHP systems. Because all retail end-use customers will receive the beneficial attributes associated with these CHP systems, they would reasonably be considered “benefiting customers” under AB 1613.

All customers will benefit as a result of AB 1613 and, thus, should bear some responsibility for costs associated with these tariffs and contracts. Accordingly, we find that “benefiting customers” shall include all retail end-use customers within the service territory of the electrical corporation.

Although we find that the term “benefiting customer” is not constrained to the categories identified in § 2841(e) and should be construed broadly, we agree with Irrigation Districts that POU customers should not be included in the definition of benefiting customer. As Irrigation Districts note, § 2841.5 requires POUs, such as Irrigation Districts, to establish their own program for purchase of power under AB 1613.

Although AB 1613 provides that the benefits and costs of the electrical corporation’s tariff be allocated to all benefiting customers, it does not include a similar provision for a program developed by a POU. Thus, a POU’s customers would bear all responsibility for costs under the POU’s program, even though all retail end-use customers would receive the intangible benefits associated with this power. We do not believe that the Legislature intended to have POU customers bear a greater responsibility for costs under AB 1613 than other categories of customers when all customers would benefit equally. Accordingly,
it would be unfair for a POU customer to be included as a benefiting customer under § 2841(e) since AB 1613 requires the POU to implement its own program. Based on these considerations, we find that “benefiting customers” shall consist of bundled service customers and customers receiving service from either an ESP or a CCA.

The second consideration is what costs should be allocated to the benefiting customers. AB 1613 requires the costs and benefits associated with any tariff or contract entered into pursuant to the AB 1613 program to be allocated to all benefiting customers. As we discussed in Section 3.2 above, the purpose of this FIT is to encourage the development of a certain type of CHP system that provides certain energy efficiency and environmental attributes. The price utilities pay to AB 1613 generators procures these energy efficiency and environmental attributes.

In this instance, we believe it would be reasonable to allocate the costs associated with the benefits to encourage development of this type of CHP system to all benefiting customers. As discussed in this decision, pricing offered under the contracts shall include costs associated with GHG attributes, in the form of GHG compliance costs, and an adder for locating within specified location constrained areas. Since these costs would directly be associated with the benefits received by all customers, it would be reasonable to allocate these costs among all customers.

In light of these considerations, we find that the costs associated with the intangible benefits should be allocated to all benefiting customers. This shall be the costs associated with GHG attributes and for locating within certain load areas and will be allocated to benefiting customers on an equal cents/kilowatt-hour (kWh) basis. Calculation of the costs, and allocation among benefiting
customers, shall be included in the electrical corporation’s annual Energy Resource Recovery Account (ERRA) proceeding.

3.5. **Program Cap**

AB 1613 provides that “[t]he commission may establish a maximum kilowatt-hours (kWh) limitation on the amount of excess electricity that an electrical corporation is required to purchase if the commission finds that the anticipated excess electricity generated has an adverse effect on long-term resource planning or reliable operation of the grid.”\(^{30}\) The Final Staff Proposal recommends that the Commission adopt an interim statewide cap of 500 MW, based on the export capacity of participating CHP, which would be adjusted as part of each IOU’s long-term procurement planning process.

3.5.1. **Parties’ Positions**

The IOUs support the adoption of a program cap. SDG&E/SoCalGas contend that if the AB 1613 program were open-ended, it could be faced with the prospect of having to take power that is not needed.\(^{31}\) Additionally, they present various situations that they believe would justify a limitation on the amount of excess electricity that they should be required to purchase. These include procurement under the state’s renewables portfolio standards (RPS) goals and the possible lifting of the suspension of direct access.

SCE contends that AB 1613 establishes a must-take obligation to purchase CHP power, and thus, a kWh limitation is necessary to ensure that there is no adverse effect on long-term resource planning and reliable operation of the grid.

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\(^{31}\) SDG&E/SoCalGas Comments, June 1, 2009, at 4; SDG&E/SoCalGas Comments, August 24, 2009, at 9-10.
grid.\textsuperscript{32} SCE also points to other state mandates, including energy efficiency and procurement of renewable power, that it believes necessitate establishing a limitation on the amount of power purchased under AB 1613. Therefore, it recommends that the Commission work with the CAISO to determine what this limitation should be. SCE does not oppose Energy Division staff’s recommendation for a 500 MW statewide cap, but continues to recommend that the Commission work with the CAISO to establish a program limitation that considers reliability and system effects.\textsuperscript{33}

PG&E also supports establishing an MW cap. It lists a variety of factors that should be considered before an MW cap could be established. Therefore, it recommends that a workshop be held to determine the numeric cap or that the amount be set at 1\% of a utility’s peak demand.\textsuperscript{34}

Fuel Cell opposes setting any maximum MW limitation. It contends that there is no record to support a finding that purchases under AB 1613 would have an adverse impact on long-term resource planning or reliable operation of the grid.\textsuperscript{35} It contends that participation in the AB 1613 program will be influenced by pricing and other contract terms and conditions. Thus, it recommends the IOUs should only submit a request for a cap if and when the program results in adverse impacts on planning or reliability. Fuel Cell states that if the Commission does set a cap, it should be considered interim, “with the

\textsuperscript{32} SCE Comments, June 1, 2009, at 10.
\textsuperscript{33} SCE Comments, August 24, 2009, at 23.
\textsuperscript{34} PG&E Comments, June 1, 2009, at 8.
\textsuperscript{35} Fuel Cell Comments, June 1, 2009, at 20.
understanding that the program should be expanded over time to help meet longer-term program capacity goals.”

CCDC similarly opposes establishing any limit at this time. It contends that many of the concerns raised by the IOUs in support of a limit are hypothetical and notes that AB 1613 includes safeguards against the scenarios presented by the IOUs. Therefore, CCDC believes that consideration of a kWh limit should not occur until the Commission finds that sale of excess power under the program does in fact have an adverse effect on long-term resource planning and grid reliability. Nonetheless, CCDC states that if an interim cap of 500 MW, allocated proportionally among the electric corporations, is adopted, this cap should be monitored on an on going basis and adjusted before purchases meet that interim cap.

3.5.2. Discussion

Pub. Util. Code § 2841(a) allows the Commission to “establish a maximum kilowatt hours limitation on the amount of excess electricity that an electrical corporation is required to purchase if the commission finds that the anticipated excess electricity generated has an adverse effect on long-term resource planning or reliable operation of the grid.” Although the IOUs have presented various situations that they believe justify establishing a program limitation, most of them are speculative. We agree with Fuel Cell that participation in the AB 1613 program will be influenced by pricing and other contract terms and conditions.

38 CCDC Comments, August 24, 2009, at 5.
At this point, we find no basis to conclude that the pricing or contract terms adopted in this decision would present an immediate adverse effect on an electrical corporation’s long-term resource planning or reliable operation of the grid. Further, any MW limitations should be imposed based on the specific effect of eligible CHP systems on a particular electrical corporation.

Accordingly, we decline to adopt staff’s recommendation to adopt an interim statewide cap of 500 MW for the AB 1613 program at this time. Should an electrical corporation subsequently find that the number of eligible CHP systems participating in this program has an adverse impact on its long-term resource planning or system reliability, it may file an application seeking authorization to establish a maximum kilowatt hours limitation on the amount of excess electricity it must purchase under this program.

4. **Pricing**

AB 1613 authorizes the Commission to require electrical corporations to offer to purchase “excess electricity” from eligible CHP customer generators and requires the Commission to “ensure that ratepayers not utilizing combined heat and power systems are held indifferent to the existence of this tariff.”

The Final Staff Proposal offered two pricing options. Pricing Option 1 is a proxy market price that includes fixed and variable inputs, and is meant to reflect the cost of operating a “proxy” combined-cycle gas turbine (CCGT) that would be avoided if not for eligible CHP. Pricing Option 2 is based on the generation component of the retail rate tariff applicable to the host customer where the eligible CHP is installed. Parties were asked to comment on the

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advantages and disadvantages of each pricing option and the appropriateness of each option relative to the ratepayer indifference provision in § 2841(b)(4).

4.1. Pricing Option 1

Staff’s Pricing Option 1 is a proxy market price based on the costs of a new CCGT. The pricing formula uses many inputs from the 2008 MPR, including the fixed costs associated with a new CCGT (minus GHG compliance costs\textsuperscript{40}), variable operations and maintenance costs estimated for such a plant and the heat rate assumed for such a plant. Staff’s pricing formula uses variable monthly natural gas prices based on actual market indices, instead of a forward gas price estimate like the MPR. The result of this pricing formula is an all-in price (in $/kWh) adjusted for time of delivery (based on MPR time of delivery (TOD) factors) that an eligible CHP facility would receive for every kWh of exported electricity. Staff proposes that a CCGT represents a reasonable proxy for the generation that a utility would have to procure if not for a CHP facility participating in this program. Staff also notes that since the inputs to this pricing formula have been litigated by parties in a prior Commission proceeding, these costs reasonably reflect the costs of a proxy CCGT.

SCE takes exception to the use of MPR inputs in a pricing formula for CHP. SCE argues that the MPR, which was intended as benchmark price for renewable procurement, “is not a proxy for avoided cost, and will result in a highly inflated price for CHP power.”\textsuperscript{41} SCE notes that the MPR uses a 20-year physical life of the generator and assumes the CCGT will never be dispatched.

\textsuperscript{40} See section 5.3.2.1 for discussion of GHG compliance cost allocation.

\textsuperscript{41} SCE Comments, August 24, 2009, at 9.
As such, SCE believes Option 1 would result in prices above its avoided cost. PG&E and TURN argue that the MPR is calculated to approximate the all-in costs of a fully-dispatchable CCGT that provides “firm” power, and is therefore inappropriate for a customer-owned CHP facility providing as-available power.42

SDG&E/SoCalGas appear to agree with staff’s basic assertion that a CCGT is a reasonable proxy for avoided cost of power produced by a CHP facility.43 They note that, “small CHP facilities will have a baseload or mid-merit grid export profile, so that its export profile is closest to that of a CCGT.”44 However, SDG&E/SoCalGas note several differences between the operating profile of a CCGT and a CHP facility, namely that a CCGT can provide firm power and ancillary services. Thus, while SDG&E/SoCalGas do not object to Option 1, they do note that the data inputs would need to be measured correctly.

CCDC and Fuel Cell support Pricing Option 1, and assert that it would serve as an appropriate measure of ratepayer indifference. Both parties note that the fixed inputs in the formula, as well as the direct link between the variable gas price input and known index prices, provide pricing certainty that will facilitate financing of CHP facilities. CCDC further requests that the Commission adopt a process for updating the fixed components of the formula over time.

4.2. Pricing Option 2

Staff’s Pricing Option 2 would provide payment to an eligible CHP facility for excess electricity delivered to the grid at a price based on the generation


43 As with PG&E/TURN, SDG&E/SoCalGas question whether paying a firm price for as-available capacity would be consistent with ratepayer indifference.

44 SDG&E/SoCalGas Comments, August 24, 2009, at 3.
component of the host customer’s otherwise applicable tariff. The exact amount of the price paid under this option will vary depending on a host customer’s tariff and utility territory. Staff notes that under this option, the price paid for excess electricity will more closely reflect the cost of the electricity a host customer avoids when the CHP generation serves onsite load. Staff believes that this would attach a consistent value to all electricity generated by a CHP facility whether it offsets onsite load or is exported to the grid.

SCE, SDG&E/SoCalGas, and PG&E/TURN present various arguments against this pricing option. PG&E/TURN note that the “average generation cost” in the retail rate reflects embedded costs, including above-market legacy costs and therefore does not reflect the marginal cost of generation avoided by an eligible CHP facility. SCE contends that since Option 2 is based on average cost of generation and not market cost, it does not reflect the actual cost that a utility would have avoided but for the excess electricity from the CHP system.45 SCE and PG&E/TURN also note that the variability in retail rates across customer classes, which can be as high as a factor of two, does not reflect actual avoided costs and “thwarts the concept of ratepayer indifference.”46 SDG&E/SoCalGas echo the opposition raised by SCE and PG&E/TURN. They further assert that failing to link actual fuel input costs with the price paid under the tariff could create operational problems for CHP and potentially result in grid reliability problems.47

45 SCE Comments, August 24, 2009, at 11.
46 PG&E/TURN Comments, August 24, 2009, at 12.
47 SDG&E/SoCalGas Comments, August 24, 2009, at 5.
CCDC notes that Pricing Option 2 will result in significant complexity and increased transaction costs for CHP customers. CCDC points out that because retail rates are regularly updated in each utility’s rate cases, CHP parties would have to regularly participate in those rate cases to ensure that “the component(s) of utility rates used as the basis for AB 1613 pricing meet the criteria of AB 1613.” SDG&E and SoCalGas also note the significance of rate case participation. They further contend that rates in SDG&E territory were established by settlement among parties, and paying CHP for excess electricity based on the rate was not contemplated by negotiating parties.

DRA calculates that the actual price under pricing Option 2 is lower than the price under Pricing Option 1 in 4 out of 5 comparable time of use periods in both SCE and PG&E territories. Based on this, “DRA concludes that Option 2 is a superior pricing scheme to meet ratepayer indifference.”

4.3. Objections to Both Proposed Pricing Options

SCE and PG&E/TURN reject both pricing options proposed by staff as inappropriate. SCE asserts that both pricing options would violate the FPA, which, they argue, grants exclusive authority to FERC over wholesale price setting. PG&E/TURN take similar exception to staff’s pricing options, claiming that they would both violate the ratepayer “indifference” requirement in AB 1613.

