



BEFORE THE PUBLIC UTILITIES COMMISSION OF THE
STATE OF CALIFORNIA

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Order Instituting Rulemaking to Develop)
Additional Methods to Implement the California) Rulemaking 06-02-012
Renewables Portfolio Standard Program.) (Filed February 16, 2006)
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**REPLY OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) TO
RESPONSES TO JOINT MOTION OF SOUTHERN CALIFORNIA EDISON
COMPANY AND SAN DIEGO GAS & ELECTRIC COMPANY FOR STAY OF
DECISION 10-03-021**

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Dated: April 23, 2010

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Pursuant to the Assigned Commissioner’s Ruling Setting Schedule for Consideration of Joint Petition for Modification of Decision 10-03-021 and Joint Motion for Stay of Decision 10-03-021 (“Assigned Commissioner’s Ruling”), Southern California Edison Company (“SCE”) respectfully submits this reply to the responses to the Joint Motion (“Joint Motion”) of SCE and San Diego Gas & Electric Company (“SDG&E”) for Stay of Decision (“D.”) 10-03-021, titled Decision Authorizing Use of Renewable Energy Credits for Compliance with the California Renewables Portfolio Standard (the “TREC Decision”). The Joint Motion requests a stay of the TREC Decision pending resolution of the Joint Petition for Modification of D.10-03-021 (“Joint Petition”) and Joint Application for Rehearing of D.10-03-021 (“Joint Application”) filed by SCE, SDG&E, and Pacific Gas and Electric Company (“PG&E”).

I.

INTRODUCTION

Currently, there are two Petitions for Modification and four Applications for Rehearing of the TREC Decision filed by seven parties pending before the California Public Utilities

Commission (“CPUC” or “Commission”).¹ These filings demonstrate that the TREC Decision will negatively impact both California’s ambitious renewable energy and greenhouse gas reduction goals and the development of the renewable resource market throughout the West. Contrary to its stated goals, the TREC Decision restricts supply options for the investor-owned utilities’ (“IOUs”) customers, injects uncertainty into the market, and chills the development of new renewable generation. Rather than setting the groundwork for a robust market for tradable renewable energy credits (“TRECs” or “RECs”), the TREC Decision is likely to hamstring the regional renewable energy market that is needed to meet the State’s ambitious renewable energy goals.

The TREC Decision also violates the law by treating the IOUs differently than other load-serving entities (“LSEs”), usurping the California Energy Commission’s (“CEC”) jurisdiction over Renewables Portfolio Standard (“RPS”) eligibility and delivery requirements, and contravening the Commerce Clause of the United States Constitution.

The CPUC should ignore The Utility Reform Network’s (“TURN”) contentions regarding the IOUs’ renewable procurement efforts and stay the effectiveness of the TREC Decision pending resolution of the Joint Petition and/or Joint Application. SCE and SDG&E have demonstrated that a stay of the TREC Decision is needed to protect their customer’s interest. Moreover, a stay will allow the CPUC to fully consider the broad impacts of the interrelated elements of its decision on renewable procurement throughout the Western region as

¹ See Joint Petition of Southern California Edison Company, Pacific Gas and Electric Company, and San Diego Gas & Electric Company for Modification of Decision 10-03-021 (filed April 12, 2010); Joint Application of Southern California Edison Company, Pacific Gas and Electric Company, and San Diego Gas & Electric Company for Rehearing of Decision 10-03-021 (filed April 15, 2010); Petition of the Independent Energy Producers Association for Modification of Decision 10-03-021 Authorizing Use of Renewable Energy Credits for RPS Compliance (“IEP Petition for Modification”) (filed April 15, 2010); Application of the Center for Energy Efficiency and Renewable Technologies for Rehearing of Decision 10-03-021 (“CEERT Application for Rehearing”) (filed April 15, 2010); Application of NaturEner USA, LLC for Rehearing of Decision 10-03-021 (“NaturEner Application for Rehearing”) (filed April 15, 2010); Application of TransAlta Corporation for Rehearing of Decision 10-03-021 Authorizing Use of Renewable Energy Credits (filed April 15, 2010) (“TransAlta Application for Rehearing”).

well as the many significant issues raised in the parties' Petitions for Modification and Applications for Rehearing. SCE urges the CPUC to expeditiously rule on these filings.

II.

SCE HAS AGGRESSIVELY PURSUED THE STATE'S RENEWABLE ENERGY GOALS AND SUPPORTED NEW RENEWABLE GENERATION

Contrary to TURN's baseless assertions that SCE has not moved quickly enough in its renewable procurement,² SCE has aggressively pursued the State's ambitious renewable energy goals. As SCE explained in a recent public presentation of its 2010 RPS Procurement Plan to Administrative Law Judge Mattson,³ SCE delivers more renewable energy than any utility in the United States – approximately 13.6 billion kilowatt hours (“kWh”) or 17% of its portfolio in 2009.

SCE's accomplishments must be viewed in light of the fact that the landscape of California's RPS program is constantly shifting. The State's original renewable energy goal was 20% renewables by 2017.⁴ That goal was accelerated by seven years to 20% renewables by 2010⁵ – a goal the CPUC has called “one of the most ambitious renewable energy standards in the country.”⁶ The State is now moving to a goal of 33% renewables, a 65% increase in renewable energy that brings with it immense and unprecedented challenges. Other RPS program rules such as the way targets are calculated, the IOUs' ability to utilize different contracting structures, and the breadth of the market for eligible renewable energy resources have also undergone substantial changes. Despite these shifting goals and rules, SCE has sought to protect and serve its customers by pursuing renewable power consistent with the renewable energy goals in effect at the time.

² TURN Response at 1.

³ This Overview of Southern California Edison's 2010 Renewables Portfolio Standard Procurement Plan (“Overview”) is attached as Appendix A.

⁴ See Senate Bill (“SB”) 1078 (2002).

⁵ See SB 107 (2006)

⁶ Renewables Portfolio Standard Quarterly Report at 1 (Q1 2010).

More specifically, SCE has conducted seven open, competitive calls for renewable power contracts since 2002, and has secured 61 renewable contracts with a maximum future annual power generation of 31.2 billion kWh for SCE's customers – enough electricity to serve approximately 4.7 million average homes for a year.⁷ These actions demonstrate SCE's continued and focused desire to assist the State's achievement of its renewable energy goals, as well as SCE's support for renewable development to meet those goals. In addition to its aggressive renewable procurement efforts, SCE has contributed to the State's environmental goals through its national leadership on energy efficiency, over \$3 billion to upgrade transmission lines that will help deliver renewable energy, and its Solar Photovoltaic Program.⁸

By focusing solely on 2009 procurement actions, TURN wrongly concludes that SCE is foregoing long-term contracts and new renewable generation in favor of short-term contracts with existing facilities located outside California.⁹ More accurately, SCE aggressively pursues both types of opportunities in order to make progress toward achieving the ambitious state RPS goals. In fact, SCE agrees with TURN that significant new generation is required to meet the State's ambitious renewable energy goals and has taken action to develop new generation.¹⁰ In 2010, 77% of the capacity from SCE's new renewable contracts coming on-line is expected to be from new steel.¹¹ In 2011, that number is expected to increase to 100%, including 720 MW from new wind facilities located in Kern County, California.¹² Moreover, in 2009 alone, SCE executed numerous long-term contracts for new renewable generation including seven contracts for the output of one 100 MW California solar project and six 200 MW California solar projects,¹³ two contracts for the output of two 242 MW California solar projects,¹⁴ two contracts

⁷ When SCE refers to "contracts," SCE aggregates multiple contracts with the same counterparty.

⁸ Overview at 5.

⁹ TURN Response at 2-3.

¹⁰ Overview at 6.

¹¹ *Id.* at 7.

¹² *Id.*

¹³ *See* Advice 2339-E.

