

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

Public Utilities Commission of the)
State of California)
Complainant,)
v.)
Sellers of Long-Term Contracts to the)
California Department of Water Resources)
Respondents.)
California Electricity Oversight Board)
Complainant,)
v.)
Sellers of Energy and Capacity under)
Long-Term Contracts with the)
California Department of Water Resources)
Respondents.)
)

Docket Nos. EL02-60-007 and
EL02-62-006 (Consolidated)

**PREPARED DIRECT TESTIMONY OF MICHEL PETER FLORIO
ON BEHALF OF THE CALIFORNIA PARTIES**

May 19, 2015

TABLE OF CONTENTS

I. INTRODUCTION..... 1

II. LIFE DURING THE 2000 – 2001 ENERGY CRISIS..... 4

III. BRACING FOR THE SUMMER OF 2001 19

IV. RECOVERING CDWR’S COSTS INCURRED DUE TO THE CRISIS..... 30

V. THE CONSUMER IMPACTS OF THE 2001 RATE INCREASES..... 47

VI. THE CONSUMER BURDEN IMPOSED BY THE
LONG-TERM CONTRACTS 56

1 **I. INTRODUCTION**

2 **Q. What is your name and what is your business address?**

3 A. My name is Michel Peter Florio. My principal office is at 505 Van Ness
4 Avenue in San Francisco.

5 **Q. By whom are you employed and in what capacity?**

6 A. Since January 25, 2011, I have been one of five appointed Commissioners
7 of the Public Utilities Commission of the State of California (CPUC), one
8 of the Complainants in this case.

9 **Q. Where did you work prior to joining the CPUC as Commissioner?**

10 A. From 1978 until my appointment to the CPUC, I was an attorney for The
11 Utility Reform Network (TURN). TURN is a consumer advocacy
12 organization that has represented the interests of residential consumers and
13 small businesses for over forty years in California, including legal
14 advocacy at the CPUC and in the Legislature.

15 **Q. Please summarize your professional and educational background.**

16 A. I spent over 30 years at TURN, litigating every conceivable type of energy
17 case before the CPUC, particularly on rate cases and how rates impact
18 consumers. I also advocated in the California legislative process, working
19 with both the Governor's office and the Legislature on energy related
20 statutes and regulations. I served as a member of the Board of Governors

1 of the California Independent System Operator Corporation (ISO) from
2 1997 to 2005.

3 I have a Juris Doctor from New York University School of Law, a
4 Master's Degree in Public Affairs from the Woodrow Wilson School at
5 Princeton University, and a B.A. from Bowling Green State University.

6 **Q. What topics will you address in your testimony?**

7 A. I will describe the following:

- 8 • How the Crisis gravely impacted every aspect of California life from
9 May 2000 through July 2001, when the citizens, businesses and
10 government struggled to cope with unprecedented days of power
11 outages and suffered a year of exorbitant electricity prices;
- 12 • What was happening in January through July 2001, when
13 California's leaders tried to mitigate the Crisis conditions and stave
14 off power outages that were widely predicted to continue into the
15 summer of 2001, which we now know was caused in large part by
16 massive market manipulation by sellers and not legitimate supply
17 shortages;
- 18 • How California consumers have paid, and will continue to pay, for
19 the 37.5 billion dollars the California Department of Water
20 Resources (CDWR) has expended for long-term contracts entered
21 into during the Crisis – starting with rate hikes imposed on

1 California ratepayers in early 2001 and continuing with the annual
2 Bond Charges and Power Charges set by the CPUC to pay the costs
3 that CDWR incurred on California's behalf; and

- 4 • The detrimental impacts to consumers caused by the spike in
5 wholesale power prices during the Crisis and the overcharges reaped
6 by parties who executed long-term contracts with CDWR, including
7 the Respondents in this case.

8 **Q. Please state your understanding of the purpose of this proceeding.**

9 A. I understand that what is at issue in this proceeding is whether the long-
10 term contracts that CDWR executed with Shell Energy North America
11 (US), L.P. (formerly known as Coral Power LLC)¹ on May 24, 2001, and
12 Iberdrola Renewables, Inc. (formerly known in these proceedings as
13 PacifiCorp Power Marketing, Inc., or PPM Energy, Inc.)² on July 6, 2001,
14 should be abrogated or reformed because, among other things, the contract
15 prices and terms were not just and reasonable and they imposed, and
16 continue to impose, an excessive burden on California consumers.

¹ References to either Shell or Coral are to the same entity. I will refer to this contract as the Shell Contract.

² References to either Iberdrola or PPM are to the same entity. I will refer to this contract as the Iberdrola Contract.

1 **II. LIFE DURING THE 2000 – 2001 ENERGY CRISIS**

2 **Q. Please describe how the 2000-2001 Crisis impacted California.**

3 A. It is hard in 2015 to imagine what it was like to live through the Crisis of
4 2000 – 2001, but the events from that period are etched in my memory
5 because it truly felt like living in a war zone. Panic and fear gripped the
6 citizens, government officials and businesses of the State as they struggled
7 to cope with inexplicable skyrocketing electricity costs, ballooning utility
8 bills, and living in a near-constant state of ISO-declared electrical system
9 emergencies. The Crisis was unprecedented in the modern history of the
10 U.S. electric industry in terms of its severity, duration, and consumer
11 impacts.

12 California's continuous struggle to keep the lights on was a regular
13 feature in the national news, as conditions that escalated into the Crisis in
14 the summer of 2000 grew even worse in the winter of 2000-2001 and gave
15 way to rolling blackouts in January 2001. Video footage aired on the ABC
16 news program Nightline on January 24, 2001 vividly illustrates the state of
17 chaos and the impacts on Californians at the time. Exh. No. CAL-242A, B
18 (video and transcript). The sense of panic grew even worse when, in late
19 March and again in May 2001, rolling blackouts again brought businesses
20 and factories to a halt, darkened stoplights, and left disabled persons

1 literally fearing for their lives.³ California’s leaders, the ISO, and citizens
2 were bracing for an unthinkable second summer of dire conditions, as news
3 reports characterized the March and May blackouts as a “warning” for
4 Southern California, and predicted that “this is not going to be an easy
5 summer for the West Coast.” Exh. Nos. CAL-243A, B (video and
6 transcript of ABC World News Tonight, March 19, 2001), CAL-244A, B
7 (video and transcript of ABC World News Tonight, May 8, 2001). Nobody
8 knew when or how the Crisis would end.

9 Having blackouts hit California in January, March, and May 2001,
10 was also baffling because demand was lower at those times than in the
11 summer, when electricity demand typically peaks in California. We now
12 know that the skyrocketing wholesale prices and blackouts were caused in
13 large part by massive market manipulation by sellers, including Shell and
14 Iberdrola’s affiliate, PacifiCorp. But it has only been in the past several
15 years through various FERC proceedings that the extent of market
16 manipulation has been documented and proven. At the time, although we
17 suspected market manipulation, California’s leaders had limited
18 information and options as they struggled to ensure there would be
19 sufficient and affordable electricity supplies for the summer months. As a

³ The Prepared Direct Testimony and Exhibits of Ronald Nichols cite examples from 2001 illustrating the widespread fears that California would not have adequate energy supplies for the summer and describing the impacts of blackouts. *See* Exhibit CAL-51 at 35-36 and CAL-72 at 3-8. I provide further examples below.

1 member of the Board of Governors of the ISO and an attorney for TURN at
2 the time, I was involved seven days a week as California struggled to
3 comprehend and develop potential solutions to the Crisis, repeatedly having
4 to make very hard decisions among only bad choices.

5 Today, fourteen years later, it's easy to take the reliability of the
6 bulk electric system for granted. There have not been rolling blackouts or a
7 Stage Three Emergency in California since 2001 and it's been years since
8 the ISO declared any kind of system emergency.

9 **Q. What do you mean by system emergency?**

10 A. Through my service as a member of the ISO Board of Governors from
11 1997 to 2005, I understood that to promote reliability and avert cascading
12 outages, the ISO implemented a system for alerting scheduling coordinators
13 about potential problems meeting load. Under this system the ISO can
14 declare a series of escalating system emergencies if operating reserves fall
15 too low, beginning with a Stage One Emergency, escalating into a Stage
16 Two Emergency, and finally reaching a Stage Three Emergency if
17 operating reserves are (or are forecast) to dip so low that there is a potential
18 for uncontrolled load interruptions. The declarations signal emergency
19 measures the ISO may implement to ensure the overall reliability of the
20 bulk electric system. For example, in a Stage One Emergency the ISO can
21 urge conservation. In a Stage Two Emergency the ISO can intervene in the

1 markets and require utilities to interrupt service to customers who had
2 elected non-firm service (“interruptible customers”). A Stage Three
3 Emergency notifies utilities of potential load interruptions and the ISO can
4 curtail firm-load and impose rotating outages, commonly known as rolling
5 blackouts.

6 **Q. Does the ISO declare a system emergency very often?**

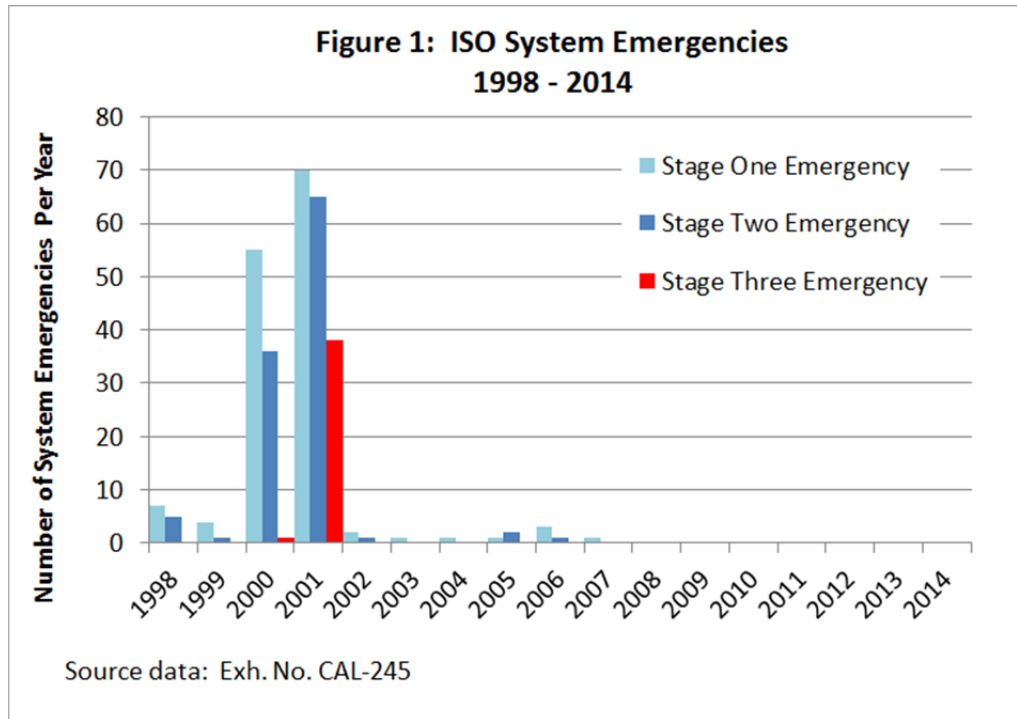
7 A. No. They are rare – except for during the Crisis, when the number of
8 system emergencies was truly unprecedented. Figure 1 below shows the
9 total number of ISO system emergencies declared each year from 1998 to
10 the present, based on ISO data reproduced in Exh. No. CAL-245 (ISO Grid
11 History - 1998 to Present).⁴ In its sixteen years of operations the ISO has
12 issued only thirty-nine Stage Three Emergencies – all during the Crisis. *Id.*
13 at 1, 3-7. From May 2000 through July 2001, the ISO declared 125 Stage
14 One Emergencies and 101 Stage Two Emergencies, compared to eleven
15 Stage One Emergencies and six Stage Two Emergencies in 1998 and 1999
16 combined. *Id.*