SCE and PG&E/TURN assert that the pricing is limited, depending on whether the CHP facility has QF status, to either utility avoided cost or market

48 CCDC Comments, August 24, 2009, at 8.
49 DRA Comments, August 24, 2009, at 6.
pricing based on the CAISO day-ahead integrated forward market. SCE and PG&E/TURN maintain their proposed methods are the only ones permitted under the FPA and PURPA.

4.4. Location Bonus

At the initiation of this rulemaking, CCC filed comments noting that the Commission currently uses a model to calculate average T&D avoided cost values for each utility’s service area, by each utility division or planning region. CCC provided, as Attachment A to its comments, a sample of the T&D avoided costs calculated for each utility by the model (CCC Attachment A). The spreadsheet model is commonly referred to as the “E3 Model” in the parties’ comments. To calculate T&D avoided costs, the E3 Model relies upon each utility’s marginal T&D costs adopted in their general rate cases.

Based on the avoided cost numbers reflected in Attachment A, CCC proposed to pay an avoided T&D cost “adder” to AB 1613 generators located in areas that would produce higher than average avoided cost benefits to ratepayers, but did not specifically identify the amount of the adder. CCC proposed that the generators would cooperate with the utilities to identify the best areas to site such projects to generate the highest avoided costs. In making this proposal, CCC acknowledged that the utilities have traditionally argued against such a T&D avoided cost on the basis that such costs are “highly site-

50 PG&E/TURN Comments, August 24, 2009, at 9; SCE Comments, August 24, 2009, at 7-8.
51 CCC Comments, July 31, 2008.
52 CCC Comments, July 31, 2008, at 10-14 and Attachment A.
specific and that a case-by-case analysis is needed.”\textsuperscript{53} CCC noted that “to the
CCC’s knowledge, no CHP or renewable projects have ever been compensated
for such locational benefits.”\textsuperscript{54}

In commenting on the CCC’s proposal to identify T&D avoided costs, all
three utilities agreed that distributed generation facilities have the potential to
avoid T&D costs; however, each one argued that this proceeding was not the
forum for quantifying those costs.\textsuperscript{55} Among other things, they argued, as CCC
anticipated, that each DG facility must be considered separately, on a case-by-
case basis, to calculate such avoided costs. None of the utilities suggested that
the E3 Model avoided cost calculations provided in the CCC Attachment A were
inaccurate.

On August 4, 2009, an Administrative Law Judge’s ruling incorporated the
Final Staff Proposal into the record of the proceeding and requested party
comments on the proposal. The Final Staff Proposal suggested a 10% location
bonus under both proposed pricing options for any eligible CHP located in a
distribution or transmission constrained area. The Final Staff Proposal reasoned


\textsuperscript{54} CCC Comments, July 31, 2008, at p. 13.

\textsuperscript{55} See, e.g., SCE Comments, August 15, 2008, at 4 (“Thus, although SCE would agree
that generation systems can be used to defer T&D investment, it is unlikely that this
could or should be accomplished through enactment of this tariff.”); PG&E Comments,
August 15, 2008, at 7 (PG&E “agrees that, in situations where CHP units truly allow a
utility to avoid T&D costs, a benefit exists for its customers that would warrant paying
an additional amount. However, as the Commission has previously determined, such
‘right place, right time’ situations may be fairly rare, and depend on a number of
conditions being met for a T&D value to exist.”); see also, SDG&E/SoCal Gas
Comments, August 15, 2008, at 2 (outlining SDG&E’s 4 criteria proposal for when a
facility may qualify for T&D avoided costs, adopted in D.03-02-068).
that CHP systems situated in constrained areas could provide system benefits such as transmission and distribution upgrade deferrals and local grid stability and reliability. The Final Staff Proposal asked parties to comment on how to determine location or distribution constrained areas for purposes of applying this bonus.

SCE and PG&E/TURN argued that the proposed location bonus of 10% was unsupported by analysis and unreasonable. They also asserted that the “locational marginal price” (LMP) values in the CAISO market are the only accurate reflection of actual congestion and losses on the grid.” SCE also pointed out that adopting a generic location adder would be inconsistent with the generator-specific methodology adopted in D.03-02-068.

SDG&E/SoCalGas contended that if certain facilities received a bonus because of their favorable location, then facilities located in less than favorable locations should receive less. SDG&E/SoCalGas also contended that CHP located in its service territory is more valuable than CHP located elsewhere in the CAISO-controlled grid given the need for local resources in their service territory. They argued that locational value should only be provided to CHP located in areas with local resource adequacy requirements when contracting with the local utility.

59 SDG&E/SoCalGas Comments, August 24, 2009, at p. 6.
60 SDG&E/SoCalGas Comments, August 24, 2009, at p. 6.
CCDC and Fuel Cell supported the Final Staff Proposal’s location bonus. CCDC and Fuel Cell suggested that the location bonus should be provided to any location where the CAISO nodal LMP exceeds the zonal price.61

4.5. Discussion62

4.5.1. Pricing Options 1 and 2

As discussed in Section 3.1, we agree with SCE, PG&E, and TURN concerning our authority to set the price under AB 1613. The AB 1613 price must not exceed the utilities’ avoided costs pursuant to PURPA and we analyze staff’s pricing options with that obligation in mind.

Pricing Option 2 would provide for the IOUs to offer to pay for excess electricity from eligible CHP customer-generators based on the generation component of the customer’s retail rate. A major advantage of adopting this option would be the relative simplicity of applying this price, as it is the same price that eligible CHP generators receive for offsetting onsite electricity usage. However, many parties raise concerns with using this pricing approach, including the fact that retail rates are often the result of settlement agreements in the utility’s general rate case and are heavily tied to legacy contracts. Thus, these parties believe rates would not bear any resemblance to the actual cost of a marginal unit of generation avoided. DRA believes that Option 2 is a superior pricing scheme, but it is unclear whether this conclusion is based primarily on the fact that pricing under this option is generally lower than pricing under Option 1.

62 An additional pricing provision is discussed in Section 5.8 below in the event an AB 1613 CHP fails to comply with CEC certification requirements.
We are persuaded by the concerns raised that the generation component of retail rates may not reflect the cost of the energy avoided. As such, there is a risk Option 2 could result in payments to eligible CHP facilities at a price that would not hold non-participating ratepayers indifferent, and would violate our avoided cost obligations under PURPA. These considerations lead us to conclude pricing under the AB 1613 program should not be based on Option 2.

Pricing Option 1 would pay an eligible CHP customer-generator for excess electricity at a proxy market price, based on the avoided costs of procuring energy from a CCGT. Staff asserts that a CCGT represents a reasonable proxy for the marginal unit of generation avoided by an eligible CHP facility. As SDG&E and SoCalGas note in their comments, the operating profile of a CHP facility most closely resembles that of a CCGT. We find that a CCGT is a reasonable proxy for the marginal unit avoided by an eligible CHP facility and that the MPR-based price proposed as Option 1 reasonably approximates the costs of constructing and operating that marginal unit. The MPR is intended to represent the long term market price of electricity for fixed price contracts.63 The MPR is derived from the construction, operating and maintenance costs associated with a highly efficient 500 MW CCGT. The MPR inputs and methodology were developed pursuant to Public Utilities Code section 399.15(c) through a public process and the Commission relies on a public process to periodically update the MPR inputs and methodology.64


64 See, e.g., D.05-12-042; D.07-09-024; D.08-10-026; and the Commission’s MPR website at http://www.cpuc.ca.gov/PUC/energy/Renewables/mpr
Based on this history of the MPR, the fact that many of the pricing components of the MPR correspond to AB 1613’s pricing requirements, and the fact that we agree that the MPR’s CCGT unit is the unit most likely to be procured by the IOUs in the absence of the AB 1613 procurement obligation, we adopt staff’s proposed Option 1.

4.5.2. Firm vs. As-Available Energy

Several parties note that a CCGT represents a fully dispatchable resource and therefore provides greater value than CHP, which under this contract would be “as-available.” PG&E and TURN note that a CCGT under a utility’s operational control can be dispatched to aid the utility in serving load, while a CHP facility can appear and disappear from the system as the host customer’s thermal load requires. These parties therefore suggest that Pricing Option 1, which is based on the all-in costs of a CCGT, would overpay CHP under this program. SDG&E/SoCalGas suggest that Pricing Option 1, which is based on a CCGT providing firm capacity, would overpay eligible CHP under this program that will only provide as-available capacity. As its justification, SDG&E/SoCalGas point to the difference between as-available capacity prices and firm capacity prices adopted for Qualifying Facilities in D.07-09-040. Joint CHP Parties, in reply comments, disagree that CHP capacity is of lesser value than firm capacity, noting that “the long history of CHP facilities in California

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65 See Final Staff Proposal at 10.
66 PG&E/Turn Comments, August 24, 2009, at 10.
shows that CHP facilities of all sizes provide firm, reliable sources of generation.”67

We conclude that paying AB 1613 generators a price for as-available energy that is calculated based on the costs of constructing, operating, and maintaining a proxy baseload resource, consistent with Option 1, is appropriate and complies with our obligation to pay such resources no more than the IOUs’ avoided costs for several reasons, including those discussed below.

4.5.2.1. AB 1613 Requires Eligible CHPs to Operate As Firm Resources And Allows Procuring Utilities to Avoid Resource Adequacy Obligations

AB 1613 CHPs are required by statute to operate as firm resources. Public Utilities Code §§ 2843(a)(2) and (3) require that an eligible CHP system must “be sized to meet the eligible customer-generator’s thermal load,” and must “operate continuously in a manner that meets the expected thermal load and optimizes the efficient use of waste heat.” Consistent with this obligation, § 2841(f) provides that the utilities are entitled to count the firm resource towards their resource adequacy obligations. These obligations are reflected in Sections 1.02 and 3.02 of the pro forma contracts approved here, which require the generator to commit to an expected amount of energy production per term year and to pledge its generating capacity to the purchasing utility to use in meeting its resource adequacy obligations. Significantly, when a utility contracts with an AB 1613 CHP, it avoids a resource adequacy procurement obligation equivalent to the full capacity of the AB 1613 CHP (in other words, all of the power generated by the CHP), but the CHP is not paid for the full value of this avoided cost. Instead, the

generator only receives a payment for the excess energy it sells to the utility. Thus, this payment clearly does not exceed the utility’s avoided CCGT procurement costs.

**4.5.2.2. FERC Rulings Recognize A State’s Ability To Compensate QFs For Their Capacity Value**

Consistent with AB 1613 requirements, the Commission recognizes that an AB 1613 CHP will avoid capacity costs that the utility would otherwise incur, and we quantify those costs based on the marginal CCGT.

Reliance on a CCGT as the marginal unit is reasonable because it is much more likely that the Joint Utilities would seek to meet the baseload needs served by AB 1613 CHPs through a long term contract with a new, highly efficient CCGT. Among other things, the Commission’s emission performance standards adopted in D.07-01-039 would likely compel such an outcome. That decision prohibits the utilities from entering into contracts of five years or longer with facilities that emit in excess of 1100 lbs/MWh of carbon dioxide equivalent. In effect, this means that the utilities are limited to procuring long term commitments\(^{68}\) for sales of electricity from CCGTs, renewables, other non-carbon emitting resources such as hydroelectric power, and CHPs.\(^{69}\)

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\(^{68}\) For GHG emissions purposes, Pub. Util. Code § 8340(f) defines a “Long-term financial commitment” to mean a new or renewed contract for a term of five years or more. Pub. Util. Code § 8341(a) prohibits the utilities from entering into contracts of 5 years or more for baseload generation that does not comply with the Commission’s GHG emission performance standards. While an AB 1613 CHP may contract for a term of one to ten years, we anticipate most AB 1613 CHPs to contract for ten years for financing purposes.

\(^{69}\) See, e.g., D.07-01-039 at Findings of Fact 2, 3, and 4.
A payment for capacity value based on avoided procurement is not new policy. FERC addressed this very issue when it adopted Order 69 implementing Section 210 of PURPA in 1980. In response to claims that avoided cost should not include capacity payments, FERC explained that purchases of power from QFs “will fall somewhere on the continuum between” firm and non-firm service or capacity and energy. For facilities that demonstrate “a degree of reliability that would permit the utility to defer or avoid construction of a generating unit or the purchase of firm power from another utility, then the rate for such a purchase should be based on the avoidance of both energy and capacity costs.”70 As AB 1613 CHPs must, pursuant to statute, provide this degree of reliability and allow the utility to avoid local resource adequacy procurement, they provide both energy and capacity and are properly compensated for both under the AB 1613 price formula.

4.5.3. Location Bonus

Historically, the Commission has agreed with the utilities that while distributed generation facilities unquestionably generate avoided T&D costs, a facility-specific analysis was required before a T&D avoided cost could be paid to generators. The Commission has therefore previously declined to adopt a uniform avoided cost calculation for T&D. Instead, D.03-02-068, issued February, 2003, established four facility-specific criteria to be met for a facility to qualify for avoided T&D costs. To our knowledge, which is consistent with CCC’s, no facility has ever qualified for T&D avoided costs under this test.

Notwithstanding the determinations in D.03-02-068, the Commission’s position on this matter has evolved over the last eight years in other proceedings so that today the E3 Model is used to calculate avoided T&D costs to determine the cost effectiveness of the utilities’ energy efficiency and demand response programs.71 The utilities benefit from the inclusion of uniform avoided T&D costs in these programs. The more cost-effective the program, because of the addition of T&D avoided costs, the more money utility shareholders may receive in the form of performance incentives.

