

Decision **PROPOSED DECISION OF ALJ DUDA (Mailed 11/3/2010)**

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the matter of the Application of PacifiCorp (U901E) for approval to implement a Net Surplus Compensation Rate.

Application 10-03-001
(Filed March 1, 2010)

And Related Matters.

Application 10-03-010
Application 10-03-012
Application 10-03-013
Application 10-03-017

**DECISION ADOPTING NET SURPLUS COMPENSATION
RATE PURSUANT TO ASSEMBLY BILL 920 AND THE PUBLIC UTILITY
REGULATORY POLICIES ACT OF 1978**

Table of Contents

Title	Page
DECISION ADOPTING NET SURPLUS COMPENSATION RATE	
PURSUANT TO ASSEMBLY BILL 920.....	2
1. Summary.....	2
2. Background.....	4
3. Jurisdiction.....	7
3.1. Commission Authority to Set a Net Surplus Compensation Rate.....	7
3.1.1. Parties’ Positions.....	7
3.1.2. Discussion.....	9
3.2. Authority over Interconnection	11
3.2.1. Parties’ Positions.....	11
3.2.2. Discussion.....	12
4. Net Surplus Compensation Proposals	13
4.1. PG&E’s Proposal	13
4.2. SCE’s Proposal	14
4.3. SDG&E’s Proposal	16
4.4. PacifiCorp’s Proposal	17
4.5. Sierra Pacific’s Proposal	17
4.6. Responses to Utility Proposals.....	18
4.7. Joint Solar Parties	19
4.8. CALSEIA/EC.....	22
4.9. DRA.....	23
4.10. City of San Diego.....	24
4.11. Acton	24
4.12. IREC	25
4.13. Solutions for Utilities	25
4.14. CARE.....	26
5. Adopted Value of Electricity.....	26
5.1. Discussion of Proposals Not Adopted	30
5.1.1. Utility Proposals	30
5.1.2. MPR.....	32
5.1.3. Other Proposals	35
6. Renewable Attributes and Renewable Energy Credits under NSC	38
6.1. RPS Eligibility, Metering and Tracking Requirements	40
6.2. What if customers have sold their RECs to a third party?.....	44
6.3. Value of renewable attributes	45

Table of Contents (cont.)

Title	Page
7. Implementation of NSC Payments	48
7.1. Does the customer need a bill credit to be eligible for an NSC payment?	48
7.2. Rollover of Excess kWh.....	50
7.3. Minimum payment amount	52
7.4. System sizing limits	53
7.5. Should Customers Repay CSI or SGIP Incentives to Receive NSC? ...	54
7.6. Are Community Choice Aggregation, Direct Access, and Other Customers Eligible to Receive NSC?	54
7.7. Administrative Costs	56
7.8. NEM tariffs.....	57
8. Comments on Proposed Decision	57
9. Assignment of Proceeding	59
Findings of Fact	59
Conclusions of Law	62
ORDER	65

**DECISION ADOPTING NET SURPLUS COMPENSATION
RATE PURSUANT TO ASSEMBLY BILL 920 AND THE PUBLIC UTILITY
REGULATORY POLICIES ACT OF 1978**

1. Summary

This decision fulfills the requirements of Assembly Bill 920¹ and adopts a net surplus compensation rate to compensate net energy metering customers for electricity they produce in excess of their on-site load at the end of a 12-month true-up period. Net energy metering customers who produce excess power over a 12-month period are known as “net surplus generators.”

Specifically, the net surplus compensation rate will be calculated using an avoided cost derived from an hourly day-ahead electricity market price known as the “default load aggregation point” (DLAP) price. A utility’s DLAP price reflects the costs the utility avoids in procuring power during the time period net surplus generators are likely to produce their excess power. Consequently, the DLAP price also meets our obligation to comply with the avoided cost principles of the Public Utility Regulatory Policies Act of 1978 (PURPA).²

The net surplus compensation rate will be a simple rolling average of each utility’s DLAP price from 7 a.m. to 5 p.m. to match the hours that most net surplus generators produce electricity with their generating facilities. The simple rolling average will match the 12-month period over which a customer’s net surplus generation is calculated. In 2009, this average DLAP price for Pacific Gas and Electric Company was approximately four cents per kilowatt hour.

¹ Stats. 2009, Ch. 376.

² PURPA is codified in scattered sections of 16 U.S.C. including § 796 (definitions), § 824a-3, and §§ 2601 *et seq.*

Next, the decision finds that net surplus generators must meet certain preconditions, namely Renewables Portfolio Standard (RPS) certification by the California Energy Commission (CEC) and renewable energy credit (REC) metering and tracking requirements approved by the CEC, in order to create RECs and for the utilities to count any net surplus generation they purchase toward RPS annual procurement targets. These requirements have not yet been established by the CEC.

Further, the decision finds that the net surplus compensation rate should include payment for the renewable attributes of net surplus generation, but this payment cannot occur until the CEC completes its work to establish an RPS certification and REC ownership verification and tracking process for net surplus generators. Until the CEC completes this RPS certification and REC verification and tracking work, all net surplus generators will be paid at the net surplus compensation rate based on DLAP. After the CEC process is complete, net surplus generators may be compensated at the net surplus compensation rate plus an adder for their renewable attributes based on an interim proxy rate derived from the Western Electricity Coordinating Council average renewable energy premium, published by the Department of Energy. This interim renewable attribute adder is currently calculated to be 1.83 cents per kilowatt hour. If the CEC authorizes retroactive RPS certification of net surplus generators, the utilities may retroactively pay the renewable attribute adder and utilities may retroactively count net surplus generation toward their RPS procurement goals.

Finally, net surplus generators seeking net surplus compensation payments for the renewable attributes of their electricity must certify they own any RECs associated with their generating facilities. Net surplus generators who

do not own or do not transfer their renewable attributes to the utility purchasing their excess generation will be compensated at the net surplus compensation rate without the renewable attribute adder.

2. Background

Assembly Bill (AB) 920 amends Pub. Util. Code § 2827³ and requires the Commission to establish a program to compensate net energy metering (NEM) customers for electricity produced in excess of on-site load at the end of a 12-month true-up period. In enacting AB 920, the Legislature stated that an NEM program combined with net surplus compensation (NSC) is one way to encourage substantial private investment in renewable energy resources, stimulate in-state economic growth, and reduce demand for electricity during peak consumption periods. (Section 2827(a).)

Specifically, the statute directs the Commission to adopt an NSC valuation to compensate a net surplus customer-generator for surplus kilowatt-hours produced over 12 months. The statute states, in pertinent part, that:

The net surplus electricity compensation valuation shall be established so as to provide the net surplus customer-generator just and reasonable compensation for the value of net surplus electricity, while leaving other ratepayers unaffected. The ratemaking authority shall determine whether the compensation will include, where appropriate justification exists, either or both of the following components:

- (i) The value of the electricity itself.
- (ii) The value of the renewable attributes of the electricity.

³ Unless otherwise specified, all further section references are to the California Public Utilities Code.

In establishing the rate pursuant to subparagraph (A), the ratemaking authority shall ensure that the rate does not result in a shifting of costs between solar customer-generators and other bundled service customers. (Sections 2827 (h)(4)(A) and (B).)

Customers may opt to receive either a payment for net surplus generation or to roll a credit for that generation into the next 12-month true-up period. (Section 2827(h)(3).) According to AB 920, the Commission shall establish an NSC rate by January 1, 2011.

In an Assigned Commissioner Ruling (ACR) dated January 15, 2010,⁴ in Rulemaking 08-03-008 (January 15th ACR), President Peevey directed Pacific Gas and Electric Company (PG&E), Southern California Edison Company (SCE), and San Diego Gas & Electric Company (SDG&E), to file applications no later than March 1 proposing an NSC rate, as well as other program implementation details pursuant to AB 920. Small and multi-jurisdictional investor-owned electric utilities were invited but not required to file applications as well. The January 15th ACR posed a series of questions regarding implementation of AB 920 and asked the utilities to respond to those questions.

On March 1, PacifiCorp, d.b.a. Pacific Power (PacifiCorp) filed the above-captioned application to implement an NSC rate. Subsequently, on March 15, Sierra Pacific Power Company⁵ (Sierra Pacific), PG&E, SCE, and SDG&E, each filed their above-captioned applications to establish an NSC rate. The five applications were consolidated by Chief Administrative Law Judge

⁴ All dates are 2010 unless otherwise noted.

⁵ Sierra Pacific is now known as California Pacific Electric Company (Cal PECO). We continue to refer to Sierra Pacific in this decision as all filings were made using that name. Any orders in this decision for Sierra Pacific will apply to Cal PECO.

(ALJ) Ruling on April 1 because the applications raise similar issues of law and fact.

Responses to the five utility applications were filed by Californians for Renewable Energy Inc. (CARE), the Commission's Division of Ratepayer Advocates (DRA), the Interstate Renewable Energy Council (IREC), PG&E, and jointly by the California Solar Energy Industries Association and the Environment California Research and Policy Center (together CALSEIA/EC). Protests to the applications were filed by the Acton Town Council (Acton), the City of San Diego, CARE,⁶ Donald W. Ricketts, and jointly by the Solar Alliance and Vote Solar Initiative (together Joint Solar Parties).

A prehearing conference (PHC) was held on May 18 to discuss the scope and schedule of this application, and a scoping memo was issued on June 1.

On June 21, non-utility parties filed their proposals for NSC rates. Proposals were filed by Acton, CALSEIA/EC, DRA, IREC, the Joint Solar Parties, and the City of San Diego. In addition, PG&E, PacifiCorp, SCE, SDG&E and Sierra Pacific filed supplemental information regarding their applications as directed in the scoping memo.

A workshop to discuss the proposals was held on July 9. Following the workshop, comments and reply comments on the proposals were filed by Acton, CALSEIA/EC, CARE, DRA, IREC, the Joint Solar Parties, PG&E, PacifiCorp, SCE, SDG&E, the City of San Diego, Sierra Pacific, Solutions for Utilities, The Utility Reform Network (TURN), and Wal-Mart Stores, Inc. (Walmart). A PHC scheduled for August 26 was cancelled by the assigned ALJ after she determined

⁶ CARE responded to the applications of SDG&E and PacifiCorp and protested the applications of Sierra Pacific, PG&E and SCE.

that further proceedings were unnecessary and that the case was submitted as of the reply comments on August 6, 2010.

3. Jurisdiction

3.1. Commission Authority to Set a Net Surplus Compensation Rate

3.1.1. Parties' Positions

The utilities raise the issue of whether the Commission has the authority to set an NSC rate given Federal Energy Regulatory Commission (FERC) jurisdiction over “the sale of electric energy at wholesale in interstate commerce.”⁷ According to the utilities, when an NEM customer produces excess power but receives a bill credit, i.e., a credit against its retail purchases, FERC considers this “netting” to be a billing arrangement and not a wholesale sale. PG&E cites a 2004 FERC order that states:

...under most circumstances [FERC] does not exert jurisdiction over a net energy metering arrangement when the owner of the generator receives a credit against its retail power purchases from the selling utility. [Footnote omitted.] Only if the Generating Facility produces more energy than it needs and makes a net sale of energy to a utility over the applicable billing period would [FERC] assert jurisdiction. [Footnote omitted.]⁸

Thus, the utilities claim FERC does not assert pricing jurisdiction over NEM billing arrangements where there is no “net sale” of electricity. However, they contend that if a customer’s generating facility produces more energy than it needs and makes a net sale of energy to a utility over the applicable billing

⁷ 16 U.S.C. § 824(b)(1).

⁸ FERC Order 2003-A, 106 FERC ¶ 61,220 (2004) at P 747 (footnotes omitted) (FERC Order 2003-A).

period and receives direct compensation for excess electricity, i.e. a check or one time payment rather than a bill credit offsetting future purchases, FERC considers this net sale a FERC jurisdictional wholesale transaction. (PG&E, 3/15/10 at 33; SDG&E, 3/15/10 at 6; PacifiCorp, 3/1/10 at 3.)

SDG&E further asserts that the only time a state commission has a role in setting a wholesale rate is under the Public Utility Regulatory Policies Act of 1978 (PURPA), which establishes a separate framework applicable to qualifying facilities (QFs) and provides that the state adopted rate may not exceed avoided cost. (SDG&E, 3/15/10 at 5-6.) SDG&E notes that FERC recently confirmed this “avoided cost” requirement for state-set wholesale rates. (SDG&E, 7/23/10 at 4, citing 132 FERC ¶61, 047 (July 15, 2010).) Similarly, CARE, DRA, PacifiCorp, PG&E and TURN agree that recent FERC orders appear to preclude net surplus compensation unless it represents the utilities’ avoided costs.