¹⁴ *See* Advice 2374-E.

for the output of a 250 MW California solar project and a 300 MW California solar project,¹⁵ and a contract for a 50 to 100 MW California geothermal project that includes the potential for two additional 50 to 100 MW California geothermal projects.¹⁶ SCE's renewable energy portfolio will be overwhelmingly comprised of in-state renewable generation through 2020; and in most years, SCE's renewable portfolio will be around 90% in-state generation.¹⁷

Additionally, and contrary to TURN's implication that the out-of-state bundled renewable transactions reclassified as REC-only by the TREC Decision are necessarily short-term transactions with existing generators, SCE has executed several long-term bundled contracts for the output of new renewable generation facilities that have been re-classified as REC-only and restricted by the TREC Decision, including 20-year contracts with three wind facilities with a potential capacity of 909 MW to be built in Oregon, a 20-year contract with a 90 to 130 MW wind facility to be built in Idaho, a 20-year contract with a 40 to 104 MW wind facility to be built in Oregon, and a 20-year contract with a 32 MW biomass facility to be built in New Mexico.¹⁸ These transactions clearly demonstrate SCE's commitment to new project development and may be affected by the TREC Decision.

As TURN notes, SCE has also entered into some short-term contracts with renewable facilities already in operation to assist in meeting near-term renewable energy goals. While TURN characterizes these transactions as "a short-cut to compliance,"¹⁹ it fails to note that these transactions are fully compliant with the RPS legislation and the RPS program structure developed by the CPUC as evidenced by the CPUC's approval of such contracts.²⁰ Although TURN may not like these transactions, there is nothing wrong or bad or nefarious about them. These are fully approved transactions that fully comply with the State's RPS policy and which

¹⁵ See Advice 2391-E.

¹⁶ See Advice 2393-E.

¹⁷ Overview at 8.

¹⁸ See Res. E-4253, Res. E-4262, Res. E-4293, Advice 2442-E.

¹⁹ TURN Response at 2.

²⁰ See Res. E-4244; Res. E-4264; Res. E-4300,

have been entered into and approved under the very processes set out by the CPUC. Notably, short-term contracting is necessary within California’s RPS program to account for the major challenges facing the development of new renewable generation such as permitting, siting, approval, and construction of transmission and renewable generation projects as discussed in further detail in Section III below. Short-term transactions also provide the “best-fit” within the portfolio needs of SCE’s customers. Surprisingly, TURN does not even comment on the short-term transactions used by Energy Service Providers who, under the decision, can use 100 percent RECs.

A stay of the TREC Decision will not allow the IOUs “a short-cut to compliance,” as suggested by TURN. Rather, a stay will provide the CPUC with the opportunity to fully consider how its decision will impact all aspects of renewable procurement and development throughout the West without causing serious and irreparable harm to the IOUs’ customers as IOUs continue to try to reach aggressive goals, in light of major barriers to renewables development, in a cost-effective manner that ultimately protects customers from any developer who may seek to profit from increasingly restrictive RPS program rules.

III.

THERE IS GOOD CAUSE FOR STAYING THE TREC DECISION

The two Petitions for Modification and four Applications for Rehearing of the TREC Decision aptly demonstrate the need for a stay. Other parties note the TREC Decision “is already having a chilling effect on the development of viable renewable generation projects in California and the West, at a critical time in the state’s efforts to meet RPS and greenhouse gas emissions reduction goals.”²¹ “[T]he combination of the TREC Decision’s reclassification of most out-of-state bundled renewable transactions as REC-only transactions and the imposition of the arbitrary 25% TREC cap, in reality makes the utilities’ ability to comply with the RPS program more difficult.”²² As the Joint Petition stated, the TREC Decision’s restrictions

²¹ IEP Petition for Modification at 1.

²² NaturEner Application for Rehearing at 4.

“jeopardize the State’s ability to achieve its ambitious renewable energy goals in a manner that uses the best and most cost-effective resources.”²³ Developers describe the simple market effect of the Decision as one that “unquestionably is to restrict supply options for the State’s largest IOUs. It is fundamental economics that restricting options for supply to compete to serve RPS requirements will lead to increased demand (and associated increased prices) for in-state renewable resources.”²⁴ Additionally, parties identify the legal failings of the CPUC’s decision, noting that the CPUC “erred significantly” in “acting without, or in excess of, its powers or jurisdiction and in failing to proceed in the manner required by law.”²⁵ The IOUs echo this sentiment and have noted that the TREC Decision “is contrary to law because it conflicts with statutes that require all CPUC-jurisdictional load-serving entities (LSEs) to be subject to the same terms and conditions for [RPS] purposes and because it exceeds the Commission’s jurisdiction by attempting to redefine RPS delivery and eligibility requirements established by the California Energy Commission (CEC)”²⁶ and that it violates the Commerce Clause of the United States Constitution.²⁷

The TREC Decision has clear failings that have been identified by those parties actively engaged in the buying and selling of renewables in California’s markets. That TURN does not have first-hand experience with these market forces is merely a function of its inexperience in the actual procurement or sale of a renewable resource. Therefore, the CPUC should ignore TURN’s uninformed assertions and its conclusion, which would lead to the implementation of an unlawful decision that fails to meet the CPUC’s own goals for a TREC market of increasing flexibility and procurement options, lowering costs to customers, and supporting the development of new renewable generation. Instead, the CPUC should stay the effectiveness of

²³ Joint Petition at 2.

²⁴ TransAlta Application for Rehearing at 9.

²⁵ CEERT Application for Rehearing at 14.

²⁶ Joint Application at 1.

²⁷ Joint Application at 1, 8-13; TransAlta Application for Rehearing at 10-13; NaturEner Application for Rehearing at 9-11.

the TREC Decision to temporarily preserve the previous state of the RPS program long enough for the CPUC to address the pending requests for modification and rehearing and fully consider the broad implications of the decision for the Western renewable energy market.

As explained in the Joint Motion, IOU customers will suffer serious and irreparable harm if the CPUC does not grant a stay of the TREC Decision. The TREC Decision significantly limits IOU options to utilize out-of-state renewables and TRECs as procurement options, without providing an equally suitable alternative to substitute, on a MWh-per-MWh basis, for the resources which are now limited.²⁸ These restrictions have an immediate impact on the IOUs' ability to pursue contracts with projects on their current 2009 RPS solicitation short lists, and may also affect the viability of executed contracts. The TREC Decision's limitations on out-of-state renewable resources will also put significant constraints on the IOUs' future RPS solicitation efforts and ability to help the State achieve its renewable energy goals. These constraints on the IOUs' market options are likely to result in higher costs for customers. The TREC Decision could also have negative implications on the renewable energy market throughout the West.

Other parties agree with SCE and SDG&E that the CPUC should stay the effectiveness of the TREC Decision in order to fully consider its impacts. Shell Energy North America (US), L.P. ("Shell Energy") explains that "[f]orging ahead with the policies and rules adopted in the TREC Decision would inflict irreparable harm on LSEs responsible for procuring energy, stifle renewable energy development, and undermine the Commission's efforts to meet the State's RPS procurement mandate," and therefore supported a stay of the TREC Decision.²⁹ CEERT also supports a limited stay of the TREC Decision to consider the legal and factual issues addressed in the Petitions for Modification and Applications for Rehearing.³⁰

²⁸ Specifically, the quantity of resources currently able to use the dynamic transfer capability referred to by the TREC Decision is less than what the IOUs are currently permitted to access.

²⁹ Shell Energy Response at 1-3.

³⁰ CEERT Response at 5.

Based on a static snapshot of the IOUs' renewable portfolios, TURN argues that the TREC Decision will not inhibit the IOUs' efforts to achieve the State's renewable energy goals.³¹ However, progress towards the State's goals must be examined in context and in light of acknowledged barriers. Despite the aggressive renewable procurement efforts of SCE and the other IOUs, there continue to be major barriers to bringing the new renewable development needed to meet the State's renewable energy goals on-line. Lack of transmission to interconnect new renewable projects is a serious issue. The CPUC concluded that seven major new transmission lines at a cost of \$12 billion are needed to reach 33% renewables (in addition to the four major new transmission lines at a cost of \$4 billion needed to achieve 20% renewables).³²

Permitting for renewable generation projects and land use issues are also significant risks for new renewable development. For example, shortly after signing contracts for 1,300 MW of new California solar generation with BrightSource Energy, SCE was informed that federal actions regarding one of the project sites was likely to limit access to 1,200 MW of that contract. BrightSource Source Energy is now seeking alternatives sites.³³ Issues surrounding the Federal Aviation Administration permit for the Caithness Shepherd Flat wind farm could also impact up to 909 MW from SCE's contracts with those facilities.³⁴ Moreover, concerns regarding endangered grounds squirrels could prevent the development of a 250 MW Solar Millennium California solar project under contract with SCE.³⁵

In a very short time, transmission, permitting, and land use issues can radically alter the amount of renewable energy that will be available to both the IOUs and the State. Indeed, the CPUC has stated that over half of the new, CPUC-approved RPS projects are experiencing some sort of delay, and that most of these delays are due to lack of transmission and generation

³¹ TURN Response at 5-6.