We find merit to SDG&E/SoCal Gas’s contention that a location bonus is appropriate for generators located in areas with local resource adequacy (RA) requirements. As a result, we adopt a 10% location bonus for eligible CHP systems located in CAISO-identified location-constrained resource areas, which the Commission identifies as Local RA areas for purposes of establishing local RA procurement requirements.72

The Local RA program, approved in D.06-06-064, is intended to ensure that the utilities have acquired sufficient generation capacity to serve defined, transmission constrained local areas. Each year the Commission adopts Local RA requirements and identifies Local RA areas based on the CAISO’s annual

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71 The E3 Model for calculating avoided costs for energy efficiency was adopted in D.05-04-024 and updated in 2008 to apply to the utilities’ 2009-2011 energy efficiency portfolio plans. (Assigned Commissioner’s and Administrative Law Judge’s Ruling, R. 06-04-010, April 21, 2008.) These updates did not include changes to the methodology for calculating avoided T&D.

72 D.09-12-042 at 38-39.
study of local capacity requirements. The CAISO study identifies the specific substations included in each Local RA area – constrained areas that require the purchase of a specified amount of Local RA resources to avoid T&D system failures.

An AB 1613 CHP interconnected within any of the identified Local RA areas should receive the location bonus. We require each utility to make these location bonus areas, including the specific substations included in each area, publicly available on its website. This information is required to be updated each year upon adoption by this Commission of the Local RA program requirements. The location bonus is to be applied for the entirety of an AB 1613 CHP’s contract term based on the Local RA areas identified in the year the contract is executed.

To the extent that parties believe that the 10% location bonus does not reflect avoided cost, or will push the MPR-based price above avoided cost, they are wrong. As an initial matter, it should be noted that all of the utilities agree that distributed generation, which includes AB 1613 CHPs, results in avoided T&D investment. Nevertheless, the 10% location bonus will only be made available to new AB 1613 facilities constructed in Local RA areas. AB 1613 CHPs located in these Local RA areas will generate avoided costs to the utilities well above the 10% location bonus the utilities will pay them.

73 The CAISO’s 2008 Local Capacity Requirement (LCR) Study is available from the CAISO website, [http://www.caiso.com/1c44/1c44bbc954950.html](http://www.caiso.com/1c44/1c44bbc954950.html)

74 2010 Resource Adequacy program requirements were adopted by this Commission in D.09-06-028.
CCC Attachment A sets forth utility-specific avoided T&D costs by geographic “divisions” which average $5.60/MWh for PG&E’s service area, $6.66/MWh for SCE’s service area, and $13.03/MWh for SDG&E’s service area, assuming a baseload profile, which is the profile of an AB 1613 generator. Based on these average avoided costs for T&D, a 10% location bonus paid to CHP facilities located in Local RA areas for avoided T&D investment is a conservative estimate of the actual T&D costs avoided in Local RA areas for several reasons.

First, the 10% location bonus is only paid on the amount of energy sold to the utility, and not on the amount of energy that the utility avoids producing due to the existence of the AB 1613 generator. Thus, the AB 1613 CHP will receive a payment for far less than the T&D costs it actually avoids. For example, when a utility achieves 10 MWh in energy efficiency savings, it gets credit for 10 MWh of avoided T&D costs, measured by the E3 Model and reflected in the CCC Attachment A. However, if an AB 1613 generator generates 10 MWh of energy, but only sells 1 MWh to the utility, while it avoids 10 MWh of generation, and thus, produces savings similar to 10 MWh of energy efficiency, the AB 1613 generator is only paid the 10% location bonus on the 1 MWh sold to the utility. Pursuant to AB 1613, generators must size output to load and may only sell their excess power to the utility. Thus, any payment to an AB 1613 generator for avoided T&D costs will be less than actual T&D costs avoided.

Second, the CCC Attachment A averages calculated from the data provided in the E3 model are based on avoided T&D investment in the entire utility service area. The 10% adder will only be paid to generators located in Local RA areas, which are the most constrained resource areas and will therefore have the highest avoided T&D costs. For example, CCC Attachment A shows that avoided T&D costs are as high as $9.17/MWh in PG&E’s service area, $8.33
in SCE’s service area, and $13.03 in SDG&E’s service area. In that regard, the 10% Location Bonus based upon “average” T&D costs is a conservative estimate of the cost actually avoided by the utility for T&D. Further, the avoided T&D costs reflected in CCC Attachment A are likely to increase as a result of utility filings for increases in transmission rates at FERC, and increases in distribution rates in Commission proceedings.

In adopting the 10% location bonus for AB 1613 generators located in local RA areas, the Commission recognizes that it must be consistent with federal law and the bonus must be based on an actual determination of the expected avoided costs of T&D upgrades. However, the Commission has a great deal of discretion in determining this expected avoided cost. As the Ninth Circuit Court of Appeals recognized in Independent Energy Producers, the Commission has broad authority to implement Section 210 of PURPA, “states play the primary role in calculating avoided costs,” and states have “a great deal of flexibility … in the manner in which avoided costs are estimated …”\textsuperscript{75}

The U.S. Supreme Court’s holdings in American Paper support the Commission’s determination to adopt a uniform T&D avoided cost in the form of the 10% location bonus, instead of requiring the project-specific determination of prior years. In that case, the Supreme Court found that FERC appropriately adopted a uniform rule that every CHP was entitled to full avoided cost payments. Among other things, the Supreme Court referred to PURPA’s legislative history stating that such rate determinations should not be subject to the same level of scrutiny typically applied to utility rate applications. The

\textsuperscript{75} Independent Energy Producers Association, Inc. v. CPUC (9th Cir. 1994) 36 F.3d 848, 856.
Supreme Court quoted that legislative history at length, including the directive to encourage CHPs:

"Cogeneration is to be encouraged under this section and therefore the examination of the level of rates which should apply to the purchase by the utility of the cogenerator's or small power producer's power should not be burdened by the same examination as are utility rate applications, but rather in a less burdensome manner. The establishment of utility type regulation over them would act as a significant disincentive to firms interested in cogeneration and small power production."76

The Supreme Court examined FERC’s policy reasons for adopting the full avoided cost rule, instead of a generator-specific avoided cost. Among them, the Supreme Court recognized FERC’s desire to provide development incentives, and that such development would serve the public interest:

The Commission recognized that the full-avoided-cost rule would not directly provide any rate savings to electric utility consumers, but deemed it more important that the rule could "provide a significant incentive for a higher growth rate" of cogeneration and small power production, and that "these ratepayers and the nation as a whole will benefit from the decreased reliance on scarce fossil fuels, such as oil and gas, and the more efficient use of energy." [footnote omitted] 45 Fed. Reg. 12222 (1980).77

The Supreme Court properly noted that “[t]he Commission would have encountered considerable difficulty had it attempted to determine an

appropriate rate less than full avoided cost.”78 Similarly here, the Commission’s project-specific T&D adder has proven to be unworkable. To encourage CHP consistent with both federal and state law, the Commission adopts a uniform rule here to compensate AB 1613 CHPs located in Local RA areas for some portion of the T&D costs they allow the utility to avoid.

In summary, the 10% location bonus the Commission adopts here is consistent with FERC’s regulations because it is based on an actual determination of the utilities expected T&D costs, as established in their general rate cases and incorporated into the E3 Model relied on here. Based on these costs, and as explained above, the 10% location bonus is a conservative underestimate of the avoided T&D costs associated with AB 1613 generators situated in location constrained resource areas and will not result in AB 1613 generators receiving more than avoided costs for their energy sales to the utilities.

4.5.4. Use Of Most Current MPR Inputs

As discussed above, the Option 1 MPR-based price formula is based on the utilities’ avoided costs associated with the construction, operation, and maintenance of a combined cycle gas turbine. The MPR is set annually by the Commission in accordance with Pub. Util. Code § 399.15(c) and represents the long-term market price of electricity. The MPR is used as a benchmark in the RPS Program.

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77 Id. at 415.
78 Id. at 416.
The methodology for calculating the MPR was first developed in D.04-06-015. The methodology has been revised several times since, in D.05-12-042, D.07-09-042, and most recently in D.08-10-026. Each year the Energy Division updates the cost inputs and recalculates the MPR based on this methodology.

The AB 1613 price formula we adopt here utilizes several inputs from the MPR. These inputs include:

- Fixed Component = MPR fixed component for 10 year contract;
- Variable Operations & Maintenance = MPR variable Operations & Maintenance;
- Heat Rate\(^{79}\) = MPR average heat rate for a combined cycle gas turbine; and
- Time of Delivery periods and factors.

At the time the record for this proceeding was developed, the most current MPR available was the 2008 MPR and staff proposed using the 2008 MPR inputs.\(^{80}\) However, given our determination that the cost of a proxy natural gas generation resource should serve as a basis for determining the price to be offered to eligible CHP facilities under the AB 1613 program, it is reasonable that the price formula reflects the most current cost of a proxy natural gas generation resource. Since the MPR itself is not static, but is updated to reflect the dynamics of the market, it logically follows that the most current MPR inputs – rather than static 2008 MPR inputs - should be used in the price formula adopted here.

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\(^{79}\) Heat Rate is expressed as the number of British Thermal Units required to generate a kilowatt hour of electricity.

\(^{80}\) The Commission adopted the 2009 MPR on the same day that it adopted D.09-12-042.
Therefore, going forward, the price formula in the form contracts shall be updated to reflect the most current MPR.\textsuperscript{81}

As long as the MPR is calculated based on the costs of a proxy conventional natural gas generation resource, the four pricing components identified above from the most recent MPR shall be used in the AB 1613 price formula in order to determine the utilities’ avoided cost for this program. Each year, upon adoption by this Commission of a new MPR calculation, each IOU shall file a Tier 1 Advice Letter updating its AB 1613 tariffs and standard contracts with the new MPR inputs. The advice letters shall be filed and served within five days of the date that the order adopting the MPR is mailed. If, however, the MPR ceases to be based on a proxy natural gas generation resource or ceases to exist entirely, then the most recent MPR inputs that were developed using a proxy conventional natural gas generation resource shall continue to apply to AB 1613 contracts until otherwise modified by this Commission.\textsuperscript{82}

\textsuperscript{81} New contracts would utilize the 2009 MPR until the 2010 MPR is adopted by the Commission.

\textsuperscript{82} The pricing for executed contracts shall be based on the pricing inputs in effect at the time the contract was executed. We do not require parties to modify contracts that have already been executed because it is important to protect contract stability and the expectations of the contracting parties.
4.5.5. **Adopted Price Formula**

The adopted price formula for eligible CHP under this program is the following:

<table>
<thead>
<tr>
<th>Table 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Adopted Price Formula</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participating eligible CHP will receive an all-in price in $/kWh, based on a proxy market price for a new combined cycle gas turbine (CCGT) with adjustments for time of delivery (TOD)(^{83}).</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Fixed Component</th>
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</thead>
<tbody>
<tr>
<td>= Fixed Component of the MPR in effect at the time of contract execution for the year of the Term Start Date in $/kWh based on 10-year contract.(^{84})</td>
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<table>
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<tr>
<th>Variable Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>=(Monthly bidweek + Local gas transmission charge) * Heat Rate + Variable Overhead and Maintenance (O&amp;M)</td>
</tr>
<tr>
<td>Monthly bidweek = monthly bidweek gas price at PG&amp;E Citygate for PG&amp;E, and Topock for SCE and SDG&amp;E (monthly bidweek gas prices shall be calculated as the average of three bidweek gas indices as reported in Gas Daily, Natural Gas Intelligence, and Natural Gas Weekly)</td>
</tr>
<tr>
<td>Intrastate = tariffed intrastate gas transportation rate for large electric generators</td>
</tr>
<tr>
<td>Heat Rate = the average Heat Rate from the MPR in effect at the time the contract is executed</td>
</tr>
<tr>
<td>Variable O&amp;M = based on variable O&amp;M adder from the MPR in effect at the time the contract is executed.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Final Price (kWh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>=[(Fixed Component + Variable Component) * TOD factor] * 1.1 Location Bonus (if applicable)</td>
</tr>
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</table>

5. **Contract Terms and Conditions**

The Final Staff Proposal recommended various modifications to the standard contract and simplified contract proposed by the Working Group. This

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\(^{83}\) The Time of Delivery (TOD) factors and periods shall be the IOU’s Renewables Portfolio Standard TOD factors and periods in place at the time of contract execution. The TOD factors in place at the time of contract execution shall apply for the entire contract duration.

\(^{84}\) The chart here reflects changes ordered by D.10-12-055 regarding the fixed price component of the AB 1613 price formula and GHG compliance costs. See D.10-12-055 at pp. 10-14.
section addresses the major issues raised by the parties in both the Working Group reports and individual comments. Minor modifications recommended by staff and not discussed below are hereby accepted and reflected in the actual contracts. The standard contract is attached to this Decision as Attachment A and the simplified contract is attached as Attachment B.85

5.1. **Contract Sizing and Overview**

Staff proposed establishing two separate contracts, one for eligible CHP systems less than or equal to 20 MW, and another simplified contract for smaller CHP systems that export no more than 5 MW. The Final Staff Proposal recommends using the contracts submitted by the Working Group on May 15, 2009 and June 30, 2009, respectively, as the basis for these contracts.

Parties generally agree with establishing two contracts, one for larger facilities and a simplified contract for smaller facilities. The simplified contract filed by the Working Group on June 30, 2009 noted that SCE objected to the 5 MW maximum size for the simplified contract and instead preferred a 1 MW maximum size. PG&E, SDG&E, CCDC, and Fuel Cell all agreed to a 5 MW maximum export size for the simplified contract. In its comments to the Final Staff Proposal, SCE did not provide any further justification for its preferred 1 MW cutoff. Accordingly, we see no reason why the Working Group’s recommended 5 MW limitation should be lowered. We herein adopt two contracts, one for eligible CHP less than or equal to 20 MW (Attachment 1), and another simplified contract for smaller CHP systems that export no more than 5 MW (Attachment 2).