In contrast to these jurisdictional concerns, CALSEIA/EC, the City of San Diego, and IREC contend the state has the authority to set an NSC rate without restriction. CALSEIA/EC contend the question of Commission authority to set wholesale prices is irrelevant because “no seller is required to sell electricity to the utilities.” (4/23 at 17.) Further, CALSEIA/EC assert that AB 920 requires the utilities to offer to compensate for net surplus as an incentive to increase energy efficiency and meet solar rooftop environmental goals. IREC contends that NEM is a “billing arrangement” and not a wholesale sale. Likewise, the City of San Diego considers the utilities’ argument that NEM customer-generators must obtain certification as QFs as a creative barrier in order to pay NEM customers a lower rate for their net surplus generation. Both the City of San Diego and IREC note that wind and solar facilities with net power production capacity of 1 megawatt (MW) or less are no longer required to file a

QF certification with FERC. (IREC, 4/23/10 at 11, fn. 26 citing FERC Order No. 732, 130 FERC ¶ 61,214 (March 19, 2010).)

3.1.2. Discussion

In identifying the NSC rate to be paid to NEM customers, the Commission must consider both state and federal requirements. State law requires the Commission to establish a value for the NSC rate to be paid to NEM customers. Section 2827 requires that the NEM customer receive “just and reasonable compensation for the value of net surplus electricity, while leaving other ratepayers unaffected.”⁹ Section 2827 also provides that “where appropriate justification exists” the NSC can include either or both of “[t]he value of the electricity itself” or the “value of the renewable attributes of the electricity.”¹⁰ The statute then reiterates that in establishing the NSC the Commission shall ensure that it “does not result in a shifting of costs between solar customer-generators and other bundled service customers.”¹¹

When we consider federal law, we find the utilities are correct that FERC has held that a net billing arrangement is not subject to FERC jurisdiction so long as no “net sale” is made to the utility.¹² In addition, FERC has held that transfers

⁹ Section 2827(h)(4)(A).

¹⁰ Sections 2827(h)(4)(A)(i) and (ii).

¹¹ Section 2827(h)(4)(B).

¹² *MidAmerican*, 94 FERC ¶ 61,340 at 62,262-63 (2001) (*MidAmerican*) and *SunEdison LLC*, 129 FERC ¶ 61, 146 (2009) at 18 (*SunEdison*). (“Where there is no net sale over the billing period, the Commission has not viewed its jurisdiction as being implicated; that is, the Commission does not assert jurisdiction when the end-use customer that is also the owner of the generator receives a credit against its retail power purchases from the selling utility. [*citing to MidAmerican*]”).

of net surplus energy by a net metering customer to a utility are wholesale transactions that may comply with *either* the Federal Power Act (FPA) or PURPA.¹³

A recent FERC order reiterates the Commission has a wide degree of latitude in establishing avoided cost rates under PURPA and clarifies that the concept of a multi-tiered avoided cost rate structure is consistent with the avoided costs requirements of PURPA. (*California Public Utilities Commission*, 133 FERC ¶ 61,059 (October 21, 2010) at 20 and 24.) As this FERC order explains, avoided cost rates under PURPA may “differentiate among [QFs] using various technologies on the basis of the supply characteristics of the different technologies.” (*Id.* at 23.) The order further states that avoided cost rates for purchases from QFs must be, among other things, at rates that are not in excess of the “the incremental cost to the electric utility of alternative electric energy” which is further defined as “the cost to the electric utility of the electric energy which, but for the purchase from [the QF], such utility would generate or purchase from another source.” (*Id.* at P 22.)

Thus, the Commission should implement the NEM Program pursuant to PURPA. Under such a program, the Commission should establish an NSC rate that does not exceed the utility’s full avoided costs, but the Commission may differentiate an avoided cost rate for net surplus generators from the avoided costs rates currently paid to other QFs.

¹³ See, e.g., both *MidAmerican* and *SunEdison* at ¶ 18. (“Only if the end-use customer participating in the net metering program produces more energy than it needs over the applicable billing period, and thus is considered to have made a net sale of energy to a utility over the applicable billing period, has the Commission asserted jurisdiction.”)

NEM customers eligible for NSC under AB 920 must use a solar or wind generation facility of not more than 1 MW. FERC has recently modified its regulations so that generating facilities of 1 MW or less no longer need to file a certification of QF status with FERC to be considered a QF. (FERC Order 732, 130 FERC ¶ 61, 214 (March 19, 2010) and 18 CFR § 292.203(d)). Accordingly, NEM customers can be considered QFs exempt from certification requirements at FERC and may receive net surplus compensation at a rate that does not exceed avoided costs, as determined by the Commission. As discussed further in the next section, for purposes of interconnection, the Commission would require each NEM customer to notify the utility that they are a QF exempt from certification filing. This notification should occur at the time the NEM customer affirmatively elects either an NSC payment or application of their net surplus to future usage, pursuant to Section 2827(h)(3), and can be easily accomplished by the utility creating a notification form that customers would sign when making their NSC payment election.

3.2. Authority over Interconnection

3.2.1. Parties' Positions

In addition to concerns over Commission authority to set the NSC rate, PG&E raises jurisdictional concerns regarding interconnection issues. PG&E is concerned that because FERC will consider payment for net surplus a wholesale sale, FERC will assert jurisdiction over the interconnection between an NEM customer and PG&E. PG&E is concerned that application of FERC interconnection rules to NEM projects could result in customers paying higher interconnection application fees (\$500 to \$1000), and subject them to costs for interconnection studies and distribution system modifications. (PG&E, 3/15/10 at 32-35 and 6/21/10 at 7.)

PG&E proposes three possible solutions to its jurisdictional concerns. It suggests the Commission: 1) file a petition asking FERC to disclaim jurisdiction over interconnection of NEM customers electing compensation for net surplus generation under AB 920; 2) require all NEM customers to be QFs as a condition for eligibility for NSC (and thereby able to use the Commission's Rule 21 interconnection procedures); or 3) ask FERC to approve changes to the FERC-filed wholesale distribution tariff so that the FERC jurisdictional interconnection rules are the same for NEM customers electing NSC as the rules for those not electing NSC. PG&E prefers the first option, a petition asking FERC to disclaim jurisdiction.

The City of San Diego agrees with PG&E that the Commission should ask FERC to disclaim jurisdiction. Joint Solar Parties, IREC, and CALSEIA/EC disagree with PG&E. They maintain that FERC interconnection rules do not impact NSC implementation and the Commission has clear jurisdiction over interconnection arrangements for NEM customers.

3.2.2. Discussion

We share PG&E's preference for Rule 21 to govern interconnections of customers who receive NSC. Because this program is being implemented pursuant to PURPA, PG&E's second option is self-executing. As described in the section above, NEM customers opting for an NSC payment must self-designate as QFs to receive such a payment. This QF status entitles NEM customers to interconnect pursuant to the Rule 21 process without any further action by the Commission.

4. Net Surplus Compensation Proposals

Now that we have clarified our authority to identify an NSC rate based on avoided costs under PURPA, we turn to the various proposals offered by the parties.

AB 920 requires the Commission, when implementing the net surplus compensation rate, to consider whether the rate should include both the value of the electricity and the value of the renewable attributes of the electricity. The five utility proposals are similar in that each utility recommends a net surplus compensation rate that reflects a value of electricity based on the costs avoided by the utility for purchases of electricity. Most of the utilities then suggest an adder for the value of the renewable attributes of the power produced by eligible NEM customer-generators, i.e., generators using either a solar or wind turbine electric generating facility, or a hybrid system of both. (Section 2827(b)(4).) The actual basis for the electricity and renewable attribute values varies by utility. All five utilities generally argue that other ratepayers will be unaffected by an NSC rate as long as it is set equivalent to the costs the utility avoids by not generating energy itself.

The other, non-utility parties generally propose higher NSC rates, arguing that net surplus generation should be compared to the price of other renewable power sources. We describe the various proposals in greater detail below.

4.1. PG&E's Proposal

PG&E asserts that the NSC rate should be set equal to the cost the utility avoids by purchasing one less kilowatt hour (kWh) of energy from the California Independent System Operator (CAISO). Therefore, PG&E's proposed NSC rate is based on a simple average of hourly day-ahead locational marginal prices of electricity at the utility's default load aggregation point (DLAP). This simple

average would be based on DLAP prices between the hours of 7 a.m. and 5 p.m., or the hours of daylight when NEM customers generally produce power, over the 12-month true-up period. PG&E calculates that for December 2009, this average DLAP price was 5 cents/kWh and that from April to December 2009, the average DLAP price was 3.9 cents/kWh. (PG&E, 3/15/10, Attachment B at 4; PG&E, 6/21/10, Appendix A at 3.) PG&E states that use of an established, fully accessible price as the basis for NSC would reduce utility implementation costs.

To compensate for renewable attributes, PG&E would then add to the DLAP price the average renewable energy credit (REC) price over a 12-month period representing the cost PG&E avoids by purchasing the same amount of renewable kWhs. Because RECs are not yet traded and there is no public REC price available, PG&E proposes that in the interim until REC market prices are publicly available, the net surplus compensation for all payments in a calendar year should be based on PG&E's system average generation rate in effect on January 1 of that year. PG&E states that although this is an embedded, or average cost, as opposed to an avoided cost, it includes both the value of electricity and the value of renewable attributes. Currently for 2010, PG&E's system average generation rate is 8.1 cents/kWh. (PG&E, 3/15/10 at 5.)

4.2. SCE's Proposal

SCE contends that because the Commission must identify a just and reasonable rate that does not shift costs between customer-generators and other customers, the net surplus compensation rate should be based on a market metric. (SCE Testimony, 3/15/10 at 3.) SCE proposes to use a cost figure derived from the Market Redesign and Technology Upgrade (MRTU) Integrated Forward Market (IFM) as a reasonable proxy for a transparent market price for electricity that SCE would otherwise pay to procure electricity. Specifically, SCE

would base its rate on the average of hourly MRTU-IFM South of Path 15 Generation Hub prices over a year, weighted using SCE's 2009 load profile for residential customers. (SCE, 6/21/10, Attachment A at A-1.) For the period May 2009 to April 2010, this price is 3.793 cents/kWh. (*Id.* at A-2.) SCE would then add to this a value for renewable attributes based on renewable premiums from voluntary green energy programs in the Western Electricity Coordinating Council (WECC), as published periodically by the United States Department of Energy (DOE). SCE states that the average premium reported for the WECC is 1.83 cents/kWh (*Id.*).¹⁴

SCE proposes that the ultimate NSC a customer would receive would be based on "discounting" any bill credit remaining at the conclusion of the relevant period. Under SCE's proposal, a customer must have a bill credit to receive NSC. SCE would use the bill credit to calculate a "payout percentage" by adding together a class weighted average MRTU price for the applicable period and the average premium for renewable energy in the WECC, and dividing that sum by the average retail price for the individual NEM customer's rate group. A customer's NEM bill credit remaining at the end of the period would be multiplied by the payout percentage to determine net surplus compensation to the customer. SCE would calculate the net surplus compensation payout percentage monthly for each rate group. (*See* Exh. SCE-1, 3/15/10 at 8.)

According to SCE, use of a market-based NSC rate such as the one it proposes ensures that non-participating customers are not impacted because the payment for net surplus reflects what SCE would otherwise pay in the market.

¹⁴ According to SCE, this figure is based on the average of 88 data points from utilities within the WECC. (SCE, 3/15/10, Exhibit SCE-1 at 4.)

In addition, SCE contends that its proposal minimizes the administrative costs of the NSC program, and therefore has a minimal effect on non-participating customers.

4.3. SDG&E's Proposal

SDG&E proposes a net surplus rate based on the 12-month rolling average of short run avoided cost (SRAC) energy rates paid to QFs. The rolling average would correspond to the NEM customer's 12-month true-up period. According to SDG&E, over the last five years, the 12-month rolling average for the non-time-of-use SRAC energy rate has ranged from 4.5 cents/kWh to 9.3 cents/kWh. (SDG&E, Davidson Testimony, 6/18/10 at LCD-6.)

SDG&E's proposal includes a method to account for the time of delivery of the net surplus. For commercial and industrial NEM customers with time-of-use (TOU) metering, surplus kWhs would be aggregated by the TOU period and paid based on the SRAC energy rate for each period. For all other NEM customers, NSC would be calculated using the non-TOU SRAC rate, adjusted for time of delivery using a representative profile of excess generation derived from SDG&E load research data from residential NEM customers. (SDG&E, 7/23/10 at 5.) SDG&E proposes an annual update of this adjustment factor based on changes to both the SRAC TOU factors and the representative load profile. According to SDG&E, since the NEM program is a tariff with no long-term commitment from the customer, payments for excess generation should be at SRAC.