³² 33% Renewables Portfolio Standard Implementation Analysis Preliminary Results at 1 (June 2009).

³³ Overview at 9.

³⁴ See <http://www.washingtonpost.com/wp-dyn/content/article/2010/04/15/AR2010041503120.html>.

³⁵ See <http://www.bizjournals.com/sanfrancisco/stories/2010/04/12/story7.html?b=1271044800%5E3167691>.

permitting at the county, state, or federal level.³⁶ TURN's limited snapshot of the IOUs' renewable energy portfolios completely ignores how quickly things can change and the need for flexibility that is demanded in order to protect customers from the high prices that can ensue when there is extremely high demand for a limited amount of a resource—as is the case if access to renewables is limited as it is in the TREC Decision.

The IOUs need flexibility and increased procurement options to address difficulties that may arise in the development of new renewable resources. TRECs can serve as a very useful alternative to mitigate these situations. The TREC Decision, however, does not provide this flexibility. Instead, it severely restricts the IOUs' procurement options, and consequently their ability to replace the new renewable development they are relying on to meet the State's renewable energy goals if such projects cannot be developed on schedule.

Although TURN acknowledges that SDG&E has no headroom under the TREC Decision's usage limit to procure additional REC-only transactions, TURN asserts that SCE and PG&E have significant headroom to procure additional TRECs.³⁷ As discussed above, a snapshot of the IOUs' renewable portfolios at one point in time is not a useful metric for determining the impact of the TREC Decision on the IOUs' procurement options. Such projections change rapidly. Even under TURN's snapshot, SCE is at the TREC limit in 2012 and near the limit in 2013, significantly constraining its ability to procure additional out-of-state resources and TRECs.³⁸ Moreover, the TREC Decision eliminated any opportunity to use the CPUC's limited fast track approval process which effectively locks out any opportunities for 2010 transactions. Ostensibly, the long-term nature of SCE's commitment to develop substantial, new renewable project development is punished for up to the duration of the contracts by the decision's inappropriate recharacterization of these bundled transactions as REC-only.

³⁶ Renewables Portfolio Standard Quarterly Report at 7 (Q4 2009).

³⁷ TURN Response at 4.

³⁸ *Id.* at Appendix A.

Further, TURN suggests that some portion of the out-of-state bundled transactions reclassified as REC-only by the TREC Decision may qualify as bundled transactions through dynamic transfers.³⁹ Developers have noted that dynamic transfers “do not exist today in California as a realistic option, except in very specific, discrete circumstances. From the perspective of commercial transactions, the dynamic transfer option is not yet available to the broader renewable energy marketplace.”⁴⁰ There are many uncertainties surrounding the implementation and cost of dynamic transfers that still need to be resolved. Even if the California Independent System Operator does eventually allow dynamic transfers under its tariff, there is not sufficient inertia capacity to accommodate significant dynamic transfers of renewable energy without transmission upgrades. Therefore, there is no basis for assuming that any significant amount of out-of-state transactions will qualify as bundled based on dynamic transfers at this point in time.

As noted by Shell Energy, “[t]he very real and immediate negative commercial impacts of the TREC Decision dictate that the Commission should stay its effectiveness.”⁴¹ A stay will prevent the IOUs’ customers from missing near-term procurement opportunities while giving the CPUC the time to carefully consider the issues raised in the Petitions for Modification and Applications for Rehearing of the TREC Decision.

IV.

THE CPUC SHOULD EXPEDITIOUSLY RULE ON THE PETITIONS FOR MODIFICATION AND APPLICATIONS FOR REHEARING OF THE TREC DECISION

SCE agrees with the parties that noted the need for the CPUC to act quickly on the Petitions for Modifications and Applications for Rehearing of the TREC Decision.⁴² The CPUC

³⁹ *Id.* at 5.

⁴⁰ IEP Petition for Modification at 6.

⁴¹ Shell Energy Response at 2.

⁴² Alliance for Retail Energy Markets Response at 2-3; Western Power Trading Forum Response at 2.

should follow the schedule set forth in the Assigned Commissioner's Ruling and issue a decision on the Joint Petition by June 24, 2010. The other pending Petitions for Modification and Applications for Rehearing should also be resolved as expeditiously as possible.

V.

CONCLUSION

For all these reasons, the CPUC should stay the effectiveness of the TREC Decision pending resolution of the Joint Petition and/or Joint Application.

Respectfully submitted,

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/s/ William V. Walsh

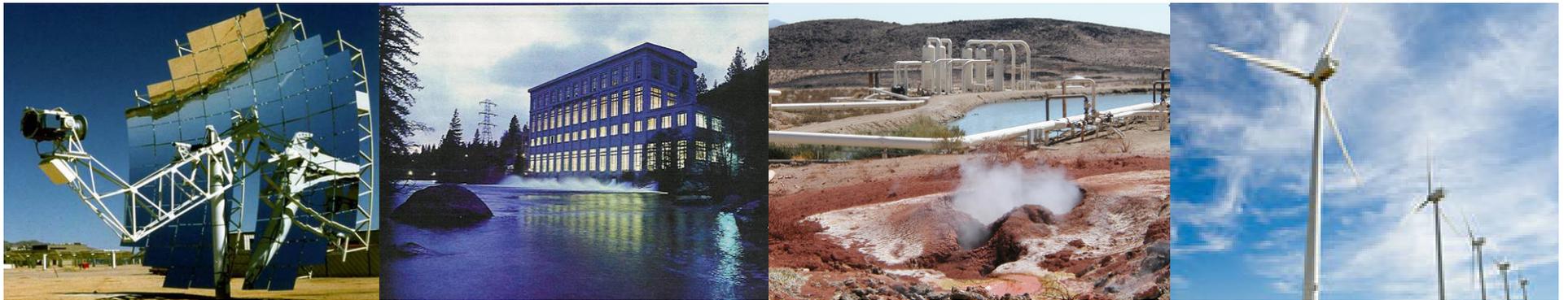
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Dated: April 23, 2010

Appendix A



OVERVIEW OF SOUTHERN CALIFORNIA EDISON'S 2010 RENEWABLES PORTFOLIO STANDARD PROCUREMENT PLAN

Presented to Administrative Law Judge Burton W. Mattson,
California Public Utilities Commission
April 13, 2010



Agenda

Overview

- Renewables Portfolio Standard (RPS) Status
- Work Plan Towards RPS Goals

Critical Issues

- Curtailment
- Pre-Approval Authority
- Renewable Energy Credits
- Renewable Standard Contracts
- Integration Costs
- Advice Letter Review Process
- Development Security
- Non-Disclosure Agreements
- Project Viability Calculator
- Request For Proposals Calendar

Additional Areas

- Impediments to RPS Goals

Summary

- Requested Regulatory Action



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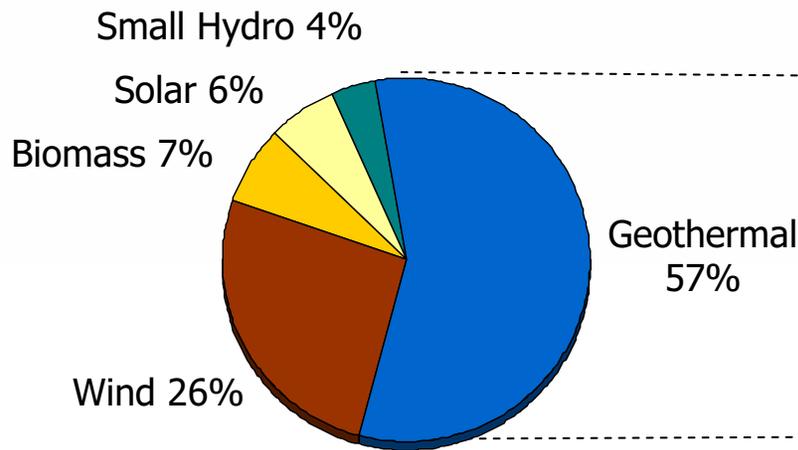
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Summary