85 The Conformed Version of D.09-12-042 does not modify these Attachments.
CCDC requests an even further simplified contract for eligible CHP systems less than 500 kW, stating that many of the terms in the simplified contract are too onerous for these very small generators. In its reply comments, SCE notes that many of the terms CCDC identifies as onerous, such as requirements of the CAISO, may not even be applicable to very small generators. It further contends that many of the terms that CCDC seeks to change were the result of compromise between all parties and that CCDC fails to provide sufficient justification why an even further simplified contract is necessary.

In comments to the Proposed Decision, Fuel Cell notes that parties involved in negotiations to develop contract terms and conditions “agreed by consensus” not to discuss a contract for very small CHP in order to agree on terms for larger facilities. However, Fuel Cell notes that it would support further effort to develop a simplified contract for smaller facilities. CCDC also recommends that a separate contract for systems less than 500 kW should be developed. It states that CHP systems that are 500 kW or less would have minimal effect on an electrical corporation’s distribution system and should be allowed to participate under AB 1613 without undue costs and administrative burdens. Although we decline to adopt an even more simplified contract for eligible CHP systems exporting 500 kW or less in this decision, we believe that such a contract may be beneficial in encouraging smaller customer-generators to participate in the program. Therefore, parties shall work together to identify

87 CCDC Opening Comments to PD, November 19, 2009, at 7-8.
contract terms in the simplified contract terms that do not apply to very small CHP. Within six months of the effective date of this decision, each electrical corporation, unless otherwise excused, shall file a Tier 2 Advice Letter with a proposed contract for purchase of excess electricity from CHP systems exporting 500 kW or less. The Advice Letter shall include a redline version of the simplified contract showing the proposed contract terms to be deleted or revised, as well as an explanation why these deletions or revisions are needed.88

Finally, SCE notes that nothing in AB 1613 prohibits utility-specific differences, and points to differences in the utilities distribution and transmission system configurations as reason why differences in contracts may be appropriate. Except as discussed in Section 6.1 below, we find no compelling reason why these contracts should differ and direct all utilities to adopt the same contracts.

5.2. Maximum Contracting Under Simplified Contract (Simplified Contract Term 7.02(c))

SCE proposes that a single entity may not sign contracts for delivery of more than 20 MW using this simplified contract. No other parties support this requirement. The staff proposal recommended removing any limitation on the amount that any one entity could contract for under either contract.

SCE argues that since certain provisions such as credit and collateral were removed from the simplified contract, unlimited contracting by a single entity through this contract could create a concentration of risk for the utility and its

88 D.10-12-055 reset this 6-month deadline so that the advice letter deadline is now June 17, 2011.
ratepayers if that entity fails. SCE assumes that the risk of contract failure is multiplied by the number of projects developed by a single CHP generator.

We find SCE’s arguments unconvincing. The risk associated with an individual project is dealt with in the contract for that project. We believe the simplified contract adequately addresses risk relative to the size of the projects eligible for that contract. It is not clear that the risk of contract concentration perceived by SCE is real. For any individual project, there will be a range of stakeholders including host customer, project developer, and equipment manufacturer. The fact that a single entity may be involved in more than one project does not mean that if that entity fails, all projects associated with that entity would also fail. For example, it is conceivable that in the event of the failure by a single project developer involved in multiple projects, the host customers for those projects could simply find new developers. We also note that a limit on contracting by a single entity would be largely unenforceable. A single entity could easily establish affiliates expressly to get around this limitation.

Therefore, we do not find it appropriate or beneficial to impose a limit on how many contracts a single entity may enter into, whether for the simplified contract or the standard contract. It is not our intent to limit successful project developers or host customers interested in installing multiple projects at multiple sites from helping the state to achieve its GHG emissions reductions objectives.

5.3. Green Attributes and GHG Compliance Costs
(Simplified Contract Terms 3.01, 3.03 and Definitions; Standard Contract Term 3.01(b), 3.03 and Definitions)

A major point of discussion in the proceeding related to GHG compliance costs and green attributes associated with CHP, and how these costs and benefits
should be addressed in the contract. The Final Staff Proposal recommended that the Buyer (i.e., electrical corporation) should pay for GHG compliance costs for the excess electricity sold to the grid, and that any green attributes associated with the resource should transfer to the Buyer.

5.3.1. Parties’ Positions

SDG&E/SoCalGas agree that it is appropriate for the Buyer to pay for the GHG compliance costs for the emissions associated with the grid-delivered electricity. They contend, however, that the costs should be paid for once and only once. SDG&E/SoCalGas also suggest that given Pricing Option 1, the Buyer should pay up to the heat rate associated with the MPR and that the Seller should bear the rest of the GHG compliance cost for emissions associated with these less efficient units. SCE agrees with this idea of sharing GHG compliance costs; SCE suggests in its comments that the Buyer should pay for some form of compliance costs, depending on the pricing option. SCE further suggests that there should be some form of sharing because the Buyer does not have operational control. PG&E/TURN echo the concept of dispatch control as being important for GHG cost compliance. They state that the Buyer should not have to pay for emissions that could have been eliminated because of operational control.

89 SDG&E/SoCalGas Opening Comments, August 24, 2009, at 8-9.
90 PG&E/TURN Comments, August 24, 2009, at 3.
further suggest that since it is a customer investment, the Seller will not optimize its investment correctly if the Seller does not pay the GHG cost.

CCDC agrees that the Buyer should take on some form of GHG compliance cost but also points out the high amount of uncertainty associated with California’s emerging regulation of GHG. Fuel Cell also echoes that a straight pass-through of costs (i.e., the Buyer bears the GHG cost/allowance retirement obligation) is the best approach in light of this regulatory uncertainty.

Fuel Cell suggests that the Commission establish a GHG principle in this decision and suggests that once more information is known about the outcome of the ARB regulatory process, the Commission could order a change to the contract. CCDC also suggests that other green attributes, such as renewable energy credits (RECs), should not be bundled in the contract. CCDC asserts that if a renewable fuel is used, then it should be compensated as such. PG&E/TURN disagree with CCDC’s proposal. They note that these other environmental attributes are a component of the product being purchased.

5.3.2. Discussion

5.3.2.1. GHG Compliance Costs

In determining how to best allocate GHG compliance costs the Commission must acknowledge the preliminary and evolving nature of the GHG compliance regulatory regime. As the Final Staff Proposal noted:

It is difficult to know the value of GHG attributes and GHG compliance costs, if any, associated with eligible

91 CCDC Comments, August 24, 2009, at 7.
generation under this program until rules and regulations are established.\textsuperscript{92}

Because compliance will not begin until January 1, 2012, at the earliest,\textsuperscript{93} the regime will not apply to all facilities at that time, and many critical elements of the regime have not yet been finalized, the Commission cannot accurately quantify the costs the GHG compliance regime will impose in the future. Consequently, we find it appropriate and expedient to adopt the Final Staff Proposal’s suggested cost pass-through. We are concerned that any other approach may over or under compensate AB 1613 CHPs for their GHG compliance costs, and this would not meet the “ratepayer indifference” requirements of AB 1613. We must also be cognizant of our obligations under PURPA; any compensation for GHG compliance costs must be consistent with avoided cost principles.

In comments responding to the Final Staff Proposal, SDG&E/SoCal Gas agreed that it was appropriate for the Buyer to pay for the GHG compliance costs associated with the excess energy sold to the utility. However, assuming adoption of the Option 1 MPR-based pricing formula, SDG&E/SoCal Gas suggested that the cost pass-through be capped at the MPR heat rate so that the Seller would bear any GHG compliance costs for emissions associated with less efficient units.\textsuperscript{94}

\textsuperscript{92} Final Staff Proposal at 5.

\textsuperscript{93} See, e.g., the facts discussed in Ass’n of Irritated Residents, et al. v. California Air Resources Board, CGC 09-509526, Statement of Decision – Order Granting in Part Petition for Writ of Mandate, issued March 18, 2011 in Superior Court of California, County of San Francisco (reflecting possible delay in AB 32 implementation).

\textsuperscript{94} SDG&E/SoCal Gas Opening Comments, August 24, 2009, at pp. 8-9.
In order to comply with avoided cost principles, the costs paid by the utility to the AB 1613 CHP should not exceed the avoided GHG compliance costs of the proxy CCGT the Commission has relied on to establish the avoided costs for energy. The SDG&E/SoCal Gas proposal, by setting a cap at the MPR heat rate, properly caps the costs that may be recovered by an AB 1613 CHP to the proxy CCGT’s avoided GHG compliance costs. Adopting the cap will ensure that the price paid to AB 1613 CHPs for GHG compliance will not exceed the utilities’ avoided cost. Consequently, the Commission adopts the proposed cap in the SDG&E/SoCal Gas proposal.

Additionally, we modify the staff recommendation to permit the Seller to choose to either procure GHG allowances itself and seek reimbursement from the Buyer, or have the Buyer procure GHG allowances for the excess electricity sold to the Buyer. However, consistent with the discussion above, if the seller elects to have the utility procure GHG allowances for it, the utility’s obligation to procure such allowances is capped at the number of allowances necessary to operate the proxy CCGT unit.

We recognize that traditionally an avoided cost payment incorporates all elements of energy production into a single payment, and here we have two components that comprise the avoided cost payment to an AB 1613 CHP – the MPR-based energy price, and the GHG compliance cost pass-through capped at the avoided cost of the CCGT proxy unit. Among other things, this cost pass-through approach may be administratively burdensome for the parties. However, given the uncertainty surrounding implementation of California’s GHG compliance regime, this two component avoided cost approach is appropriate at this time. It allows for the program to comply with PURPA using a proposal already in the record of this proceeding (by ensuring that actual cost
payments not exceed the utility’s avoided costs), and will allow AB 1613 CHP project development to move forward, resulting in the environmental benefits intended by AB 1613. While this payment scheme will apply to the life of contracts signed pursuant to the tariffs approved under this decision, the Commission may revisit this issue as to future AB 1613 CHP contracts when the GHG allowance markets have evolved and compliance costs are more easily determined or forecasted.

Finally, we note that there are up to three different elements of the CHP process that will likely have a GHG compliance cost – electricity delivered to the grid, electricity consumed on-site, and on-site thermal demand. However, under this FIT, only those compliance costs associated with excess electricity delivered to the grid are considered. Any GHG compliance costs for the other two elements are outside of the scope of the FIT, and we presume that any facility contemplating the development of CHP that would operate under the proposed tariff would consider these other compliance costs during the course of project financing, and that these other sources of GHG compliance costs will also motivate the facility to install, invest, and operate with GHG emissions efficiencies in mind.

5.3.2.2. GHG Reductions and Benefits

According to the contract, a CHP facility will convey all “green attributes” associated with the excess electricity delivered to the grid, including emissions reductions. However, the GHG emissions reductions that the facility experiences (compared to generating heat and electricity separately) cannot be isolated to delivered electricity but must be calculated on a facility-wide basis. For accounting purposes only, the utility will need to track the entire facility’s avoided GHG emissions that occurred as a result of the installation of the new
CHP facility. This information will be used for tracking purposes with the ARB Scoping Plan target for avoided GHG emissions from CHP. Thus, while there is no monetary value to the GHG reduction itself, for program accounting purposes the utility will count the total avoided GHG emissions for any facility that signs up under this tariff.

5.3.2.3. Other Green Attributes

As mentioned in the discussion above, several parties argue that the contract price should be even higher to reflect the value of other green attributes. We agree that the electricity being delivered to the grid contains several attributes that have distinct societal and environmental benefits. However, as we have already explained, the adopted Pricing Option 1 includes the value of these benefits. Thus, the transfer of these green attributes are included in the price paid and are embedded in the electricity sold to the grid.

PG&E further maintains that if the Buyer is taking on the GHG risk and associated costs, then it should also receive green attributes such as RECs, if applicable. Fuel Cell maintains that the price paid will not reflect the value of RECs, and therefore the Seller should retain RECs if the Seller uses an eligible renewable fuel. As discussed above, we believe the price paid through this program reflects the value of all the green attributes associated with the power delivered from an eligible CHP facility. However, we note that an eligible CHP facility that is also RPS-eligible could choose to participate in a utility’s RPS program rather than this program if the facility believes the price offered under this program is not sufficient.

While the eligible CHP systems under AB 1613 are not required to be RPS-eligible, we look to that program as a comparison. As discussed in D.08-08-028 and SB 107, all green attributes, including RECs, are included in the
product sold to the grid. Thus, because the price paid and the benefit received by the customer embody green attributes, the product delivered to the grid contains all green attributes and they cannot be separated.

5.4. **Delivery Point, (Simplified Contract Term 1.06; Standard Contract Term 1.03)**

The utilities argue that power must be delivered to the point of interconnection with the CAISO-controlled grid, because the power must be scheduled at the CAISO. CHP parties argue that the delivery point should be the first point of interconnection with the utility grid, which may or may not be the same as the point of interconnection with the CAISO-controlled grid. The utilities imply that there are risks associated with accepting delivery at the first point of interconnection with the utility grid and having to transmit and schedule power at the point of interconnection with the CAISO-controlled grid. However, they do not explain the exact nature of the risks.

Fuel Cell suggests that there may be risks associated with either line losses associated with transmitting power over the utility’s distribution system or the outright failure of the utility’s distribution system. Fuel Cell notes that the Delivery term in the contract accounts for line loss risk by requiring the Seller to assume all responsibility for line losses. As for the risk associated with the failure of the utility’s distribution system, Fuel Cell suggests this should be borne by the utility.