In addition, SDG&E would compensate for renewable attributes by adding the Market Price Referent (MPR) greenhouse gas (GHG) adder, or 0.8 cents/kWh, to the net surplus compensation rate until a REC market in California can be relied upon to provide public information on a competitive

REC price. (SDG&E, Davidson Testimony, 6/18/10 at LCD-11.) According to SDG&E, its NSC rate is transparent, has low administrative costs, complies with AB 920's mandate to not shift costs to bundled ratepayers, and meets FERC's avoided cost requirements.

4.4. PacifiCorp's Proposal

PacifiCorp proposes an NSC rate based on the QF avoided cost rates approved in its Oregon service territory, which are currently set at \$.0512 per kWh for on-peak power and \$.0395 per kWh for off-peak power. (PacifiCorp, 6/21/10 at 3.) A weighted average of these two rates based on the typical annual split of on-peak and off-peak hours results in a rate of \$.0462 per kWh. (*Id.*) PacifiCorp also proposes an adder for environmental attributes and transmission and distribution system benefits of \$.01 per kWh. According to PacifiCorp, only 34 customers take NEM service in its California territory and none of these customers has ever had net surplus generation at the end of the 12-month cycle.

4.5. Sierra Pacific's Proposal

Sierra Pacific has 20 NEM customers and only two had a net surplus in 2009. Given this low NEM participation, Sierra maintains that its circumstances warrant the use of a simplified approach. Sierra Pacific proposes to use the generation component for baseline quantities from its otherwise applicable retail rates as a proxy for the avoided cost of energy. According to Sierra Pacific, this generation component is currently equal to \$.05745 per kWh. (Sierra Pacific, 6/21/10 at 3.) Sierra Pacific does not propose paying for renewable attributes of the electricity because customer generators are not currently eligible for the Renewables Portfolio Standard (RPS) program and most NEM customer generation is not tracked by the Western Renewable Energy Generation Information System (WREGIS). Sierra Pacific contends that absent revisions to

the CEC's RPS Eligibility Guidebook, generation from NEM customers has no RPS value and it would be inappropriate to include a renewable adder in the NSC rate.

4.6. Responses to Utility Proposals

In response to the utility NSC proposals, most parties agree that the Commission should adopt a consistent methodology to set the NSC rate for all the utilities, but actual rates may vary by utility based on utility-specific cost data. Parties also generally agree that the Commission should minimize the administrative costs of implementing the NSC rate to avoid burdening non-participating customers.

Only two parties support a utility NSC rate proposal. CARE supports SDG&E's proposal to use SRAC energy rates as the basis for NSC, as well as PacifiCorp's proposal to compensate based on Oregon QF avoided costs prices. Wal-Mart supports SDG&E's proposal to use Commission-approved SRAC rates as the basis for NSC.

The remainder of the parties generally opposes the utility NSC proposals. According to the Joint Solar Parties, CALSEIA/EC, City of San Diego, and Acton, the utilities' proposals to use either short-term wholesale market prices, SRAC rates, or average generation rates do not reflect the costs the utilities would incur to procure a similar quantity of renewable generation to meet RPS requirements. CALSEIA/EC maintain that NSC payments based on average energy rates do not reflect that most NEM solar systems provide excess generation during peak periods of electricity demand. Thus, these parties contend that the utilities' proposals substantially under compensate customer generators for the value of on-peak, RPS eligible energy and fail to encourage surplus generation as

envisioned in AB 920. Further, the Joint Solar Parties claim the utilities' proposals do not include any compensation for avoided capacity costs.

4.7. Joint Solar Parties

The Joint Solar Parties agree with the utilities in concept that the NSC rate should be based on avoided costs. In their view, however, the proper avoided cost should be the Commission-adopted MPR, which is the all-in cost of a new 500 MW central station combined-cycle plant built in California, and includes costs to mitigate the plant's GHG emissions. They contend that the MPR is the correct avoided cost to use since it represents the "brown power" resource that the utility avoids constructing by instead purchasing and receiving RPS credit for net surplus generation. The Joint Solar Parties assert that because utilities will get RPS credit for net surplus purchases, they will avoid the long term costs of purchasing renewable generation under the RPS program and the value of renewable attributes is captured by the GHG mitigation costs incorporated into the MPR. In the future, however, they suggest a market-based REC price could be substituted for this GHG adder.

The Joint Solar Parties propose adjusting MPR to reflect the time of delivery (TOD) of solar generation, plus an adjustment for avoided line losses and avoided transmission and distribution (T&D) costs. According to the Joint Solar Parties, surplus power from NEM customer-generators typically serves nearby loads and reduces the loadings of both the local distribution feeder and the higher-voltage transmission and distribution grid, thus avoiding line losses. Plus, they assert that collectively, surplus generation from a large number of NEM customers can avoid the need for additional T&D capacity.

Specifically, the Joint Solar Parties propose the following adjustments to the MPR to set a NSC rate:

$$NSC = MPR \times TOD \text{ factor} + \text{avoided line losses} + \text{avoided T\&D}$$

The Joint Solar Parties' TOD factor is calculated by applying a representative hourly solar output profile to the TOD factors used in each utility's most recent RPS solicitation. Joint Solar Parties explain that this TOD factor implicitly assumes that net surplus generation has the same distribution as the typical solar output profile, and is a reasonable simplifying assumption. They recommend a single solar production profile for each utility. Avoided line losses and avoided T&D would be based on the Commission's most recently adopted avoided cost model for energy efficiency (the "E3 avoided cost model").¹⁵

Joint Solar Parties recommend that the MPR rate that should apply for an individual NEM customer-generator is the 20-year contract rate beginning in the year that the NEM customer begins operation, and the rate would be fixed for the life of the NEM system. The Joint Solar Parties assert this would provide the customer certainty and would provide ratepayers a hedge against future increases in the price of fossil fuels. Existing NEM generators who went into operation prior to the MPR taking effect in December 2009, would receive a rate based on the 2008 MPR for a 20 year contract starting in 2009. The Joint Solar Parties propose the NSC rate could be updated by advice letter each time the Commission revises the MPR.

The Joint Solar Parties provide estimates for their proposed NSC, which vary depending on the utility. For a project that begins operation in 2009 or earlier, rates would begin with the 2008 MPR of 11.1 cents/kWh, and then be

¹⁵ The "E3 avoided cost model" is named after Energy and Environmental Economics, the consultants that developed it, and was adopted in D.05-04-024, updated in D.06-06-063, and is described in D.09-08-026.

adjusted by TOD factors, avoided line losses, and avoided T&D costs using values distinct for each utility. Projects that begin in 2010 would be based on the 2009 MPR of 9.67 cents/kWh, also adjusted for TOD factors, and avoided line losses and T&D costs. Given all these adjustments, the Joint Solar Parties proposed rates are as follows:

Joint Solar Parties' Proposed NSC Rates in cents/kWh¹⁶

	PG&E	SCE	SDG&E
NSC Rate for Projects that begin in 2009 or earlier	16.8	17.3	17.6
NSC Rate for Projects that begin In 2010	15.1	15.3	15.9

The Joint Solar Parties contend their proposed NSC is reasonable and will leave ratepayers unaffected because it reflects costs the utility will avoid through purchase of this generation. They maintain that an NSC rate based on MPR is appropriate because it includes payment for the value of capacity similar to the Commission's finding in D.82-01-103 that avoided cost rates should consider the value of energy and capacity from QFs. According to the Joint Solar Parties, the Commission already uses MPR to price surplus output from small renewable generators up to 1.5 MW pursuant to AB 1969,¹⁷ which is a program analogous to NSC. They contend that even if RPS legislation ends the use of the MPR for the RPS program, the Commission can maintain the MPR as an important pricing benchmark.

¹⁶ Joint Solar Parties, 6/21/10, Tables 1 and 2 at 3-4.

¹⁷ Stats 2006, Ch. 731.

The utilities and TURN oppose the Joint Solar Parties' proposal to base NSC on the MPR. Acton supports use of the MPR, with suggested modifications. The details of the opposition to MPR are discussed below in Section 5.

4.8. CALSEIA/EC

CALSEIA/EC assert that the NSC rate should be based on the full value of peak-generated renewable electricity because it is essential to give NEM customers an adequate incentive to reduce their electricity consumption and avoid sending power to the grid without compensation. They claim that under the current NEM program, homeowners with solar installations have an incentive to waste electricity rather than give it away for free to their utility company. Therefore, they suggest the NSC be set at either of the following: 1) the full retail electric rate, or 2) the feed-in tariff rate for solar power systems that the Commission will determine when it implements Senate Bill (SB) 32¹⁸ in Rulemaking (R.) 08-08-009. CALSEIA/EC argue that when the Commission sets a feed-in tariff rate in R.08-08-009, that rate should include social and environmental benefits of solar as well as the electricity value.

CALSEIA/EC recommend that to calculate the NSC rate, the Commission should rely on a study they commissioned as part of the SB 32 feed-in tariff proceeding, which recommends a rate based on the MPR plus environmental and health benefits, time of delivery factors, avoided T&D and line losses, grid reliability, and REC values. They assert that the market value of a REC does not by itself represent the total value of renewable attributes. Therefore, they contend the Commission should consider environmental adders on top of the

¹⁸ Stats. 2009, Ch. 328.

value of the REC in the NSC rate. Moreover, they suggest the NSC rate should be fixed for a ten-year period beginning with the date of online generation. CALSEIA/EC contend other ratepayers will be unaffected by their NSC rate proposal because few customers will be eligible for NSC. Thus, there will be minimal program cost to non-participants.

The CALSEIA/EC proposal is opposed by PG&E, PacifiCorp, TURN, and Acton, as discussed more fully in Section 5.1 below.

4.9. DRA

DRA proposes an interim rate to take effect on January 1, 2011, based on the most current MPR, adjusted based on time of delivery of the net surplus. SDG&E opposes DRA's interim MPR proposal, claiming it is not a proper avoided cost measure. Several parties oppose DRA's interim rate proposal, stating the Commission should simply adopt a final and permanent NSC rate at this time.

For a permanent NSC rate, DRA proposes the Commission set the NSC based on the DG avoided cost methodology recently adopted in D.09-08-026 and used in the NEM cost-effectiveness evaluation performed in accordance with that decision. DRA notes that DG avoided costs have not been subject to public input, so additional public input is needed before they could be used to set NSC rates. Furthermore, DRA suggests that the NSC be adjusted for each customer's net generation profile. DRA contends this would require only simple arithmetic calculations involving TOU data for each customer which DRA asserts should be readily available in the utility billing system. Several parties oppose this proposal, stating it would be too difficult and costly to implement.

4.10. City of San Diego

The City of San Diego is a large customer of SDG&E with an active Distributed Energy Resources Program involving over 18 MW of generating capacity. The City contends that ideally the NSC rate should be set at the utility's marginal cost for renewable generation. However, since this price is not publicly available, a reasonable proxy is the cost of utility-owned renewable energy facilities, such as the all-in average cost of power from the utilities' own photovoltaic (PV) generating facilities. The City of San Diego estimates this rate is 20 to 25 cents per kWh. In the alternative, the City proposes the NSC be set equal to the utility's full retail electric rate.

The City of San Diego asserts this is reasonable because most generation from NEM customers comes from PV, and although this power is intermittent, the Commission has previously paid QFs for capacity. It maintains that a large collection of NEM customers can provide a quantity of energy that is as predictable as power provided by utility-owned solar projects. The City of San Diego asserts its proposed NSC rate leaves other ratepayers unaffected since it displaces purchases of renewable power at the utilities' marginal cost.

The utilities and TURN oppose the City of San Diego's proposal.

4.11. Acton

According to Acton, the NSC should be based on the renewable energy prices defined in executed RPS contracts approved by the Commission. Specifically, the NSC rate should reflect RPS contract rates during the same true-up interval because the surplus generation is new renewable energy that the utilities can count toward their RPS goals, and it avoids purchases of renewable energy. Using RPS contract values will leave other ratepayers unaffected as they will pay the same for all renewable power. Customer generators should be paid

for the actual value of their surplus energy and the best measure of this is actual contract prices, not short-term market prices as the utilities propose.

Furthermore, Acton proposes that the NSC should be based on the time of delivery, i.e. the time the excess power is placed on the distribution network, relying on existing rate data.