17 **Q. Did a Stage Three Emergency mean that the lights would go out?**

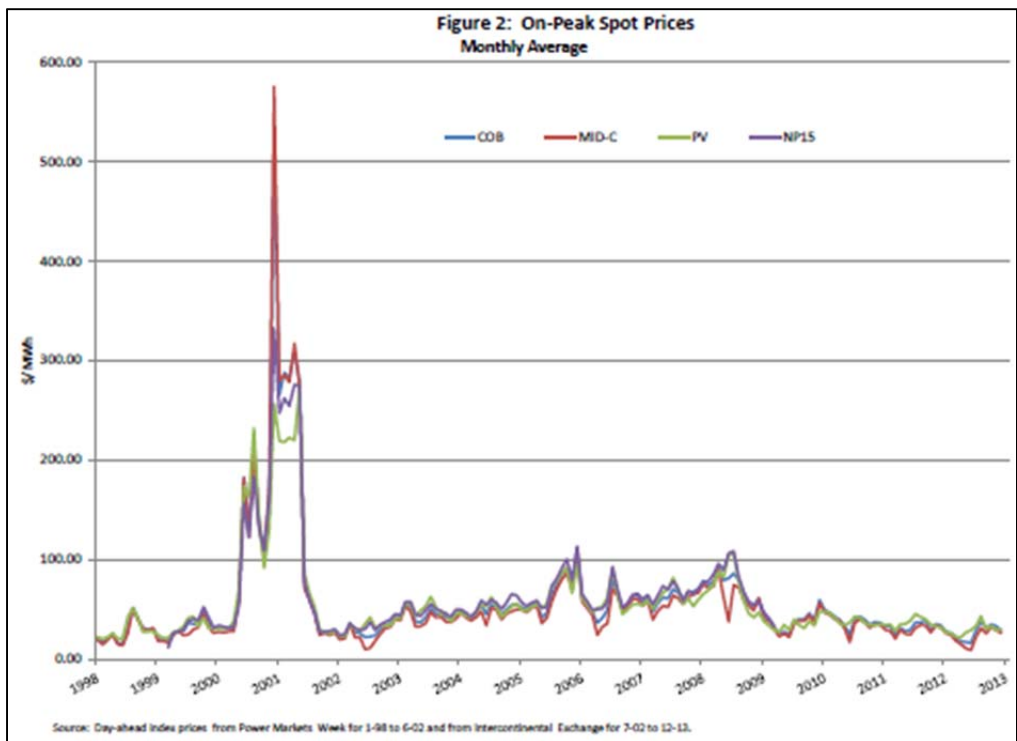
18 A. Not necessarily, but it meant that the ISO could institute rolling blackouts
19 with very short warning. These symptoms of system unreliability also
20 correlated with the equally unprecedented and dramatic rise in Spot Market

⁴ Grid History Report, First quarter 2015 update (April 7, 2015), available at <http://www.caiso.com/informed/Pages/Notifications/NoticeLog.aspx>.

1 prices, as shown in Figure 2, below (and Exh. No. CAL-246).⁵



2



3

⁵ Figure 2 (CAL-246) is reproduced from FERC Docket No. EL01-10-085 Exh. No. CAT-270, which was attached to my Prepared Rebuttal Testimony.

1 **Q. Did the increases in Spot Market energy prices starting in 2000 shown**
2 **in Figure 2 instantly affect ratepayers?**

3 A. Only in some parts of California. Consumers in the service territory of San
4 Diego Gas & Electric Company (SDG&E) felt the effects of the Crisis
5 immediately starting in the summer of 2000, because SDG&E's retail rates
6 reflected a contemporaneous pass-through of wholesale prices. SDG&E's
7 customers saw their bills at least double when wholesale prices shot up,
8 even as reliability deteriorated. But at the time the ratepayers of Pacific
9 Gas and Electric Company (PG&E) and Southern California Edison
10 Company (SCE) were insulated from direct pass-through of rising
11 wholesale electricity prices because their retail rates were still frozen at
12 1996 levels.⁶

13 **Q. Did SDG&E ratepayers react to the increases in their electricity bills?**

14 Absolutely. Widespread public outcry and protests ensued. As a consumer
15 advocate with decades of experience in energy regulation, I expected that
16 increased prices would result in reduced demand. But the situation quickly
17 moved beyond demand reduction to demand destruction. Businesses
18 closed, public agencies exhausted their energy budgets, and many
19 consumers faced growing hardships in trying to meet their regular expenses

⁶ I give additional background on the rate freezes after the electricity restructuring in Exh. No. CAL-247 at 6-7 (Prepared Direct Testimony of Michel Peter Florio, September 21, 2012, FERC Docket No. EL01-10-085).

1 as well as the spiraling cost of electricity. San Diego ratepayers swamped
2 TURN, the CPUC and probably many others with panicked calls, and news
3 outlets worldwide began covering the Crisis.

4 At hearings that the CPUC held in San Diego in August 2000, I
5 learned about the distress that escalating bills were causing not only for
6 individuals, but also for businesses, hospitals, schools and every other type
7 of electricity consumer. TURN and the CPUC also received hundreds of
8 letters telling stories of terrible hardships in San Diego. I conveyed some
9 of these stories of human and economic hardship in my Prepared Direct
10 Testimony in FERC Docket No. EL01-10-085, which is reproduced as Exh.
11 No. CAL-247. I will not repeat them all here but will relay a few in
12 particular that stand out for me:

13 Diane Jacob, President of the San Diego County Board of
14 Supervisors, told of businesses cutting their hours, laying off workers, and
15 adding surcharges to their prices to cover electricity costs:

16 The [F.F.] Market, which was a new store that opened just a
17 couple of years ago, their July bill was some 200 percent
18 higher than what it was last year. They are paying some
19 \$13,000 more for electricity than they were a year ago. And
20 they have put the county on notice, as many other businesses
21 have, that they are going to have to close their doors unless
22 they get relief and get it soon.

23 Exh. No. CAL-247 at 12.

1 Ms. Jacob also spoke at the hearings of residents who had to make
2 choices between buying food, medicine, operating life-saving medical
3 devices, or paying their electricity bill. She cited the example of customer
4 D.G.:

5 [D.G.]... he is a mobile home park resident. He's 100 percent
6 disabled, lives on a limited income, and the cost of electricity
7 for him has gone from \$190 in June to \$362 in July.... He has
8 an electrically powered oxygen device 10 hours a day to help
9 him breathe, basically, to stay alive. And without that – I
10 mean, he can't cut off his air conditioner, he can't cut off his
11 oxygen, or he loses his life....

12 *Id.* at 12

13 J.B. sent a letter to the CPUC on August 20, 2000 describing the
14 cascading effect of higher electricity prices beyond the impacts on his own
15 electric bill, which increased from \$80 in the prior year to \$165 in July
16 2000, as restaurants had begun adding a 10 percent electricity surcharge to
17 their food bills. *Id.* at 15.

18 **Q. Did the CPUC or the Legislature take action in response to the public**
19 **outray that followed the direct pass through of wholesale electricity**
20 **costs to consumers in San Diego?**

21 A. Yes. In late August 2000 the Legislature enacted AB 265, which rolled
22 back SDG&E's rates to pre-Crisis levels for residential, small commercial,
23 and street lighting customers, but allowed SDG&E to record the

1 unrecovered costs in a balancing account for later recovery.⁷ The CPUC
2 quickly implemented a rate cap of 6.5 cents per kWh for these customers,
3 retroactive to June 1, 2000.⁸ These stories and the public outcry in San
4 Diego in 2000 clearly taught me, and others responsible for energy policies
5 in California, that consumers simply could not manage to absorb 100
6 percent of the wholesale electricity price increases all at once. It was just
7 too devastating. Continuing the full pass through of the outrageous
8 wholesale prices to individuals and businesses in San Diego was not a
9 viable option.

10 **Q. Did wholesale prices decline after the summer of 2000 ended?**

11 A. Not really. As summer turned into the fall of 2000, the widespread hope
12 was that lower customer demand would lead to reduced prices. Electricity
13 consumption peaks in California during the summer, when temperatures are
14 hot and air conditioning is required, rather than in the winter, when
15 temperatures tend to be milder. But the relief was temporary, at best, and
16 then the situation rapidly worsened. In late 2000 Spot Market prices shot
17 up even higher than they had been in the summer 2000, as shown in Figure
18 2 above. And with their retail rates still frozen, California's three major

⁷ Cal. Pub. Util. Code § 332.1 (added by Stats. 2000, ch. 328).

⁸ *CPUC Opinion Expanding the Rate Stabilization Plan for San Diego Gas and Electric Company* (2000) D.00-09-040.

1 Investor Owned Utilities (IOUs) – PG&E, SCE, and SDG&E – faced
2 spiraling under-collections for their power purchase costs.

3 **Q. Were the IOUs able to continue purchasing wholesale energy in light of**
4 **the under-collections?**

5 A. No, not for long. With the wholesale energy costs the IOUs were incurring
6 dramatically outpacing what they could collect from ratepayers, PG&E and
7 SCE rapidly approached insolvency. As the Electric Power Daily reported
8 in early January, 2001, PG&E requested “a 26% rate hike, with
9 mechanisms to trigger further increases later if current wholesale prices
10 continue” and told the CPUC that “the utility will run out of cash in three
11 weeks” if it could not raise substantial sums of money. CAL-248 at 1-2
12 *(PG&E tells [CPUC] that rate hike alone won’t provide immediate*
13 *financial relief, Electric Power Daily, January 2, 2001). SCE requested a*
14 *30 percent rate increase. Id. A few weeks later, Megawatt Daily reported*
15 *that SCE could not pay its bills to the California Power Exchange (PX) and*
16 *Qualifying Facilities totaling over \$366 million, and had “suspended \$230*
17 *million in interest and principal payments on commercial paper.” CAL-248*
18 *at 3-4 (SoCalEd [SCE] suspends power payments, Megawatt Daily,*
19 *January 17, 2001).*

20 As the IOUs started hitting their credit limits, energy providers
21 became unwilling to sell energy into the ISO’s market. A story reported by

1 Copley News Service illustrates how the IOU's finances were perceived as
2 creating more problems for the ISO:

3 ISO officials say California's power situation worsened when
4 more than a dozen suppliers balked at selling power to the
5 state's utilities.

6
7 "The credit limits of utilities and what markets are willing to
8 sell us have been reached and surpassed in many cases," said
9 Kellan Fluckiger, the ISO's chief operating officer. "There
10 are questions about utility solvency. That has come to a head
11 today."

12
13 Fluckiger characterized the standoff as a "fairly bleak"
14 situation that will not be eased unless "something is done to
15 alleviate the credit situation."

16
17 The ISO wrote to the Governor's Office that some "suppliers
18 (have) advised us through their dispatchers that they are
19 unwilling to sell power into the California markets through
20 any entity."

21 Exh. No. CAL-248 at 5-7 (*Richardson forces generators to supply*
22 *California*, Joe Cantlupe, Copley News Service, December 13, 2000).

23 **Q. Did California's leaders or the CPUC respond to PG&E and SCE's**
24 **requests to collect more revenues from ratepayers to fund their**
25 **wholesale energy purchases?**

26 A. Yes. The CPUC raised retail rates by one cent per kWh on January 4, 2001
27 for PG&E and SCE's customers.⁹ Eventually the CPUC raised retail rates
28 even higher, along with instituting other mechanisms to pay back the

⁹ *CPUC Interim Opinion Regarding Emergency Requests for Rate Increases* (2001) D.01-01-018 at 1-2 (implementing an immediate, interim surcharge by allowing PG&E and SCE to increase customer bills by one cent per kWh applied on a usage basis).

1 billions of dollars of overcharges the Crisis ultimately cost.¹⁰ But increasing
2 retail rates to reflect a full-pass through of the jacked-up wholesale prices at
3 the time was unthinkable. That was the difficult, but undeniable, lesson I
4 learned from the disaster in San Diego in the summer of 2000: consumers
5 simply could not absorb 100 percent of the price increases all at once
6 because it was just too devastating.

7 In any case, it was too late by mid-January, 2001 to avoid the
8 financial crisis caused by the inflated wholesale energy prices – prices that
9 we suspected at the time, and now know, were the result of sellers’ massive
10 market manipulation. We were past the tipping point, as the IOUs’
11 deteriorating credit gave way to continuous Stage Three Emergencies and
12 rolling blackouts starting on January 17, 2001, the same day that Megawatt
13 Daily reported that SCE could not pay its bills. Exh. No. CAL-248 at 3-4.

14 The next day, the Los Angeles Times’ front-page headline declared,
15 “Rolling Blackouts Push Crisis from Threat to Reality.” Exh. No. CAL-
16 249 (Nancy Rivera Brooks, January 18, 2001). The article described the
17 ISO’s frantic efforts “trying to hustle electricity from suppliers in the
18 Pacific Northwest and elsewhere,” to avoid blackouts by calling every
19 possible supplier, but to no avail. *Id.* at 1-2. Ed Riley, director of ISO grid
20 operations, said “[t]hey gave us what they could and said they were sorry

¹⁰ I explain the mechanics of how the charges were (and are still being) paid for in Section IV below.

1 they couldn't give us more." *Id.* at 2. Describing the struggles of ISO
2 operators "trying desperately to scrounge enough electricity to get the state
3 through the day," the article reported that one operator's "canvassing
4 finally kicked loose 1,300 megawatts from the Los Angeles Department of
5 Water and Power and [BC Hydro, a] Canadian supplier, allowing the state
6 to get from 5 to 6 p.m. without blackouts. After that, it was more of the
7 same struggle through the evening." *Id.* As to why those electricity
8 supplies materialized, the article acknowledged that "[p]erhaps because
9 operators there realized they would not need as much electricity.... But
10 there could be another reason, Riley said: 'This is the highest price we've
11 paid for energy all day.'" *Id.*

12 **Q. How did California's leadership respond when the utilities became**
13 **insolvent?**

14 A. Governor Davis proclaimed a state of emergency on January 17, 2001,
15 when the IOUs could no longer acquire and provide electricity sufficient to
16 meet California's energy needs. The Governor ordered the new California
17 Energy Resource Scheduling (CERS) division of CDWR to immediately
18 purchase and sell electric power, as necessary, to mitigate the effects of the
19 emergency. That was when CDWR took over responsibility for purchasing
20 the Net Short.