The Final Staff Proposal recommends that delivery occur at the first point of interconnection between the facility and the grid for both contracts. The Final Staff Proposal noted that all parties except SCE agreed to this for the simplified
contract. It further noted the fact that the contract equitably allocates financial risk associated with line losses between the first point of interconnection and the point of interconnection with the CAISO-controlled grid.

In comments to the Final Staff Proposal, SCE reiterated distinctions between its service territory and that of the other two utilities, which result in interconnection more frequently occurring at a point that is not under CAISO jurisdiction. PG&E states that while it and SDG&E agreed to delivery at the first point of interconnection for the simplified contract, they did not think it appropriate for the larger contract. But again, neither party articulated the nature or magnitude of the risk it would assume as a result.

Since line loss risk is addressed in the contract, and the only other risk associated with delivery has to do with utility distribution system failure, which should rightly be the responsibility of the utility, we find no compelling reason to require delivery to the CAISO-controlled grid for either contract. We find it instead appropriate for the utility to accept delivery of power at the first point of interconnection between the CHP system and the grid. We understand that in many cases, particularly for larger systems interconnecting at transmission voltage in PG&E’s and SDG&E’s territories, this will be the same as the point of interconnection with the CAISO-controlled grid.

5.5. Termination Rights of Buyer (Simplified Contract and Standard Contract Term 2.02(a))

The IOUs propose that signed contracts may be terminated by the Buyer based on subsequent actions by the Commission. Specifically the IOUs propose that if the Commission “in any way diminishes the Buyer’s rights…to collect any

above-market costs of this Agreement from Departing Load Customers” or if the Commission eliminates the mandatory purchase obligation under this program, then the Buyer can terminate existing contracts. CHP parties oppose this term arguing that it would provide uncertainty in the contract.

The Final Staff Proposal agrees with CHP parties that this contract term is unreasonable and provides too much uncertainty in the contract. SCE urges the Commission to reject staff’s recommendation. It states that the utility’s obligation to purchase stems from AB 1613. Thus, it argues that if AB 1613 were repealed or eliminated, or the state were to place a higher priority on other sources of generation, the utility should not be required to continue purchasing power under an AB 1613 contract.96

We do not find SCE’s arguments persuasive. The contracts entered into under this program would be for no more than 10 years in duration and do not provide for extensions under the existing terms. Further, if AB 1613 were repealed or eliminated, the electrical corporations would not be required to enter into any more contracts. Thus, if AB 1613 were repealed or eliminated, the electrical corporations would purchase power under these existing contracts for no more than 10 years. In contrast, to allow any future regulatory action to nullify an existing contract would undermine the contract and compromise the efficacy of this program in promoting CHP deployment. Based on these considerations, we agree with staff that the IOUs’ proposed term should not be included in the contract. Moreover, SCE’s comments are essentially asking the Commission to include a term that would permit a utility to breach the AB 1613

96 SCE Comments, August 24, 2009, at 21.
contract in the future without any consequences. We decline to adopt such a provision and accept staff’s proposal to eliminate this term in its entirety.

5.6. **Indemnity (Simplified Contract Term 7.03(d); Standard Contract Term 9.03 (f))**

The Final Staff Proposal recommends removing a provision in both contracts requiring the Seller to indemnify the Buyer against failure to deliver electricity, capacity or RA benefits. Staff reasons that such a requirement is not appropriate for what it perceives as an as-available contract.

SCE was the only party that thought this provision was necessary for the simplified contract. PG&E argues that while not necessary for smaller facilities under the simplified contract, it is necessary for the larger contract since the utility may incur RA penalties as a result of a facility’s failure to operate. Fuel Cell notes that such penalties and requirements to provide the Seller specific RA benefits are not required by AB 1613, and inappropriate for as-available contracts.

As we have explained elsewhere, AB 1613 contracts do not operate as “as available” contracts. We agree with PG&E and do not find it reasonable for a CHP generator under the simplified contract to be required to indemnify the utility against potential penalties for failure to deliver any benefits. However we do find it reasonable for larger facilities under the standard contract to be subject to such a requirement given the need for AB 1613 CHPs to be liable for RA penalties in the event of contract breach. Because the contract transfers all benefits of the power product from the CHP generator to the utility, CHP generators under the standard contract should be required to the greatest extent possible to ensure that those benefits can be used by the utility to meet its obligations. We discuss this further in Section 5.10 below.
5.7. **Eligible CHP Facility Status (Simplified Contract Term 3.14; Standard Contract Terms 2.01(a) & 3.16)**

AB 1613 directed the CEC, by January 1, 2010, to adopt technical guidelines for CHP systems eligible for this program. Work is ongoing at the CEC to establish these guidelines and a process for certifying an eligible CHP facility. As previously discussed, the CEC issued its draft guidelines on October 1, 2009.97

In order to be eligible for either the simplified contract or the standard contract adopted by this Commission in this decision, a CHP facility must obtain certification from the CEC as an eligible CHP facility and maintain that certification throughout the contract period. The standard contract submitted by the Working Group on May 15, 2009 included several provisions to ensure that any CHP system participating under AB 1613 had been certified by the CEC. Further, the standard contract provides that failure to maintain CEC certification throughout the contract period would represent an event of default under the contract. We agree that an AB 1613 CHP must be contractually obligated to maintain CEC certification and that failure to do so is an event of default. We also determine in Section 5.8 below that an AB 1613 CHP must also qualify as a QF pursuant to FERC’s regulations. Consequently, as set forth in Section 5.8 below, we adopt a definition of “Eligible CHP Facility” for both the standard and simplified contracts that addresses both CEC certification and QF status.

97 In February 2010, the CEC released the final guidelines for certification of CHP systems pursuant to AB 1613 and in June 2010 the CEC released its final statement of reason relevant to these guidelines.
5.8. Qualifying Facility Status And Two Tier Price Structure (Standard Contract Terms 1.02(f), 2.01(b), 3.10(a)(v), 3.16, 6.01(c)(xviii) & 9.02(h) and Exhibit O)

The Final Staff Proposal recommended removing all references to QFs in the AB 1613 contract. This recommendation was based on the Amended Scoping Memo, which clarified: “Although CHP facilities developed under AB 1613 could qualify as QFs under the Public Utilities Regulatory Policies Act of 1978, AB 1613 is not a subset of the QF Program adopted in D.07-09-040. Instead, AB 1613 focuses on a specific type of generator (i.e., new CHP under 20 MW that will meet efficiency standards established by the CEC) and does not require this type of generator to have QF status. More importantly, AB 1613 was enacted to reduce waste heat, which furthers the State’s overall policy goal to reduce greenhouse gas emissions.”

As set forth above, we implement the AB 1613 program consistent with PURPA. Consequently, CHP facilities not exempt from FERC jurisdiction, which are participating in the AB 1613 feed-in-tariff program, must obtain QF status under PURPA requirements in order to be eligible for the avoided cost rates set by the Commission. The requirement to obtain QF status does not preclude the requirement for a CHP facility to also obtain certification from the CEC that it meets the higher efficiency standards as prescribed in AB 1613.

To address the need to meet both FERC and CEC eligibility requirements, we adopt the following definition of “Eligible CHP Facility” to be included in the standard and simplified contracts for AB 1613:

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98 Amended Scoping Memo and Ruling of Assigned Commissioner and Administrative Law Judge, April 1, 2009, at 3.
“Eligible CHP Facility” means a facility, as defined by Public Utilities Code Section 2840.2, subdivisions (a) and (b) that, (1) meets the guidelines established by the California Energy Commission pursuant to Public Utilities Code § 2843 and, (2) meets the requirements of 18 Code of Federal Regulations § 292.201, et seq., if applicable.

In the event that a facility is decertified by the CEC, this constitutes an event of default of the AB 1613 feed-in tariff rates under the contract, and the CHP will not receive the AB 1613 avoided cost price. However, to the extent the CHP retains its QF status, it is eligible to obtain a QF standard offer contract with a short-run avoided cost rate as ordered in D.07-09-040, if still in effect, or participate in any programs that supersede D.07-09-040. We recognize that the CPUC cannot decertify a facility from its QF status; only the FERC can decertify a QF. Similarly, in no event may a utility unilaterally declare a default under the AB 1613 contract without the CEC decertifying the facility, just as a utility may not unilaterally declare a QF is in default under a QF contract without the FERC finding that the facility has lost its QF status. If the utility believes that a QF is not in compliance with federal standards, the utility may petition FERC to revoke the QF’s status.99

We recognize that some parties may find this two tier pricing structure objectionable. We believe that it is appropriate for the state to require higher efficiency from CHPs, and that a lower avoided cost payment for failure to meet these requirements is also appropriate; such a program advances both state and federal goals to encourage efficient CHPs. Both PURPA and the Energy Policy Act of 2005 (EPAct 2005), like AB 1613, recognize CHPs as a special class of

99 Independent Energy Producers Association, Inc. v. CPUC (9th Cir. 1994) 36 F.3d 848, 859.
highly efficient facilities, with EPAct 2005 expressly directing FERC to consider revising its CHP criteria to ensure “continuing progress in the development of efficient electric energy generating technology.”\textsuperscript{100} Several courts have also acknowledged, with approval, the efficiency benefits of CHPs. In particular, the U.S. Supreme Court upheld FERC’s decision to pay “full avoided costs” to CHPs and other small power producers as a development incentive to encourage fuel efficiency:

\begin{quote}
... it was not unreasonable for the Commission to prescribe the maximum rate authorized by PURPA. The Commission's order makes clear that the Commission considered the relevant factors and deemed it most important at this time to provide the maximum incentive for the development of cogeneration and small power production, in light of the Commission's judgment that the entire country will ultimately benefit from the increased development of these technologies and the resulting decrease in the Nation's dependence on fossil fuels. ...The basic purpose of § 210 of PURPA was to increase the utilization of cogeneration and small power production facilities and to reduce reliance on fossil fuels.\textsuperscript{101} The Supreme Court in \textit{American Paper} also recognized that “a qualifying facility and a utility may negotiate a contract setting a price that is lower than a full-avoided cost rate.”\textsuperscript{102}
\end{quote}

\textit{American Paper} clearly supports the two-tier payment structure we adopt here. To the extent that the price adjustment terms for failure to meet state


\textsuperscript{102} \textit{Id.} at 416.
efficiency requirements are reflected in the AB 1613 contract, and both the high and low prices are avoided costs, it is a valid provision that meets both state and federal efficiency goals and should be implemented here.

5.9. Credit and Collateral (Standard Contract Term 1.06 and Exhibit D)

CHP parties dispute the need for Performance Assurance and Development Security. The IOUs prefer to include the bulk of credit and collateral provisions from the QF contract. The Final Staff Proposal recognizes the need for credit and collateral provisions in balancing financial risk between Buyer and Seller. Staff, however, recommends reducing the amounts of Performance Assurance and Development Security proposed by utilities.

Staff recommends Performance Assurance of 5% of expected revenue over the life of the contract instead of 12 months of expected revenue as the utilities propose. Staff recommends Development Security of $20/kW, not to rise over the project development timeline. The utilities’ proposal would increase Development Security to $60/kW after 18 months into the project development timeline.

In comments to the Final Staff Proposal, SDG&E and PG&E reassert their position that credit and collateral protect ratepayers and IOUs against CHP defaults, and are necessary to mitigate credit risk. PG&E agrees with the staff proposal that 12 months of expected Performance Assurance may be excessive given the fact that contract term lengths under this program may be as little as one year. PG&E instead proposes Performance Assurance of 10% of expected contract revenue. PG&E argues that increasing Development Security to $60/kW-year after 18 months is required to protect ratepayers from relying on
CHP power for planning purposes only to find out that it is not available. PG&E does not explain why $20/kW-year is inadequate for this purpose.

We agree with staff’s assessment that credit and collateral provisions can play an important role in balancing financial risk between utilities and ratepayers on the one hand and CHP project developers on the other. We note that the utilities’ proposed credit and collateral requirements are based on a QF contract that contemplates much larger systems than the 20 MW maximum system size under this program. Just as parties agreed to remove the credit and collateral provision for the simplified contract as a result of the reduced level of risk associated with systems exporting less than 5 MW, we find it appropriate to reduce the level of credit and collateral provisions for systems less than or equal to 20 MW. Even credit and collateral provisions that are based on the proportional size of a project, such as those proposed here, can have a disproportionate impact on smaller project developers who are likely to face higher costs to post credit and collateral.

Since the projects and project developers participating in this program are likely to be smaller than those contemplated by the QF contract, we find it appropriate to reduce the levels credit and collateral from that contract. We note that one important role of credit and collateral is to ensure that only real and viable projects sign contracts. We find the levels of credit and collateral proposed by staff reasonable for this purpose given that the likely participants in this program will be smaller developers.

5.10. **Conveyance of the Power Product (Standard Contract Term 3.01) and Resource Adequacy Benefits (Standard Contract Term 3.02)**

The Final Staff Proposal recommended replacing two terms related to the Conveyance of the Power Product (3.01) and Resource Adequacy Benefits (3.02)
in the standard contract with the terms proposed in the simplified contract. Staff believes that the terms in the standard contract are vague and potentially problematic and that the terms in the simplified contract sufficiently address the same issues.

PG&E argues that these terms should not be replaced, noting that these more detailed terms are relevant for larger projects and that the simplification agreed upon by parties in the simplified contract is only applicable to smaller facilities. Fuel Cell notes that it does not object to the first term. However it does object to the second. Fuel Cell notes that language in contract term 3.02 of the standard contract imposes burdensome obligations on a CHP generator that are not required by AB 1613. Fuel Cell notes that this term introduces significant risk upon a CHP facility because it would oblige the facility to commit its output to the Buyer for use in meeting its RA obligations no matter how those obligations may change in the future.

