

**State of California**

**Department of Water Resources**

**Determination of Revenue Requirement**

**For the Period**

**January 1, 2016 through December 31, 2016**

**Transmitted To**

**The California Public Utilities Commission**

**Pursuant To**

**Sections 80110 and 80134 of the California Water Code**



**August 6, 2015**

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## **A. THE DETERMINATION**

### **GENERAL**

Pursuant to Section 80110 of the California Water Code, the Department hereby issues its Determination of Revenue Requirement for the period of January 1, 2016 through December 31, 2016 (“2016 Determination”) in accordance with the Rate Agreement between the State of California Department of Water Resources (“Department” or “DWR”) and the California Public Utilities Commission (“Commission” or “CPUC”), dated March 8, 2002 (“Rate Agreement”), and Division 23, Chapter 4, Sections 510–517 of the California Code of Regulations (“Regulations”). Capitalized terms used and not otherwise defined herein have the meanings given to such terms in the Rate Agreement or the Indenture under which the Department’s Power Supply Revenue Bonds were issued (the “Bond Indenture”).

The costs of the Department’s purchases to meet the net short requirements of retail end use customers in the three California investor-owned utilities’ (“Utilities” or “IOUs”) service territories, including the costs of administering the long-term contracts, are to be recovered from payments made by customers and collected by the IOUs on behalf of the Department. The terms and conditions for the recovery of the Department’s costs from customers are set forth in the California Water Code (“Act”), the Regulations, the Rate Agreement and orders of the Commission. Among other things, the Rate Agreement defines a “Bond Charge” designed to recover the Department’s costs associated with its bond financing activity (“Bond Related Costs”) and a “Power Charge” designed to recover “Department Costs”, or the Department’s “Retail Revenue Requirement” including power supply-related costs. Subject to the conditions described in the Rate Agreement and other Commission Decisions, Bond Charges and certain charges designed to recover Department Costs may also be imposed on the customers of Electric Service Providers (as that term is defined in the Rate Agreement).<sup>1</sup> Additional background material is contained in the Department’s prior Determinations of Revenue Requirement, copies of which have been incorporated into the administrative record supporting this 2016 Determination.

Pursuant to Sections 80110 and 80134 of the California Water Code and the Rate Agreement, this 2016 Determination contains information on the amounts required to be recovered, on a cash basis, in the 2016 Revenue Requirement Period (calendar year 2016).

For the 2016 Revenue Requirement Period, this Determination contains information regarding the following: (a) the beginning balance of funds on deposit in the Electric Power Fund (“Fund”), including the amounts on deposit in each account and sub-account of the Fund; (b) the amounts projected to be necessary to pay the principal and interest on all bonds as well as all other Bond Related Costs as and when the same are projected to become due, and the projected amount of Bond Charges required to be collected for such purpose; and (c) the amount needed to pay the Department’s costs, including all Retail Revenue Requirements.

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<sup>1</sup> Under the Rate Agreement, the “Retail Revenue Requirement” is the amount to be recovered from “Power Charges” on IOU customers. The assessment on customers of Electric Service Providers of charges to recover Department Costs (e.g., “Direct Access Power Charge Revenues”) reduces the amount of the “Retail Revenue Requirement,” but has no material impact on the Department’s costs.

## **DETERMINATION OF REVENUE REQUIREMENT**

Pursuant to the Act, the Rate Agreement, and the Regulations, the Department determines, on the basis of the materials presented and referred to by this 2016 Determination (including the materials referenced in Section H), that it has adequate reserves in its Power Charge Accounts at all times to pay all Department costs and return \$58 million of excess amounts to customers in the IOU service areas.

As required by the Act, the Rate Agreement, and the Regulations, the Department makes a separate revenue requirement determination for the Bond Charge Accounts. For 2016, the Department determines that its cash basis Bond Charge Account revenue requirement is \$891 million.

This 2016 Determination takes into account preliminary actual operating results through May 31, 2015. It also reflects that the last power purchase contract with Kings River Conservation District terminated in 2015 and that the Department has ceased purchasing power for sale to customers in the IOUs service areas. During the 2016 Revenue Requirement period, the Department projects that virtually all of the revenues it receives will be Bond Charge Revenues that will flow through the Bond Charge Accounts, except for amounts, if any, yet to be received by DWR from claims related to power purchases by DWR under the Power Supply Program., The Department administration and general expenses are included as Bond Related costs beginning 2016.

Table A-1 shows a summary of the Department's revenue requirement and the accounts associated with projected Department Costs ("Power Charge Accounts") for 2016. These figures are compared to those reflected in the Department's 2015 Determination of Revenue Requirements. A summary and comparison of the Department's revenue requirement and the accounts associated with its Bond Related Costs ("Bond Charge Accounts") is presented in Table A-2. Definitions of key accounts and sub-accounts are presented within this revenue requirement.