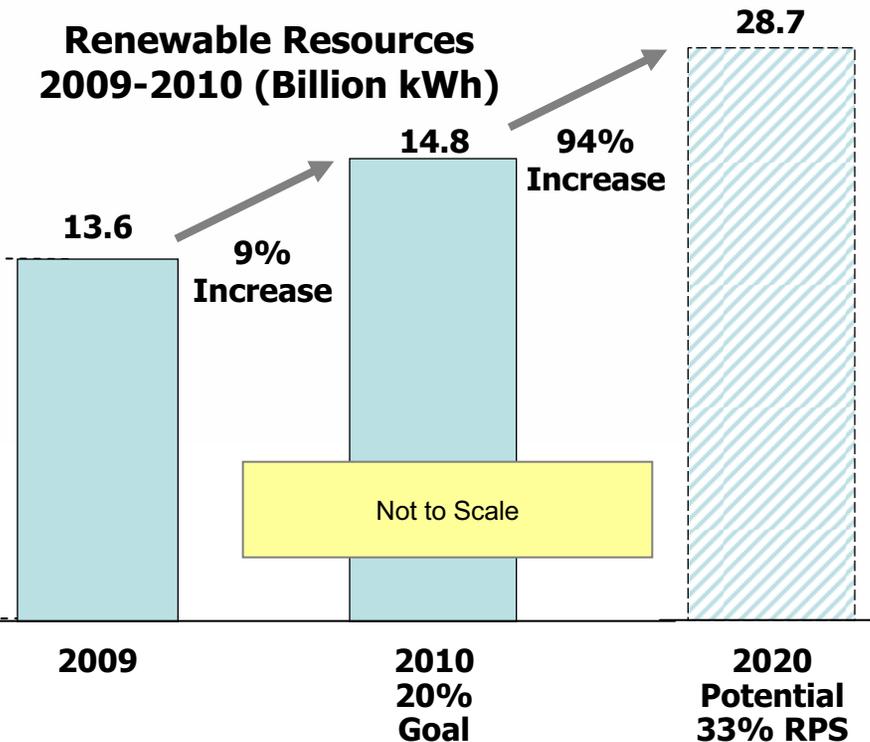
- Requested Regulatory Action

SCE* Delivers More Renewable Energy Than Any Company In The U.S.

2009 Renewable Resources
13.6 Billion kWh
 ~17% of SCE's portfolio



Renewable Resources
2009-2010 (Billion kWh)



Reasons for 2009 Increase

- Large quantities from new near-term contracts delivered (900 GWh)
- 100 GWh from new solar
- Better wind year (100 GWh)

SCE's 2010 Renewable Energy Goal

Contracts are in place to meet 20% of customers' energy requirements with renewable resources, but energy delivery is unlikely by 2010 due to transmission constraints and project development delays



Other SCE Programs Helping Meet Environmental Goals

Energy Efficiency

- SCE is a national leader in energy efficiency savings, administering over \$1 Billion for energy efficiency programs over the next 3 years.
- Over the last 5 years, SCE's energy efficiency programs have saved 6.8 billion kWh and reduced greenhouse gas emissions by 3.4 million metric tons.

Transmission

- SCE has committed over \$3 Billion to upgrade transmission lines for the Eldorado-Ivanpah, Devers-Colorado and Tehachapi Renewable Transmission Projects.

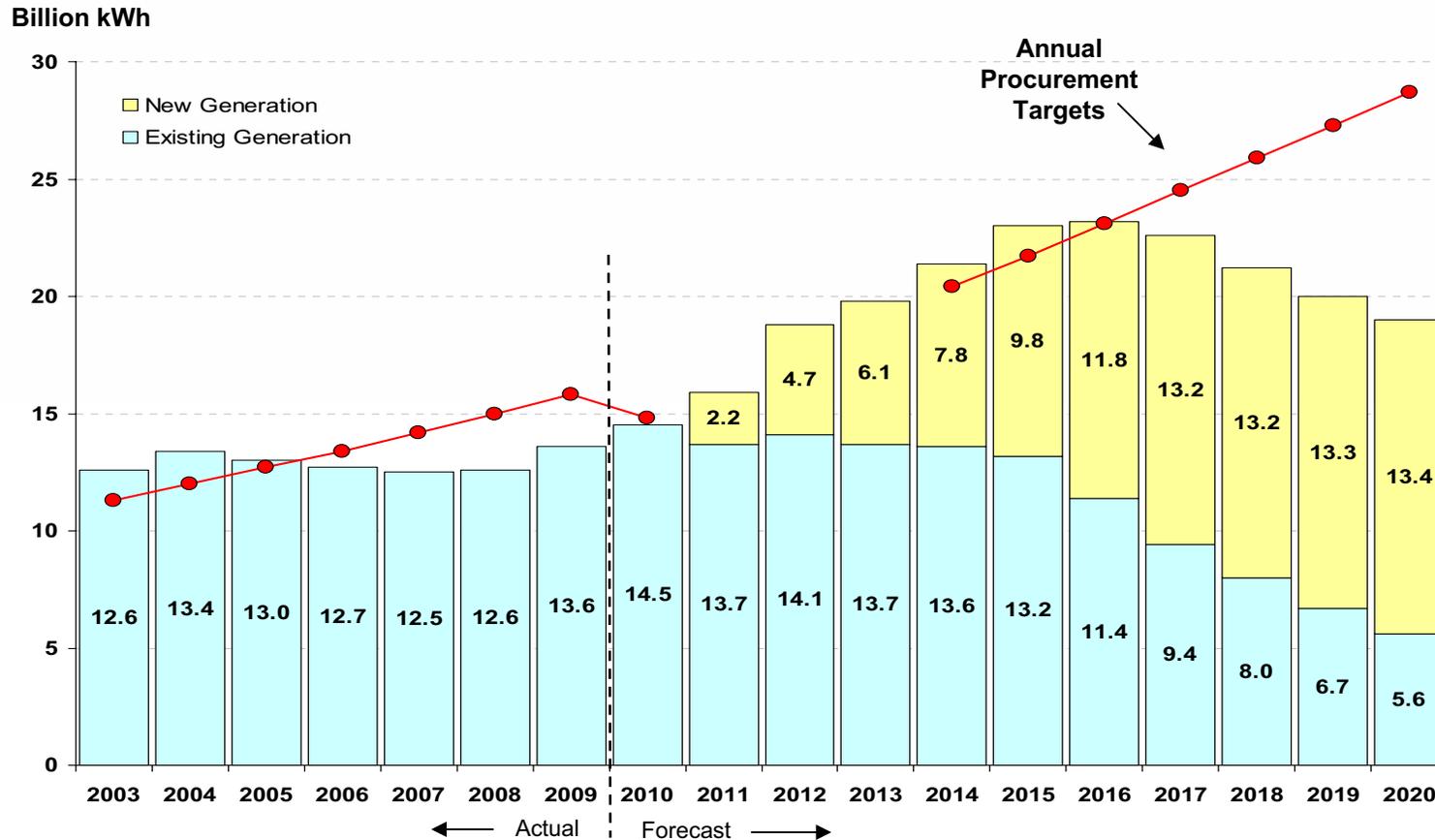
Utility Owned

- SCE is building 250 MWs of commercial rooftop solar and has some run-of-river hydro.

Procurement

- SCE procures large volumes of renewable energy using various programs (see next slide).