We decline to adopt staff’s recommendations. These two contract terms had originally been proposed by staff in the February 3rd Staff Proposal. Standard contract term 3.01 was subsequently revised by parties as part of the Workshop Report, these revisions served to clarify the term. The Workshop Report does not indicate any dispute between parties on the revisions to the term. No revisions were made to standard contract term 3.02.

We agree with PG&E that the more detailed terms should be retained for the standard contract. Moreover, with respect to term 3.02, under the contract the Seller will convey to the Buyer all benefits associated with the product, including energy and capacity benefits. For this, the Buyer will compensate the Seller. We find it reasonable that to the degree the capacity of CHP helps the utility meet its RA obligations, the Seller should be obliged to commit its output
for this purpose. This is also consistent with Pub. Util. Code § 2841(f), which provides that the generating capacity of the AB 1613 CHP will count towards the resource adequacy requirements of the utility. Accordingly, we retain contract terms 3.01 and 3.02 originally proposed by the Working Group for the standard contract.

5.11. Generating Facility Modifications (Standard Contract Term 3.07(b))

The IOUs propose a provision that the Seller must obtain consent of the Buyer before making any material modifications to the CHP facility. The CHP parties prefer the existing provision that a Seller must provide 30 days advance notice to Buyer of material modifications. The staff proposal recommended deleting the requirement that a Seller must obtain consent of the Buyer before making modifications to the CHP facility.

SCE claims that without this provision, a CHP generator could expand a facility’s nameplate rating or amount of export and could impact the adequacy of the interconnection facilities. Fuel Cell points out that the CHP generator’s interconnection agreement has specific capacity requirements and that if a modification to the facility would go beyond what is allowed by the interconnection agreement, then the facility would be responsible for all study fees and upgrade costs. Furthermore, Fuel Cell notes that a requirement that utility consent is required for any modifications would discourage participation.

We find no compelling reason why the utility’s consent should be required by this contract for facility upgrades. Interconnection impacts will be addressed by the interconnection agreement. Furthermore, the requirement in standard contract term 3.16 that a CHP facility maintain certification as an eligible CHP pursuant to the CEC’s guidelines will ensure that no modifications will increase
the size above 20 MW or alter the facility beyond what is allowed for this program.

5.12. Assignment (Standard Contract Term 9.04)

The Final Staff Proposal recommends deleting the sentence “Any direct or indirect change of control of Seller (whether voluntary or by operation of law) will be deemed an assignment and will require the prior written consent of Buyer, which consent will not be unreasonably withheld.” from Term 9.04. Staff notes that Fuel Cell objects to this language. Fuel Cell claims this provision would give the utility *de facto* veto rights over the CHP generator’s internal business decisions. Staff notes that Fuel Cell objects to this language. Fuel Cell claims this provision would give the utility *de facto* veto rights over the CHP generator’s internal business decisions. Fuel Cell also notes that the contract does not give a CHP generator the reciprocal right over changes of ownership by the utility.

SCE opposes staff’s recommendation, stating “it is commercially unreasonable to give the parties an unlimited right to arbitrarily change their ownership or the ownership of their parent entities.” PG&E and SDG&E state that this sentence may be deleted if Performance Assurance and Development Security remained in the contract. However, PG&E argues that since the Final Staff Proposal recommended reducing the Performance Assurance and Development Security, there is a concern that a change of ownership of a CHP generator that occurs without the utility’s consent would limit the utility’s ability to collect damages in the event of a default.

We decline to adopt staff’s recommendation. The sentence at issue clarifies what would be included as an assignment. As SCE notes, it would be

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104 SCE Comments, August 24, 2009, at 22.
unreasonable to give parties an unlimited right to arbitrarily change ownership, especially if the transfer is to an insolvent entity. Further, the provision does not grant the utility automatic veto power, but rather a right to consent, which consent will not be unreasonably withheld. We do believe, however, that Fuel Cell raises a valid concern that this term only applies to the Buyer. Concerns over assignment of the contract and solvency of a new owner apply equally to the Buyer and the Seller. Consequently, we modify Term 9.04 to read:

Neither Party may assign this Agreement or its rights under this Agreement without the prior written consent of the other Party, which consent may not be unreasonably withheld or delayed. Any direct or indirect change of control of either Party (whether voluntary or by operation of law) will be deemed an assignment and will require the prior written consent of the other Party, which consent will not be unreasonably withheld. Notwithstanding anything to the contrary in this Section 9.04, Seller may, without the consent of Buyer (and without relieving itself from liability hereunder):

(a) Transfer, sell, pledge, encumber or assign this Agreement or the accounts, revenues or proceeds hereof in connection with any financing or other financial arrangements in accordance with Section 9.05; and

(b) Transfer or assign this Agreement to an Affiliate of Seller which Affiliate’s creditworthiness is equal to or higher than that of Seller.

6. Non-Contract Issues

6.1. Applicability to Electrical Corporations with Less Than 100,000 Service Connections

Section 2841(h) permits the Commission to “modify or adjust the requirements of [AB 1613] for any electrical corporation with less than 100,000 service connections, as individual circumstances merit.” In its initial
comments to this OIR, the California Association of Small and Multi-jurisdictional Utilities (CASMU)\textsuperscript{105} requested that the Commission defer implementing AB 1613 for CASMU members and focus implementation only on the IOUs.\textsuperscript{106} CASMU subsequently filed a motion on February 17, 2009, requesting that the proceeding be bifurcated to defer implementation of AB 1613 for the CASMU members. In its motion, CASMU presented two reasons to support its request. CASMU first contends that implementing the AB 1613 program for the IOUs would provide experiences that the Commission could draw upon when implementing the program for the smaller electrical corporations. It also asserts that implementing the AB 1613 program for the CASMU members would be burdensome, especially since it would be unlikely that an eligible CHP system would be located within any CASMU member’s service territory. CASMU’s motion was denied by an ALJ Ruling issued on August 10, 2009. In denying the motion, the ALJ Ruling stated:

\begin{quote}
I am not persuaded that the terms and conditions for purchase of power from eligible CHP systems will vary based on the size of the electric corporation. The reduction of waste heat depends more on the individual facility than the service territory that facility is located in. Further the Energy Division’s final staff proposal appears to address the concerns raised by CASMU, as it includes a simplified contract for CHP exporting up to 5 MW and proposes an interim program cap that would be allocated proportionally between utilities based on 2008 peak demand.\textsuperscript{107}
\end{quote}

\textsuperscript{105} The CASMU members include: Sierra Pacific, Bear Valley Electric Service (BVES), Mountain Utilities and PacifiCorp.

\textsuperscript{106} CASMU Comments, July 31, 2008, at 3.

\textsuperscript{107} Administrative Law Judge’s Ruling Denying Motion of the California Association of Small and Multi-jurisdictional Utilities to Bifurcate Rulemaking 08-06-024, August 10, 2009, at 2.
In comments to the Final Staff Proposal, Sierra Pacific continues to advocate that the Commission not require it to implement AB 1613 until there is an indication that a customer would seek interconnection of an eligible project. Sierra Pacific contends that if it is required to implement AB 1613, this will result in additional costs for its ratepayers. It further asserts that its current customer base has relatively small demands that are “not suitable for CHP systems.”

Sierra Pacific states that if it is required to implement AB 1613, then it should only be required to offer the simplified contract, since its proportional share of the recommended statewide cap of 500 MW would be approximately .81 MW. However, even under that scenario, Sierra Pacific notes that the simplified contract would have to be modified, since it is not part of the CAISO-controlled grid. PacifiCorp also maintains that it should only be required to offer the simplified contract in light of its proportionate share of the 500 MW interim cap and the composition if its customer base. Further, PacifiCorp states that it is located outside of the CAISO control area and therefore requests that the simplified contract be modified to eliminate any mandatory contract provisions specific to the CAISO.

Mountain Utilities requests that it be excused from participating in AB 1613 altogether. In support of this request, Mountain Utilities states that its total generation requirements are less than 5 MW for most of the year and it is not connected to transmission of any sort. As such, it asserts that even the

108 Sierra Pacific Comments, August 24, 2009, at 5.
109 PacifiCorp Opening Comments to PD, November 19, 2009, at 3-4.
110 PacifiCorp Opening Comments to PD, November 19, 2009, at 5-6.
111 Mountain Utilities Comments, August 9, 2009, at 2.
simplified contract would need to be modified to meet its unique characteristics. Finally, Mountain Utilities notes that its proportional share of the 500 MW interim program cap would be “miniscule” and would not advance the intent of AB 1613. BVES echoes many of the arguments raised by Mountain Utilities. It further contends that requiring BVES to offer 20 MW and 5 MW contracts would be misleading in light of its allocation under the interim 500 MW cap.\textsuperscript{112} Further, it notes that not only are there no significant thermal hosts in its service territory, but there also is no room in its current resource stock for significant CHP generation.\textsuperscript{113}

We are unpersuaded by arguments that an electrical corporation should not be required to participate in the AB 1613 program because no CHP systems are currently located in its California service territory. As we have repeatedly stated in this decision, the purpose of AB 1613 is to encourage development of small CHP systems in California. As such, the fact that CHP is not currently located in an electrical corporation’s service territory is an insufficient reason to determine that it should not be required to participate in AB 1613. Furthermore, since there shall be no initial program cap, there is currently no limitation on the amount of excess electricity that may be purchased under the program in an electrical corporation’s service territory. Nonetheless, we are persuaded that the program should be modified for the CASMU members.

\textsuperscript{112} BVES Opening Comments to PD, November 19, 2009, at 6.
\textsuperscript{113} BVES Opening Comments to PD, November 19, 2009, at 7-8.
We find that Sierra Pacific and PacifiCorp should not be required to offer the standard contract. Instead, Sierra Pacific and PacifiCorp shall offer one of the following contracts:

1. The simplified contract adopted in this decision (Attachment B). Should Sierra Pacific and/or PacifiCorp offer this contract, they may include, as part of their Tier 3 Advice Letter filing, proposed modifications in light of their relationship to the CAISO. This filing shall include both a clean version of the simplified contract, a redline version of the simplified contract showing the proposed modifications, and an explanation of why these modifications are needed.

2. A more simplified contract for eligible CHP systems exporting 500 kW or less, as discussed in Section 5.1 above. If Sierra Pacific and/or PacifiCorp wish to offer this contract, they must file a Tier 2 Advice letter proposing this more simplified contract within six months of the effective date of this decision. If such a filing is not made within the six month period, Sierra Pacific and/or PacifiCorp shall offer the simplified contract (Attachment B).

We are also persuaded that Mountain Utilities’ and BVES’ unique characteristics warrant excusing it from offering either the standard contract or the simplified contract. We agree that the potential costs imposed on these corporations’ ratepayers to implement either of these contracts would likely be excessive, especially in consideration of the number of eligible CHP systems that might locate within their service territories. However, even though Mountain Utilities and BVES shall not be required to offer either of these contracts, they are not excused from complying with AB 1613. Thus, if an eligible CHP system were to locate in either Mountain Utilities’ and/or BVES’ service territory and seek to sell its excess electricity, Mountain Utilities and/or BVES shall negotiate and enter into a contract with that eligible CHP system if the system does not have an adverse effect on Mountain Utilities’ or BVES’ long-term resource planning, is
cost effective, technologically feasible, and environmentally beneficial. Any such contract reached shall be filed as a Tier 3 advice letter for Commission approval.

6.2. **Ratepayer Funded Incentives**

Several parties have proposed that this proceeding address whether or not CHP participating in this program would be eligible for incentives from the Self Generation Incentive Program (SGIP). The Final Staff Proposal sought to address this issue by clarifying that although nothing about this program would prohibit a CHP system from receiving incentives from a ratepayer funded program such as the SGIP, the issue of SGIP eligibility is outside the scope of this proceeding. Based on parties’ comments, there seems to be some confusion about this.

6.2.1. **Parties Comments**

DRA does not believe CHP participating in this program should be eligible to receive SGIP incentives. DRA suggests striking the following language from the staff proposal, “We clarify that nothing from the AB 1613 program would prohibit a CHP system from receiving incentives from a ratepayer funded incentive program such as the Self Generation Incentive Program as long as the system meets all requirements of such program.”

CCDC and Fuel Cell argue that CHP under this program should be eligible for SGIP incentives and disagree that this issue should not be addressed in this proceeding. CCDC suggests that the Commission, in this proceeding, require that the SGIP Handbook be modified to ensure that CHP participating in this program be eligible for SGIP incentives.

SCE notes that Fuel Cell’s and CCDC’s requests are outside the scope of this proceeding and also notes that their requests are contrary to the current rules of the SGIP. SCE cites the SGIP Handbook which states that, “Agreements
that entail the export and sale of electricity from the Host Customer do not constitute on-site use of the generated electricity and therefore are ineligible for the SGIP.”

SCE goes on to cite several other examples in the SGIP Handbook which preclude an SGIP customer from receiving double incentives. PG&E and TURN also argue that a CHP system should not be eligible for subsidies from more than one program. They imply that the pricing options in the staff proposal represent subsidies. PG&E and TURN seem to suggest that only their pricing proposal based on the CAISO market price would not be a subsidy and therefore is the appropriate price. It is unclear if by extension they are suggesting that a CHP customer should be eligible for SGIP if the price paid under this program does not represent a subsidy.

6.2.2. Discussion

We first want to clarify the misconception highlighted in several parties’ comments that the program being adopted here represents a subsidy. It is not a subsidy. AB 1613 requires that this program and the price paid to eligible CHP for excess electricity represent fair compensation for that electricity and will hold ratepayers indifferent. PURPA requires that the price paid to AB 1613 generators be no more than the utilities’ avoided costs. This program meets all of these requirements.