4.12. IREC

IREC does not offer a specific rate proposal, but urges a single methodology where the precise rate can vary across utilities. IREC contends that solar installations by NEM customers are fixed additions to the grid that will provide energy over multiple decades, as recognized in the Commission's long-term procurement proceedings. Therefore, IREC supports the Joint Solar Parties' proposal to value excess energy at a long-run avoided cost using the MPR. Moreover, IREC asserts that to value surplus generation from NEM customer-generators at a short-run avoided cost price while valuing wholesale DG at a long-run MPR price creates an unexplained disconnect in the valuation of these similar resources.

4.13. Solutions for Utilities

Solutions for Utilities supports an NSC rate based on a utility's retail electric rate, which it further maintains should be the Tier 3 summer rate because the utility company will avoid transmission and distribution expenses and it will essentially sell the excess power to adjacent property owners at tiered rates. Solutions for Utilities contends its proposal will incentivize surplus generation.

PG&E and SDG&E oppose this proposal, claiming that payment based on Tier 3 summer rates would be in excess of utility avoided costs.

4.14. CARE

CARE does not provide its own NSC rate proposal, but it supports the proposals by SDG&E and PacifiCorp. In addition, CARE contends that any excess energy produced is FERC jurisdictional, and since TOU meters can take readings in ten second intervals, the applicable NEM true-up period should be a ten second interval. It is unclear from CARE's comments how the Commission would implement a ten second true-up period given the existing NEM program with an annual true-up.¹⁹

5. Adopted Value of Electricity

According to the statute, the Commission may determine whether net surplus compensation should include either or both the value of electricity itself and the value of the renewable attributes of the electricity, "where appropriate justification exists." (Section 2827(h)(4)(A).) We discuss the value of electricity itself first.

As described in Section 3.1 above, the Commission must consider both state and federal (i.e., PURPA) requirements in adopting an NSC rate. We adopt an avoided cost derived from the DLAP, which represents short-term wholesale energy prices. This avoided cost approach reflects the incremental cost the utility avoids by receiving surplus generation from NEM customers. Such an avoided cost complies both with PURPA and with the mandate of Section 2827(h)(4)(A-B) that the adopted rate be just and reasonable, leave other ratepayers unaffected, and not shift costs between solar customer-generators and other bundled service customers.

¹⁹ It was difficult to discern CARE's positions from its comments and in general, its comments provided little assistance in reaching the conclusions in this decision.

We find PG&E's proposal to use DLAP prices is the most reasonable and efficient source for an avoided cost electricity value to include in our adopted NSC rate for several reasons. First, DLAP prices are hourly day-ahead electricity market prices that are transparent and publicly available on the CAISO website.²⁰ DLAP prices represent the price that a utility pays for a quantity of energy sufficient to meet its day-ahead load and are the costs the utility avoids when NEM customers export excess energy between 7 a.m. and 5 p.m. We conclude other ratepayers will be unaffected if the utility compensates net surplus generation at this rolling average of the day ahead market price for power.

Second, PG&E proposes to base its rate on a simple rolling average of these hourly DLAP prices from 7 a.m. to 5 p.m. over the customer's true up period. We agree with PG&E that these hours reasonably correspond to the hours that most NEM customer-generators produce power. We find it appropriate to compensate net surplus generators at an average of the rate the utility potentially avoids by receiving the customer's net surplus generation. We conclude that basing the NSC rate on a simple rolling average of hourly DLAP prices for the 12-month period that corresponds to the NEM customer's true-up period reasonably reflects the costs the utility avoids in procuring power during the time period NEM customers are likely to produce their excess power.

²⁰ PG&E's DLAP prices can be found at <http://www.caiso.com> by clicking on the link to "OASIS," then clicking on "Prices" and choosing the "Locational Marginal Prices" report from the Report dropdown menu.

Moreover, this simple rolling average over a 12-month period is a reasonable approach when we consider that the amount of net surplus energy that is likely to be compensated is quite small compared to California's total electricity load. The cost of calculating market prices with more specificity would likely outweigh the value of the program. According to PG&E, data from 2009 indicates that fewer than 10% of its NEM customers, or 2,450 customers, were net exporters of electricity and they generated a total of 5,212,073 kWhs. (PG&E, 3/15/10 at 10 and 12.) Over 40% of the net exporters on PG&E's systems had net exports of 100 kWh or less. (*Id.* at 10.) Data supplied by CALSEIA/EC supports the conclusion that total dollars that will be paid out for NSC is likely to be minimal. They report that in 2009, SDG&E had fewer than 1,000 customers eligible for NSC, generating on average less than 2,500 kWhs, while SCE reported fewer than 1,500 customers eligible for NSC, also generating on average less than 2,500 kWhs.²¹ (CALSEIA/EC, 6/21/10 at 6.) This data indicates that SDG&E and SCE net surplus generators would receive individual annual payments of less than \$100, if the NSC rate is four cents/kWh.

We find PG&E's NSC proposal is administratively simple because it relies on public electricity prices and uses a simple methodology to convert those prices into an NSC rate that corresponds to the 12-month true-up period for the NEM customer. The three utilities can each use their own published DLAP prices using the same averaging technique proposed in PG&E's application to calculate the NSC rate for their customers. (*See* PG&E, 3/15/10, Attachment B.)

²¹ Assuming an NSC rate of four cents/kWh (based on the 2009 average) and annual net surplus generation for PG&E, SCE, and SDG&E of 12 million kWh, total annual net surplus compensation would equal \$480,000.

The simplicity of this approach gives us an avoided cost NSC rate at a low administrative cost. We do not want the cost of implementing NSC to dwarf the compensation the customers receive under the program.

Finally, our adopted DLAP pricing approach works well with the annual netting period required by Section 2827(h)(3). DRA and Acton object to the annual average pricing approach and propose an NSC that attempts to compensate based on the time that surplus is placed on the distribution system. (Acton, 6/21/10 at 5; DRA, 6/21/10 at 6.) We conclude that tracking individual customer usage and exports more frequently than on an annual basis would drive up administrative costs and deviates too greatly from the existing NEM program and statute. The statute repeatedly refers to net surplus as calculated over a 12-month period. Within the 12-month period, customers offset their usage with their generation at the full retail electric rate. AB 920 does not change this, but merely adds a compensation requirement over and above the full retail credits. If we base NSC on a rolling average DLAP price, it allows the monthly NEM netting process at full retail rates to continue in accordance with the current NEM program.

In summary, we will direct PG&E, SCE and SDG&E to use the simple rolling average of their DLAP prices from 7 a.m. to 5 p.m., corresponding to the customer's 12-month true-up period, as the value of electricity incorporated into each utilities' NSC rate. The rolling average should be calculated on a monthly basis and be applied to all customers with a true-up period in the following month. Each utility should file a Tier 3 advice letter containing its revised NEM tariffs to implement the NSC program, the initial calculations for the DLAP-based NSC rate described in this decision, and specifics on a process for monthly updates to the rate. The NSC rate for each utility shall take effect upon

Commission approval of that utility's advice letter. According to Section 2827(h)(3), customers were notified in January 2010 that they could opt to receive NSC. Therefore, the NSC rates approved through each utility's advice letter will apply to customers who chose NSC when notified in January 2010, or thereafter.

With regard to Sierra Pacific and PacifiCorp, we realize that these two utilities have very few customers that may qualify for NSC payments, and we agree that we should make administration of NSC as simple as possible given the unique characteristics of these two utilities with small territories in California. According to Sierra Pacific, it operates its own balancing authority and is not part of the CAISO, so it has no DLAP prices. Therefore, for administrative simplicity, we direct Sierra Pacific to base its NSC rate on PG&E's DLAP price. It is unclear if separate DLAP prices exist for PacifiCorp. If PacifiCorp does have DLAP prices, those prices should be used to calculate its NSC rate using the methodology described in this decision. We expect that PacifiCorp can mirror the PG&E DLAP pricing approach without undue burden. In the event DLAP prices do not exist within PacifiCorp's California territory, we direct PacifiCorp to base its NSC rate on PG&E's DLAP price. Sierra Pacific and PacifiCorp shall each file an advice letter in compliance with this order either to provide their calculations for a DLAP-based NSC rate or to notify the Commission they will use PG&E's NSC rate.

5.1. Discussion of Proposals Not Adopted

We decline to adopt other parties' proposals as set forth below.

5.1.1. Utility Proposals

Similar to PG&E's proposed electricity value, SCE's proposal involves an avoided cost. We prefer PG&E's proposal to use DLAP prices because net

surplus generation will create exports from NEM customers, which will likely offset other customers' load and result in fewer purchased kWhs of load at the DLAP price. SCE's proposal is less appropriate because the MRTU generation hub price is the price paid for additional kWhs of sales to the CAISO, and NEM customer generators do not sell directly to the CAISO. (PG&E, 3/15/10 at 4, n. 1.)

Moreover, we agree with the Joint Solar Parties and Acton that SCE's method of converting bill credits to NSC using a weighted average ratio is overly complex, results in different prices for different customers, and could result in higher administrative costs. (Joint Solar Parties, 7/23/10 at 17.) As the Joint Solar Parties point out, it is problematic that under SCE's proposed NSC ratio approach, a customer's payment is determined in part by the size of any remaining bill credit. The larger the bill credit, the larger the payout, while a customer with net surplus generation but no bill credit receives no NSC payment. In addition, SCE proposes to weight average hourly MRTU prices based on a customer load profile. SCE provides only one sentence in an attachment explaining this solar profile weighting and we find this explanation insufficient.

SDG&E and PacifiCorp both propose NSC rates based on SRAC prices paid to QFs. We prefer an avoided cost approach to valuing NSC, in line with the authority granted in the recent FERC order that allows us to differentiate avoided costs on the basis of the supply characteristics of the different technologies, i.e. the unique attributes of the excess power received from net surplus generators. (*See* 133 FERC ¶ 61, 059 (October 21, 2010) at ¶ 23.) Although SRAC QF pricing sounds simple and straightforward, it is not. SRAC QF rates are frequently subject to litigation and adjustment in regulatory

proceedings. Plus, there are many different settlements and rates for QFs, depending on whether they are renewable or non-renewable. We prefer a publicly available market-price as the avoided cost for our NSC rate. In addition, SDG&E is not simply using the QF SRAC price, but proposes to adjust that rate based on an annually determined time-of-delivery factor. For non-TOU customers, this adjustment would be based on a representative profile of excess generation derived from SDG&E load research data. (SDG&E, 7/23/10 at 4-5.) We find this adjustment to QF rates complicated and likely to make annual NSC rate updates overly contentious and resource-intensive.

We also reject the interim rate proposed by PG&E and the rate proposed by Sierra Pacific. PG&E suggests an interim NSC rate based on its system average generation rate, while Sierra Pacific proposes an NSC equal to the generation component for baseline quantities from its retail rates. PG&E acknowledges that its proposed interim rate is the generation component of retail rates and represents embedded or average, costs and not avoided or marginal costs. (PG&E, 3/15/10 at 5, n. 3.) Sierra Pacific's proposed rate is similar. Both of these rates are set in regulatory proceedings based on utility costs. We consider our approach of identifying an avoided cost, such as publicly available DLAP prices, to be superior. In our view, a utility's DLAP price more reasonably reflects the costs a utility avoids when NEM customers deliver excess generation to the grid and it is more appropriate to compensate net surplus generators using an avoided cost rather than an embedded cost.

5.1.2. MPR

We reject the Joint Solar Parties' suggestion to base the NSC rate on the Commission-adopted MPR, plus additional adjustments, for several reasons. First, we reject the proposal to rely on an MPR-based NSC rate because the MPR

represents the cost to construct, operate and maintain a 500 MW combined cycle gas turbine, and we do not believe that surplus generation from NEM customers will result in avoided procurement from such a facility. Rather, we find that surplus generation from NEM customers is more likely to avoid short term wholesale purchases by the utilities. Thus, an MPR-based NSC rate would be inappropriate. As SCE and TURN both note, the MPR is a legislatively mandated metric intended as a cost benchmark for RPS projects with a known energy output, while NSC involves payment to NEM customers for an inherently unknown amount of net surplus generation. We agree with TURN that net surplus generation bears greater similarity to short term energy purchases by the utilities than the output of a long-term renewable generator under a power purchase agreement. As TURN notes, surplus generation cannot be forecast and only reduces real time market purchases. It does not serve as a hedge against gas price volatility so it should not be compensated as such. Since an individual NEM customer has no obligation to provide any energy to the utility, the only generation cost that the utility avoids when an NEM customer provides surplus is the reduced procurement of electricity from the CAISO wholesale market. While Joint Solar Parties contend the MPR should determine the NSC rate because it is used to pay generators under AB 1969 tariffs, we find the AB 1969 program is distinguishable from NSC because AB 1969 involves contracted power, while NSC involves payment for incidental, non-contracted power production.