**TABLE A-1**  
**SUMMARY OF THE DEPARTMENT'S 2016 POWER CHARGE REVENUE**  
**REQUIREMENT AND POWER CHARGE ACCOUNTS**  
**AND COMPARISON TO 2015<sup>1</sup>**  
**(\$ Millions)**

Line	Description	2016 <sup>2</sup>	2015 <sup>3</sup>	Difference
1	<i>Beginning Balance in Power Charge Accounts</i>			
2	Operating Accounts	65	323	(257)
3	Operating Reserve Account	2	10	(8)
4	<b>Total Beginning Balance in Power Charge Accounts</b>	<b>68</b>	<b>333</b>	<b>(265)</b>
5	<i>Power Charge Accounts Operating Revenues</i>			
6	Power Charge Revenues <sup>4</sup>	-	2	(2)
7	Return of Excess Amounts to Customers <sup>5</sup>	(58)	(294)	236
8	Interest Earnings on Fund Balances	0	1	(0)
9	<b>Total Power Charge Accounts Operating Revenues</b>	<b>(58)</b>	<b>(292)</b>	<b>234</b>
10	<i>Power Charge Accounts Operating Expenses</i>			
11	Administrative and General Expenses	-	15	(15)
12	Total Power Costs	-	5	(5)
13	<b>Total Power Charge Accounts Operating Expenses</b>	<b>-</b>	<b>20</b>	<b>(20)</b>
14	Net Operating Revenues	(58)	(312)	254
15	<b>Ending Aggregate Balance in Power Charge Accounts</b>	<b>10</b>	<b>21</b>	<b>(11)</b>
<b>Target Minimum Power Charge Account Balances</b>		<b>Target (Millions of Dollars)</b>		
<b>Operating Account</b>		10	19	(9)
<b>Operating Reserve Account</b>		-	2	(2)
<b>Total Operating Reserves:</b>		10	21	(11)

<sup>1</sup>Numbers may not add due to rounding.

<sup>2</sup>As included herein.

<sup>3</sup>As reflected in the 2015 Revised Determination.

<sup>4</sup>Includes Bundled Customer revenues and Cost Responsibility Surcharge revenues

<sup>5</sup>Comprised of surplus reserves meeting the definition of Excess Amounts within the Power Supply Revenue Bond Indenture.

**TABLE A-2**  
**SUMMARY OF THE DEPARTMENT'S 2016 BOND CHARGE REVENUE**  
**REQUIREMENT AND BOND CHARGE ACCOUNTS**  
**AND COMPARISON TO 2015<sup>1</sup>**  
**(\$ Millions)**

Line	Description	2016 <sup>2</sup>	2015 <sup>3</sup>	Difference
1	<i>Beginning Balance in Bond Charge Accounts</i>			
2	Bond Charge Collection Account	151	167	(16)
3	Bond Charge Payment Account	720	692	28
4	Debt Service Reserve Account	909	919	(10)
5	<b>Total Beginning Balance in Bond Charge Accounts</b>	<b>1,781</b>	<b>1,778</b>	<b>3</b>
6	<i>Bond Charge Accounts Revenues</i>			
7	Bond Charge Revenues from Utilities <sup>4</sup>	891	881	11
8	Interest Earnings on Fund Balances	19	19	0
9	<b>Total Bond Charge Accounts Revenues</b>	<b>911</b>	<b>900</b>	<b>11</b>
10	<i>Bond Charge Accounts Expenses</i>			
11	Debt Service on Bonds	909	890	19
11	Administrative and General Expenses	15	-	15
12	<b>Total Bond Charge Accounts Expenses</b>	<b>924</b>	<b>890</b>	<b>34</b>
14	Net Bond Charge Revenues	(14)	9	(23)
15	<b>Ending Aggregate Balance in Bond Charge Accounts</b>	<b>1,767</b>	<b>1,787</b>	<b>(20)</b>
<b>Target Minimum Bond Charge Account Balances</b>		<b>Target (Millions of Dollars)</b>		
<b>Bond Charge Collection Account:</b> An amount equal to one month's required deposit to the Bond Charge Payment Account for projected debt service		76 - 77	75 - 77	Different
<b>Bond Charge Payment Account:</b> An amount equal to the debt service accrued and unpaid through the end of the third next succeeding calendar month		306 - 1,025	315 - 999	Different
<b>Debt Service Reserve Account:</b> Established as the maximum annual debt service		909	919	(10)

<sup>1</sup>Numbers may not add due to rounding.

<sup>2</sup>As included herein.

<sup>3</sup>As reflected in the 2015 Revised Determination.

<sup>4</sup>Includes Bundled Customer and Cost Responsibility Surcharge revenues.