Increased RPS Goals Will Require Significant New Generation



Notes:

- Straight-line 33% Annual Procurement Target (APT) assumes 20% goal in 2010 and a straight-line to 33% in 2020
- APT based on September 2009 Bundled Sales Forecast; assumes SB 695 direct access growth through 2012
- Excludes Flexible Compliance, all data are based on projected meter-spin
- Includes all contracts executed through 1/29/10; assumes a weighted average success rate of approximately 70% for new projects
- Assumes deliveries from 2003-2007 of the CDWR Mountain View wind contract and 13.5% of 2007 deliveries from Colmac are eligible
- Production total for 2009 reflects actual deliveries through October



SCE Is Buying New Generation

Project Name	Location	Type	Capacity (MW)
Goshen Phase II LLC	Idaho Falls, ID	Wind	125
Coso Clean Power, LLC (Tier 1)	Mojave, CA	Geothermal	6
SCE Solar Photovoltaic Program	Various Locations	Solar PV	39
Puget Sound Energy Inc., III	Sherman County, OR	Wind	50
		Total	220

2010

Out-of State¹
85% of energy from additional projects will come from out-of-state

New Steel²
Capacity → 170MW
Percentage → 77%

- 50 MW from an existing facility

Project Name	Location	Type	Capacity (MW)
Alta Wind, LLC	Kern County, CA	Wind	720
North Hurlburt Wind, LLC	Arlington, OR	Wind	265
Echanis, LLC	Princeton, OR	Wind	104
Coso Clean Power, LLC (Tier 2)	Mojave, CA	Geothermal	45
SCE Solar Photovoltaic Program	Various Locations	Solar PV	41
Sustainable Energy Capital Partners, LLC	Twentynine Palms, CA	Solar PV	20
Sand Canyon of Tehachapi, LLC	Tehachapi, CA	Wind	20
Clear Vista Ranch, LLC	Tehachapi, CA	Wind	20
TA - High Desert, LLC	Lancaster, CA	Solar PV	20
The Aeromen, LLC	Tehachapi, CA	Wind	4
		Total	1,259

2011

Out-of State¹
25% of energy from additional projects will come from out-of-state

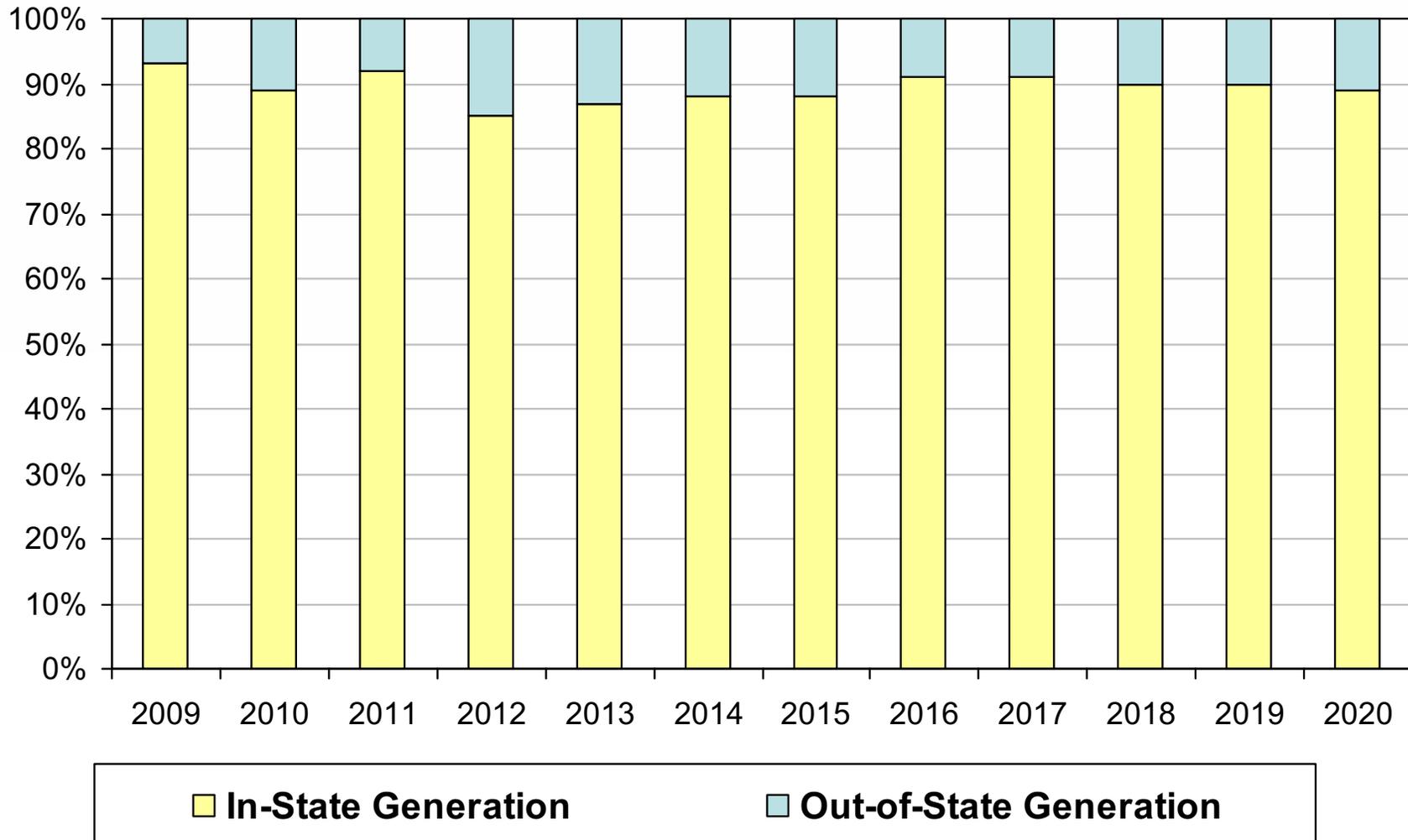
New Steel²
Capacity → 1,259MW
Percentage → 100%

Footnotes

¹ Based on full annual energy delivery capability

² Based on MW capacity

The Majority Of SCE's Renewables Procurement Is From In-State Generators



Notes

- Annual Procurement Target (APT) based on Sept. 2009 bundled sales forecast; assumes SB 695 direct access growth through 2012
- Out-of-state energy consists of forecasts from projects located outside California and not directly connected to CAISO



Reaching RPS Goals Is Driven By The Success Of Key Projects

Project	Location	Capacity (MW)	Energy (GWh)	Forecasted Online Date	Status*
Alta Windpower	Kern County, CA	1,500	4,730	2011 - 2015	-Closed \$115M initial funding of a \$140M pre-construction financing (for purchase of 100 1.5MW GE SLE wind turbines) in July 2009 -Although not constructed, wind turbines are at the Alta I site
BrightSource Energy	Broadwell Dry Lake, CA	1,300	3,724	2013 - 2016	-Have ceased development activity at Broadwell Site (seeking alternative sites) -Working to minimize adverse environmental impacts at Ivanpah site (new site plan presented to the CEC and BLM)
Caithness Shepherds Flat	Arlington, OR	800	1,983	2011 - 2012	-All land rights, interconnection and transmission rights and material permits required for the construction of all three phases are secured -Awarded \$1.4B contract to GE in December -GE will supply and maintain for 10 years, 338 2.5MW wind turbines to be installed in 2011 and 2012
Orita Geothermal	East Brawley, CA	150	1,233	2013 - 2015	-Site control obtained for 3,500 acres -Received Geothermal Conditional Use Permit for the 49.9 MW Orita I project -Ram Power intends to commence the drilling of several large diameter wells that may be utilized for commercial production/injection by the end of Q1-2010 -Project is scheduled for completion Q1-2013
Stirling Energy Systems	Barstow, CA	500	1,047	2014	-Fall 2009 partnered with Tower Automotive and Linamar Corporation to supply production and assembly of their power conversion unit and mirror facets. -January 2010, unveiled first commercial scale plant (1.5 MW project in Phoenix)