Second, we reject the proposal to use the MPR to set the NSC rate because we agree with the utilities and TURN that it is not appropriate to pay net exports which can be occasional, intermittent, and unpredictable, using a cost methodology that assumes a long-term projection of costs and includes a value

for capacity. As SDG&E notes, NEM customers are not under a long-term contract to provide surplus generation. Thus, the NSC program cannot be counted on for resource adequacy and the utilities do not avoid capacity costs when a customer installs net metered solar or wind generation. We do not agree with the arguments by Joint Solar Parties that prior decisions to pay QFs a capacity payment require payment for capacity to net surplus generation by NEM customers. NEM customers are required to size their systems to be no larger than onsite load and for most NEM customers, there is little or no net surplus generation over a 12-month period. In addition, as PG&E notes, AB 920 describes payment for the “value of electricity itself,” implying an energy only payment. We agree with SCE that NEM customers already receive a form of compensation for capacity by having their total generation netted with their total consumption at the bundled retail electric rate. An additional payment for capacity from net exports would over-compensate them and violate the customer indifference requirement in AB 920.

Third, we reject the proposal by the Joint Solar Parties to include avoided T&D costs in an MPR-based NSC rate. We agree with the utilities that we should not include avoided T&D in the NSC rate because it has not yet been demonstrated that net surplus generation avoids these costs. We have no way of knowing if each of the net metering customers would be in congested areas or would always be in a situation where they do not need to purchase electricity from the utility. As PG&E, Sierra Pacific and SDG&E explain, NEM customers make use of the T&D system to export their generation and it is impossible to forecast when and if exports will occur. As a result, net surplus generation may not defer capital investments. Moreover, NEM customers with exports during

peak months already receive compensation for exports that offset their usage at the bundled retail electric rate.

Fourth, we reject the concept of fixing the NSC rate for each customer for the life of that customer's system based on the MPR adopted in the year the system becomes operational. We agree with DRA, PacifiCorp and TURN that it is unreasonable to fix an NSC rate for the system life based on a 20-year forecasted rate such as the MPR. Further, we agree with SDG&E that basing the NSC rate on a fixed MPR value would create a mismatch between NEM credits, which are based on current retail electric rates that vary annually, and a fixed MPR-based payment for net exports. As we determine here, the NSC rate should reflect a short-term market price for electricity that represents the costs avoided by the utility over the same 12-month period in which the exports were produced.

Finally, we disagree with the Joint Solar Parties' use of an estimated solar generation profile to adjust the MPR. While we understand the Joint Solar Parties' argument that use of a generation profile is a simplifying assumption because a profile of net exports (i.e., generation minus usage) is customer specific, we find this is too great a simplifying assumption. We agree with PacifiCorp, PG&E and TURN that a profile of net exports would likely yield a different shape than a profile of generation alone.

5.1.3. Other Proposals

We decline to adopt proposals by CALSEIA/EC and Solutions for Utilities to base NSC on retail electric rates because, in our view, this would over-compensate NEM customers by paying them a rate above and beyond the value of electricity. As the utilities point out, costs associated with T&D infrastructure, billing, and other utility services are not avoided when a customer installs a

generation system. If we set the NSC at the full retail electric rate which includes T&D, and other utility administrative and overhead costs, this would shift the collection of these costs to other ratepayers in violation of Section 2827(h)(4)(A) which requires that non-participating customers be indifferent to the NSC rate.

Further, we will not adopt the proposal by CALSEIA/EC to set the NSC rate equal to the feed-in tariff rate that will be adopted in R.08-08-009 pursuant to SB 32. AB 920 requires the Commission to set the NSC rate by January 1, 2011. Proceedings to set the SB 32 feed-in tariff rate are at a preliminary stage and it is unclear when the feed-in tariff would be available and whether it would even apply to PacifiCorp and Sierra Pacific. CALSEIA/EC fail to suggest what rate should apply in the interim, while there is no feed-in tariff rate in effect. Moreover, it is unclear that a rate under SB 32 to compensate for power provided pursuant to a tariff should apply for incidental and occasional net surplus power provided by NEM customers.

Moreover, we reject the adders to the feed-in tariff rate proposed by CALSEIA/EC to account for avoided emissions costs and health benefits to society. As PG&E notes, emission control costs are not avoided by the utility when NEM customers provide net surplus power. This is because any power purchased by the utility must comply with emission requirements and those costs are built into the price the utility pays, in this case, the DLAP price. If the NSC rate included emissions adders on top of avoided energy values, PG&E would be paying twice for the same costs. Moreover, we agree with Acton, TURN and PG&E that non-monetized benefits such as “health benefits for avoided state emissions” have not been recognized by the Commission to date and are too vague.

We will not adopt the proposal by Acton to set NSC based on RPS contract prices. We agree with SDG&E, PG&E and SCE that it is not reasonable to pay RPS contract prices when there is no long-term commitment from NEM customers to generate surplus power. In our view, ratepayers would not be indifferent if they were paying a premium contract price for non-contracted power. As SCE notes, NEM customer generators' systems are intended primarily to offset part or all of each NEM customer's own electrical requirements and are not dedicated generating systems built solely to serve a utility's load. We agree with SCE that the only generation cost avoided by the utility when an NEM customer delivers surplus generation is reduced procurement of electricity in the short-term wholesale market.

The proposal by the City of San Diego to equate the NSC with the price paid for utility-owned solar generating plants is also rejected.²² SCE and TURN contend that the Commission-adopted price of utility-owned solar plants is an "all-in" price for a long-term central station generating facility with a long-term contract and it is inappropriate to compensate intermittent surplus generation at this rate. TURN adds that it is unreasonable to pay the full, levelized cost of utility-owned solar for excess NEM generation, especially when ratepayers already subsidize NEM customer-generators through California Solar Initiative (CSI) and the Self Generation Incentive Program (SGIP) incentives and by paying NEM bill credits at the full retail electric rate. We agree.

Finally, we reject the proposal by DRA to base the NSC on DG avoided cost calculations. While the Commission adopted a methodology to analyze DG

²² See D.09-06-049 (SCE), D.10-04-052 (PG&E), and D.10-09-016 (SDG&E) where the Commission adopted prices for utility-owned solar plants.

costs and benefits in D.09-08-026, and this methodology includes DG avoided cost estimates, certain components of the methodology were not finalized in D.09-08-026, and work continues to address these components. This proceeding is not an appropriate venue to examine these debated components and settle long-standing disputes over DG avoided cost calculations. To undertake this effort would inappropriately delay a final NSC rate beyond the statutory deadline in Section 2827 and require an interim rate.

6. Renewable Attributes and Renewable Energy Credits under NSC

Next, we must address issues surrounding the treatment of RECs arising from net surplus generation. AB 920 provides that the utilities that purchase net surplus generation shall receive the RECs associated with such generation and that the electricity purchased shall count toward their RPS targets, consistent with the RPS statutes. Specifically, Section 2827(h)(5) states:

(5)(A) Upon adoption of the net surplus electricity compensation rate by the [Commission], any renewable energy credit, as defined in Section 399.12, for net surplus electricity purchased by the electric utility shall belong to the electric utility. Any renewable energy credit associated with electricity generated by the eligible customer-generator that is utilized by the eligible customer-generator shall remain the property of the eligible customer-generator.

(B) Upon adoption of the net surplus electricity compensation rate by the [Commission], the net surplus electricity purchased by the electric utility shall count toward the electric utility's renewables portfolio standard annual procurement targets for the purposes of paragraph (1) of subdivision (b) of Section 399.15,

Section 399.12 defines a REC as "a certificate of proof, issued through the accounting system established by the [CEC] pursuant to Section 399.13, that one unit of electricity was generated and delivered by an eligible renewable energy

resource.” Section 399.13 confers upon the CEC the authority to certify eligible renewable energy resources, to design and implement an accounting system to verify compliance with RPS by retail sellers, to ensure electricity generated by renewable energy resources is only counted once, and to establish a system for tracking RECs. Currently, in order to qualify for RPS compliance, renewable energy generators must be certified as eligible by the CEC, and the REC must be tracked and verified in WREGIS, which requires the meter measuring the generation to have accuracy of plus or minus two percent. At this time, almost no DG is RPS-eligible, except DG systems under AB 1969 tariffs,²³ and it is unclear whether systems on net metering tariffs have meters that comply with WREGIS accuracy requirements. The CEC will determine the eligibility of customer-side DG for the RPS and the system for tracking RECs from these resources. This will likely occur through revisions to its *RPS Eligibility Guidebook*.

²³ The *RPS Eligibility Guidebook* (3d ed., December 2007) (available at <http://www.energy.ca.gov/2007publications/CEC-300-2007-006/CEC-300-2007-006-ED3-CMF.PDF>) explains that:

The Energy Commission will not certify distributed generation PV and other forms of customer-sited renewable energy into the RPS at this time, with the following exception.

The Energy Commission will certify facilities that would have been considered distributed generation facilities except that they are participating in a standard contract/tariff executed pursuant to Public Utilities Code § 399.20, as implemented through the CPUC Decision 07-07-027 (R.06.05.027), executed pursuant to a comparable standard contract/tariff approved by a local publicly owned electric utility. . . , or if the facility is owned by a utility and meets other requirements, to become certified as RPS-eligible

The Energy Commission will not certify distributed generation facilities as RPS-eligible unless the CPUC authorizes tradable RECs to be applied toward the RPS. (*RPS Eligibility Guidebook* at 18.)

Given these factors, we must now discuss the mechanics of how any RECs from net surplus generation may be counted by the utilities as well as whether and how much to compensate net surplus generators for the renewable attributes of their electricity.

6.1. RPS Eligibility, Meter and Tracking Requirements

Several parties, namely PG&E, SCE, the Joint Solar Parties, CALSEIA/EC, IREC, the City of San Diego and DRA, suggest that in order to implement AB 920, the Commission can ignore the RPS statutes, essentially Sections 399.12 and 399.13, which mandate CEC RPS eligibility and WREGIS metering and registration requirements. These parties contend that AB 920 expressly intends for the utilities to receive RECs from net surplus generation and count them toward their RPS annual procurement targets, and that CEC certification and WREGIS metering requirements are not necessary preconditions for this to occur. According to SCE, AB 920 should be construed in a simple fashion to facilitate utility purchases of renewable attributes from NEM customers. SCE recommends a “carve-out” arrangement, where net surplus generation purchased by the utilities under AB 920 would not have to be tracked in WREGIS or meet CEC RPS eligibility requirements in order to be counted towards utility RPS targets.

PG&E and others claim it would be complex and expensive for customers to obtain RPS certification and register with WREGIS. Further, if customers have sold their RECs to a third party through a Power Purchase Agreement, it will be impractical and costly for PG&E to obtain ownership declarations from each customer. These parties contend the simple and cost-effective approach is to allow customers with net surplus generation to receive compensation for the

renewable attributes of their excess generation, and for the utilities to get RPS credit for the generation, whether or not the facility is certified as RPS-eligible by the CEC, whether or not the facility generates a REC that is tracked through WREGIS, and whether or not the NEM customer actually owns the REC.

We disagree with these parties' suggestion that the language of AB 920 replaces RPS certification and tracking requirements and allows us to ignore existing statutes that confer authority upon the CEC to set RPS eligibility and verification requirements. AB 920 does not repeal RPS statutes, and the language of Section 2827(h)(5)(A) specifically references RECs as defined in Section 399.12. Section 399.12 further references 399.13. Thus, we conclude that Sections 2827(h)(5)(A) and (B) must be harmonized with existing RPS statutes. SDG&E and Sierra Pacific presented this logic and we agree. We find that although the statute states that any RECs for net surplus electricity purchased by the utility shall belong to the utility, we find that when AB 920 is read in concert with the RPS program statutory framework, certain prerequisites must be met before the renewable energy associated with net surplus generation can be counted toward RPS compliance goals. We conclude that net surplus generation purchased by the utility cannot be counted for RPS purposes unless it first meets the preconditions of CEC certification as RPS-eligible and CEC REC tracking and certification requirements.

Moreover, we agree there are unresolved issues related to accounting for split ownership of RECs. According to Section 2827(h)(5)(A), any REC for net surplus electricity purchased by the electric utility shall belong to the electric utility, while any REC associated with electricity generated by the eligible customer-generator and used by the eligible customer-generator remains the property of the eligible customer-generator. It is unclear whether WREGIS or

another CEC-approved system can track and otherwise account for RECs that would be split between the utility and the customer in such a fashion. In addition, RECs for RPS compliance are accounted for in 1 megawatt-hour (MWh) increments and it is unclear if the utilities or another entity may aggregate the net surplus generation of multiple small NEM customers to create RECs in the appropriate 1 MWh increments.