1 **Q. Did CDWR's stepping in to purchase energy alleviate the system**
2 **emergencies and blackouts?**

3 A. Unfortunately, no. The situation continued to get much worse. Starting on
4 January 18, 2001, California was in a permanent state of emergency for 31
5 consecutive days: the ISO declared a Stage Three Emergency every single
6 hour starting at 1:45 p.m. January 18 until midnight February 16, 2001.
7 There were further blackouts on January 21, 2001. Exh. No. CAL-245 at 3-
8 4.

9 It made no sense that California was suffering from blackouts in
10 January – when electric loads were relatively light and there had always
11 been sufficient supplies in the past to meet summer peak demand. Peak
12 demand on the three days of blackouts in January 2001 was more than
13 15,000 MW lower than the ISO's highest system peak demand (in 1999).
14 Compare Exh. No. CAL-245 at 3 with Exh. No. CAL-250 (ISO Peak Load
15 History).

16 Every electricity user has suffered an occasional blackout due to a
17 major storm or distribution level interruptions, but this was like having the
18 electricity reliability you would expect living in a third world country. Ted
19 Koppel broadcast that very sentiment to the entire nation on the Nightline
20 news program on January 24, 2001. Exh. No. CAL-242A, B (video and
21 transcript). It was not what you would expect in California, which in 2001

1 was the sixth largest economy in the world. The level of confusion, chaos,
2 and panic across the state during that time is hard to overstate, especially
3 because of how much it was costing.

4 **Q. How much was CDWR spending to keep the lights on?**

5 A. From January through May 31, 2001, CDWR spent \$4.89 billion for Spot
6 Market power¹¹ and on average spent \$1 billion each month from January -
7 June 2001.¹² But to be clear, that didn't mean that the system emergencies
8 ended or that the lights always stayed on.

9 I was frequently in Sacramento from January to May 2001, and I
10 will never forget the concern, sometimes bordering on panic, that spread
11 throughout the Governor's staff and legislative leaders as they witnessed
12 what had been about a \$6 billion state budget surplus evaporating before
13 their eyes. It was like throwing thousand dollar bills to burn in generators
14 and still suffering from chronic shortages and outages. And in the back of
15 everyone's mind was: what was going to happen in the heat of the summer
16 when California's electricity demand would inevitably climb higher?

¹¹ Prepared Supplemental Direct Testimony of Ronald O. Nichols on Behalf of the California Parties, Exh. No. CAL-200 at 37.

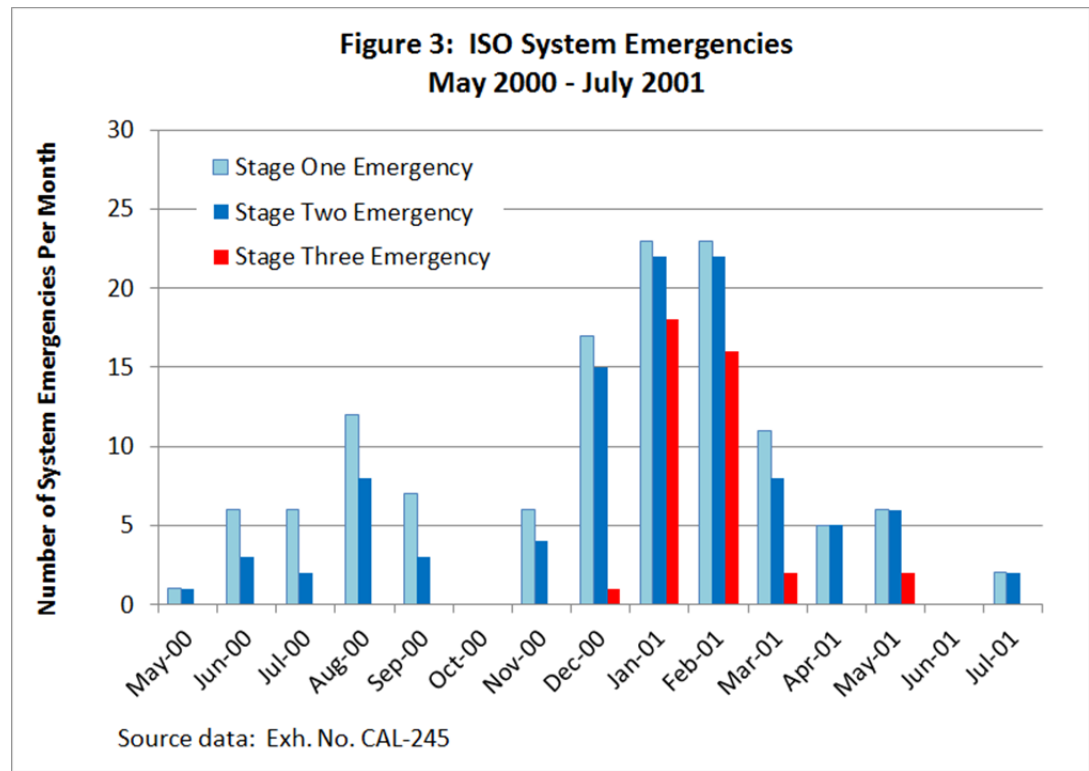
¹² Prepared Supplemental Direct Testimony of Raymond Hart on Behalf of the California Parties, Exh. No. CAL-210 at 5.

1 **III. BRACING FOR THE SUMMER OF 2001**

2 **Q. Were the State's leaders concerned about meeting California's**
3 **electricity demand in the summer of 2001?**

4 A. Yes, because the Crisis continued in full force as summer 2001 approached.

5 All signs pointed to more gloom and doom, notwithstanding all of the
6 efforts of CDWR, the CPUC, the Legislature and the Governor. Average
7 on-peak spot prices had declined slightly in the fall of 2000, but shot up
8 even higher at the very end of 2000 through the first half of 2001, as shown
9 in Figure 2 above. The ISO declared more system emergencies in each
10 month of December 2000, January 2001, February 2001, and March 2001
11 than in all of 1998 and 1999 combined, as shown in Figure 3 below, and it



1 resorted to rolling blackouts again on March 19 and 20, 2001.¹³ When
2 Stage Three Emergencies were declared and rolling blackouts returned on
3 May 7 and 8, 2001, everyone at the state and local level believed that
4 outages in the summer of 2001 were inevitable.

5 News coverage of the blackouts in March and May 2001 also
6 warned Californians that the Crisis was far from over. ABC's World News
7 Tonight reporters characterized the March 2001 blackouts as a "harbinger"
8 of the spring and summer and warned "the summer is going to be bad."
9 Exh. No. CAL-243A, B (March 19, 2001). The Los Angeles Times
10 reported that "[p]ower officials have warned that this could be a grim
11 summer in California, since demand for electricity sharply rises when
12 people turn on air conditioners." Exh. No. CAL-251 at 1 (*Second day of*
13 *blackouts disrupts 500,000 homes and businesses*, Mitchell Landsberg and
14 Eric Bailey, March 21, 2001). ABC World News Tonight's coverage of the
15 May 8, 2001 blackouts observed that "[s]ummer may be a month and a half
16 away, but a hot spring is already overloading the state's power grid, a grid
17 so fragile, in just the last two days, it has lost more than 12,000 megawatts
18 of much needed power." Exh. No. CAL-244A, B (May 8, 2001). The New
19 York Times reported that "Irvine's [CA] broad avenues had been
20 transformed into a knot of eight-lane parking lots by a rolling power

¹³ In 1998 and 1999 combined the ISO declared eleven Stage One Emergencies, six Stage Two Emergencies, and zero Stage Three Emergencies. CAL-245 at 1.

1 blackout, just the first of what experts predict will be dozens this summer
2 because of California's power shortages." Exh. No. CAL-251 at 4 (New
3 York Times, *Blackout plans of little help in California's energy crisis*,
4 James Sterngold, May 14, 2001). Other news outlets issued similar
5 warnings throughout May and June 2001. *See id.* at 7 (Los Angeles Times,
6 *Blackout forecasts' dark side*, Jenifer Warren, June 20, 2001) ("It's here.
7 Summer 2001, the blackout season, is only a day away."); Exh. No. CAL-
8 72 at 12 (Los Angeles Times, *Officials warn power outages could cause*
9 *major sewage spills*, Seema Metha, June 22, 2001) ("Regional water
10 officials are warning sewer agencies ... to prepare for rolling blackouts this
11 summer"), *id.* at 29 (Los Angeles Times, *Use of diesel generators proposed*
12 *to bolster grid*, Gary Polakovic, May 24, 2001).

13 The Governor was even developing plans to give citizens more
14 notice of future blackouts. On May 24, 2001 Governor Gray Davis issued a
15 press release announcing a plan to help neighborhoods and businesses
16 better prepare for blackouts. Exh. No. CAL-252. Likening blackouts to an
17 earthquake, the Governor proposed to require more advance warning when
18 blackouts were going to occur.

1 **Q. Did the ISO forecast that reliability problems would continue into the**
2 **summer of 2001?**

3 A. Yes. The March 21 Los Angeles Times article was prescient, because the
4 day after the story broke the ISO issued a 2001 Summer Assessment with
5 just those “grim” predictions. The ISO Assessment warned: “California is
6 facing an electricity shortage of unprecedented proportions for the summer
7 of 2001.” Exh. No. CAL-253 at 4 (ISO Summer Assessment, March 22,
8 2001). The ISO forecast that “there will be a peak demand resource
9 deficiency” ranging from a high of 3,647 MW in June to a low of 666 MW
10 in September 2001 and therefore “California will experience rotating
11 blackouts for periods this summer.” *Id.* As a member of the ISO Board of
12 Governors at the time, I can tell you that we were all very worried.

13 **Q. Were there other reports or assessments of the likelihood of further**
14 **rolling blackouts in the summer of 2001?**

15 A. Yes. Most significantly, on May 15, 2001 the well-respected North
16 American Electric Reliability Council (NERC) issued a special report
17 predicting 260 hours of rotating blackouts in the ISO during the summer,
18 estimating that “the [ISO] will most likely experience supply deficiencies in
19 the range of about 4,500 and 5,500 MW at the time of peak demand for
20 each summer month (2,000 - 4,000 MW more than the [ISO] projections,
21 depending upon the month selected).” Exh. No. CAL-254 at 3-4 (2001

1 Summer Special Assessment, NERC, May 2001). In prepared testimony
2 for the U.S. Senate Energy and Natural Resources Committee, NERC's
3 general counsel explained:

4 As a supplement to its 2001 Summer Assessment, NERC
5 conducted an in-depth independent examination of the
6 expected summer conditions in both California and the
7 Pacific Northwest based on interviews with experts from both
8 the California Independent System Operator [ISO] and the
9 Northwest Power Pool (NWPP). NERC agrees with the
10 overall conclusions of the CAISO that the [ISO] will not have
11 sufficient resources to meet expected demand this summer
12 and that involuntary curtailments of firm customer demand
13 (rotating blackouts) are expected. However, NERC expects
14 those conditions to be more severe than reported by [ISO], in
15 part because the NERC assessment is based on more current
16 information. NERC anticipates that firm demand in
17 California may be curtailed for about 260 hours over the
18 course of this summer, with the average size of the
19 curtailments about 2,150 MW, and as much as 5,000 MW
20 required to be curtailed at peak periods.

21 Exh. No. CAL-255 at 3 (NERC testimony for Senate Energy and Natural
22 Resource Committee, May 15, 2001). *See also* Exh. No. CAL-256 at 3
23 (NERC 2001 Summer Assessment, May 2001) (“NERC estimates that
24 deficiencies will be more severe than the [ISO’s] expected conditions in its
25 CAISO 2001 Summer Assessment, published on March 22, 2001”).

26 **Q. Did the ISO or IOUs have any other tools to reduce demand to avoid**
27 **system emergencies and blackouts?**

28 **A.** Yes, but under the extreme conditions the system was exhausting the usual
29 cushion it had in times of short supply: the IOU’s ability to interrupt

1 service, during a Stage Two Emergency, for customers who had elected
2 non-firm service. These “interruptible customers” were industrial and large
3 commercial customers that agreed to have their service interrupted 80 to
4 150 hours per year in exchange for discounted electricity rates (by about 15
5 percent). Customers that did not turn off their power when requested were
6 subject to significant penalties.