Furthermore, AB 1613 does not prohibit an eligible CHP facility or host customer from receiving ratepayer funded incentives. In fact, customer participation in energy efficiency and other demand-side management programs

114 SCE, September 3, 2009 reply comments, at 9.
is encouraged, assuming that the facility and/or customer meets the eligibility requirements of those other programs. The state is committed to the efficient and cost-effective use of energy resources and has created a number of complementary programs and policies intended to maximize resource efficiency and reduce emissions of GHG. However, those programs are completely separate and distinct from this program and wholly outside the scope of this proceeding. Therefore, staff correctly stated that eligibility for incentives from any other program will not be addressed in this proceeding.

Regarding SGIP specifically, we note that SGIP was developed to provide incentives for self-generation, as the name implies. There are specific requirements of SGIP that prohibit customers from exporting power to the grid, except under limited circumstances. However, it is conceivable that SGIP eligibility requirements may change or that there may be future programs adopted by this Commission or this state to provide incentives for CHP technologies. Such programs may provide an appropriate complement to this one. Therefore, we clarify that nothing about this program would prohibit a system from receiving incentives from another program if the system meets all requirements from that other program and the system were otherwise eligible to receive the incentive.

7. Conclusion

Based on our consideration of the record, we adopt the policies and procedures to implement AB 1613 as described in this decision consistent with PURPA and avoided cost principles. Under AB 1613, all benefiting customers shall be allocated the costs and benefits of the program. Benefiting customers under this program shall include bundled service customers and customers
receiving electric service from electric service providers or community choice aggregators.

We decline to adopt any limitation on the amount of excess electricity that may be procured under this program at this time. If an electrical corporation finds that the number of eligible CHP systems participating in this program has an adverse impact on its long-term resource planning or system reliability, it may file an application seeking authorization to establish a maximum kilowatthours limitation on the amount of excess electricity it must purchase under this program.

The avoided cost price to be offered for excess electricity under AB 1613 shall be based on the costs of a combined cycle gas turbine and comprised of a fixed and a variable component. There shall also be a 10% location bonus applied to eligible CHP located in local RA areas, identified pursuant to the CAISO’s local capacity technical study. There shall be a pass through from the Seller to the Buyer of any GHG compliance costs associated with the excess electricity sold. However, any such pass through shall be capped at the GHG compliance costs of the proxy CCGT unit. All GHG attributes associated with the excess electricity sold shall also be transferred to the Buyer. Finally, there shall be a two tier pricing scheme such that AB 1613 CHPs complying with AB 1613 as set forth in the CEC’s eligibility requirements shall be paid the AB 1613 avoided cost price based on the MPR as set forth herein. Should a CHP under an AB 1613 contract fail to comply with AB 1613 and the CEC’s eligibility requirements then it will receive payments pursuant to the most current short run avoided cost in place.

There shall be two contracts offered under the program. A standard contract shall be offered to all eligible CHP up to 20 MW, and a simplified
contract will be offered to eligible CHP systems that export up to 5 MW. These contracts are included as Attachments A and B, respectively, of this decision. All electrical corporations, except Sierra Pacific, PacifiCorp, Mountain Utilities and BVES, shall be required to offer both contracts. Within six months of the effective date of this decision, each electrical corporation, unless otherwise excepted, shall file a Tier 2 Advice Letter to adopt an even more simplified contract for eligible CHP systems exporting 500 kW or less.¹¹⁵

Sierra Pacific and PacifiCorp may offer either the simplified contract (Attachment B) or the even more simplified contract for eligible CHP systems exporting 500 kW or less discussed in this decision. Mountain Utilities and BVES shall not be required to offer a standard or simplified contract, but are not excused from complying with AB 1613. Except as discussed in this decision, we adopt the Final Staff Proposal and Energy Division staff’s proposed modifications to the standard and simplified contracts.

We affirm Energy Division staff’s statement that AB 1613 does not prohibit an eligible CHP facility or host customer from receiving other ratepayer funded initiatives, such as the SGIP. Therefore, an eligible CHP system could receive incentives from another program if it meets all the requirements from that other program.

8. Comments on Proposed Decision

The proposed decision of the Assigned Commissioner 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

¹¹⁵ D.10-12-055 reset this 6-month deadline so that the advice letter deadline is now June 17, 2011.
Practice and Procedure. Comments were filed on November 19, 2009 by SCE, jointly by SDG&E and SoCalGas, jointly by PG&E and TURN, PacifiCorp, BVES, EPUC, Sierra Pacific, San Joaquin Refining Co. (SJRC), Fuel Cell, CCDC, DRA and AReM. Reply comments were filed on November 24, 2009 by SCE, SDG&E, PG&E/TURN, CCDC, AReM, Fuel Cell and SJRC. This decision has been revised in response to comments as appropriate.

In comments, PG&E/TURN and SCE have asserted that the Commission’s pricing determination is unlawful for failure to comply with PURPA and/or the FPA. We agree and have made modifications accordingly to reflect that AB 1613 is being implemented pursuant to PURPA and avoided cost principles.

9. Assignment of Proceeding

Michael R. Peevey is the assigned Commissioner and Amy Yip-Kikugawa is the assigned ALJ in this proceeding.

Findings of Fact
1. AB 1613 – The Waste Heat and Carbon Emissions Reduction Act – was enacted by the California Legislature in 2007 to be effective January 1, 2008, in order to further environmental objectives, particularly the reduction of GHG emissions.

2. AB 1613 requires the Commission to establish a “standard tariff” for qualifying CHP generators to sell their excess electricity to the utilities.

3. AB 1613’s policy goal to reduce carbon-based emissions is part of the state’s overall objective to reduce GHG emissions, as articulated in AB 32.

4. To advance the state’s policy goals beyond a traditional CHP program, an AB 1613 CHP must meet strict efficiency and emission requirements.
5. AB 1613 imposes requirements to ensure reliable and continuous onsite generation to address the state’s energy supply and transmission congestion challenges.

6. Staff have proposed two separate contracts for purchase of excess electricity from AB 1613 CHPs: a standard contract would be offered to all eligible CHP systems up to 20 MW, and a simplified contract would be offered to eligible CHP systems that export up to 5 MW.

7. All customers will receive the environmental and locational benefits produced by CHP systems participating under AB 1613.


9. POU customers would bear all responsibility for costs associated with the POU’s implementation of AB 1613.

10. Once a POU develops its own power purchase program under AB 1613 and enters into contracts under the program, there is a risk that POU customers could be subject to double payment for the benefits derived under AB 1613.

11. The costs for GHG compliance and locational benefits are directly related to the benefits received by all benefiting customers.

12. Because all retail end-use customers, including DA and CCA customers, receive transmission and distribution services from the investor owned utilities, all customers receive the locational benefits of any transmission and distribution upgrade deferrals.

13. Because the benefits under AB 1613 will be received equally by all benefiting customers, the costs associated with GHG compliance and any adder for locating within certain load areas should be allocated on an equal cents/kWh basis.
14. An electrical corporation should file an application seeking authorization to establish a maximum kilowatt hours limitation on the amount of excess electricity it must purchase under this program before a maximum MW limitation is set.

15. The Final Staff Proposal offered two options for the pricing of power purchased under AB 1613.

16. Staff’s Pricing Option 1 is a proxy market price based on the costs of constructing, operating, and maintaining a new CCGT.

17. The Staff’s Pricing Option 1 uses many inputs from the 2008 MPR, including the fixed costs associated with a new CCGT (minus GHG compliance costs), variable operations and maintenance costs estimated for such a plant and the heat rate assumed for such a plant.

18. The MPR inputs and methodology were developed pursuant to Public Utilities Code section 399.15(c) through a public process and the Commission relies on a public process to periodically update the MPR inputs and methodology.¹¹⁶

19. Staff’s Pricing Option 1 uses variable monthly natural gas prices based on actual market indices, instead of a forward gas price estimate like the MPR.

20. The result of Staff’s Pricing Option 1 is an all-in price (in $/kWh) adjusted for time of delivery (based on MPR time of delivery (TOD) factors) that an eligible CHP facility would receive for every kWh of exported electricity.

21. The operating profile of a CHP facility most closely resembles that of a CCGT.

¹¹⁶ See, e.g., D.05-12-042; D.07-09-024; D.08-10-026; and the Commission’s MPR website at http://www.cpuc.ca.gov/PUC/energy/Renewables/mpr
22. A CCGT represents a reasonable proxy for the generation that a utility would have to procure if not for a CHP facility participating in this program.

23. Paying AB 1613 generators a price for as-available energy that is calculated based on the costs of constructing and operating a proxy baseload resource, consistent with Option 1, is appropriate and complies with our obligation to pay such resources no more than the IOUs’ avoided costs.

24. At the time the record for this proceeding was developed, the most current MPR available was the 2008 MPR and staff proposed using the 2008 MPR inputs.

25. Since the MPR itself is not static, but is updated to reflect the dynamics of the market, it is appropriate that the most current MPR inputs – rather than static 2008 MPR inputs - should be used in the price formula.

26. Pricing Option 2 is based on the generation component of the retail rate tariff applicable to the host customer where the eligible CHP is installed.

27. There is a risk Option 2 could result in payments to eligible CHP facilities at a price that would not hold non-participating ratepayers indifferent, and would violate our avoided cost obligations under PURPA.

28. At the initiation of this rulemaking, the CCC filed comments noting that the Commission currently uses a model to calculate average T&D avoided cost values for each utility’s service area.

29. CCC provided, as Attachment A to its comments, a sample of the T&D avoided costs calculated for each utility by the model. The spreadsheet model is commonly referred to as the “E3 Model” in the parties’ comments.

30. To calculate T&D avoided costs, the E3 Model relies upon each utility’s marginal T&D costs adopted in their general rate cases.
31. Based on the avoided cost numbers reflected in Attachment A to CCC’s comments, CCC proposed to pay an avoided T&D cost “adder” to AB 1613 generators located in areas that would produce higher than average avoided cost benefits to ratepayers, but did not specifically identify the amount of the adder.

32. The Final Staff Proposal’s pricing options include a 10% location bonus for eligible CHP systems located in a distribution or transmission constrained area.

33. AB 1613 CHPs are required by statute to operate as firm resources.

34. When a utility contracts with an AB 1613 CHP, it avoids a resource adequacy procurement obligation equivalent to the full capacity of the AB 1613 CHP, but the CHP only receives a payment for the excess energy it sells to the utility. Thus, this payment clearly does not exceed the utility’s avoided CCGT procurement costs.

35. Historically, the Commission has agreed with the utilities that while distributed generation facilities unquestionably generated avoided T&D costs, a facility-specific analysis was required before a T&D avoided cost could be paid to generators.

36. D.03-02-068, issued February, 2003, established four facility-specific criteria to be met for a facility to qualify for avoided T&D costs.

37. No facility has ever qualified for T&D avoided costs under this test.

38. The Commission’s project-specific T&D adder has proven to be unworkable.

39. The Commission’s position on T&D avoided costs has evolved over the last eight years in other proceedings so that today the E3 Model is used to calculate avoided T&D costs to determine the cost effectiveness of the utilities’ energy efficiency and demand response programs.
40. The utilities benefit from the inclusion of uniform avoided T&D costs in their energy efficiency and demand response programs.

41. SDG&E/SoCal Gas propose that a location bonus is appropriate for generators located in areas with local RA requirements.

42. Each year the Commission adopts Local RA requirements and identifies Local RA areas based on the CAISO’s annual study of local capacity requirements.

43. The CAISO study identifies the specific substations included in each Local RA area – constrained areas that require the purchase of a specified amount of Local RA resources to avoid T&D system failures.

44. All of the utilities agree that distributed generation, which includes AB 1613 CHPs, results in avoided T&D investment.

45. AB 1613 CHPs located in Local RA areas will generate avoided costs to the utilities well above the 10% location bonus the utilities will pay them.

46. The 10% location bonus paid to CHP facilities located in Local RA areas for avoided T&D investment is a conservative estimate of the actual T&D costs avoided in Local RA areas.

47. The Final Staff Proposal proposes a standard contract for eligible CHP systems that are less than or equal to 20 MW and a simplified contract for eligible CHP systems that export no more than 5 MW.

48. All parties, except SCE, agreed to a 5 MW maximum export size for the simplified contract.

49. SCE failed to provide sufficient justification to adopt a lower cutoff point for the simplified contract.

50. CCDC requested an even more simplified contract for CHP systems less than 500 kW.
51. There may be some terms in the simplified contract that are inappropriate and burdensome for very small CHP systems.

52. SCE has failed to provide convincing evidence that entities that develop multiple CHP systems under AB 1613 may not utilize the simplified contract.

53. Because GHG compliance will not begin until January 1, 2012, at the earliest, the regime will not apply to all facilities at that time, and many critical elements of the regime have not yet been finalized, the Commission cannot accurately quantify the costs the GHG compliance regime will impose in the future.

54. It is appropriate and expedient to adopt the Final Staff Proposal’s suggested cost pass-through.

55. Any other approach to GHG compliance costs may over or under compensate AB 1613 CHPs for their GHG compliance costs, and this would not meet the “ratepayer indifference” requirements of AB 1613.

56. Setting a cap on GHG compliance costs at the proxy CCGT’s heat rate ensures that the price paid to AB 1613 CHPs for GHG compliance will not exceed the utilities’ avoided cost.

57. Benefiting customers should only pay for GHG compliance costs once.

58. Pricing Option 1 does not have GHG compliance costs embedded in the price.

59. If there is no direct compliance obligation, there will be no GHG costs.

60. GHG emissions reductions that the facility experiences (compared to generating heat and electricity separately) cannot be isolated to delivered electricity but must be calculated on a facility-wide basis.