SDG&E proposes that stakeholders should collaborate to develop a streamlined process for NEM customers to obtain RPS certification from the CEC and meet WREGIS accounting requirements. We agree. If the utilities want the ability to count RECs from net surplus generation toward RPS, they and other parties, should work with the CEC through its process for revising its *RPS Eligibility Guidebook* to have RPS certification and accounting requirements, including split ownership of RECs and aggregation, dealt with by the CEC and WREGIS or some other tracking system.²⁴

In summary, we find that the utilities cannot count net surplus generation obtained from NEM customers toward RPS procurement targets until NEM customer facilities are CEC certified and their RECs are tracked through a CEC-approved system. This is critical to ensure that net surplus generators retain the rights to the renewable attributes of their power and that any RECs produced by net surplus generators are not double-counted (i.e., used for RPS compliance and

²⁴ As a practical matter, the quantity of NSC generation available to be considered towards the RPS program goals is *de minimus* compared to the utility RPS targets. For example, in 2009, the RPS procurement target for PG&E was 11,623 GWh (see *PUC RPS Quarterly Report to Legislature, 2010 Quarter 2*, Table 1 at 4), while PG&E reports its excess generation from NEM customers in 2009 was 5,212,073 kWh (5.2 GWh), or approximately 0.04% of the annual RPS target.

also used in a voluntary REC program). Once NEM net surplus generators are deemed RPS-eligible by the CEC and their net surplus generation is appropriately accounted for, including REC splitting and aggregation, the utilities may then count RECs for RPS purposes. Similarly, the NEM customer should not be compensated for the renewable attributes of electricity in the form of RECs until such time as they actually create RECs and make them available to the utility. Once that occurs, the NSC rate can include a value for renewable attributes, which we discuss below in Section 6.3.

A related issue is whether utilities may retroactively count net surplus generation toward their RPS procurement targets and retroactively compensate the renewable attributes of any net surplus generation that occurred prior to the CEC establishing RPS certification and REC tracking requirements for net surplus generation. NEM customers may have signed up for net surplus compensation as early as January 2010 and may expect compensation for the renewable attributes of their power from that date. We assume that because Section 2827(h)(3) directs that a customer's 12 month true-up period for net surplus compensation begins when the utility receives the eligible customer-generator's election, the CEC may establish a process that allows net surplus generators to retroactively certify their generation facilities to the beginning of their 12 month true-up period. In the event the CEC authorizes retroactive certification, the utilities may apply net surplus generation that occurred prior to CEC certification toward their RPS targets and compensate the renewable attributes of this net surplus generation, provided that the RECs are also transferred to the purchasing utility.

6.2. What if customers have sold their RECs to a third party?

Another concern is whether NEM customers need to certify that they own the RECs associated with their power in order for the utility to compensate the NEM customer for the RECs and count them towards RPS targets. PG&E contends that customers should not be required to prove REC ownership to receive compensation for net surplus generation. The remaining utilities, Acton, IREC, CALSEIA/EC, City of San Diego, and the Joint Solar Parties recommend that customers should only receive payment for renewable attributes if they affirm ownership of the REC. They suggest that if a customer has sold its RECs, the utility should be allowed to pay a lower, or “brown power price,” for the net surplus generation without RECs. The Joint Solar Parties suggest that only larger customers with systems 100 kW and above should be required to provide an affidavit they have not sold or transferred the RECs to another entity as a condition of receiving full NSC. PG&E concedes it may be appropriate for larger customers 500 kW or greater to certify they own their RECs. CALSEIA/EC proposes that the utilities should be required to identify those customers under third-party ownership arrangements who may have assigned RECs to third party owners.

The statute is clear that “any [RECs]... for net surplus electricity purchased by the electric utility shall belong to the electric utility.” (Section 2827(h)(5)(A).) We have found above that in order for the utilities to receive RECs from net surplus generation and count them toward RPS requirements, NEM customers must meet CEC RPS certification and REC metering and tracking requirements. Similarly, we find that any NEM customer seeking NSC payments for the renewable attributes of its generation must certify it owns the RECs associated

with its generating facility. We will require the utilities to obtain certification of REC ownership from all NEM customers prior to compensating them for any renewable attributes or counting any RECs created by net surplus generators toward RPS procurement targets.

6.3. Value of renewable attributes

We now turn to the question of whether to include payment for the value of the renewable attributes of electricity in the NSC rate. Again, the statute does not mandate compensation for the value of renewable attributes, but allows the Commission to determine if appropriate justification exists for such compensation.

A quick recap of the proposals for pricing renewable attributes is in order. The utilities generally suggest establishing a value for renewable attributes separate from the value of electricity. Specifically, SCE proposes a proxy value based on renewable premiums from voluntary green energy programs as reported by utilities within the WECC and published by the DOE. SCE calculates this renewable premium at 1.83 cents per kWh based on current published data. PG&E and SDG&E both suggest that once REC trading is in place in California, renewable attributes could be priced using the average REC price over a 12-month period.²⁵ In the interim period prior to REC trading, SDG&E suggests adding the MPR GHG adder of 0.8 cents/kWh to the electricity portion of the NSC rate if the renewable energy that is purchased is RPS-eligible. PacifiCorp proposes an adder of one cent/kWh.

²⁵ There is currently no functionality in WREGIS to post a public REC price.

CALSEIA/EC, the Joint Solar Parties, Acton, and City of San Diego do not suggest a separate value for renewable attributes because they propose a bundled rate, based on either retail rates, feed-in tariff rates, the MPR, contract prices under RPS, or utility-owned solar prices. The bundled rate proposals include compensation for both electricity and renewable attributes. Similar to the utility proposals, the Joint Solar Parties suggest that once a REC price is established by a market, that price could be substituted for the GHG adder currently embedded in the MPR. Sierra Pacific proposes no compensation for renewable attributes because it maintains NEM customers are not RPS-eligible or tracked by WREGIS.

CARE provides no estimated value for renewable attributes, although it maintains that GHG offsets in the form of RECs are an energy ancillary service that the Commission maintains authority over in regard to the price that is paid to QFs. CARE contends the implied REC price is the difference between the cost of the standard contract and the market value of a comparable brown energy product. PG&E claims CARE's comments contain incorrect statements regarding FERC jurisdiction and there is no foundation for CARE's argument that a REC or a GHG offset are similar to ancillary services.

RECs are the appropriate measure of a generator's renewable attributes and we believe that it is appropriate to compensate NEM customers for RECs conveyed to the utility with excess generation, separate from the compensation for their electricity. However, in keeping with our findings above that NEM surplus generators must meet CEC RPS eligibility and REC metering and tracking requirements, and that RECs are not created until those conditions occur, payment for renewable attributes cannot occur until the CEC determines whether net surplus generation by NEM customers is RPS-eligible and the CEC

completes its work to establish a REC ownership verification and tracking process for DG facilities.

Once that work by the CEC is complete, we find it reasonable to add the renewable premium proposed by SCE to the DLAP-based NSC rate described in Section 5, as an interim measure. We adopt this renewable adder as a placeholder for the renewable value of net surplus generation until RECs are publicly-traded. This renewable proxy price is not derived from RECs procured by California's RPS-obligated retail sellers. We find this renewable proxy reasonable only for the narrow and unique circumstance of net surplus generation by NEM customers, which has no capacity value and is provided without contract on an intermittent, unpredictable, and as-available basis over a 12-month period. Therefore, we adopt SCE's proposal to use the most recent WECC average renewable premium, based on DOE published data, as an interim proxy value for the renewable attributes of net surplus generation. SCE calculated this premium at 1.83 cents per kWh, but the utilities should use the most recent DOE published data and SCE's calculation methodology to update this rate when filing their NSC tariffs in compliance with this decision. Again, this interim renewable premium will only be added to the DLAP-based NSC after the CEC certifies NEM facilities as RPS-eligible and establishes an ownership verification and tracking process for any RECs associated with net surplus generation.

We adopt the SCE approach as an interim renewable value because ultimately, we prefer a market-based valuation for the renewable attributes of net surplus generation. Conceptually, we agree with proposals by PG&E, SDG&E and the Joint Solar Parties to value renewable attributes based on the average REC price over a 12-month period once RECs are traded, although this

will require a means to obtain public REC prices. Therefore, we will reconsider the appropriate value for renewable attributes once public information on REC prices in California is available. Parties may file a petition for modification of this decision once net surplus generators meet CEC RPS eligibility requirements, their RECs are tracked through a CEC-approved process, and REC trading provides new information on renewable prices. If such a petition is filed, it should, among other things, supply new information for the Commission to consider in the valuation of the renewable attributes of net surplus generation. Any petition should also address the process by which all customers will certify to their REC ownership prior to receiving compensation.

7. Implementation of NSC Payments

7.1. Does the customer need a bill credit to be eligible for an NSC payment?

SCE, SDG&E, and PacifiCorp maintain that to qualify for an NSC payment, an NEM customer must have a remaining bill credit as well as generation in excess of usage. According to SDG&E, if a customer has used up all its bill credits earned during the 12-month true-up period, the customer has already been compensated for all excess generation at the full retail electric rate. SCE and SDG&E contend that to provide further compensation in excess of the retail rate would amount to double payment, shifting costs to non-participating customers.

In contrast, PG&E, the Joint Solar Parties, Acton, City of San Diego, IREC, and TURN claim that NEM customers should not be required to have a remaining bill credit to receive NSC. These parties generally assert that if a customer has generated surplus power, the customer should be compensated, and that any bill credit at the end of the true-up period should be irrelevant.

PG&E maintains that the eligibility for NSC is based on net generation only, and there is no mention of a bill credit requirement in the statute. Moreover, PG&E describes how bill credits can bear no relation to the amount of surplus electricity exported by an NEM customer. PG&E asserts that if bill credits are required for or linked to NSC, senseless and unfair results can ensue, with some customers receiving well below avoided costs and others receiving tens or hundreds of dollars per kWh of net surplus. (PG&E, 3/15/10 at 8.) TURN and DRA both comment that NSC payments should be reduced by any bill debits owed on the true-up date.

Another variation on the issue is raised by CALSEIA/EC. They contend that if an NEM customer has a bill credit but no net surplus generation, the customer should still receive an NSC payment. According to CALSEIA/EC, this can occur when an NEM customer on a TOU rate provides excess generation during hours of peak electricity demand when rates are high, but uses most of its electricity off-peak when rates are lower. As a result, the customer may have a bill credit even though it did not generate excess energy over a 12-month period. The Joint Solar Parties and TURN argue that NEM customers with a bill credit but no net surplus should not be compensated.

Upon review of AB 920, we agree with PG&E that the language in the statute is straightforward and that customers who generate more kWhs than they use in their 12-month true-up period may choose to receive net surplus compensation. We will not add a secondary requirement, which does not appear in the statute, that customers must also have a bill credit to be eligible for net surplus compensation. Moreover, we agree with TURN and DRA that any payment for NSC should be reduced by any amount the customer owes to the utility. We disagree with the proposal by CALSEIA/EC that customers with a

bill credit and no net surplus generation should receive further compensation. Again, we return to the plain language of the statute that requires compensation when customers are net generators. If a customer has not generated excess kWhs, the customer is not eligible for NSC.

7.2. Rollover of Excess kWh

Section 2827(h)(3) allows eligible customer-generators to elect whether to receive net surplus compensation for any net surplus electricity generated during the prior 12-month period, or whether to apply, or “rollover,” the net surplus electricity as a credit for kWhs subsequently supplied.²⁶ Several parties raise conflicting views on how to handle NSC if the NEM customer opts to rollover the net surplus as a credit against future usage.

IREC maintains that because AB 920 creates two options for NEM customers, either compensation or a bill credit, there can be two NSC rates -- one that applies if a customer chooses immediate compensation, and a separate rate if a customer elects to rollover excess generation. In other words, if a customer chooses to rollover net surplus as a credit against future usage, IREC contends the rate used for future credits is not subject to the requirement in Section 2827(h)(4)(A) that other ratepayers be left unaffected. Thus, IREC claims that any rollover of net surplus generation should offset the full retail electric rate of subsequent usage.

²⁶ Section 2827(h)(3) states that if an eligible customer-generator does not affirmatively elect service pursuant to net surplus electricity compensation, the electric utility shall retain any excess kWhs generated during the prior 12 month period and the customer shall not be owed any compensation.

PG&E and SDG&E argue that IREC's reading of AB 920 is not credible and defies statutory construction because the statute makes clear that NSC implementation options should leave other ratepayers unaffected, whether a customer chooses an immediate cash payment or a credit against future usage.