7 Up until 2000, interruptible customers had their service interrupted
8 only very infrequently. But starting in the summer of 2000 and through the
9 winter of 2000 – 2001 the IOUs had to call on these businesses repeatedly.
10 By January 2001 the ISO and the IOUs could no longer count on
11 interruptible customers as a way to reduce demand when sellers offered
12 insufficient supply – a fact that the ISO and NERC both recognized. A
13 trade press report on an ISO briefing to the ISO board of governors on May
14 21, 2001 observed that “[t]he ISO also appeared to be worried that utility
15 load curtailment programs will offer little relief over the summer” because
16 users participating in interruptible programs “have already reached or are
17 close to their maximum number of curtailments.” Exh. No. CAL-72 at 1-2
18 (Electric Utility Week, *ISO predicts tough summer in Calif., as hot, dry*
19 *weather reigns in region*, May 21, 2001). The NERC Special Summer
20 Assessment stated that “[the interruptible demand program in northern
21 California was exhausted early this year as the [ISO] operators were forced

1 to call upon interruptible customers to counteract the high unavailability of
2 generating resources during the 2000/2001 winter.” Exh. No. CAL-254 at
3 5. In the general 2001 Summer Assessment NERC concluded “[d]ue to the
4 reduction of available interruptible loads this summer compared to last
5 summer, there is a greater likelihood that more firm load curtailments will
6 be required this summer compared to last summer.” Exh. No. CAL-256 at
7 31.

8 Without government intervention the electric power system in
9 California would have completely collapsed. But even with the State
10 financing the inflated wholesale power costs, as the summer 2001
11 approached, further blackouts seemed inevitable.

12 **Q. How did system emergencies and blackouts affect the citizens and**
13 **businesses of California?**

14 A. The toll on Californians’ health and welfare due to the ongoing system
15 emergencies and blackouts was immediate and immense. Let me be clear,
16 the blackouts did not just mean that workers left the office early or that
17 tourists avoided San Francisco (which they did). National and local news
18 reports vividly illustrated the serious human and economic toll of the
19 shocking failure of the bulk electric system in California. For example, on
20 January 24, 2001, ABC’s evening news program Nightline aired footage of
21 traffic accidents at intersections when stoplights went dark, small children

1 being trapped in dark elevators, and major businesses raising the specter of
2 relocating out of state. Exh. No. CAL-242A, B (video and transcript).

3 On May 8, 2001, the second of two consecutive days of blackouts,
4 the Los Angeles Times reported on disabled people who feared the life-
5 threatening impacts of losing electricity to power their life-saving
6 machines, including a disabled woman who said, “I spend my days
7 worrying.... I worry over when the next blackout will come. ... Let me tell
8 you, this is no way to live.” Exh. No. CAL-72 at 7 (Los Angeles Times,
9 *Blackouts mean more than inconvenience for disabled*, John M. Glionna,
10 May 8, 2001). Doctors voiced concerns for the elderly, who are especially
11 vulnerable to heat and whose health is at risk when air conditioning fails.
12 Dr. J. Michael Leary, an emergency physician in Rancho Mirage, described
13 the risks in particular for seniors on fixed incomes living in mobile homes,
14 some of which are “poorly insulated boxes that turn into ovens under the
15 brutal summer sun. Take away the air conditioning and the humans inside
16 start baking, quick.” Exh. No. CAL-251 at 8 (Los Angeles Times, June 20,
17 2001). Dr. Leary concluded his concerns by predicting that for the coming
18 summer, “I think we’ll see a great toll in human suffering, even mortality.”
19 *Id.* at 9.

20 The local press in Newport Beach, California, also reported how the
21 blackouts caused lost work and sales for local businesses and left a health

1 clinic unable to serve patients. *Id.* at 13-14 (The Daily Pilot, *Blackouts*
2 *darken parts of Newport Beach*, Paul Clinton and Deepa Bharath, May 8,
3 2001). California’s agricultural industry feared that blackouts could lead to
4 the destruction of perishable food products as the summer harvest
5 approached. As one tomato processor explained, canning operations could
6 become contaminated if the plant’s temperature controls failed, and
7 “unexpected power losses could mean economic ruin in a matter of days,”
8 not only for them, but also for the tomato farmers who were waiting to sell
9 their harvests to the plant. *Id.* at 9 (Los Angeles Times, June 20, 2001).

10 I reference these news reports because they bring to light how
11 everyday citizens and businesses were enduring the Crisis months after the
12 Governor’s Emergency Proclamation, when CDWR was the only thing that
13 stood between electrical reliability and chaos. Dr. Peter Berck also presents
14 a detailed examination of the costs to California’s consumers and the
15 economy from the blackouts in his direct testimony.¹⁴

16 **Q. How did the public react to the ongoing crisis conditions?**

17 A. The unreliability of electricity service and the impossibly high cost of
18 electricity dominated the attention, activities, and financial concerns of
19 California citizens, businesses, and every level of government.

¹⁴ Prepared Direct Testimony of Dr. Peter Berck on Behalf of the California Parties,
Exh. No. CAL-666.

1 For example, on May 24, 2001 the Public Policy Institute of
2 California (PPIC) issued results of a special statewide survey on growth,
3 which confirmed what I already suspected: that California's electricity
4 problems had become the most important issue to California citizens and
5 their government. According to the report, which included a special section
6 dedicated to California's Electricity Problems, "Californians have
7 electricity very much on their minds. Forty-three percent named electricity
8 price, supply, and demand as the most important state issue. In the three-
9 year history of the PPIC Statewide Survey, no other issue has been named
10 the top problem by so many Californians." Exh. No. CAL-257 at 21 (PPIC
11 Statewide Survey: Special Survey on Growth May 2001). Electricity had
12 surpassed schools and education, which for the prior two years "had been
13 the top issue on residents' list of concerns." *Id.* The survey also explained
14 that the public concern was rising:

15 Will electricity problems today hurt the state's economy in the
16 next few years? Eighty-six percent think it will. Sixty two
17 percent believe the effect on the economy will be severe and
18 24 percent believe it will be modest. Again, public concern is
19 increasing over time: In January, 56 percent said electricity
20 problems would hurt the economy "a great deal."

21 *Id.* at 22. In this atmosphere, there was an enormous strain on government
22 agencies like CDWR and the CPUC, whose decisions to manage the Crisis
23 would seriously affect the state over the next decade or more.

1 **Q. Did CDWR need to execute long-term contracts with power sellers in**
2 **2001?**

3 A. Yes. Two overwhelming problems dominated California at the time: how
4 to continue to pay the soaring costs for wholesale power in the Spot
5 Markets in 2001, and predictions of continuing outages in the summer of
6 2001. No one knew how long the Crisis would last – all signs pointed to
7 continued system emergencies and blackouts – or how California could
8 continue to pay for it. My colleague at TURN, Nettie Hoge, put it well
9 when she said, “[t]hey are giving us the choice of darkness or higher rates. .
10 . . In fact, we're going to get both.” Exh. No. CAL-251 at 17 (SF Gate,
11 *Blackouts alone could cost billions*, Sam Zuckerman, April 21, 2001).
12 When evaluating whether to sign long-term contracts in May through July,
13 CDWR’s ability to provide stability to the supply of power was a major
14 factor that had to be considered. Signing long-term contracts effectively
15 mortgaged California’s future for decades, but we had to do it to reduce
16 exposure to the Spot Markets.

1 **IV. RECOVERING CDWR'S COSTS INCURRED DUE TO THE CRISIS**

2 **Q. Are you personally familiar with how CDWR paid for the CDWR**
3 **Long-Term Contracts and how the costs were in turn collected from**
4 **California consumers?**

5 A. Yes. I participated in the process to deal with the huge bill from the Crisis
6 at several levels. For example, I participated legislatively in the creation of
7 SB 7X, which on January 19, 2001 directed CDWR to begin buying
8 electricity to sell to retail customers and appropriated \$400 million from the
9 State's General Fund for this purpose, and AB 1X, the February 1, 2001
10 statute that both granted CDWR the authority to enter into long-term
11 contracts and prescribed how the cost of that power would be repaid to
12 CDWR.¹⁵ My employer, TURN, was a party to virtually all of the CPUC
13 proceedings related to how ratepayers would pay for the power provided by
14 CDWR. I participated in the 2001 proceedings to increase rates by one
15 cent, then an additional three cents per kilowatt-hour (kWh), and to design
16 rates to pay for the cost of procuring wholesale power.

17 **Q. Are California ratepayers required to pay CDWR for its costs incurred**
18 **under the CDWR Long-Term Contracts?**

19 A. Yes. All of the money that CDWR has paid related to the Long-Term
20 Contracts is the direct responsibility of California ratepayers. AB 1X
21 requires the IOUs' retail customers to pay CDWR for the power they
22 receive from CDWR: "[u]pon the delivery of power to them, the retail end

¹⁵ SB 7X is contained in Exh. No. CAL-14 and AB 1X is contained in Exh. No. CAL-15.

1 use customers shall be deemed to have purchased that power from the
2 department. Payment for any sale shall be a direct obligation of the retail
3 end use customer to the department.”¹⁶
4

5 **Q. How have ratepayers paid for the costs of energy purchases during the**
6 **Crisis, including costs incurred under the CDWR Long-Term**
7 **Contracts?**

8 A. Californians have paid CDWR for its costs incurred during the Crisis and
9 under the Long-Term Contracts through a mix of revenue streams,
10 including:

- 11 • the initial rate increases in 2001, which paid for part of CDWR’s costs
12 to procure wholesale power in 2001 and 2002 from both Spot Market
13 purchases and under the Long-Term Contracts;
- 14 • the CDWR Bond Charge, which spreads out over 20 years, from 2003-
15 2022, recovery from ratepayers of the remainder of wholesale power
16 procurement costs CDWR incurred in 2001 - 2002 that were not fully
17 collected from IOU consumers in 2001 - 2002 through the initial rate
18 increases; and
- 19 • the CDWR Power Charge, which from 2003 through 2015 has provided
20 the mechanism by which CDWR recovers its ongoing annual revenue

¹⁶ Cal. Water Code § 80100 – 80122.

1 requirement related to power procurement under the Long-Term
2 Contracts.

3 Under these mechanisms, every penny of overcharges has already
4 been collected, or will be fully paid by the individual ratepayers of
5 California by the time Bond Charge ends in 2022. And every payment by
6 consumers toward the overcharges is money that is not spent on other
7 goods or services, or saved. For an individual consumer, it might be a
8 gallon of milk forgone; for the overall economy it was and is the loss of
9 jobs and slower economic growth. Dr. Berck further describes these kinds
10 of impacts in his direct testimony.¹⁷

11 **Q. Please describe the initial rate increases in 2001 that were used to pay**
12 **for CDWR's power costs.**

13 A. First, on January 4, 2001, the CPUC approved a one-cent per kWh increase
14 to PG&E's and SCE's customers' electric bills, applied on a usage basis, in
15 response to emergency requests for rate increases by PG&E and SCE in
16 November 2000.¹⁸ The surcharge resulted in an increase of approximately
17 9 percent for residential customers, 7 percent for small business customers,
18 12 percent for medium commercial customers, and 15 percent for large

¹⁷ Prepared Direct Testimony of Dr. Peter Berck on Behalf of the California Parties, Exh. No. CAL-666.

¹⁸ *CPUC Interim Opinion Regarding Emergency Requests for Rate Increases (2001) D.01-01-018*. This is the same rate increase I describe in Section II above.

1 commercial and industrial customers.¹⁹ While intended to be a temporary
2 surcharge only, the CPUC concluded that it had to take action because
3 “[t]here are no easy choices before us. Since mid-June [2000], we have
4 seen prices in the wholesale electricity market skyrocket to staggering
5 levels as a result of the severe dysfunction of the California wholesale
6 electricity market.”²⁰

7 Just weeks later the IOUs became insolvent, Governor Davis
8 proclaimed a state of emergency, and CDWR had to begin purchasing the
9 Net Short. But the rate increase remained in place and was soon used to
10 help fund CDWR’s power purchases, both in the Spot Markets and when
11 deliveries began under the CDWR Long-Term Contracts.

12 **Q. Was the one-cent per kWh rate increase enough to cover CDWR’s**
13 **ongoing power procurement costs in 2001?**

14 A. No. Less than three months after it approved the one-cent rate hike for
15 PG&E and SCE customers, on March 27, 2001, the CPUC approved an
16 additional three-cent per kWh surcharge for power procurement. This was
17 in addition to the “interim” one-cent surcharge approved on January 4,
18 2001, an increase which the decision also made permanent.²¹

19 Discussing its decision to levy the new three-cent surcharge, the

¹⁹ *Id.* at 2.

²⁰ *Id.* at 7.

²¹ *CPUC Interim Opinion Regarding Proposed Rate Increases* (2001) D.01-03-082.