## **FUTURE ADJUSTMENT OF REVENUE REQUIREMENT**

The Department may propose to revise its revenue requirement for the 2016 Revenue Requirement Period given the potential for changes in the California energy market, receipt of settlements from any legal proceedings involving the Department<sup>2</sup> and any other events that may materially affect the realized or projected financial performance of the Power Charge Accounts or the Bond Charge Accounts. In such event, the Department will inform the Commission of such material changes and will revise its revenue requirement accordingly.

### **B. BACKGROUND**

Information on the Act and the Rate Agreement, which have not changed since 2002, is contained in the Department's prior Determinations of Revenue Requirement, copies of which have been incorporated into the administrative record supporting this Determination. Each Determination of Revenue Requirements builds upon the prior Determinations.

A summary of the 2015 Revenue Requirements is provided below:

The Department sent requests for information to each IOU on May 7, 2014, which solicited an update of various modeling assumptions, load information and operational considerations. The information obtained from the IOUs served as the basis for the Department's analytical and forecasting efforts related to the 2015 Determination. The Department also considered other important criteria, including, but not limited to, Commission Decisions, Bond Indenture requirements, information pertaining to electric loads departing IOU service, and historical dispatch levels of Department contract facilities. The resulting data was incorporated into spreadsheet-based analytical models that were used to estimate IOU load volumes subject to Power Charges and Bond Charges and Department contract volumes and costs, and became a part of the projections leading to the 2015 Determination.

The Department provided interested persons with quantitative results from its analytical models, subject to applicable non-disclosure requirements. Interested parties were advised to submit comments no later than July 18, 2014.

After its review of all comments and its internal review, the Department made the following changes in its 2015 Determination:

- 1) Included settlement amounts of approximately \$172 million of which \$142 million was received by the Department on August 8, 2014. The settlements are associated with the Department's participation, along with other California Parties, in the Federal Energy Regulatory Commission Refund Proceedings associated with the California energy crisis in 2000 and 2001.
- 2) Reduced the fixed costs of the Kings River Power Supply Contract to reflect the District's use of bond reserves in making debt service payments. The use of such reserves reduces the fixed contract cost billed to the Department.

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<sup>2</sup> The Department is a participant, along with other California Parties, in the Federal Energy Regulatory Commission Refund Proceedings associated with the energy crisis in California in 2000 and 2001. When the Department receives amounts associated with settlements it will notify the CPUC and support its allocation of any excess amounts that can be returned to ratepayers in the IOU service areas.

- 3) Updated SDG&E's bundled non-exempt bond charge load for 2014 and 2015.
- 4) Removed the costs associated with the Kern River Gas Transportation Services Agreement ("TSA") from its projections for the 2015 Revenue Requirement effective July 1, 2014.

The Department reviewed certain matters relating to its August 21, 2014 Determination, including, but not limited to, operating results of the Electric Power Fund (the "Fund") as of September 30, 2014 and an updated gas price forecast. The Department proposed to revise its August 21, 2014 Determination under Section 516 of the Regulations to address the following matters:

- 1) Updated actual Electric Power Fund Operating and Bond Account operating results through September 30, 2014.
- 2) Updated natural gas price forecasts and related assumptions.
- 3) Updated projections for contract costs for the remainder of the Power Supply Program,

The Department issued its Proposed Revised 2015 Revenue Requirement, which included the updates noted above, on October 14, 2014 and requested comments from interested parties by October 21, 2014. No comments were received. The 2015 Revenue Requirement was provided to the Commission for allocation on October 23, 2014.

## **THE 2016 DETERMINATION**

The Department sent requests for information to each IOU on May 29, 2015, which solicited an update of various modeling assumptions, load information and operational considerations. The information obtained from the IOUs served as the basis for the Department's analytical and forecasting efforts related to the Proposed 2016 Determination. The Department also considered other important criteria, including, but not limited to, Commission Decisions, Bond Indenture requirements, information pertaining to electric loads departing IOU service, and historical dispatch levels of Department contract facilities. The resulting data was incorporated into spreadsheet-based analytical models that were used to estimate IOU load volumes subject to Bond Charges and became a part of the projections leading to the Proposed 2016 Determination.

The Department provided interested persons with quantitative results from its analytical models, subject to applicable non-disclosure requirements. Interested parties were advised to submit comments no later than July 30, 2015. No comments were received.

After its internal review, the Department has made the following changes in this 2016 Determination:

- 1) Included settlement amounts of approximately \$23 million which was received by the Department on June 5, 2015. The settlement amount was received from TransAlta Energy Marketing. The settlement is associated with the Department's participation, along with other California Parties, in the Federal Energy Regulatory Commission Refund Proceedings associated with the California energy crisis in 2000 and 2001.

Table B-1 summarizes the changes between the Proposed 2016 Determination and this 2016 Determination for the Power Charge revenue requirement and Power Charge Accounts.

There are no changes to the Proposed 2016 Determination for the Bond Charge revenue requirements and Bond Charge Accounts.