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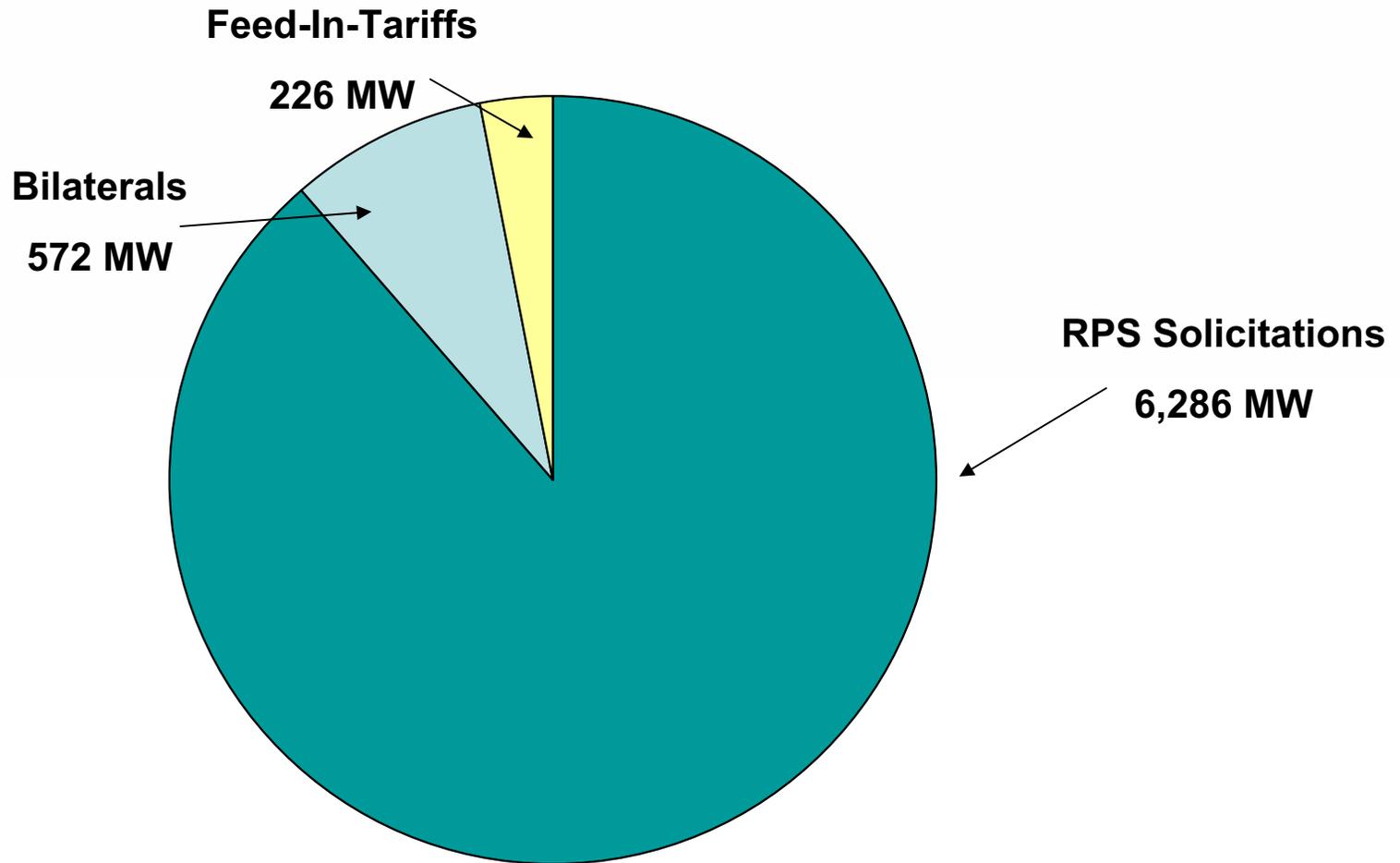
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- Impediments to RPS Goals

Summary

- Requested Regulatory Action

Renewable Portfolio Is Expanded Through A Variety Of Means And On An Ongoing Basis



*PURPA - Public Utilities Regulatory Policy Act
These contracts not addressed by SCE's 2010 RPS Procurement Plan



RPS Solicitations

- ❑ SCE conducts annual solicitations for renewable projects and is in the process of negotiating contracts from its seventh competitive solicitation
- ❑ To date, SCE has signed 61 renewable contracts with maximum renewable deliveries of 31.2 billion kWh
- ❑ SCE's 2010 RPS Plan seeks authorization of various documents related to its 2010 RPS Solicitation

RPS Proposals Are Evaluated On Two Key Dimensions

Benefit-Cost Calculation of “Renewable Premium”

Qualitative Evaluation

- Least cost/best fit includes:
- Capacity and energy benefit
 - Transmission cost
 - Debt equivalence
 - Contract price
 - Integration costs

- Project viability
- Transmission status
- Developer experience
- Delivery timeframe
- Resource diversity
- Technology viability

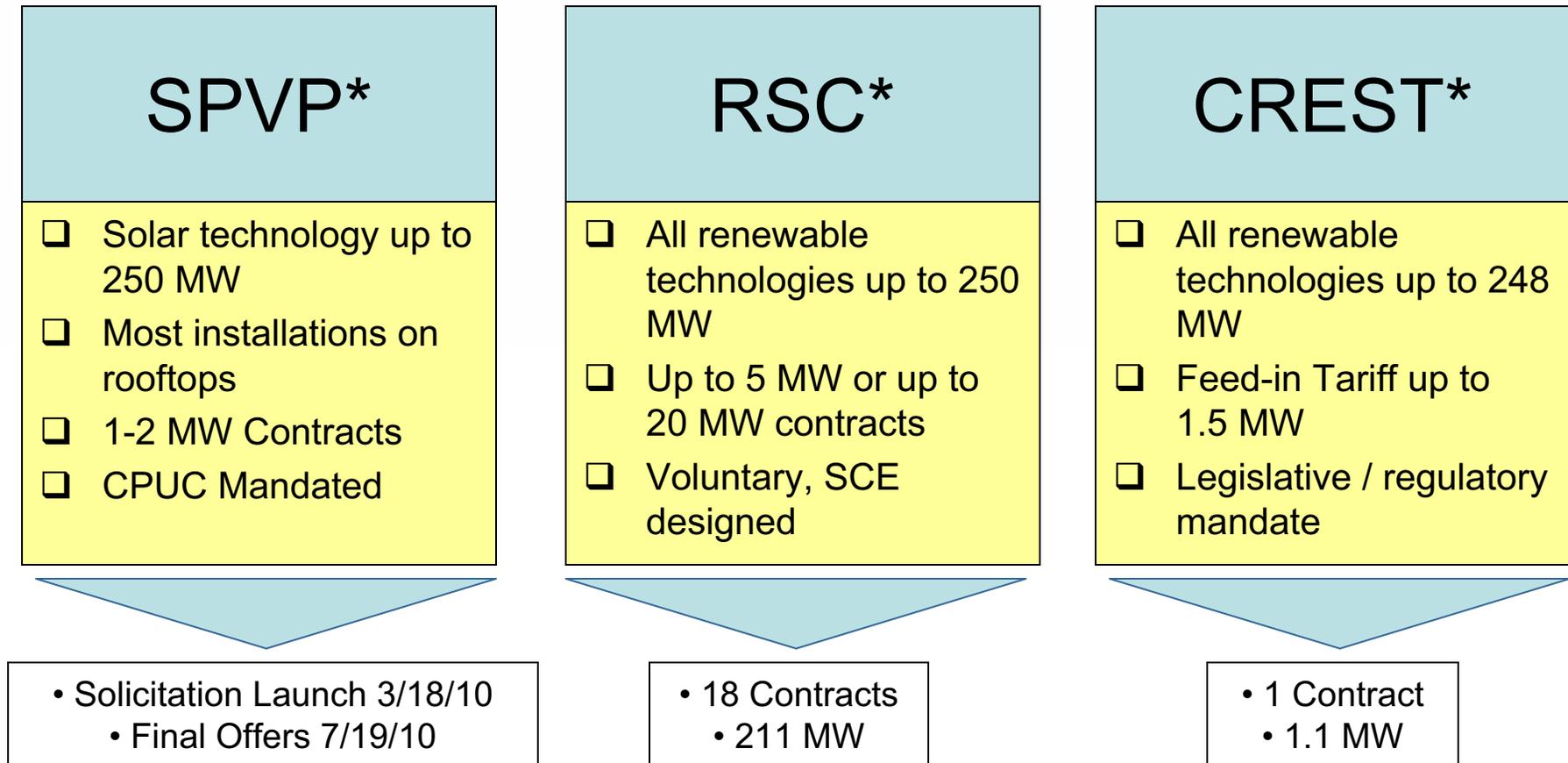


Bilateral Contracts

- ❑ SCE entertains bilateral contracting opportunities and has procured 572 MW of renewable energy capacity through bilaterals
- ❑ In 2009 and 2010, SCE submitted six contracts for approval resulting from bilateral negotiations
- ❑ Bilateral negotiations are considered on a case-by-case basis and are typically reserved for when a compelling reason exists
- ❑ Solicitations are the preferred process for renewables transactions



SCE's Various Feed-In Tariff Programs Accommodate Smaller Projects



SCE works to secure fairly-priced renewables for customers and to provide opportunities for developers.