1 CPUC stated that an increase in retail electric rates was necessary because
2 uncontrolled price increases in the wholesale markets since November and
3 December 2000 had created enormous outstanding liabilities for PG&E and
4 SCE: “SCE’s and PG&E’s continued financial viability and ability to serve
5 their customers has been seriously compromised by the dramatic escalation
6 in wholesale prices.”²² The CPUC concluded, “whether or not the power
7 sellers’ actions are lawful, and whether or not we approve of those actions,
8 without a rate increase it will become increasingly difficult to keep the
9 lights on in California.”²³

10 **Q. How did the three-cent per kWh increase impact customers’ rates?**

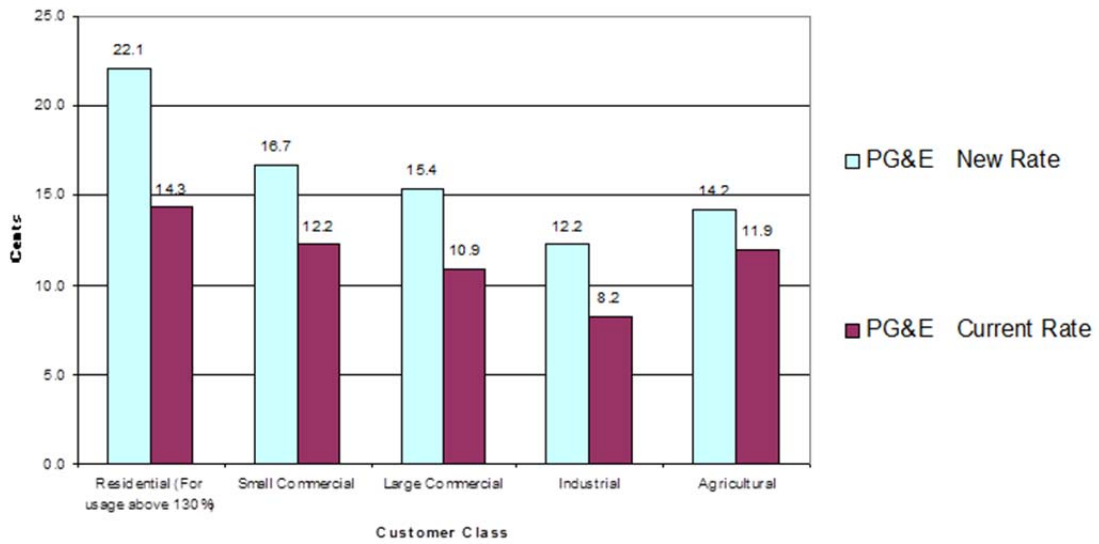
11 A. The IOUs began recovering the three-cent surcharge from customers on
12 June 1, 2001, after the CPUC approved a rate design to allocate the three-
13 cent per kWh rate increase among PG&E and SCE’s customers.²⁴ Rather
14 than apply the three-cent per kWh surcharge equally on a usage basis, the
15 CPUC adopted varying rates for different customer classes and instituted a
16 tiered rate structure within the residential class. The decision included the
17 following graphs comparing the average increase by customer class to the
18 then-current rates, as follows:

²² *Id.* at 4.

²³ *Id.* at 14.

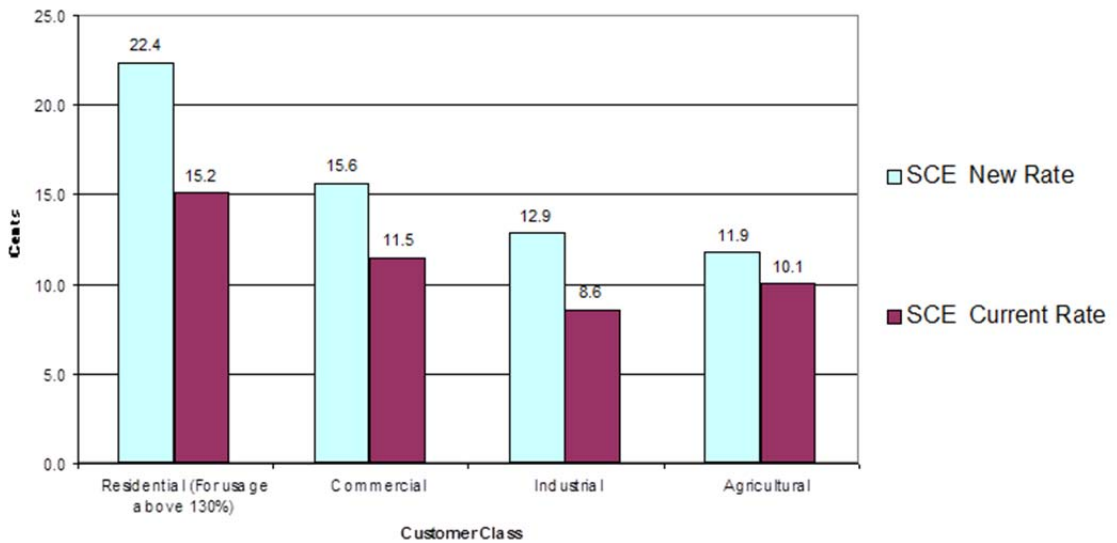
²⁴ *CPUC Interim Opinion Regarding Rate Design* (2001) D.01-05-064.

Current Rates and New Rates -- PG&E



1

Current Rates and New Rates -- EDISON



2

Source: *Interim Opinion Regarding Rate Design* (2001) D.01-05-064 at 6-7
(for rates effective June 1, 2001).

3

4

5

But even as it approved the rate increases, the CPUC noted that the increase in average rates did not reflect the full costs of the Crisis, and that

1 “the real cost of electricity provided by [CDWR] will be financed through
2 the issuance of long-term bonds that will be repaid over time by
3 ratepayers.”²⁵ The CPUC explained that “[i]f the rates were set at the
4 actual cost of energy consumed, the increases allocated among customers
5 today would be substantially higher.”²⁶ This reasoning reflected the lesson
6 I learned from the situation in the summer of 2000 in San Diego, that a
7 direct pass through of all actual costs would too be destructive to
8 individuals, businesses, and the California economy as a whole.

9 **Q. Did the CPUC also approve rate hikes in 2001 for SDG&E’s**
10 **customers?**

11 **A.** Yes, although the increase occurred later than for PG&E and SCE’s
12 customers. In September 2001 the CPUC approved system-average retail
13 rate increase for SDG&E of 1.46 cents per kWh, or 12.1 percent, to
14 implement a 9.02 cents per kWh CDWR charge for SDG&E’s customers.²⁷
15 The CPUC also adopted a tiered residential rate structure generally similar
16 to the structure adopted for PG&E and SCE.

²⁵ *Id.* at 8.

²⁶ *Id.*

²⁷ *CPUC Interim Opinion Adopting Rate Increases to Implement the Department of Water Resources’ Revenue Requirement* (2001) D.01-09-059.

1 **Q. How were these rate increases used to pay for CDWR’s power**
2 **purchases?**

3 A. First, in January 2001 the Legislature directed the CPUC through SB 7X to
4 implement emergency regulations governing (1) the utilities’ collection of
5 customer payments for power sold to the customers by CDWR, and (2) the
6 remittance of the moneys so collected to CDWR.²⁸ The CPUC
7 implemented SB 7X and ordered SCE and PG&E to collect sums owed by
8 retail end-use customers in trust for the benefit of CDWR, and to make
9 monthly payments to CDWR.²⁹ It also established principles that provided
10 an enduring framework governing the financial responsibility of ratepayers
11 for electricity purchased on their behalf by CDWR, including terms for
12 calculating the ratepayer obligations to CDWR. For example, it established
13 a “DWR Price” that DWR was to recover for power, equaling the amount
14 DWR pays for electric power, plus any associated administrative costs,
15 transmission and scheduling costs, and other related costs, minus
16 overpayments recovered from sellers (including payments received to settle
17 claims of overcharges in the Spot Markets and under the CDWR Long-
18 Term Contracts).

²⁸ Exh. No. CAL-14.

²⁹ *CPUC Interim Order Adopting and Implementing Emergency Regulations for Delivery and Payment Mechanisms Relating to the Sale of Electric Power Purchased by the Department of Water Resources* (2001) D.01-01-061.

1 Then on March 27, 2001, the same day it approved a three-cent
2 increase for PG&E and SCE customers, the CPUC issued a decision
3 implementing methods to ensure that CDWR would be paid for the power it
4 was purchasing and delivering to retail customers and allocating cost
5 recovery for CDWR's purchase among the customers of the three IOUs.³⁰
6 The CPUC set a generation-related rate component for retail sales and
7 ordered each utility to segregate and hold in trust for CDWR an amount
8 equal to the number of kilowatt-hours that CDWR provided, multiplied by
9 the company-wide average generation-related rate.³¹ Accounting for both
10 the one-cent and three-cents per kWh surcharges, the generation rates
11 became:

- 12 • 9.471 cents per kWh for PG&E,
- 13 • 10.277 cents per kWh for SCE,
- 14 • 6.5 cents per kWh for SDG&E capped customers, and
- 15 • 12.539 cents per kWh for SDG&E uncapped customers.³²

³⁰ *CPUC Interim Opinion Implementing Legislation Allowing the State to Provide Electricity that its Utilities are Unable to Provide* (2001) D.01-03-081.

³¹ D.01-0-081 at 14-17. The company-wide average generation rates approved in this decision reflected only the one-cent surcharge from January 2001, however, and not the additional three-cent surcharge approved by the companion case, D.01-03-082.

³² D.01-03-082 at Ordering Paragraph No. 1 and D.01-03-081 at Ordering Paragraph No. 1.

1 **Q. So far you have been describing the initial rate increases in 2001 used**
2 **to pay for the Crisis, is that correct?**

3 A. Yes.

4 **Q. How has CDWR recovered procurement costs incurred during the**
5 **Crisis and ongoing Long-Term Contract costs since 2001?**

6 A. In February 2002 the CPUC approved a rate agreement between CDWR
7 and the CPUC that established two streams of revenues for CDWR.³³

8 Under this framework ratepayers would (1) pay back the balance due on the
9 astronomical costs that CDWR had racked up in the Spot Markets and
10 under CDWR Long-Term contracts in 2001 and 2002 through Bond
11 Charges to be assessed starting in 2003 and continuing until 2022, and (2)
12 shoulder the ongoing burden of the Long-Term Contracts costs through the
13 Power Charges – a separate charge established annually for CDWR-
14 supplied electric power. Both streams of revenue were necessary for
15 CDWR to issue bonds with investment-grade ratings.

16 **Q. Please describe the CDWR Bond Charges.**

17 A. The Direct Testimony of John Pacheco describes the Bond Charges in
18 greater detail,³⁴ but the main point I want to make here is that the Bond
19 Charges repay CDWR for part of its power procurement costs incurred

³³ *CPUC Opinion Adopting a Rate Agreement between the Commission and the California Department of Water Resources (2002) D.02-02-051.*

³⁴ Prepared Direct Testimony of John Pacheco on Behalf of the California Parties, Exh. No. CAL-214 at 10-14.

1 under Long-Term Contracts (including the Shell and Iberdrola Contracts)
2 from 2001 through December 2002 and in the dysfunctional Spot Markets.
3 The Bond Charges are applied equally on all kWh of customers' usage
4 from 2003 through 2022, when ratepayers will finally repay CDWR for its
5 expenditures incurred on California's behalf in 2001-2002.

6 **Q. Please describe the CDWR Power Charges.**

7 A. The Power Charge is applied separately to CDWR's power deliveries under
8 the Long-Term Contracts to all customers. It is designed to pay for the
9 ongoing current costs of power deliveries and other costs associated with
10 the Long-Term Contracts.³⁵

11 The CPUC determined that ratepayers would incur a separate charge
12 for CDWR electric power in its decision approving a final revenue
13 requirement for CDWR from January 17, 2001 (when CDWR first began to
14 procure power) to December 31, 2002.³⁶ The CPUC allocated
15 responsibility for CDWR's revenue requirement among the customers of
16 PG&E, SCE and SDG&E; established a fixed retail rate per kWh for each
17 IOU's ratepayers for CDWR power; and ordered each utility to begin
18 disbursement of proceeds to CDWR at these rates, as required by their
19 respective servicing agreements or CPUC order. The charges adopted for

³⁵ D.02-02-051 at Finding of Fact No. 28 ("The proposed Rate Agreement describes Power Charges as charges imposed by the Commission on Retail End Use Customers for Power deemed sold by DWR.").

³⁶ D.02-02-052 at Ordering Paragraphs Nos. 1-5.