**TABLE B-1**  
**SUMMARY OF THE DEPARTMENT'S 2016 POWER CHARGE REVENUE**  
**REQUIREMENTS AND POWER CHARGE ACCOUNTS**  
**AND COMPARISON TO PROPOSED DETERMINATION<sup>1</sup>**  
**(\$ Millions)**

Line	Description	2016 RR-8-6-2015 filing	2016 RR-7-9-2015 filing	Difference
1	<i>Beginning Balance in Power Charge Accounts</i>			
2	Operating Accounts	65	42	23
3	Operating Reserve Account	2	2	-
4	<b>Total Beginning Balance in Power Charge Accounts</b>	<b>68</b>	<b>44</b>	<b>23</b>
5	<i>Power Charge Accounts Operating Revenues</i>			
6	Power Charge Revenues	-	-	-
7	Return of Excess Amounts to Customers <sup>2</sup>	(58)	(34)	(23)
8	Interest Earnings on Fund Balances	0	0	0
9	<b>Total Power Charge Accounts Operating Revenues</b>	<b>(58)</b>	<b>(34)</b>	<b>(23)</b>
10	<i>Power Charge Accounts Operating Expenses</i>			
11	Administrative and General Expenses	-	-	-
12	Total Power Costs	-	-	-
13	<b>Total Power Charge Accounts Operating Expenses</b>	<b>-</b>	<b>-</b>	<b>-</b>
14	Net Operating Revenues	(58)	(34)	(23)
15	<b>Ending Aggregate Balance in Power Charge Accounts</b>	<b>10</b>	<b>10</b>	<b>-</b>

Target Minimum Power Charge Account Balances	Target (Millions of Dollars)	
Operating Account	10	10
Operating Reserve Account	-	-
<b>Total Operating Reserves:</b>	<b>10</b>	<b>10</b>

<sup>1</sup>Numbers may not add due to rounding.

<sup>2</sup>Comprised of surplus reserves meeting the definition of Excess Amounts within the Power Supply Revenue Bond Indenture.

## C. QUARTERLY SUMMARY OF REVENUE REQUIREMENTS FOR THE PERIOD JANUARY 1, 2016 THROUGH DECEMBER 31, 2016

For 2016, the Department’s revenue requirement primarily consists of Bond Related Costs, which are to be satisfied primarily by Bond Charge Revenues.

The Department projects that it will not incur any power procurement-related costs and that it will return \$58 million of excess amounts to IOU customers. Excess amounts as defined within the bond indenture shall be used, at the direction of the Commission after consultation with the Department, to (i) adjust customer charges, or (ii) with the agreement of the Department, reduce debt outstanding under the indenture, in all instances upon consideration of the interests of the retail customers of the IOUs and DWR. Table C-1 provides a quarterly projection of sources and uses associated with the Power Charge Accounts for the 2016 Revenue Requirement Period.

**TABLE C-1  
POWER PURCHASE PROGRAM, REVENUE REQUIREMENT BASE CASE  
SOURCES AND USES  
(\$ Millions)**

Line	Description	Amounts for Revenue Requirement Period (millions)				
		Q1	Q2	Q3	Q4	Total
<i>Sources</i>						
1	Balances in Accounts					68
2	Power Charge Revenues	-	-	-	-	-
3	Interest Earnings on Power Charge Account Balances	0.07	0.04	0.03	0.02	0.16
4	<b>Total Sources</b>					<b>68</b>
<i>Uses</i>						
5	Return of Excess Cash to Customers	14	14	14	14	58
6	Administrative and General Expenses	-	-	-	-	-
7	Power Costs	-	-	-	-	-
8					Ending Balance	10
9	<b>Total Uses</b>					<b>68</b>

During 2016, the Department projects that it will incur the following Bond Related Costs: (a) \$909 million for debt service on the Bonds, and (b) \$15 million for administrative and general resulting in total Bond Charge Account expenses of \$924 million. Funds to meet this requirement are provided from: (a) \$19 million in interest earned on Bond Charge Account balances; (b) \$891 million from Bond Charge Revenues (including CRS revenues from customers other than customers of the IOUs and DWR) and (c) (\$14) million in changes to Bond Charge Account balances. Table C-2 provides a quarterly projection of sources and uses relating to the Bond Charge Accounts for the 2016 Revenue Requirement Period.