SPVP Rooftop Program Summary

- ❑ Solar photovoltaic technology within SCE's service territory

- ❑ Up to 250 MW in contracts over 5 years
 - Projects primarily on rooftops and from 1-2 MW in capacity
 - Maximum of 10% ground mount and maximum project size of 10 MW

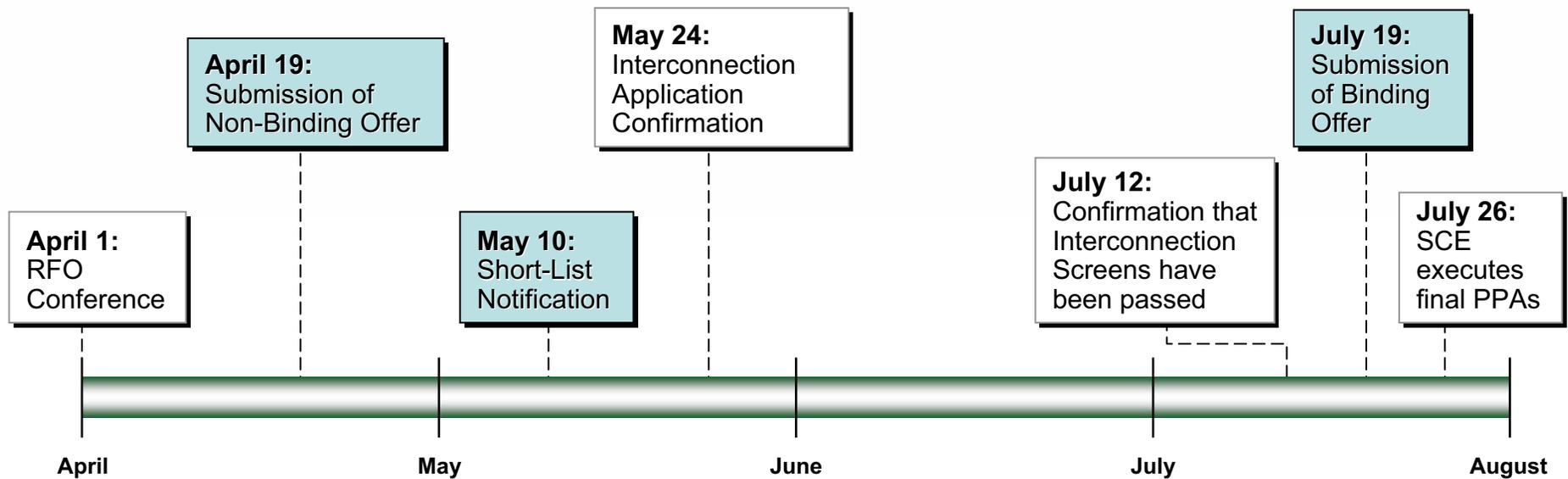
- ❑ First Request For Offer (RFO) launched March 18, 2010

- ❑ Final offers due July 19, 2010



Fontana, CA

Initial SPVP RFO Timeline



Streamlined RFO process enables faster execution of contracts

RSC Program Summary

- ❑ SCE voluntarily initiated RSC program to streamline contracting with small renewables
- ❑ All RPS eligible renewable technologies within the California Independent System Operator (CAISO) controlled grid
- ❑ 14 contracts submitted for approval in 2009 and 2010
- ❑ Two *Pro Forma* PPAs are offered
 - Facilities not greater than 5 MW – includes development security but no performance assurance
 - Facilities not greater than 20 MW – includes both development security and performance assurance





SCE CREST Program Summary

- ❑ All RPS eligible renewable technologies
- ❑ SCE program limit of 247 MW
 - Projects up to 1.5 MW in capacity
- ❑ 10, 15, or 20-year terms at the applicable Market Price Referent (MPR)
- ❑ Senate Bill 32 expanded project capacity to 3 MW effective January 2010

Snapshot 3/12/10:

Stage	Current (MW)	Cumulative (MW)
Inquiry	3.9	47.2
Application	42.2	43.3
Negotiation	0.0	1.1
Contract	1.1	1.1

SCE's Annual RPS Solicitation Is Key To Achievement Of RPS Goals

**RPS
Solicitations
6,286 MW**

**Bilaterals
572 MW**

**Feed-In Tariffs
226 MW**

While many options exist for renewables developers, the magnitude of RPS goals drives SCE to procure large volumes through its annual RPS Solicitation.



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- Request For Proposals Calendar