1 CDWR power were:

- 2 • 9.211 cents per kWh for PG&E,
- 3 • 9.706 cents per kWh for SCE, and
- 4 • 7.742 cents per kWh for SDG&E.³⁷

5 These CDWR charges effectively superseded the CPUC's earlier interim
6 orders providing for the IOUs to remit payment to CDWR. Although this
7 Decision did not change retail rates,³⁸ the fixed per-kWh rates established
8 for CDWR-supplied power were effectively the first form of the Power
9 Charge, and were to remain in effect for each utility from March 15, 2002
10 through December 31, 2002, by which time the CPUC expected to have
11 approved a new revenue requirement and Power Charge for 2003.³⁹

12 In determining how to collect revenues from IOU ratepayers for
13 remittance to CDWR, the CPUC noted that although it generally sets the
14 overall electric rate that IOU customers see on their bills, in this case
15 parties agreed that breaking out a charge to reflect a separate amount per
16 kWh sold by CDWR would make the rate structure more efficient.⁴⁰

17 CDWR explained that the charges set for recovery of its revenue

³⁷ D.02-02-052 at Ordering Paragraph No. 3 (as modified by *CPUC Order Modifying D.02-02-052 and D.02-03-003 and Denying Rehearing of these Decisions, as Modified*, (2002) D.02-03-062).

³⁸ D.02-02-052 at 5, 101 ("In today's decision, we make no changes in the existing overall rate levels being charged to end-use customers of the three utilities.")

³⁹ *Id.* at Ordering Paragraph No. 4.

⁴⁰ *Id.* at 89.

1 requirement should be “independent of rates payable by retail end use
2 customers for power purchased by such customers from the utilities,” and
3 that the revenues resulting from CDWR’s rates should be measured as a
4 function of the amount of power sold by CDWR, not as a function of the
5 amount of power sold by each respective utility. The CPUC agreed that “it
6 is reasonable to implement [CDWR] cost recovery as an amount per-kWh
7 that is attributable to sales by [CDWR]” because the approach “facilitates
8 the independent calculation of charges that will be segregated and remitted
9 directly to [CDWR].”⁴¹ The companion CPUC decision approving the rate
10 agreement also found sufficient statutory authority for the section of the
11 rate agreement “which states that the Commission shall establish Power
12 Charges and Bond Charges without regard to the rates or charges for
13 electric power sold by Electrical Corporations.”⁴²

14 **Q. Since 2002, has CDWR continued to collect its revenue requirement to**
15 **service the bond debt and administer the CDWR Long-Term**
16 **Contracts through the Power and Bond Charges?**

17 A. Yes. The amount of the Power and Bond Charges varies each year as
18 needed to meet CDWR’s total revenue requirement for its portfolio of
19 Long-Term Contracts and to service the bond debt, but the CPUC’s 2002
20 decision adopting a separate charge for CDWR electric power established

⁴¹ *Id.* at 90.

⁴² D.02-02-051 Conclusion of Law No. 17.

1 an enduring model that has remained in place ever since.⁴³ The CPUC
2 issues an annual CDWR revenue requirement allocation decision that sets
3 the Power Charges and Bond Charges for the following year for each IOU
4 and thereby closes a rate setting proceeding that starts when CDWR
5 submits its annual revenue requirement to the CPUC.

6 **Q. How is the Power Charge calculated?**

7 A. In simplified terms, CPUC calculates the Power Charge for each IOU by
8 (1) allocating a portion of CDWR's total revenue requirement for the next
9 year to each IOU, (2) making adjustments (to account for balancing and
10 other adjustments), and (3) dividing that dollar amount by expected CDWR
11 energy deliveries to that utility's customers for the year. Exh. No. CAL-
12 258 is a copy of the CPUC's Order Allocating the 2007 Revenue
13 Requirement Determination of CDWR and illustrates this process.⁴⁴ The
14 approved Power Charge rates are still subject to possible adjustments by the
15 IOUs, which would be reflected in Advice Letters filed with the CPUC
16 each year by the utilities. The Advice Letters reflect the actual Power
17 Charge charged to customers, if different from the amount specified in the
18 annual revenue requirement allocation decision.

⁴³ D.02-02-052.

⁴⁴ *CPUC Order Allocating the 2007 Revenue Requirement Determination of the California Department of Water Resources* (2006) D.06-12-035.

1 **Q. What are the Bond Charges and Power Charges consumers have paid**
 2 **to CDWR from 2002 to the present?**

3 A. Table 1 shows the CPUC-approved Bond Charges from 2002-2014 and
 4 Table 2 shows the Power Charges from 2003-2014. Supporting detail is
 5 provided in Exh. No. CAL-259, including citations to relevant CPUC
 6 Decisions and utility Advice Letters. In some years the CPUC approved
 7 multiple Power Charges or Bond Charges throughout the year, reflecting
 8 either modifications to the CDWR revenue requirement or to the allocation
 9 among IOUs for that year.

| Year | PG&E (cents / kWh) | SCE (cents / kWh) | SDG&E (cents / kWh) |
|-------------|-----------------------------------|------------------------------|------------------------------------|
| 2002 | 0.52500 | 0.52500 | 0.52500 |
| 2002 | 0.70100 | 0.70100 | 0.70100 |
| 2002 | 0.51300 | 0.51300 | 0.51300 |
| 2003 | 0.44400 | 0.44400 | 0.44400 |
| 2004 | 0.49300 | 0.49300 | 0.49300 |
| 2005 | 0.45900 | 0.45900 | 0.45900 |
| 2006 | 0.48500 | 0.48500 | 0.48500 |
| 2007 | 0.46900 | 0.46900 | 0.46900 |
| 2008 | 0.47700 | 0.47700 | 0.47700 |
| 2009 | 0.49118 | 0.49100 | 0.49100 |
| 2010 | 0.51500 | 0.51500 | 0.51500 |
| 2011 | 0.50500 | 0.50500 | 0.50500 |
| 2012 | 0.51300 | 0.51300 | 0.51300 |
| 2013 | 0.49300 | 0.49300 | 0.49300 |
| 2014 | 0.51300 | 0.51300 | 0.51300 |

Table 2: CDWR Power Charges, 2003 - 2014

| Year | PG&E (cents / kWh) | SCE (cents / kWh) | SDG&E (cents / kWh) |
|------|-----------------------|----------------------|------------------------|
| 2003 | 10.469 | 10.413 | 10.301 |
| 2003 | 10.524 | 10.467 | 10.354 |
| 2003 | 9.353 | 9.475 | 9.432 |
| 2003 | 8.481 | 10.287 | 10.114 |
| 2004 | 7.910 | 9.531 | 8.814 |
| 2005 | 7.358 | 8.087 | 7.816 |
| 2005 | 5.214 | 7.981 | 7.621 |
| 2006 | 8.345 | 10.509 | 8.142 |
| 2007 | 8.750 | 9.490 | 5.823 |
| 2008 | 6.932 | 8.875 | 10.199 |
| 2008 | 7.123 | 8.614 | 9.395 |
| 2009 | 8.640 | 8.451 | 10.416 |
| 2009 | 12.754 | 6.697 | 11.004 |
| 2010 | 23.139 | 3.763 | 6.112 |
| 2011 | 8.045 | 3.952 | 4.989 |
| 2012 | 8.475 | (0.590) | 4.083 |
| 2013 | 24.341 | (0.097) | 12.327 |
| 2014 | 25.802 | (0.037) | (0.152) |

* Negative Power Charge rates reflect the issuance of refunds to customers and are due to the impact of reductions to CDWR's operating accounts, including priority contract accounts, or settlement payments for overcharges under the long-term contracts.

1

2

Q. Do ratepayers see the Power Charge and Bond Charge on their utility

3

bills?

4

A. Yes. Exh. No. CAL-260 shows an SCE customer bill from April 2007.

5

Exh. No. CAL- 261 shows an SDG&E customer bill from October 2006.

6

These sample historic bills illustrate how month after month, year after

7

year, Californians have kept paying the costs of the CDWR Long-Term

8

Contracts.

1 The Bond Charges are generally shown as a separate line item on
2 bills for each utility. For example, the October 2006 SDG&E bill shows
3 that the customer paid \$5.37 for the CDWR Bond Charge (0.485 cents per
4 kWh on total usage of 1,109 kWh). Exh. No. CAL-261. The March, 2007
5 SCE bill shows that the customer paid \$1.91 (0.469 cent per kWh on total
6 usage of 408 kWh). Exh. No. CAL-260.

7 The utilities have not been required to show the total amount
8 charged for CDWR power as a separate line item on customers' bills.⁴⁵ In
9 general, however, SCE has shown the CDWR generation cost as a separate
10 line item from the SCE generation cost, while SDG&E and PG&E show the
11 rate paid for the portion of power provided by CDWR (*i.e.*, the Power
12 Charge). For example, the April 2007 SCE bill shows the customer paid
13 \$9.59 for CDWR power (9.490 cents per kWh assessed 101 kWh usage),
14 and \$5.82 for SCE-delivered power (tiered rates assessed on the remainder
15 307 kWh usage). Exh. No. CAL-260. The SDG&E customer bill does not
16 break out CDWR energy separately from energy provided by SDG&E, but
17 does provide the following notice at the very bottom of the bill:

**Your electric energy charges include charges for that portion of your energy usage provided by
the Department of Water Resources (DWR). SDG&E collects charges for power provided by
DWR as an agent of DWR. DWR is collecting 8.142 cents for each kWh it provides.**

18
19 Exh. No. CAL-261.

⁴⁵ D.02-02-052 at 90, n.43.

1 **V. THE CONSUMER IMPACTS OF THE 2001 RATE INCREASES**

2 **Q. How did ratepayers respond when the CPUC approved the one-cent**
3 **increase in 2001 in response to the rise in wholesale power costs?**

4 A. During my many years at TURN and also now as a Commissioner of the
5 CPUC, I cannot overstate how electric rate increases affect everyday
6 people. For people living close to the margin, as so many are, they
7 desperately try to keep their electric usage down, and a rate increase can be
8 the straw that breaks the camel's back. The burden and outrage ratepayers
9 felt from the one- and three-cent rate hikes can best be understood by their
10 own words, in letters and emails the CPUC received, which are kept in the
11 CPUC's correspondence files for the proceedings (A.00-10-028, A.00-11-
12 038, and A.00-11-056).

13 Among the many similar complaints and pleas that the CPUC
14 received from California ratepayers in late 2001 and early 2002 was the
15 following email from a senior living on a fixed income:

16 Dear Sirs:

17
18 I have written before about the possibility of extreme
19 hardship for seniors in all electric houses. It has now come to
20 pass. This last bill was the first of the cold season and I find
21 my bill has increased \$100 over last year's bill.

22
23 As I claimed before, those of us with all electric homes (no
24 other way to heat, cook, wash and dry cloths, [sic] etc) are
25 being put in a very unfair position. We are in our homes
26 almost 24 hours per day as we no longer work or eat most of
27 our meals out....

1
2 My bill this month (including seasonal discount) is still
3 \$248.36. [T]his is 2/3 of my social security check. Heaven
4 knows what people who have no other income besides social
5 security are doing. We are not poor enough to get relief
6 through your CARE program, nor rich enough to absorb the
7 raise in utilities (all utilities have gone up).
8

9 I would like to add that not only do we have solar hot water,
10 but we completely insulated our walls and ceilings [sic] last
11 summer. We use fluorescent bulbs and turn the heat on only
12 when we cannot take the cold any longer. All this to no avail.
13

14 Is there any relief planned for in the future, or must we sell
15 our present home which we have been in for 30 years and
16 look for one powered by gas? By the way, we have only
17 1500 sq ft of living space (two bedrooms). This is not a
18 mansion.

19 Exh. No. CAL-262 at 1 (Consumer Complaints to CPUC, January 25, 2002

20 9:54 a.m. email).⁴⁶

21 An SCE customer also complained about the rate increases, writing,

22 I live in a modest sized two bedroom mobile home... I'm
23 greatly concerned with the recent sharp increase in electric
24 prices forced on consumers. My electric use is modest; I turn
25 off appliances and lights when not in use, and my air
26 conditioner is set on 80°....
27

28 I have lived in a three bedroom air conditioned houses in the
29 Midwest, and I've never received a monthly electric bill for
30 \$350. I feel that your prices are far too high, and beyond the
31 ability for most consumers to pay. I cannot afford a \$350
32 electric bill every month. There's no way to reduce my
33 electric usage unless I stop cooking altogether on my electric
34 stove, never turn on the lights, and never turn on the TV or
35 the computer....
36

⁴⁶ Customers' personal information (name, address, email, phone numbers) have been redacted from the correspondence shown in Exh. No. CAL-262.

1 I hope that the PUC will take a closer look at these insane
2 high prices and produce electricity that is affordable to the
3 average consumer.

4 *Id.* at 2 (October 10, 2001 letter).

5 **Q. What other concerns did ratepayers express in their communications**
6 **to the CPUC regarding the impact of the rate increases?**

7 A. The CPUC received hundreds upon hundreds of letters and emails around
8 the dates when the CPUC approved the three-cent rate increases and the
9 rate design decisions, which appear in the correspondence files. In many of
10 these complaints ratepayers said their existing bills were already too high to
11 shoulder even before the rate increases, despite already reducing their
12 electric consumption as much as possible. Many people wrote with fears
13 that rate increases would leave them unable to afford basic necessities,
14 including senior citizens who expressed concerns that they would not be
15 able to live on fixed incomes and pay all of their bills. One expressed his
16 situation in this very stark way:

17 I am a senior living on \$700 a month, and I seldom turn on
18 my furnace, although I live in Eureka in northern California
19 and it is cold. My apartment never gets warmer than 68
20 degrees because I can't afford the current bill. With a 46%
21 increase, I'll have to quit eating.