**TABLE C-2**  
**POWER PURCHASE PROGRAM, REVENUE REQUIREMENT BASE CASE**  
**SOURCES AND USES**  
**(\$ Millions)**

Line	Description	Amounts for Revenue Requirement Period (millions)				
		Q1	Q2	Q3	Q4	Total
<i>Sources</i>						
1		Balances in Accounts				1,781
2	Bond Charge Revenues	214	206	239	233	891
3	Interest Earnings on Bond Charge Account Balances	1	9	1	9	19
4		<b>Total Sources</b>				<b>2,691</b>
<i>Uses</i>						
5	Debt Service Payments	-	797	-	112	909
6	Administrative and General Expenses	4	4	4	4	15
7		Ending Balance				1,767
8		<b>Total Uses</b>				<b>2,691</b>

#### **D. ASSUMPTIONS GOVERNING THE DEPARTMENT’S PROJECTION OF REVENUE REQUIREMENT FOR THE 2016 REVENUE REQUIREMENT PERIOD**

The Department based this 2016 Determination on a number of assumptions regarding retail customer load and administrative and general expenses, as well as other considerations affecting the Department’s revenues and expenses.

##### **ESTIMATED RETAIL LOAD**

The Department obtained the Utilities’ most recent retail energy forecasts in June 2015. The Department reviewed the Utilities’ underlying forecast assumptions and the forecasts for Direct Access and Community Choice Aggregation (“CCA”) in California. These assumptions are discussed in greater detail below.

Table D-1 shows the projected aggregate 2016 load forecast (in gigawatt hours) for the PG&E, SCE and SDG&E service areas combined during 2016. The information represents forecasts at the customer meter.

**TABLE D-1  
ESTIMATED ANNUAL ENERGY REQUIREMENTS<sup>3</sup>**

	<b>Bundled Load</b>	<b>Direct Access and CCA</b>	<b>Total Load</b>
<b>Total</b>	161,159	28,934	190,093

### **DIRECT ACCESS**

The Department’s direct access estimates are based primarily on data provided by each IOU. Where applicable, the data provided by each IOU was adjusted to account for the expected effects of Senate Bill (SB) 695.

On October 11, 2009, SB 695 was signed into law as an urgency statute. SB 695 allows individual retail nonresidential end-use customers of the IOUs to acquire electric service from non-IOU energy suppliers, up to a customer aggregated, service-area specific kWh limit. Except for this express authorization for increased direct access transactions under SB 695, the previously enacted suspension of direct access remains in effect.

On March 15, 2010, the CPUC issued Decision 10-03-022 which authorizes increases in the maximum direct access load for each IOU service area, as specified in SB 695. The maximum load of allowable direct access is established with each IOU service territory as the maximum total kWh supplied by all non-IOU energy suppliers to distribution customers of that IOU during any sequential 12-month period between April 1, 1998 and the effective date of the section of the Public Utilities Code modified by SB 695 (October 11, 2009).

The direct access maximum load authorized by the CPUC in Decision 10-03-022, if reached in all three service areas, would increase the percentage of each IOU’s retail load attributable to direct access customers to approximately 14.0 percent, based on current estimates of total retail load. Regardless of the level of direct access participation within the IOU service areas, direct access customers will still be assessed Bond Charges and DWR’s revenue requirement will be recovered in the same manner as has been successfully implemented over the duration of the Power Supply Program. For the 2016 Revenue Requirement period, the total percentage of direct access load, compared to retail load in the three IOU service areas, is projected to be approximately 12 percent.

### **COMMUNITY CHOICE AGGREGATION**

Community Choice Aggregation, authorized by legislation enacted in 2002 (“AB 117”), refers to the ability of a city or county to aggregate all the electrical demand of the residents, businesses and municipal users under its jurisdiction and to meet this demand from an electricity provider other than an IOU, such as an independent electrical service provider. In the decision implementing AB 117, the CPUC determined that future Community Choice Aggregation customers shall pay charges (including DWR charges) intended to keep the bundled customers of the IOUs indifferent to CCA loads departing bundled service.

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<sup>3</sup> Certain load is exempt from DWR charges. Bond Charges are allocated to non-exempt load.

Pursuant to AB 117, five entities have filed Community Choice Aggregation Implementation Plans with the CPUC. The San Joaquin Valley Power Authority (“SJVPA”) filed an Implementation Plan with the CPUC on January 29, 2007, the Marin Energy Authority (“MEA”) filed an Implementation Plan with the CPUC on December 4, 2009, the City and County of San Francisco (“CCSF”) filed an Implementation Plan (as “CleanPowerSF”) with the CPUC on March 3, 2010, the Sonoma County Water Agency filed an Implementation Plan (as “Sonoma Clean Power”) on August 22, 2013, and the Lancaster Power Authority filed an Implementation Plan (as “Lancaster CCA”) on June 1, 2014. On March 13, 2015 CPUC certified Lancaster Community Choice Aggregation’s Revised Implementation Plan. In May, Lancaster Choice Energy began service to 850 customers in the City of Lancaster. The SJVPA Implementation Plan was certified by the CPUC in May 2007; however, CCA implementation was suspended by SJVPA on June 25, 2009. The initial MEA Implementation Plan was certified on February 2, 2010 and the CleanPowerSF Implementation Plan was certified by the CPUC on May 18, 2010. The Sonoma Clean Power Implementation Plan was certified by the CPUC on October 4, 2013 and was registered as a Community Choice Aggregator on January 21, 2014.