We agree with PG&E and SDG&E. The value that customers receive for net surplus generation should be the same whether the customer chooses immediate compensation or opts to rollover net surplus generation against future usage. The value of net surplus generation should be converted to a monetary credit before being carried forward. If net surplus generation were carried forward as IREC suggests, it could offset later usage at different and potentially higher retail rates. We have already found in Section 5.1.3 that providing NSC payments at the full retail electric rate shifts costs to other customers. We now add to that finding that providing NSC rollover credits at future retail electric rates, which might be higher than the rates in effect at the time the surplus was generated, could shift costs to future customers. Additionally, IREC's proposal could be difficult to implement. Currently, SDG&E, PG&E and SCE convert kWh to dollars on a monthly basis as part of NEM and changing this would cause administrative costs and customer confusion.

We find it more reasonable to adopt the recommendation of PG&E, SCE and the Joint Solar Parties that net surplus generation should be valued at the conclusion of the relevant true-up period at the same price whether a check is mailed to the customer or a credit is applied to the bill against subsequent usage. In other words, if customers choose to rollover excess kWhs, the dollar amount of any net surplus compensation will be applied to the customer's account directly rather than drafting a separate check. Once the excess kWhs have been

valued in dollars, the kWh values in all time periods should be reset to zero and the cycle starts anew. We agree with the proposal by several parties that the utilities should allow NEM customers to maintain such NSC bill credits indefinitely. In addition, we will allow customers to switch from compensation to rollover, or vice versa, on an annual basis.

Sierra Pacific, which has very few NEM customers, requests unique treatment. It proposes the same concept that IREC endorsed, that is, to allow banking of surplus electricity in the form of kilowatt hours, which would be treated as a credit and used to offset kilowatt hours subsequently supplied by Sierra Pacific. Although Sierra Pacific has only a handful of NEM customers, we see no reason for unique treatment. Sierra Pacific should value excess kWhs annually and either mail a payment to the customer or apply that credit to future usage.

7.3. Minimum payment amount

PG&E recommends a one dollar minimum payment amount for a customer to receive a check for NSC. The Joint Solar Parties and CALSEIA/EC agree this is reasonable unless the customer is closing the account. Sierra Pacific suggests a higher minimum threshold for its NSC payments based on its unique characteristics. Sierra Pacific proposes that if customer's net surplus is valued at less than \$25 after 12 months, the valuation of the net surplus should be applied as credit for kWh subsequently supplied.

We will adopt a requirement that customers need a one dollar minimum NSC payment to receive a check from the utility. We further agree that for Sierra Pacific and PacifiCorp, this minimum payment amount should be \$25 to minimize the administrative costs on these smaller utilities with few NEM customers.

7.4. System sizing limits

The definition of an eligible customer-generator in Section 2827(b)(4) includes the statement that the system “is intended primarily to offset part or all of the customer’s own electrical requirements.”

The utilities maintain that the NSC scheme established by AB 920 is intended to address random, modest, inadvertent net exports and that NEM customers must adhere to this existing NEM system sizing limit, which has been a long-standing prerequisite for NEM participation, in order to qualify for NSC payments. The utilities contend that since the statute for net surplus compensation retains the system sizing limit language, customers cannot oversize their solar or wind electrical generating facilities to create additional revenue. Moreover, the utilities note that other compensation mechanisms exist for customers who want to generate electricity to sell to the utility, such as feed-in tariffs. CALSEIA/EC agree with the utilities, suggesting that customers who oversize their systems would not qualify for NEM, and therefore would be ineligible for NSC.

In contrast to the utility position, the Joint Solar Parties and Acton read the statute as not limiting the size of a customer’s system except to less than 1 MW. DRA suggests the impact of AB 920 on current system sizing limits should be examined in R.10-05-004, where the Commission could consider exceptions to allow systems sized above historic demand.

We agree with the utilities that nothing in AB 920 alters the existing NEM system sizing language and that to be eligible for NSC, a system must meet the definition of an eligible customer-generator within Section 2827(b)(4), including that it be intended primarily to offset part or all of the customer’s own electrical requirements. Systems that are sized larger than the customer’s electrical

requirements would not be eligible for NEM and therefore, are not eligible for NSC either.

7.5. Should Customers Repay CSI or SGIP Incentives to Receive NSC?

Sierra Pacific and PacifiCorp recommend that the Commission require repayment of CSI or SGIP incentives as a condition for receiving NSC. Most other parties assert that customers should not be required to repay any incentives they received from CSI or SGIP in order to receive NSC. Several parties cite to Section 2827(c)(1), which states:

Eligibility for [NEM] does not limit an eligible customer-generator's eligibility for any other rebate, incentive, or credit provided by the electric utility, or pursuant to any governmental program, including rebates and incentives provided pursuant to the [CSI].

We agree with the majority of the parties that it would be inconsistent with Section 2827(c)(1) to require repayment of CSI or SGIP incentives. In addition, even without this statutory limitation, it would undoubtedly create administrative and billing complications to attempt to collect repayment of prior CSI or SGIP incentives from customers.

7.6. Are Community Choice Aggregation, Direct Access, and Other Customers Eligible to Receive NSC?

Several parties question whether customers of Community Choice Aggregators (CCAs) and direct access customers of energy service providers (ESPs) are eligible to receive NSC payments. PG&E, CALSEIA/EC, IREC, and the Joint Solar Parties generally propose that the Commission require CCAs and ESPs to offer NSC to their customers who participate in NEM and are net surplus generators. PG&E further states that customers who receive service from ESPs and CCAs should not receive NSC payments from PG&E because PG&E is not

their generation supplier. The Joint Solar Parties clarify that NEM customers should be compensated by the relevant CCA or ESP for the generation component of the NSC. PG&E proposes that additional customer groups, namely wind energy co-metering customers (i.e., wind generators from 50 kW to 1 MW), multiple tariff treatment customers, and virtual net metering (VNM) customers under the CSI Multifamily Affordable Solar Housing Program also be eligible to receive NSC.

SDG&E opposes requiring CCAs and ESPs to offer NSC, although SDG&E suggests these entities may choose to offer NSC. Sierra Pacific contends that according to Section 2827(b)(4), eligible customer-generators must be a “customer of an electric utility” to qualify for NSC.

First, we will not require ESPs to offer NSC because they do not match the definition of electric utility in the statute. Section 2827(b)(3) defines an electric utility as “an electrical corporation, . . . an electrical cooperative, or any other entity, *except an electric service provider*, that offers electrical service.” (Emphasis added.)

Second, we will not require CCAs to offer NSC to their customers at this time because CCAs did not receive adequate notice of this proceeding concerning implementation of the NSC program. CCAs do not appear to have been included on the service list for this rulemaking. CCAs may choose to offer NSC to their customers and the Commission may, at a later date, consider requiring CCAs to provide NSC.

Finally, we will allow PG&E and the other utilities to offer NSC to any NEM customer, including wind energy co-metering customers, VNM customers, and multiple tariff treatment customers. PG&E’s compliance filing containing its

revised NEM tariffs should address how NSC will apply to these various customer classes.

7.7. Administrative Costs

The utilities propose that their costs to implement and administer NSC should be absorbed by all customers rather than applying an administrative fee on NEM customers alone. PG&E contends that the costs of implementing the NSC program could overwhelm much of the value of the program to eligible net generators. According to PG&E, in 2009, less than 10% of its NEM customers, or 2450 customers, had a credit at the time of their true-up and were net exporters of electricity, and of those net exporters, over 40% had net exports of 100 kWh or less. (PG&E, 3/15/10 at 10-12.) PG&E claims that the cost of tracking these customers, notifying them of their options, cutting checks, and other administrative duties could be larger than their compensation.

The Joint Solar Parties and City of San Diego agree with PG&E that the costs to administer the NSC program should be absorbed by all customers.

We agree that payments to individual net surplus generators are likely to be small. If the utilities assessed a fee on customers to participate in this program, the fee could be larger than any NSC payments. We accept PG&E's recommendation that the administrative costs of NSC, which we expect to be minimal, be absorbed by all customers. This is similar to how costs of implementing NEM tariffs and other alternative billing arrangements are allocated widely to all customer classes as billing-related costs in utility general rate cases. In the event administrative costs are larger than anticipated, we may reconsider this allocation of administrative costs.

7.8. NEM tariffs

Most parties agree that the details of the NSC program, including the NSC rate and details concerning NSC payments, should be incorporated into the utilities' existing NEM tariffs. We agree and we will require the utilities to include revised NEM tariffs incorporating the NSC rates, terms, and conditions set forth in this decision in the advice letter they each submit with their specific NSC rate calculations in compliance with this decision.

8. Comments on Proposed Decision

The proposed decision of ALJ Duda in this matter was mailed to the parties in accordance with Section 311 and comments were allowed under Rule 14.3 of the Commission's Rules of Practice and Procedure. Comments were filed by CALSEIA/EC, CARE, the City of San Diego, the Joint Solar Parties, PG&E, SCE, SDG&E, and Sierra Pacific. Reply comments were filed by CARE, the City of San Diego, DRA, the Joint Solar Parties, PG&E, SCE, SDG&E, and Walmart. Minor corrections and clarifications in response to comments are incorporated throughout the decision. A few comments merit discussion.

PG&E, SCE, and SDG&E contend the proposed decision contains errors in its legal analysis of the Commission's authority to set an NSC rate under PURPA. Upon further legal review, the decision has been revised to implement the NSC program pursuant to PURPA and consistent with avoided cost principles. In this regard, the decision relies upon a recent FERC order granting clarification on the subject of state latitude to use a multi-tiered approach to setting avoided cost rates. The decision also requires all net surplus generators to notify the utility that they are a QF exempt from certification filing at the time the NEM customer affirmatively elects either an NSC payment or application of its net surplus to future usage.

The City of San Diego suggests the Commission revise the hours used in the DLAP rolling average calculation. The City suggests it is unlikely customers would inject energy into the system during the early morning or late afternoon hours of the day, and therefore, the DLAP rolling average should use prices from 10 a.m. to 5 p.m., rather than 7 a.m. to 5 p.m. CALSEIA/EC comment that solar PV systems are unlikely to produce excess power between 7 a.m. and 9 a.m. and these hours should be excluded from the DLAP rolling average calculation. PG&E and SCE respond that the hours used should reflect symmetry around peak generation hours which is generally noontime. We will not revise the hours used in the DLAP rolling average calculation based on speculation about when customers might be more likely to inject energy into the system. The decision notes that since information about individual customer usage is unknown, it is difficult to know when surplus generation is actually exported. We agree with PG&E and SCE that it is a reasonable to assume production occurs during daylight hours, symmetrical around the noon hour when the sun is at its peak. Therefore, we will not revise the hours included in the DLAP calculation.

Similarly, Joint Solar Parties comment that the decision errs by assuming production will be equal in all daylight hours. It reiterates its advocacy for incorporation of solar generation profiles into the NSC rate calculation. Again, we agree with PG&E that we should not assume solar generation matches net surplus because the shape of exports to the grid depends on individual customer usage, can vary greatly, and is unknown. Given this unknown and the need for administrative simplicity in implementing this program, it is reasonable to assume net generation occurs evenly over daylight hours.

CALSEIA/EC allege problems with using DLAP prices for NSC payments because DLAPs can be disaggregated further into sub-LAPs, and the use of

DLAP prices could result in cost-shifting between ratepayers. SCE and PG&E counter that the CAISO does not use sub-LAP pricing today and the idea of having an NSC rate that varies geographically based on sub-LAP prices would be administratively costly. We agree with SCE and PG&E and will retain our use of DLAP prices as the basis for calculating the NSC rate for administrative simplicity.

Finally, the decision is modified to clarify that all small and multi-jurisdictional investor-owned electric utilities (SMJUs) operating in California are required to offer net surplus compensation. Sierra Pacific and Pacificorp participated in the proceeding, but other SMJUs did not participate. Therefore, ordering paragraphs have been added to the decision to notify these SMJUs that they may either file an advice letter to opt into the NSC rate for PG&E, SCE or SDG&E, or file an application justifying a deviation from the NSC methodology adopted in this decision

9. Assignment of Proceeding

Nancy E. Ryan was the original assigned Commissioner and Dorothy J. Duda is the assigned ALJ in this proceeding. The case was reassigned to Michael R. Peevey as assigned Commissioner in January 2011.

Findings of Fact

1. Section 2827 requires the Commission to establish a program to compensate NEM customers for electricity produced in excess of on-site load at the end of a 12-month true-up period, i.e. “net-surplus generation.”
2. Under Section 2827, customers may opt to receive either a payment for net-surplus generation or to roll a credit for that generation into the next 12-month period.