22 Exh. No. CAL-263 at 1 (Consumer Complaints to CPUC, March 27, 2001
23 5:18 p.m. email).⁴⁷

⁴⁷ Customers' personal information (name, address, email, phone numbers) have been redacted from the correspondence shown in Exh. No. CAL-263.

1 Even seniors living in San Diego wrote in, saying:

2 Although we know that your agenda today does not apply to
3 SDGE; we are still very concerned. The rate increases we
4 have experienced in San Diego are rapidly dipping into our
5 small savings account. We are struggling to set aside the
6 “adjusted amounts” so that we will be able to make that
7 balloon payment when it comes due. Another rate increase
8 will make that impossible.

9
10 We are seniors who live on a fixed income with no way to
11 supplement that income.... We are terrified at a time in our
12 lives when we should be able to grow old gracefully and
13 without fear that we will be unable to heat our home in the
14 winter and cool it in the summer. FYI, during this past
15 winter, we woke up in the morning to 53 degrees in the
16 house. During the past summer, outside temps rose to 100.

17
18 Please do something to give us relief.

19 *Id.* at 2 (March 27, 2001 8:05 a.m. email).

20 Another family described the lengths to which they had gone to
21 reduce their electricity consumption and still their current bill, without the
22 increase, was a burden:

23 When it was so cold over the last two months we were afraid
24 to turn on the heat, so we lived in a house that hovered around
25 58 degrees. We ate late dinners, 8 PM, and did laundry after
26 8PM and before 8 AM, and we still had a bill of \$249 in one
27 month. That may not seem like much, but when you have a
28 car payment and a house payment, and property tax, and food
29 and bridge tolls, and a special needs kid that has to get to a
30 special school and be picked up that's 27 miles away, a \$249
31 utility bill is a heck of a lot! And a 40 percent rate hike is
32 nothing of the sort. It's a multiple of that. Gas stations,
33 grocery stores, any one that serves the community will up the
34 cost, and that cost in total will be considerably larger than a
35 40% rate increase in our pocket books.

36 *Id.* at 3 (March 26, 2001 11:10 p.m. email).

1 A stay at home mother of two described frustration at how the
2 increases would affect her family, which had done everything possible to
3 conserve electricity to the point that:

4 I do not know how else we could cut back. We do not use
5 any lights until 7:00 at night. I do the laundry once a week, I
6 use the shortest wash cycle and I hang dry all but the white
7 clothes. We only use the dishwasher twice a week and we
8 use fans to circulate the air when the temperature is below
9 mid-nineties. Our only luxuries are the tv and the
10 computer....

11
12 The money you take from us with these increases takes away
13 money from my family to live on. As usual we make too
14 much to qualify for assistance (38,000 yr. for four) but not
15 enough to pay for all these increases. You are robbing the
16 public.

17 *Id.* at 4 (May 3, 2001 12:28 p.m. email).

18 Another customer illustrated that the existing rates were too high by
19 reciting her past bill amounts and then concluding,

20 We used to keep our mobile home at 68-70 now we keep it at
21 62, I visit my neighbors in this senior mobile home park and
22 they are sitting around in their jackets.

23 *Id.* at 5 (March 27, 2001 4:31 p.m. email).

24 Another common theme conveyed people's fears that they would be
25 forced to leave their homes. One single mother of three wrote:

26 I just recently moved into a home with my children, a dream
27 come true.... I am concerned that with the rising utility rates I
28 will not be able to provide my children with this home and
29 the basic necessities of life, food, shelter, heat and light....
30

1 I work part-time, and attend school full-time to provide a
2 better future for myself and my children. The future was just
3 starting to look bright for us. Please don't make it dark again.

4 *Id.* at 6 (March 27, 2001 6:18 a.m. email). Another customer put it more
5 even starkly, writing that a "rate increase from our [SCE] bill every month
6 would put in jeopardy whether or not we are able to keep our home. It just
7 doesn't seem right that the harder we work for the [A]merican dream the
8 harder it is to fulfill it." *Id.* at 7 (May 5, 2001 8:43 p.m. email).

9 Even people who were not struggling to make ends meet day-to-day
10 wrote of concerns that the increases would harm the middle class, despite
11 significant efforts to conserve:

12 The comments about encouraging residents to conserve is
13 insulting. Everyone I know has gone without heat, lights and
14 many comforts because our bills were already so high. You
15 have raised the rates to a point many of us are truly concerned
16 about being able to pay for power....

17
18 You are forcing some users to be subject to disconnection of
19 service because there is no way they will be able to afford
20 power. Low income programs do exist but what about the
21 middle income working families that will clearly suffer do
22 [sic] to these rate increases.

23 *Id.* at 8 (March 28, 2001 12:33 p.m. email).

24 Another angry ratepayer commented on the additional burden of
25 caring for a family member caused by the increase, saying "I have a family
26 member who requires air filtration and medical nebulization to maintain
27 some resemblance of a normal life. I have no choice but to pay it. This rate

1 hike will eat up my salary raise for the year.” *Id.* at 9 (March 7, 2001 12:41
2 a.m. email).

3 Other citizens wrote of concerns that rising costs, including power,
4 would drive them out of California altogether, including one customer who
5 was already looking for new employment elsewhere:

6 I am the head of a household with a single source of income.
7 My wife stays home to care for our 3 children. ... We have
8 been conserving energy for years, shutting off lights, burning
9 wood in the fire place, just so we could afford to maintain our
10 standard of living. It’s getting to the point where the
11 increases in expenses are too much to bear and keep up with.
12 I am looking for new employment out of California and have
13 recommended to the compoany [sic] to re-locate the office to
14 Houston. I’ve had enough of this mess and just want out.

15 *Id.* at 10 (March 27 12:30 p.m. email).

16 Customer P.R. also raised the specter of leaving his home:

17 We recognize whole heartedly the state’s dilemma, but if
18 rates continue to rise as they’ve done in recent past months
19 combined with the power outages floating from community to
20 community, the prospect of leaving my home state, my
21 community in which I am recognized and respected, an
22 environment in which I would otherwise love to start and
23 raise a family, warrants more and more thought.

24 *Id.* at 11 (March 26, 2001 8:04 a.m. email).

25 **Q. What do these stories tell you?**

26 A. These rate hikes needed to pay for just a portion of the inflated wholesale
27 electricity prices were already breaking the backs of California ratepayers.
28 California citizens had to endure significant hardships that no modern
29 economy should demand. No one should have to choose whether to

1 continue to live in their home or move to another state because of the price
2 of electricity. And these rate increases were just the tip of the iceberg
3 compared to the total burden California's citizens have endured for more
4 than a decade through Power Charges and Bond Charges: the harm to
5 consumers of the rate increases caused by the massive market manipulation
6 and the Long-Term Contracts at issue here continued well after the Crisis
7 ended.

8 **Q. Did the CPUC only receive complaints from residential customers?**

9 A. No, large energy users also complained about the impacts to them, and the
10 California economy in general, caused by the rate increases. For example,
11 the California Industrial Users group (CIU) met with CPUC Commissioner
12 Brown in September 2001 about D.01-05-064. The meeting was reported
13 in a Notice of *Ex Parte* Communication filed with the CPUC, marked as
14 Exh. No. CAL-264, which is contained in the correspondence files for
15 proceeding A.00-10-028, and which I would have received and reviewed at
16 the time. At the meeting, CIU member representatives from BOC Gases,
17 Air Liquide America Corporation, and Anheuser-Busch Companies told of
18 the monetary impacts of the CPUC's decision on their companies. *Id.* at 3-
19 4.

20 The CIU also provided a package of written materials, including a
21 presentation that described the significant percentage increases in rates on

1 large industrial users in 2001 over 2000 rates, *id.* at 6-13, and a news article
2 reporting on businesses that had folded in light of their power bills, *id.* at
3 14-16. The article told of Shasta Paper Company, which laid off 400
4 workers on August 20, 2001: “One of the leading employers in Northern
5 California’s timber country, the colossal paper mill folded after its monthly
6 Pacific Gas and Electric Co. bill jumped to about \$1.3 million, a \$500,000
7 increase.... Energy ‘was the final piece,’ said plant manager Mal
8 Bellafronto. ‘We just couldn’t do it.’” *Id.* at 13 (Sacramento Bee, *Power*
9 *prices a drain on jobs: As manufacturers retrench, observers wonder if it’s*
10 *a trend*, Dale Kasler, September 6, 2001).

11 The *ex parte* meeting package also included two “Energy Casualty
12 Reports” from August 1 and August 16, 2001, which compiled numerous
13 stories from companies that had already closed facilities, laid off workers,
14 cancelled production, stopped plans to expand, or were considering such
15 measures. These “casualty reports” are filled with grim story after grim
16 story from companies all over California that were suffering from the
17 impacts of the rate increases. *Id.* at 16-30.

18 Further, even in the midst of the ongoing Crisis in March and April
19 2001 stories flowed in about the agricultural industry worrying about the
20 strain of absorbing the electricity price increases and the difficulty of
21 remaining competitive. A United States Department of Agriculture report

1 on rural cooperatives from April 2001 provided stories about these impacts,
2 with the executive of a fruit processing and marketing co-op concluding
3 that “the energy crisis has been disastrous for California agriculture.” Exh.
4 No. CAL-265 at 3. The executive observed of the difficulty passing the
5 higher electricity costs onto consumers, noting that “[h]igher costs just
6 might be enough to make a consumer turn away from fruit to eating a
7 Twinkie instead.” *Id.* at 5. For the Humboldt Creamery Association, the
8 15 percent PG&E surcharge (*i.e.*, the one-cent rate hike approved in
9 January 2001) cost the company \$15,000 a month. The head of the
10 Association also observed the difficulty of passing increased on the
11 increased costs to consumers: “Sixty percent of our sales are outside of
12 California. My competitors outside of California don't have these problems
13 or these added costs.” *Id.* at 5.

14 **VI. THE CONSUMER BURDEN IMPOSED BY THE LONG-TERM**
15 **CONTRACTS**

16 **Q. Please describe how the costs of the CDWR Long-Term Contracts have**
17 **burdened California's ratepayers.**

18 A. The total dollar impact on IOU ratepayers caused by the Long-Term
19 Contracts equals CDWR's revenue requirement each year (imposed on
20 customers through the Power Charges), plus the portion of the ongoing
21 bond debt payments attributable to Long-Term Contract costs CDWR

1 incurred in from January 2001 through December 2002 that is being
2 collected through the Bond Charges. Those amounts are enormous.

3 I understand from the testimony of John Pacheco that California
4 ratepayers paid \$37.5 billion (nominal) for the CDWR Long-Term
5 Contracts through December 2014, mostly through the Power Charges.⁴⁸
6 But California's ratepayers are also still paying down the bond debt, which
7 financed the balance of CDWR's power procurement expenses incurred
8 during 2001-2002 that could not be repaid in full with revenues collected
9 from IOU customers under the 2001 rate increases or the initial Power
10 Charges beginning in March 2002 (which I described in Section IV above).
11 Mr. Pacheco identified the portion of bond funding that is attributable to
12 CDWR's Long-Term Contract costs (including Shell and Iberdrola)
13 incurred in 2001-2002, and also separately for the Shell and Iberdrola
14 Contract costs. He also calculated the associated debt service costs for each
15 (annual and total for the life of the bonds). This information is summarized
16 in Table 3 below.

⁴⁸ Direct Testimony of John Pacheco on Behalf of the California Parties, Exh. No. CAL-214 at 16.

Table 3: CDWR Long-Term Contract Payments Funded by Bond Issuance and Associated Debt Service

| Contract(s) | Portion of bond funding attributable to contract(s)* | Annual debt servicing cost for contract(s) | Total debt servicing costs over the life of the bonds for contract(s) |
|---|--|--|---|
| All CDWR Long-Term | \$2.1 billion | \$164 million | \$3.3 billion |
| Shell | \$160 million | \$12.6 million | \$253 million |
| Iberdrola | \$66 million | \$5.2 million | \$104 million |
| * Portion of CDWR power procurement costs incurred in 2001-2002 that were not repaid by IOU consumer's remittances in 2001-2002 and thus were financed via the bonds. | | | |

Source: Direct Testimony of John Pacheco, Exh. No. CAL-214 at 9-10, 18.

1 This means that, in total, California's electricity consumers will have
2 paid an additional \$1.2 billion just for interest on the \$2.1 billion of bond
3 debt attributable to the Long-Term Contract costs CDWR incurred in 2001-
4 2002 that were not paid back fully by IOU customer remittances at the
5 time. Over \$131 million of the interest is attributable just to the Shell and
6 Iberdrola Contracts. Consumers pay \$164 million annually to service the
7 bond debt. This is an additional, ongoing burden on consumers that must
8 be considered. If the Spot Markets had not been so dysfunctional, CDWR
9 would never have needed to shoulder the huge costs of buying power for
10 Californians in 2001-2002 and the State would not have had to take such
11 extraordinary measures of issuing bonds to spread out repayment of the
12 costs over 20 years.