MEA administers the plan through Marin Clean Energy (“MCE”) and serves approximately 165,000 customers in Marin County, unincorporated Napa County, along with the cities of Benicia, El Cerrito, San Pablo and Richmond. MEA member (municipal) accounts and a subset of residential, commercial and/or industrial accounts, comprising approximately 20 percent of MEA’s total customer load, began service on May 7, 2010. In December 2011, MEA filed a Revised Implementation Plan, which included information on additional members. The Revised Implementation Plan was certified by the CPUC on January 3, 2012. In July 2012, MEA filed a Revised Implementation Plan that reflected information pertaining to new members (the City of Richmond), and this Revised Plan was certified by the CPUC on September 26, 2012. Further, MEA filed an additional Revised Implementation Plan in August 2012, which conformed to CPUC privacy rules. This Implementation Plan was certified by the CPUC in January 2013.

Sonoma Clean Power (SCP) began offering retail electric service to customers in May 2014. The cities of Cotati, Sebastopol, Santa Rosa, Cloverdale, Sonoma, Rohnert Park, Petaluma, the town of Windsor, and all of the County’s unincorporated area have elected to participate. Now SCP is the default provider in all of Sonoma communities, save Healdsburg which runs its own utility. SCP provides service to approximately 198,000 customers.

Communities that are considering forming a CCA include the cities of Arcata, San Diego, Victorville, San Luis Obispo, Berkeley (in cooperation with other cities located to the east of San Francisco Bay), Mountain View (in cooperation with Cupertino, Sunnyvale, and Santa Clara County), the counties of San Mateo, Alameda and Mendocino, Humboldt and the Monterey Bay Area. On June 3, 2014, Alameda County approved a \$1.3 million feasibility study to form a Joint Powers Authority. In the later part of 2015, Mountain View and its partners will begin a \$450,000 technical study to determine how to jump-start a local program. A first step for CCA for Alameda County and Mountain View.

While CCA could lead to substantial reductions in bundled sales volumes, the CPUC proceeding implementing AB 117 established that the Cost Responsibility Surcharge would be paid by CCA customers and that the method for calculating the Cost Responsibility Surcharge adopted for direct

access and municipal departing load customers, as modified by CPUC Decision 06-07-030, would also apply to CCA customers.

## **COST RESPONSIBILITY SURCHARGE**

In a series of decisions, the CPUC ordered certain classes of direct access, municipal and customer generation departing load, and CCA customers to pay the Cost Responsibility Surcharge related to historical stranded power costs and ongoing above-market power costs. Included in the Cost Responsibility Surcharge is a DWR Bond Charge component, which is assessed to pay debt service associated with DWR's bond issuances and a DWR Power Charge component, which pays a pro-rata portion of the above-market costs of the DWR power portfolio. The Bond Charge and the Power Charge components are rates imposed on total electricity usage by direct access, departing load, and Community Choice Aggregation customers by the CPUC in concert with the establishment of Power Charges and Bond Charges on bundled customers.

Cost Responsibility Surcharge revenues reduce the amount of Bond Charges and Power Charges that must be imposed on bundled customers to recover Bond Related Costs and Department Costs. In the aggregate, the payments by direct access load, departing load, CCA load, and from bundled customer load for the DWR Bond Charge and the DWR Power Charge, flow to DWR to recover the DWR Bond Related Costs and Department Costs.

## **ADMINISTRATIVE AND GENERAL COSTS**

The Department's administrative and general costs of \$15 million consist of \$12 million for appropriated budget expenditures including funds for labor and benefits, pro-rata charges for services provided to the power supply program by other State agencies and \$3 million for consulting services for development and monitoring of the revenue requirement, litigation and dispute resolution support, power contract management, and financial advisory services for managing the \$5.278 billion debt portfolio and related reserves. The Department projects to collect its administrative and general costs through Bond Charges, rather than Power Charges, beginning in January 2016.

## **FINANCING RELATED ASSUMPTIONS**

For purposes of calculating the interest earnings on account balances during 2016, the Department assumes a 1.88 percent earnings rate for the Debt Service Reserve Account and a 0.275 percent earnings rate for all other accounts during the 2016 Revenue Requirement Period.

The Department currently has \$5.278 billion of fixed rate bonds outstanding. The projected average interest rate for all fixed rate bonds for the 2016 Revenue Requirement Period is 4.861 percent.

The Department projects that the amount of Bond Charge Revenues required for the 2016 Revenue Requirement Period will be \$891 million.

## **ACCOUNTS AND FLOW OF FUNDS UNDER THE BOND INDENTURE**

General information on the Accounts and flow of funds under the Bond Indenture, which has not changed since the bonds were issued in 2002, is contained in the Department's prior

Determinations of Revenue Requirement, copies of which have been incorporated into the administrative record supporting this Determination.