3. Section 2827 requires that any compensation for net surplus electricity leave other ratepayers unaffected and not result in a shifting of costs between solar customer-generators and other bundled service customers.

4. According to FERC, a transfer of net surplus energy by a net metering customer to a utility constitutes a wholesale transaction that must comply with either the FPA or PURPA.

5. FERC has found that wind and solar generating facilities of 1 MW can be considered QFs without filing for certification with FERC.

6. NEM customers eligible for NSC must use a solar or wind generating facility of not more than 1 MW.

7. Rule 21 governs QF interconnections.

8. According to Section 2827, net surplus compensation may include either or both the value of electricity and the value of the renewable attributes of the electricity.

9. DLAP prices are hourly day-ahead electricity market prices that a utility pays for a quantity of energy to meet its day-ahead load.

10. The amount of net surplus generation that is likely to be compensated is quite small compared to California's total electricity load.

11. Within the 12-month true-up period, customers will continue to receive a credit at the full retail electric rate up to the amount that offsets their usage, and the NSC rate will only apply to generation in excess of that amount.

12. Sierra Pacific and PacifiCorp have few customers that may qualify for NSC payments.

13. Sierra Pacific is not part of the CAISO, so it has no DLAP prices, and it is unclear if separate DLAP prices exist for PacifiCorp.

14. MPR reflects the construction, operating, and maintenance costs of a new 500 MW central station combined cycle natural gas plant.

15. Net surplus generation by NEM customers has no capacity value because an individual NEM customer has no obligation to provide energy to the utility. Net surplus generation is provided without contract on an intermittent, unpredictable and as-available basis over a 12-month period.

16. The only generation the utility avoids when an NEM customer provides surplus generation is reduced electricity procurement from the short-term wholesale market.

17. Section 399.12 defines a REC as “a certificate of proof, issued through the accounting system established by the [CEC] pursuant to Section 399.13” and Section 399.13 gives the CEC the authority to certify eligible renewable energy resources.

18. According to Section 2827(h)(5)(A), if a utility purchases net surplus electricity, any RECs associated with that net surplus electricity shall belong to the utility.

19. To qualify for RPS compliance, renewable energy generators must be certified as eligible by the CEC, and the REC must be tracked and verified through a CEC-approved accounting system.

20. At this time, the CEC has not certified DG systems as eligible for RPS compliance, except DG systems under AB 1969 tariffs.

21. It is unclear if WREGIS or another CEC-approved system can track and verify RECs that would be split between a utility and a customer.

22. RECs for RPS compliance are accounted for in 1 MWh increments and it is unclear if net surplus generation from multiple small facilities can be aggregated.

23. Section 2827 does not require NEM customers to have a bill credit to be eligible for net surplus compensation.

24. Section 2827 states that an eligible customer-generator's system is intended to primarily offset part or all of the customer's own electrical requirements.

25. NSC payments to individual net surplus generators are likely to be small and any administrative fee assessed on customers for the NSC program could be larger than the NSC payment.

26. ESPs are not electric utilities under Section 2827.

Conclusions of Law

1. The Commission may adopt an NSC rate that does not exceed avoided costs consistent with PURPA.

2. NEM customers may self-certify as QFs.

3. Tariff Rule 21 should continue to govern interconnection between utilities and NEM customers who self-certify to the utility as QFs.

4. Net surplus generation will create exports from NEM customers which will likely result in fewer purchased kWhs of load at the DLAP price.

5. An avoided cost approach to valuing net surplus compensation reflects as closely as possible the costs the utility avoids by receiving surplus generation from NEM customers while leaving other ratepayers unaffected and not shifting costs between customer-generators and other customers.

6. Other ratepayers are unaffected if the utility compensates net surplus generation at the rolling average of the DLAP price between 7 a.m. and 5 p.m. because it represents costs the utility potentially avoids in procuring power during the time period NEM customers are likely to produce excess power.

7. DLAP prices are a reasonable and efficient source for an avoided cost energy value for net surplus generation that has no capacity value and is

provided without contract on an intermittent, unpredictable and as-available basis. Net surplus compensation based on DLAP corresponds to the 12-month true-up period for NEM customers as required by Section 2827.

8. Sierra Pacific and PacifiCorp should have the ability to mirror the PG&E DLAP pricing methodology without undue burden.

9. If Sierra Pacific and PacifiCorp do not have DLAP prices within their California territories, they should base their NSC rate on PG&E's DLAP price as set forth in this decision.

10. It is not appropriate to base an NSC rate on the MPR, which includes payment for generation capacity, when NEM customers do not provide surplus generation under long-term contract.

11. An NSC rate based on the full retail electric rate would provide compensation above the value of electricity and shift costs to other ratepayers.

12. The NSC program must be harmonized with existing RPS statutes. Net surplus generators must be certified as RPS-eligible by the CEC and must meet CEC-approved REC tracking requirements for their generation to be counted for RPS purposes.

13. The utilities cannot count net surplus generation obtained from NEM customers toward RPS procurement targets until NEM customer facilities are CEC certified as RPS-compliant and the facilities' RECs are tracked and verified through a CEC-approved system.

14. RECs are the appropriate measure of a generator's renewable attributes.

15. NEM customers should not be compensated for the renewable attributes of their generation in the form of RECs until they actually create RECs and provide them to the utility.

16. Any NEM customer seeking NSC payment for the renewable attributes of its generation must certify it owns the RECs associated with its generating facility.

17. The renewable attribute premium proposed by SCE and based on WECC average renewable premiums is reasonable as an interim renewable adder solely for the purpose of compensating the renewable attributes of net surplus generation, which has no capacity value and is provided without contract on an intermittent, unpredictable, and as-available basis over a 12-month period.

18. Once the CEC establishes RPS eligibility for NEM customers and an REC ownership verification and tracking process, net surplus generators may receive an interim renewable attribute adder calculated using the most recent WECC average renewable premium, based on DOE published data. The Commission should reconsider the renewable attribute adder when RECs are publicly-traded.

19. If the CEC authorizes retroactive RPS certification of net energy metering customer facilities, the utilities should apply net surplus generation that occurred prior to CEC certification toward their RPS targets and compensate the renewable attributes of this net surplus generation, provided that the RECs are also transferred to the purchasing utility.

20. Payments for NSC should be reduced by any amount the customer owes to the utility.

21. If a customer has not generated excess kWhs, the customer is not eligible for NSC.

22. The value a customer receives for net surplus generation should be the same whether the customer chooses immediate compensation or opts to apply net surplus generation to offset future usage. Therefore, the value of net surplus

generation should be converted to a monetary credit before being carried forward.

23. NEM customers may maintain NSC bill credits indefinitely and may switch from NSC payment to rollover, or vice versa, on an annual basis.

24. NEM customers should have a one dollar minimum NSC payment to receive a check from the utility, except NEM customers of Sierra Pacific and PacifiCorp should have a \$25 minimum NSC payment to receive a check.

25. Systems sized larger than the NEM customer's electrical requirements would not be eligible for NEM and, therefore, are not eligible for NSC.

26. ESPs should not be required to offer NSC.

27. Customers of CCAs and ESPs should not receive NSC payments from a distribution utility because the distribution utility is not their generation supplier.

28. The Commission should not require CCAs to offer NSC to their customers at this time, although CCAs may choose to offer NSC.

29. According to Section 2827(h)(3), small and multi-jurisdictional investor-owned electric utilities operating in California must offer net surplus compensation to their customers.

O R D E R

IT IS ORDERED that:

1. Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company shall each use the simple rolling average of their default load aggregation point price from 7 a.m. to 5 p.m., corresponding to the customer's 12-month true-up period, as the value of the electricity portion of their individual net surplus compensation rates. The rolling average should

be calculated on a monthly basis and be applied to all customers with a true-up period in the following month.

2. Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company shall each include a renewable attribute adder to the net surplus compensation rate in Ordering Paragraph 1 above, after the California Energy Commission determines the eligibility of net energy metering customer facilities for the Renewable Portfolio Standard and an ownership verification and tracking system for Renewable Energy Credits created by net surplus generators. The renewable attribute adder shall be calculated using the most recent Western Electricity Coordinating Council average renewable premium, based on United States Department of Energy published data. The renewable attribute adder shall only be paid to those net surplus generators who provide Renewable Energy Credits to the utility.

3. Within 30 days of the effective date of this decision, Pacific Gas and Electric Company, Southern California Edison Company, and San Diego Gas & Electric Company shall each file a Tier 3 advice letter revising their net energy metering tariffs to include net surplus electricity compensation pursuant to Public Utilities Code Section 2827 and Ordering Paragraphs 1 and 2 above. The advice letter shall contain the initial calculations for a net surplus compensation rate based on each utility's individual default load aggregation point prices and specify the process for monthly updates to the rate. The net surplus compensation rate for each utility shall take effect upon Commission approval of that utility's advice letter and may be used to compensate customers who chose net surplus compensation when notified in January 2010 or thereafter.

4. If Sierra Pacific Power Company (Sierra Pacific, now known as California Pacific Electric Company) and PacifiCorp d.b.a. Pacific Power (PacifiCorp) have

default load aggregation point prices in their California territories, Sierra Pacific and PacifiCorp shall each use their individual default load aggregation point price to calculate a net surplus compensation rate in the same manner as described in Ordering Paragraph 1 and 2 above.

5. In the event default load aggregation point prices do not exist within the California territories of Sierra Pacific Power Company (Sierra Pacific, now known as California Pacific Electric Company) and PacifiCorp d.b.a. Pacific Power (PacifiCorp), Sierra Pacific and PacifiCorp shall base their net surplus compensation rate on the net surplus compensation rate adopted for Pacific Gas and Electric Company.

6. Within 30 days of the effective date of this decision, Sierra Pacific Power Company and PacifiCorp d.b.a. Pacific Power shall each file an advice letter in compliance with this order to: a) revise their net energy metering tariffs to incorporate the net surplus compensation rates, terms, and conditions set forth in this decision; and b) either provide their calculations for net surplus compensation rate based on their default load aggregation point prices or notify the Commission they will use the net surplus compensation rate to be adopted for Pacific Gas and Electric Company.

7. Customers opting for net surplus compensation must notify the utility at the time they elect to receive a net surplus compensation payment or to apply their payment toward future usage that they are a qualifying facility exempt from certification filing at the Federal Energy Regulatory Commission.

8. Pacific Gas and Electric Company, Southern California Edison Company, San Diego Gas & Electric Company, Sierra Pacific Power Company (now known as California Pacific Electric Company), and PacifiCorp d.b.a. Pacific Power shall obtain certification of renewable energy credit ownership from a net energy

metering customer prior to compensating that customer for any renewable attributes or counting any renewable energy credits from net surplus generation toward Renewables Portfolio Standard annual procurement targets.

9. If the California Energy Commission (CEC) allows retroactive Renewable Portfolio Standard certification and renewable energy credit (REC) tracking for net surplus generation produced by net energy metering customers, each investor-owned electric utility may: (a) retroactively count RECs associated with net surplus generation it purchased prior to CEC certification and REC tracking, provided that the RECs are transferred to the investor-owned electric utility, and (b) retroactively compensate net surplus generators for the renewable attributes of their net surplus generation using the renewable adder in Ordering Paragraph 2 and subject to the requirements in Ordering Paragraph 8.

10. If a customer chooses to rollover excess kilowatt hours of net surplus generation, the dollar amount of any net surplus compensation must be applied to the customer's account directly rather than drafting a separate check. Once the excess kilowatt hours have been valued in dollars, the kilowatt hour values in all time periods should be reset to zero.

11. Pacific Gas and Electric Company, Southern California Edison Company, San Diego Gas & Electric Company, Sierra Pacific Power Company (now known as California Pacific Electric Company), and PacifiCorp may offer net surplus compensation to any net energy metering customer, including wind energy co-metering customers, virtual net metering customers, and multiple tariff treatment customers.

12. Within 60 days of the effective date of this decision, small and multi-jurisdictional investor-owned electric utilities operating in California, other than Sierra Pacific Power Company (now known as California Pacific Electric

Company), and PacifiCorp, shall either file a Tier 2 advice letter to adopt the net surplus compensation rate of Pacific Gas and Electric Company, Southern California Edison Company, or San Diego Gas & Electric Company, or file an application describing an alternative net surplus compensation rate and a detailed explanation why a deviation from the methodology adopted in this decision is necessary for their operations.

13. This decision shall be served on Bear Valley Electric Service and Mountain Utilities, Inc.

14. Applications 10-03-001, 10-03-010, 10-03-012, 10-03-013, and 10-03-017 are closed.

This order is effective today.

Dated _____, at San Francisco, California.