1 Moreover, the fact that ratepayers are still paying today for power
2 delivered under the Long-Term Contracts in 2001 – 2002, including the
3 Shell and Iberdrola Contracts, is astounding. The bonds did not finance
4 anything that provided a lasting benefit. Consumers who are paying back
5 principle plus interest today for electricity consumed way back in 2001-
6 2002 may not have even lived in California at the time. This is
7 fundamentally unfair to those consumers. But again, as I and others learned
8 from the in disaster in San Diego in the summer of 2000, it was necessary
9 to spread out the costs CDWR incurred in 2001-2002 over a longer period
10 of time, in order to avoid economic catastrophe that would have resulted
11 from a full pass-through in retail rates of the jacked-up wholesale power
12 rates during the Crisis.

13 **Q. Have customers complained to the CPUC about the CDWR Power or**
14 **Bond Charges?**

15 A. Yes. The CPUC received complaints about the CDWR charges on
16 customer bills long after the initial rate increases hit in 2001 and after the
17 Crisis ended. For example, records from the CPUC’s Consumer Affairs
18 Branch, which receives customer complaints, revealed a complaint about
19 CDWR charges in 2009. An SDG&E customer describes the following
20 “problem”:

- 21 1. Third Party Billing. [CDWR] billing is added to my power
22 bill each month, including [CDWR] Bond....

1
2 3. The bottom of my “statement” reads, in-part, “SDG&E
3 collects charges for power provided by [CDWR] as an
4 agent of [CDWR]. [CDWR] is collecting 11.004 cents for
5 each kWh it provides.” IS [CDWR] STILL PROVIDING
6 POWER? IF SO, WHY? AND WHO ARE THEY?

7 Exh. No. CAL-266 (Consumer Complaint, letter to CPUC dated March 15,
8 2009).⁴⁹ The complaint asserted that “the [CDWR] portion of these billings
9 borders on USERY [sic, usury].” *Id.* at 1.

10 **Q. Can customers escape paying for the CDWR Power and Bond Charges**
11 **by switching their service providers?**

12 A. No. Even customers who leave the IOUs to take service from direct access,
13 community choice aggregators, or municipal providers continue to pay
14 CDWR Bond Charges, and it has also generated complaints. For example,
15 in 2008 the Consumer Affairs Branch received a complaint from a
16 customer who lived in PG&E’s service territory but moved to a housing
17 development serviced by the Modesto Irrigation District (MID), a
18 municipal provider. Exh. No. CAL-267.⁵⁰ The customer complained about
19 the Bond Charges, opining that “PG&E customers at the time of the Crisis
20 paid extremely high energy bills during this time. Revenue collected by
21 PG&E on excessive bills at that time should have been used to offset the
22 [CDWR] Bond charges.” *Id.* at 1. PG&E responded and explained that

⁴⁹ The customer’s name, address, phone number, and account number have been redacted from the exhibit.

⁵⁰ The customer’s name, address, phone number, and account number have been redacted from the exhibit.

1 New Municipal Departing Load customers retained the obligation to pay
2 the Bond Charges. *Id.* at 3.

3 **Q. Do you believe costs of the CDWR Long-Term Contracts were**
4 **unreasonably high and imposed an excessive burden on California**
5 **consumers?**

6 A. Yes, and not just because of the enormous total costs of the contracts. I
7 have also reviewed the analysis of Dr. Metin Celebi, in which he compared
8 the actual payments under all CDWR Long-Term Contracts to the
9 payments that CDWR could have made for comparable energy products
10 based on forward market prices from September 2001 after the market
11 dysfunction had ended. Dr. Celebi's analysis demonstrates that consumers
12 paid an astounding \$15.93 billion (in nominal dollars) of additional costs
13 for power delivered under the Long-Term Contracts compared to what they
14 could have paid for the same deliveries at post-Crisis prices.⁵¹ With FERC
15 quarterly interest charges added through May 2015, the burden of these
16 additional costs increases to \$24.49 billion.⁵²

⁵¹ Prepared Direct Testimony of Metin Celebi on Behalf of the California Parties, Exh. No. CAL-634 at 79.

⁵² *Id.*

1 **Q. Please describe how the costs of the Shell and Iberdrola Contracts have**
2 **burdened ratepayers.**

3 A. I understand that CDWR's actual cost under the Shell Contract for its entire
4 term was \$2.85 billion (nominal) for 34 million MWh of energy, and that
5 CDWR's actual cost under the Iberdrola Contract for its entire term was
6 \$1.10 billion (nominal) for 11.53 million MWh of energy.⁵³

7 **Q. Do you believe that these costs of the Shell and Iberdrola Contracts,**
8 **taken alone, were unreasonably high and imposed an excessive burden**
9 **on California consumers?**

10 A. Yes, I do. I know from my own experience, and review of the basic terms
11 of the Shell and Iberdrola Contracts, that their price terms were very high as
12 compared to competitive prices both before and after the Crisis. Further, I
13 have also reviewed the analysis of Dr. Metin Celebi, in which he quantifies
14 payments under the Shell and Iberdrola Contracts compared to the forward
15 market prices that would have been available to CDWR for comparable
16 energy products once the market dysfunction had ended. Dr. Celebi's
17 analysis demonstrates staggering overpayments of \$1.37 billion to Shell
18 and \$601 million to Iberdrola (in nominal dollars).⁵⁴ When FERC quarterly
19 interest is applied through May 2015, the excessive burden of these
20 contracts increases to \$2.14 billion for the Shell Contract and \$875 million

⁵³ *Id.* at 10 (Shell), 14 (Iberdrola).

⁵⁴ *Id.* at 39.

1 for the Iberdrola Contract.⁵⁵ But this still does not provide a measure of the
2 total burden on consumers because Dr. Celebi's "down the line" analysis
3 calculates excessive costs for power delivered from October 1, 2001
4 onward, and thus does not capture the additional excessive payments earlier
5 in 2001 under both contracts.

6 In his analysis Dr. Celebi also illustrates the excessive rates
7 consumers paid for power delivered each year under the Shell and Iberdrola
8 Contracts, as well as the entire portfolio of CDWR Long-Term Contracts
9 (including Shell and Iberdrola). Dr. Celebi shows the actual contract rate
10 for the power delivered under these contracts compared to the rates for the
11 same deliveries at post-Crisis prices, which he presents in \$/MWh at Tables
12 2, 3, and 10 of his testimony ("actual contract rate" column versus "post-
13 Crisis forward market rate").⁵⁶ Table 4 below expresses Dr. Celebi's
14 results (the actual rates and post-crisis rates) in cents per kWh for the
15 CDWR Long-Term contracts, and also presents the difference between
16 them, which is the excess rates CDWR consumers paid for the total
17 portfolio of Long-Term Contracts. Table 5 presents this same information
18 on the actual, post-crisis, and excess rates but just for the Shell and
19 Iberdrola Contracts.

⁵⁵ *Id.* at 41.

⁵⁶ *Id.* at 37 (Shell), 38 (Iberdrola) 81 (all CDWR Long-Term Contracts).

**Table 4: Excess Consumer Rates --
Difference Between Actual CDWR Contract Prices
vs. Post-Crisis Forward Market Prices**

| Year | All CDWR Long-Term Contracts | | |
|----------------|------------------------------|--------------------------------|---------------------------|
| | actual rate (¢/kWh) | post-crisis rate (¢/kWh) | excess rate (¢/kWh) |
| 2001 (Oct-Dec) | 11.52 | 3.62 | 7.90 |
| 2002 | 8.97 | 3.94 | 5.03 |
| 2003 | 8.62 | 4.17 | 4.45 |
| 2004 | 7.90 | 4.08 | 3.82 |
| 2005 | 8.21 | 4.12 | 4.09 |
| 2006 | 7.57 | 4.20 | 3.37 |
| 2007 | 7.53 | 4.29 | 3.25 |
| 2008 | 7.80 | 4.36 | 3.43 |
| 2009 | 5.66 | 4.55 | 1.11 |
| 2010 | 6.24 | 4.60 | 1.64 |
| 2011 | 6.32 | 4.74 | 1.58 |
| 2012 | 5.06 | 4.28 | 0.78 |

1

**Table 5: Excess Consumer Rates --
Difference Between Actual CDWR Contract Prices
vs. Post-Crisis Forward Market Prices**

| Year | Shell Contract | | | Iberdrola Contract | | |
|----------------|---------------------------|--------------------------------|---------------------------|---------------------------|--------------------------------|---------------------------|
| | actual rate (¢/kWh) | post-crisis rate (¢/kWh) | excess rate (¢/kWh) | actual rate (¢/kWh) | post-crisis rate (¢/kWh) | excess rate (¢/kWh) |
| 2001 (Oct-Dec) | 18.46 | 3.06 | 15.40 | 7.00 | 2.98 | 4.02 |
| 2002 | 16.15 | 3.85 | 12.30 | 7.00 | 3.12 | 3.88 |
| 2003 | 17.73 | 3.96 | 13.76 | 7.73 | 3.89 | 3.85 |
| 2004 | 7.89 | 3.93 | 3.96 | 9.64 | 3.84 | 5.81 |
| 2005 | 7.84 | 3.93 | 3.91 | 11.79 | 3.86 | 7.92 |
| 2006 | 7.06 | 3.95 | 3.11 | 11.35 | 4.00 | 7.36 |
| 2007 | 7.07 | 4.08 | 2.99 | 9.77 | 4.01 | 5.75 |
| 2008 | 8.37 | 4.17 | 4.20 | 11.25 | 4.10 | 7.15 |
| 2009 | 5.10 | 4.26 | 0.84 | 8.42 | 4.32 | 4.09 |
| 2010 | 5.78 | 4.27 | 1.51 | 8.69 | 4.25 | 4.44 |
| 2011 | 5.53 | 4.43 | 1.10 | 57.05 | 3.97 | 53.08 |
| 2012 | 4.52 | 4.10 | 0.43 | | | |

2

1 Table 5 shows that the rates consumers paid for power delivered
2 under the Shell Contract in 2001-2003 were four to six times higher than
3 what competitive rates would have been once the market dysfunction
4 ended. The rates consumers paid for power delivered under the Iberdrola
5 Contract were two to three times higher in almost every year compared to
6 what the competitive rate would have been once the market dysfunction
7 ended (the multiple is 1.9 for 2009).

8 **Q. Did ratepayers pay for the overcharges that Dr. Celebi determined**
9 **Shell and Iberdrola collected in excess of competitive rates?**

10 A. Yes. Every penny CDWR has paid related to the Long-Term Contracts has
11 already been collected through the Power and Bond Charges over the years
12 and the rate increases in 2001, or will be fully paid by the individual
13 ratepayers of California when the Bond Charge ends in 2022. That
14 includes the overcharges paid to all sellers and specifically the overcharges
15 paid to Shell and Iberdrola that Dr. Celebi determined exceeded what the
16 rates would have been for competitively priced contracts for the same
17 products.

18 **Q. What additional burden was caused to California by the CDWR Long-**
19 **Term Contract overcharges?**

20 A. There were significant burdens imposed on the California economy beyond
21 the specific dollar amounts paid by individual ratepayers. I have reviewed

1 Dr. Peter Berck's testimony⁵⁷ in which he models the impact on California
2 personal income, employment and the economy as a result of the pass-
3 through to ratepayers of the overcharges associated with the CDWR Long-
4 Term Contracts. Based on my 30 years of work with California electricity
5 rates, and how they impact the California economy, I agree with Dr. Berck
6 that the CDWR Long-Term Contract overcharges caused an extraordinary
7 burden on the entire California economy.

8 **Q. What are your conclusions about the impact of the Shell and Iberdrola**
9 **overcharges on California consumers?**

10 A. The bottom line is the CDWR Long-Term Contracts, including the Shell
11 and Iberdrola Contracts, have placed a massive economic burden on
12 California consumers that is still being paid down today. But for those
13 contracts and the market dysfunction that made them necessary, ratepayers
14 in California would have avoided many hardships exemplified by the letters
15 from real people included in my testimony. The Commission should grant
16 a remedy in this proceeding to finally relieve California consumers from
17 the undue and excessive burden they have been saddled with for the last
18 fourteen years as a result of the challenged contracts, and order Shell and
19 Iberdrola to repay these overcharges back to California ratepayers.

⁵⁷ Prepared Direct Testimony of Dr. Peter Berck on Behalf of the California Parties, Exh. No. CAL-666.

1 **Q. Does this conclude your testimony?**

2 **A. Yes.**

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 14, 2015 in San Francisco, California.



Commissioner Michel Peter Florio