Information specific to certain Accounts for this Determination is as follows.

### **OPERATING ACCOUNT**

The Department has covenanted in the Bond Indenture to include in its revenue requirement amounts estimated to be sufficient to cause the amount on deposit in the Operating Account at all times during any calendar month to equal the Minimum Operating Expense Available Balance (“MOEAB”). The Bond Indenture leaves to the Department the determination as to how far into the future this minimum test of sufficiency should be met. Moreover, the covenant concerns the minimum amount required to be projected to be on deposit, and leaves to the Department the determination as to what total reserves are appropriate or required in the fulfillment of its duties under Section 80134 of the Act.

For the purposes of this Determination, the Department has determined the MOEAB to be \$10 million. The Department projects to exceed the MOEAB at all times during 2016. The Department has determined that the amount projected to be on deposit in the Operating Account, including the amount therein that acts as a reserve for Operating Expenses, is just and reasonable, based primarily on maintaining sufficient amounts for any remaining cost obligations of the power and natural gas supply portfolio and related administrative costs, as well as the factors discussed in Section F—“Key Uncertainties in the Revenue Requirement Determination.”

### **OPERATING RESERVE ACCOUNT**

The Operating Reserve Account Requirement (“ORAR”) is to be calculated, in respect of each Revenue Requirement Period, as the greater of (a) the largest aggregate amount projected by the Department by which Operating Expenses exceed Power Charge Revenues during any consecutive seven calendar months commencing in such Revenue Requirement Period and (b) 12 percent of the Department’s projected annual Operating Expenses, provided, however, that the projected amount will not be less than the applicable percentage of Operating Expenses for the most recent 12-month period for which reasonably full and complete Operating Expense information is available, adjusted in accordance with the Indenture to the extent the Department no longer is financially responsible for any particular Power Supply Contract. All projections are to be based on such assumptions as the Department deems to be appropriate after consultation with the Commission and taking into account a range of possible future outcomes (i.e., “Stress Case”).

The Department does not have an ORAR amount for the 2016 Revenue Requirement Period.

### **DEBT SERVICE RESERVE ACCOUNT**

For purposes of calculating the amount of the Debt Service Reserve Requirement in accordance with the Bond Indenture, the Department determines the Maximum Annual Debt Service (“MADS”) for all outstanding Power Supply Revenue Bonds through final bond maturity. The MADS amount must be carried in the Debt Service Reserve Account at all times to satisfy Bond Indenture requirements.

For the 2015 Revenue Requirement Period, the Department has determined the Debt Service Reserve Requirement to be \$909 million, equal to MADS. The Department projects to maintain this amount at all times during the 2016 Revenue Requirement Period.

## **E. POWER CONTRACT SETTLEMENT SUMMARY**

The California Parties, which include the Governor’s Office, California Attorney General’s Office, CPUC, the Department, and the IOUs, have participated in Federal Energy Regulatory Commission (“FERC”) proceedings to recover excess electricity costs incurred by ratepayers since 2001. These FERC proceedings have led to several settlement agreements between the California Parties and the responsible energy suppliers. Any future settlement distributions will reduce Department costs and, as a result, decrease the Department’s revenue requirement. Copies of prior settlement agreements are incorporated into the administrative record supporting this Determination.

## **F. KEY UNCERTAINTIES IN THE REVENUE REQUIREMENT DETERMINATION**

The Department faces a number of uncertainties that may require material changes to its revenue requirement for the 2016 Revenue Requirement Period. Several risk factors are outlined below and additional information may be found in each of the bond financing Official Statements, which may be obtained from the Treasurer of the State of California.

- 1) Determination of Bond Charges;
  - a. Potential administrative and legal challenges to DWR’s revenue requirement; and
  - b. Application and enforcement of the Rate Agreement’s Bond Charge rate covenant.
- 2) Collection of Bond Charges:
  - a. Potential rejection of Servicing Arrangements or other disruption of servicing arrangements.
- 3) Potential increases in overall electric rates:
  - a. Changes in general economic conditions;
  - b. Market manipulation; and
  - c. Actions affecting retail rates.
- 4) Potential decrease in DWR customer base:
  - a. Direct Access; and
  - b. Load departing IOU service.
- 5) Uncertainties relating to government action:
  - a. California Emergency Services Act;
  - b. Possible State legislation or action; and

- c. Possible Federal legislation or action.
- 6) Uncertainties relating to financial industry and markets:
  - a. Effects of bond refunding or similar action;
  - b. Constraints in the flow and availability of credit facilities and capital.