61. Pricing Option 1 includes the value of green attributes associated with the excess electricity delivered to the grid.
62. The utilities do not explain why setting the delivery point as the first point of interconnection between the facility and the utility grid, rather than the point of interconnection with the CAISO-controlled grid presents more risk.

63. The risk associated with utility distribution system failure should be borne by the utility.

64. The utility’s proposed buyer termination clause would create too much uncertainty and compromise AB 1613’s objectives.

65. An indemnity clause against failure to deliver electricity, capacity or resource adequacy benefits is appropriate for the standard contracts.

66. In order to be eligible to participate under AB 1613, a CHP facility must obtain and maintain certification from the CEC and maintain QF status throughout the contract period.

67. It is appropriate that failure to maintain eligibility pursuant to AB 1613, but retaining QF status will result in a facility being paid the most current short run avoided cost instead of the AB 1613 price.

68. A utility may not unilaterally declare a default under the AB 1613 contract without the CEC decertifying the facility, just like a utility may not unilaterally declare a QF is in default under a QF contract without the FERC finding that the facility has lost its QF status.

69. It is appropriate for the state to require higher efficiency from CHPs in exchange for an avoided cost payment; such a program advances both state and federal goals to encourage efficient CHPs.

70. The IOUs’ proposed credit and collateral requirements are based on a QF contract that contemplates systems larger than 20 MW.
71. Parties agreed to remove the credit and collateral provision for the simplified contract as a result of the reduced level of risk associated with systems exporting less than 5 MW.

72. The CEC guidelines and certification process will ensure that a participating CHP system will not upgrade its facility above 20 MW or alter the facility beyond what is allowed under AB 1613.

73. Pub. Util. Code § 2841(h) permits the Commission to modify the requirements of AB 1613 for any electrical corporation with less than 100,000 service connections.

74. CASMU’s motion to bifurcate the proceeding and defer implementation of AB 1613 for the CASMU members was appropriately denied by an ALJ Ruling.

75. Based on the composition of Sierra Pacific’s and PacifiCorp’s customer base, it is unlikely that an eligible CHP system exporting more than 5 MW would locate in the service territory of either of these electrical corporations in the immediate future.

76. The costs imposed on Mountain Utilities’ and BVES’ ratepayers to implement either of the contracts adopted in this decision would likely be excessive, especially in consideration of the number of eligible CHP systems that might locate within their service territories.

77. Since AB 1613 requires the price paid to eligible CHP for excess electricity represent fair compensation for that electricity, the price is not a subsidy.

78. AB 1613 does not prohibit an eligible CHP facility or host customer from receiving ratepayer funded incentives, provided the facility is eligible for them.

Conclusions of Law

1. The AB 1613 program must be implemented pursuant to PURPA.

2. AB 1613 CHPs must be QFs.
3. The prices paid to AB 1613 CHPs must not exceed the procuring utility’s avoided costs.

4. Pub. Util. Code §§ 2840.2 (a) and (e), 2841, and 2843 provide that an AB 1613 CHP must be sized to meet its onsite load, must operate continuously in a manner that meets the expected thermal load, and may only sell its excess power to the utilities.

5. Pub. Util. Code § 2841 (f) provides that the entire physical generating capacity of the AB 1613 CHP, not just the excess energy sold to the utility, counts towards the purchasing utility’s resource adequacy obligations.

6. Pub. Util. Code § 2841 (b)(4) authorizes the Commission to require electrical corporations to offer to purchase “excess electricity” from eligible CHP customer generators and requires the Commission to “ensure that ratepayers not utilizing combined heat and power systems are held indifferent to the existence of this tariff.”

7. The customer indifference standard of AB 1613 is met by setting the price paid to the AB 1613 generators at the utilities’ avoided costs.

8. AB 1613 requires the costs and benefits associated with any tariff or contract entered into pursuant to the AB 1613 program to be allocated to all benefiting customers.

9. It would be reasonable to allocate the costs to encourage development of eligible CHP systems to all retail end-use customers as they will receive environmental and locational benefits from the systems.

10. Pub. Util. Code § 2841(e) does not include any language that expressly limits the term “benefiting customer” to three categories of customers.
11. It would be unreasonable to include POU customers within the term “benefiting customer” since the POU is mandated to implement its own program for purchase of power under AB 1613.

12. Consistent with Pub. Util. Code § 2841(a), program cap should not be imposed until the Commission first determines that the number of eligible CHP systems participating in this program has an adverse impact on an electrical corporation’s long-term resource planning or system reliability.

13. Staff’s Pricing Option 2 should not be adopted because it is not consistent with our avoided cost obligations under PURPA.

14. Staff’s Pricing Option 1 should be adopted because it is consistent with our avoided cost obligations under PURPA.

15. FERC has recognized that it is appropriate to compensate QFs for their capacity value. It has stated that for facilities that demonstrate “a degree of reliability that would permit the utility to defer or avoid construction of a generating unit or the purchase of firm power from another utility, then the rate for such a purchase should be based on the avoidance of both energy and capacity costs.”
16. Staff’s proposal to include a 10% location bonus to encourage optimal siting of CHP facilities should be adopted because it is based on an actual determination of the utilities expected T&D costs, and therefore complies with our avoided cost obligations under PURPA.

17. The U.S. Supreme Court’s holdings in *American Paper* support the Commission’s determination to adopt a uniform T&D avoided cost in the form of the 10% location bonus, instead of requiring the project-specific determination of prior years.

18. Parties should continue working together to develop an even more simplified contract for eligible CHP systems that export 500 kW or less.

19. It would be unreasonable to impose a limit on the number of contracts entered into by a single entity, as such a limitation could prevent successful project developers or host customers from installing multiple projects.

20. In order to comply with avoided cost principles, the costs paid by the utility to the AB 1613 CHP for GHG compliance costs should not exceed the avoided GHG compliance costs of the proxy CCGT the Commission has relied on to establish the avoided costs for energy.

21. Since the standard contract transfers all benefits of the power product to the utility, it would be reasonable to require CHP generators to ensure that those benefits can be used by the utility to meet its obligations and to indemnify the Buyer against potential penalties for failure to deliver any benefits.

22. A CHP system participating under AB 1613 that fails to maintain its CEC certification through the contract period should be considered in default under the contract.
23. It is appropriate that failure to maintain eligibility pursuant to AB 1613, but retaining QF status will result in a facility being paid the most current short run avoided cost instead of the AB 1613 price.

24. The Supreme Court has recognized that a qualifying facility and a utility may negotiate a contract setting a price that is lower than a full-avoided cost rate.

25. A utility may not unilaterally declare a default under the AB 1613 contract without the CEC decertifying the facility, just like a utility may not unilaterally declare a QF is in default under a QF contract without the FERC finding that the facility has lost its QF status.

26. Credit and collateral provisions in the AB 1613 contracts should balance the financial risk between Buyer and Seller.

27. It would be appropriate to reduce the level of credit and collateral provisions for CHP systems participating under AB 1613 because the projects and project developers participating in this program are likely to be smaller than those contemplated by the QF contract.

28. It would be reasonable to adopt a performance assurance of 5% of expected revenue for both contracts.

29. It would be reasonable to adopt a development security of $20/kW, not to rise over the project development timeline.

30. If the capacity of CHP helps the utility meet its Resource Adequacy obligations, the Seller should be obliged to commit its output for this purpose.

31. The assignment provision in the Standard Contract should apply equally to both the Buyer and the Seller.

32. The Energy Division staff’s Final Staff Proposal, submitted on July 31, 2009 should be adopted, as modified.
33. Sierra Pacific and PacifiCorp should offer either the simplified contract or the even more simplified contract for eligible CHP systems exporting 500 kW.

34. Mountain Utilities and BVES should comply with the requirements of AB 1613, but should not be required to offer either of the contracts adopted in this decision.

**ORDER**

**IT IS ORDERED** that:

1. A standard contract for eligible combined heat and power systems up to 20 megawatts (Attachment A) and a simplified contract for eligible combined heat and power systems that export up to 5 megawatts (Attachment B) are adopted. The California electrical corporations should offer these contracts only to combined heat and power systems that are certified by the California Energy Commission as meeting the requirements of Assembly Bill 1613 and, if appropriate, having Qualifying Facility status pursuant to the Public Utility Regulatory Policies Act.

2. Energy Division staff’s recommendation to base pricing on the costs of a combined cycle gas turbine is adopted. However, inputs from the most recently adopted Market Price Referent must be used in the pricing formula as long as the Market Price Referent is calculated based on the costs of a proxy natural gas generation resource. Only new contracts executed after the effective date of this decision are impacted by updated pricing inputs. The pricing for executed contracts continues to be based on the pricing inputs in the contract at the time the contract was executed, for the life of the contract.

3. Each year, upon adoption by this Commission of a new Market Price Referent calculation, each California investor-owned utility must file a Tier-1 Advice Letter updating its Assembly Bill 1613 tariffs and standard contracts with
the new Market Price Referent inputs. The advice letters must be filed and
served within five days of the date that the order adopting the Market Price
Referent is mailed. This advice letter must also include a summary table of
information about resources procured as a result of this program in the previous
year and over the life of the program and updates on Location Bonus areas.
Energy Division staff will provide the utilities with a template for the
information to be provided in this table prior to the end of the program’s first
implementation year.

4. The California investor-owned utilities must revise the standard and
streamlined contracts to reflect the fact that, when entering into the contract, the
Combined Heat and Power Seller can (1) elect to manage its own allowances
(and request payment from the California investor-owned utilities according to
the terms outlined in this reimbursement methodology) or (2) elect to have the
California investor-owned utility purchase allowances for the emissions
associated with their electricity exports. Energy Division staff must determine
an appropriate publically available index for use in determining the price to be
paid for the allowances after seeking input from stakeholders by January 31,
2012. Energy Division will make this information available to stakeholders in an
appropriate manner.

5. The California investor-owned utilities must revise the standard and
streamlined contracts to reflect the definition of “Eligible CHP Facility” provided
herein.

6. The California investor-owned utilities must revise the standard and
streamlined contracts to reflect that in the case that a facility is decertified from
participating in the Assembly Bill 1613 program, the combined heat and power
generator should still be provided with the established short-run avoided cost
rate at the time of decertification and the utility should offer the combined heat and power generator the standard offer contract associated with that rate unless the Federal Energy Regulatory Commission were to revoke the Qualifying Facility status of the facility.

7. An AB 1613 CHP located within a Local Resource Adequacy area shall receive a 10% location bonus. Each utility shall to make its Local Resource Adequacy areas, including the specific substations included in each area, publicly available on its website. This information is required to be updated each year upon adoption by this Commission of the Local Resource Adequacy program requirements.

8. Within 45 days of the date this order is mailed, Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company shall file an advice letter in compliance with General Order 96-B. The advice letter shall include tariff sheets to implement the standard contract (Attachment A) and the simplified contract (Attachment B) adopted herein. The tariff sheets shall become effective on filing subject to Energy Division determining that they are in compliance with this order.

9. Within 6 months of the date this order is mailed, Sierra Pacific Power Corp. and PacifiCorp shall file an advice letter in compliance with General Order 96-B. The advice letter shall include tariff sheets to implement either:

   a. the simplified contract (Attachment B) with proposed modifications to account for their location outside of the California Independent System Operator-controlled grid, or

   b. a proposed simplified contract for eligible combined heat and power system less than 500Kw, as discussed in Ordering Paragraph 6 below.
10. Mountain Utilities and Bear Valley Electric Service shall be required to comply with the requirements of Assembly Bill 1613. If a combined heat and power system that is certified by the California Energy Commission under Assembly Bill 1613 wishes to locate in Mountain Utilities’ or Bear Valley Electric Service’s service territory, Mountain Utilities and Bear Valley Electric Service shall negotiate and enter into a contract with that eligible combined heat and power system if the system does not have an adverse effect on Mountain Utilities’ or Bear Valley Electric Service’s long-term resource planning, is cost effective, technologically feasible, and environmentally beneficial.

11. Pacific Gas and Electric Company, Southern California Edison Company, San Diego Gas & Electric Company, Sierra Pacific Power Corp. and PacifiCorp shall convene a working group with combined heat and power parties to establish a further simplified contract for eligible CHP system less than 500Kw. Within 6 months of the effective date of this decision, each investor-owned utility shall file an advice letter in compliance with General Order 96-B. The advice letter shall include tariff sheets to implement a further simplified contract for very small combined heat and power less than 500 Kw. The tariff sheets shall become effective on filing subject to Energy Division determining that they are in compliance with this order.

12. The costs and benefits arising from power received under Assembly Bill 1613 shall be allocated among bundled service customers of the electrical corporation, customers of the electrical corporation that receive their electric service through a direct transaction, as defined in Public Utilities Code Section 331(c), and customers of an electrical corporation that receive their electric service from a community choice aggregator, as defined in Public Utilities Code Section 331.1. The costs to be allocated, if any, shall consist of the
10% location bonus and any greenhouse gas compliance costs passed from the eligible combined heat and power system (Seller) to the electrical corporation (Buyer). These costs shall be allocated on an equal cents per kilowatt-hour basis. The calculation of the costs to be allocated, if any, shall be included in each electric corporation’s annual Energy Resource Recovery Account proceeding.

13. Rulemaking 08-06-024 remains open to address implementation of a “pay-as-you-save” program.

This order is effective today.

Dated December 17, 2009, at San Francisco, California.

MICHAEL R. PEEVEY
President
DIAN M. GRUENEICH
JOHN A. BOHN
RACHELLE B. CHONG
TIMOTHY ALAN SIMON
Commissioners