## **G. JUST AND REASONABLE DETERMINATION**

### **PRIOR DETERMINATIONS**

Each new revenue requirement determination builds, to the extent necessary or appropriate, on the various preceding determinations. Successive determinations incorporate the information from each previous determination into the supporting administrative record. Determinations are available for review on the CERS website by interested persons, and the supporting materials are available at the CERS office in Sacramento, subject to applicable non-disclosure requirements.

<b>Determination</b>	<b>Date Issued</b>
2001-2003, including Reexamination and Redetermination for 2001-2002	August 16, 2002
Reconsideration of Just and Reasonableness of 2001 - 2003	August 19, 2004
2003 Supplemental	July 1, 2003
2004	September 18, 2003
2004 Supplemental	April 16, 2004
2005	November 4, 2004
Revised 2005	March 16, 2005
2006	August 3, 2005
Final 2006	October 27, 2005
2007	August 2, 2006
Revised 2007	October 30, 2006
2008	August 22, 2007
Revised 2008	October 31, 2007
Supplemental 2008	February 15, 2008
2009	August 6, 2008
Revised 2009	October 29, 2008
2010	August 6, 2009
Revised 2010	October 27, 2009
2011	August 5, 2010
Revised 2011	October 26, 2010
2012	August 4, 2011
Revised 2012	October 27, 2011
2013	August 2, 2012
Revised 2013	October 15, 2012
2014	August 1, 2013
Revised 2014	October 18, 2013
2015	August 21, 2014
Revised 2015	October 23, 2014

## **THE 2016 DETERMINATION**

### **PUBLIC PROCESS**

Under the terms of the Rate Agreement between the Department and the Commission, and the terms of the Bond Indenture, the Department has agreed to review, determine and revise its Retail Revenue Requirement at least annually.

The Department issued its Proposed Determination of Revenue Requirements for the period January 1, 2016 through December 31, 2016 for public review and comment under the Regulations promulgated pursuant to the California Administrative Procedures Act. The Department is providing interested persons with quantitative results from its contract volume and cost analytical models and Financial Model, subject to applicable non-disclosure requirements. Interested parties are advised to submit comments no later than July 30, 2015. No comments were received.

### **JUST AND REASONABLE DETERMINATION**

The Department has completed its assessment of the administrative record, the Act, the Regulations, Bond Indenture requirements and the Rate Agreement and finds this Determination, for the period of January 1, 2016 through December 31, 2016, to be a just and reasonable determination of its 2016 Revenue Requirement.

### **H. ANNOTATED REFERENCE INDEX OF MATERIALS UPON WHICH THE DEPARTMENT RELIED TO MAKE THE DETERMINATION**

Volume	Record	Date	Record Title
DWR16pRR	1	10/14/2014	DWR Electric Power Fund Audited Financial Statements, for Years ending 6/30/14
DWR16pRR	2	12/16/2014	CPUC D. 12-14-002 Allocating The Final Revised 2015 Revenue Requirement
DWR16pRR	3	02/17/2015	DWR Electric Power Fund Financial Statements, 12/31/14
DWR16pRR	5	05/29/2015	DWR "Pacheco" email transmittal of Data Request 1 to PG&E
DWR16pRR	6	05/29/2015	DWR "Pacheco" email transmittal of Data Request 1 to SCE
DWR16pRR	7	05/29/2015	DWR "Pacheco" email transmittal of Data Request 1 to SDG&E
DWR16pRR	8	05/15/2015	DWR Electric Power Fund Financial Statements, 3/31/15
DWR16pRR	9	06/18/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: SDG&E Data Responses
DWR16pRR	10	06/18/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: PGE - Data Responses
DWR16pRR	11	06/18/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: SCE - Data Responses
DWR16pRR	12	07/09/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Financial Model (CFMG5V39k - 2016 RR filing.) Projection of Revenue Requirement
DWR16pRR	13	07/09/2015	Proposed Determination of Revenue Requirement for 2015, including the Determination, The Notice, and Regulations.
DWR16pRR	14	07/09/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Proposed Determination of Revenue Requirement for 2016, specific to PG&E
DWR16pRR	15	07/09/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Proposed Determination of Revenue Requirement for 2016, specific to SCE
DWR16pRR	16	07/09/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Proposed Determination of Revenue Requirement for 2016, specific to SDG&E
DWR16pRR	17	8/6/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Financial Model (CFMG5V40c - 2016 RR filing.) Projection of Revenue Requirement
DWR16pRR	18	8/6/2015	Determination of Revenue Requirement for 2016, including the Determination, The Notice, and Regulations.
DWR16pRR	19	8/6/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Determination of Revenue Requirement for 2016, specific to PG&E
DWR16pRR	20	8/6/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Determination of Revenue Requirement for 2016, specific to SCE

DWR16pRR	21	8/6/2015	CONFIDENTIAL: NOT FOR PUBLIC RELEASE: Data files supporting the Determination of Revenue Requirement for 2016, specific to SDG&E