Additional Areas

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Summary

- Requested Regulatory Action



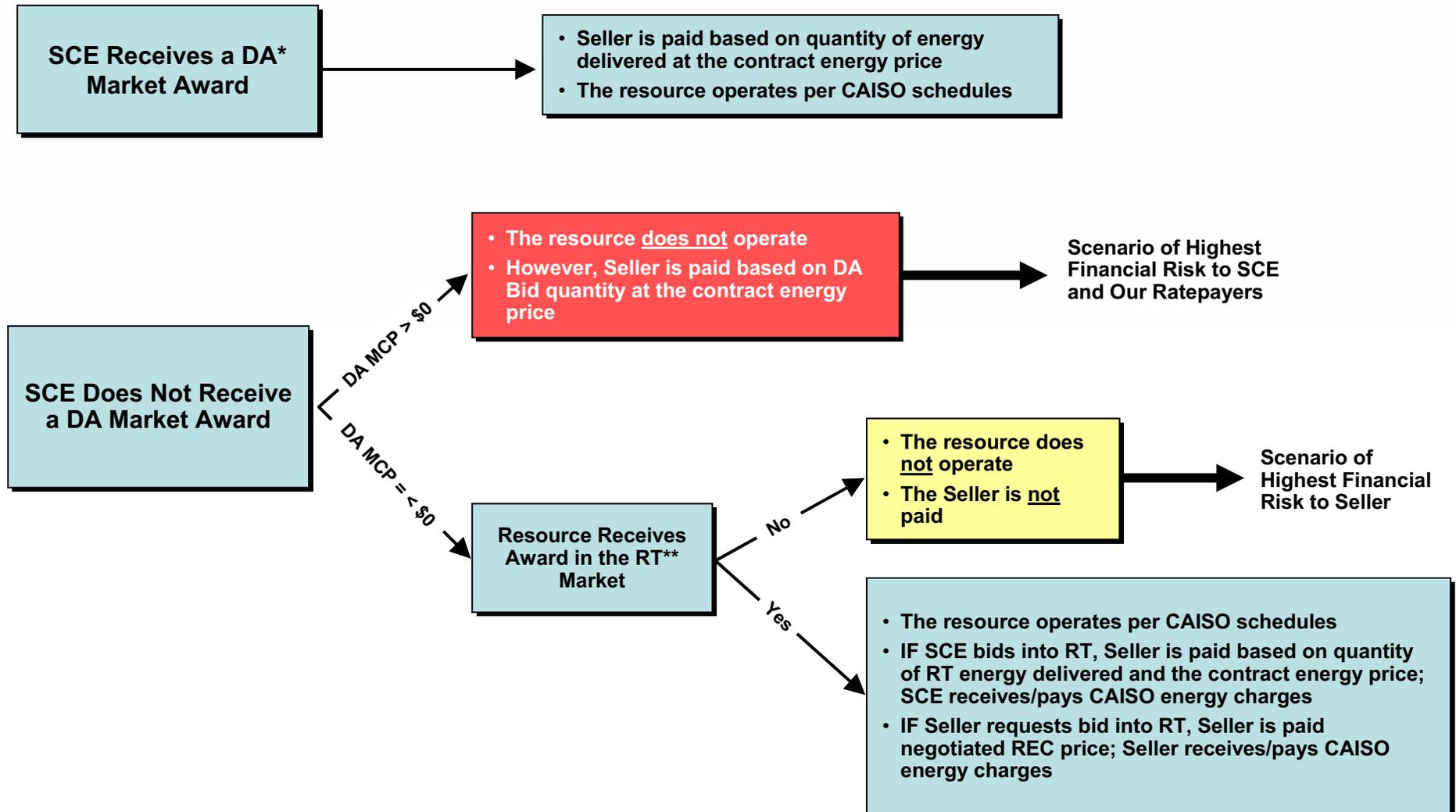
Critical Issues – Curtailment

- ❑ Prior *pro forma* renewable power purchase and sale agreement
 - SCE had curtailment rights under certain system conditions
 - SCE did not have to pay seller for energy deliveries that seller could have made, but for curtailment or reduction of deliveries

- ❑ Post Market Redesign and Technology Upgrade (MRTU)
 - Rather than begin issuing explicit curtailment instructions, the CAISO first allows the market to balance supply and demand
 - Zero or negative prices in the market are an indication of over generation or congestion
 - Under these conditions, SCE’s customers could be paying the CAISO to take the energy

- ❑ Striking the right balance should result in not only sharing the financial risk of negative prices, but also reducing the number of, and magnitude of, negative prices (i.e., if both seller and buyer are immune to congestion and overgeneration their behavior will exacerbate these problems)

SCE's Curtailment Proposal





SCE's Curtailment Proposal Appropriately Balances Risks

Objections to SCE's Original Curtailment Language:

- SCE can curtail at its own discretion
- No guaranteed revenue
- Project becomes unfinanceable
- Sellers essentially need "take or pay" contracts

SCE's Proposed Language:

- Allows risk-sharing between SCE and sellers
- Allows CAISO market conditions to determine circumstances under which a seller can be curtailed
- Gives sellers the option to bid into real-time market if no award is made in the day-ahead market and SCE will pay for RECs associated with the energy
- Requires seller's interconnection applications to provide for full deliverability



Critical Issues – Pre-approval Authority

Current Process

- ❑ Limits SCE's ability to enter into near term deliveries without assuming reasonableness risk
- ❑ Disadvantages renewable procurement to lower loading order resources
- ❑ SCE cannot compete with other LSEs whose contracts do not require CPUC approval
- ❑ SCE's customers end up paying higher prices for renewable energy
- ❑ Fast-track approval process unnecessarily and severely limits the amount of renewable transactions eligible for approval

SCE's Proposal

- ❑ Pre-approval authority for short-term renewable transactions similar to the current authority for non-renewable transactions
- ❑ Limited authorization to enter into short-term contracts and purchase up to a predetermined amount of generation
- ❑ Allows for flexibility in procuring renewable resources and helps California meet its renewable energy goals



Critical Issues – Renewable Energy Credit Decision (Background)

- ❑ Reclassifies most out-of-state contracts as Tradable Renewable Energy Credit (TREC)-only

- ❑ Annual use of TRECs by IOUs and municipal jurisdiction utilities (MJU) limited to 25% of annual procurement target
 - Applies to MJUs only in limited circumstances
 - No limit on energy service providers, community choice aggregators, or small utilities
 - Some banking is allowed, but can never use more than the limit in any year

- ❑ Limited grandfathering
 - Deliveries prior to the effective date of the decision continue to count as bundled
 - Deliveries from contracts approved prior to the effective date count towards the limit but they can still be used for compliance even if IOU exceeds the 25% limit

- ❑ Imposes a price cap for TRECs of \$50/MWh on IOUs and MJUs



SCE's Amended 2010 Solicitation Materials Allow For Procurement Of TRECs

- ❑ Enables sellers to offer TRECs to SCE
- ❑ Targets procurement of TRECs with 2008 through 2010 vintages
- ❑ Pre-approval process proposed by SCE will allow procurement of TRECs through contracts with a maximum length of five years if the resources are operating or under construction

SCE's TREC procurement efforts will help SCE meet near-term renewables goals, while supporting the maintenance and continued development of renewable resources in California and throughout the Western Electricity Coordinating Council



Critical Issues – RSC Program

Current Program

- ❑ Program is at its 250 MW cap
- ❑ Energy price is pegged to the MPR; no competitive solicitation
- ❑ Given that applications had greatly exceeded the program cap, SCE suspended the RSC Program after executing those contracts and conducted an analysis to review options for restarting the program in 2010
- ❑ Subject to potential gaming by developers

SCE's Proposal

- ❑ Model the program after the SCE Annual RFP – a reverse auction
 - Same method used for SPVP, and proposed by CPUC for Feed-in tariff
 - Hold auctions twice per year, followed by execution of standard PPAs
 - Selection based on price – no transmission cost adders considered
 - Pay as bid – not as cleared
- ❑ Limit to a maximum of 250 MW for execution in 2010



Critical Issues – Integration Costs

Current Program

- ❑ Integration costs are indirect costs that result from integrating and operating eligible renewable energy resources
- ❑ In D.04-07-029, the Commission required that integration cost adders be zero for the first year of RPS solicitations (i.e., 2004)

Concern

- ❑ As California continues to procure additional intermittent renewable resources, current levels of intermittent renewables require increasing levels of ancillary services

SCE's Proposal

- ❑ Assess multiple integration cost studies, and then use more updated results as the basis for evaluating integration costs in the evaluation process
- ❑ Consider integration costs in the 2010 RPS solicitation evaluation process and use a non-zero adder for integration costs



Critical Issues – Advice Letter Review Process

Scoping Memo Proposal

- ❑ Requires contract amendments that result in “(a)ny increase in ratepayer cost that has not been pre-approved” to be submitted via Tier 3 advice letters
- ❑ Distinction between “major” and “minor” modifications is unclear
- ❑ Requirement that amendments for additional procurement at Commission-approved price to be filed through Tier 1 advice letter is vague

Concern

- ❑ Could require a large percentage of renewable contract amendments to be approved through the Tier 3 advice letter process, even if amendment provides overall benefits to ratepayers
- ❑ Directly contrary to the goal of streamlining the review process
- ❑ Undermines usefulness of ERRA review process

SCE’s Proposal

- ❑ Commission should continue with the current guidelines for review of renewable contract amendments
- ❑ Should the Commission determine that additional guidelines are necessary, SCE has included a modified proposal in its amended plan



Critical Issues – Development Security

Current Program

- Development security requirement of \$30/\$60 per kW for intermittent/baseload facilities
- Performance assurance of 5% of total revenues throughout contract term
- Seller debt to equity ratio requirements that complicate contract administration and management efforts without commensurate benefits to SCE

SCE's Proposal

- Development security requirement of \$60/\$90 per kW for intermittent/baseload facilities which provides reasonable security for SCE customers and is consistent with overall industry position on allocating project failure risks
- Tiered mechanism for performance assurance
- Elimination of seller's debt to equity ratio requirement and associated definitions

Critical Issues – Non-Disclosure Agreements (NDA)

Current Program

- ❑ All sellers are required to submit a redlined version of SCE's *pro forma* NDA with their initial proposal documents

SCE's Proposal

- ❑ All sellers should agree to a "Short-term NDA" which lasts until the latest of three dates:
 1. if the proposal is placed on SCE's short list, seller's submission to SCE of its short list deposit, exclusivity agreement, copy of interconnection application, and a long-term NDA
 2. if the proposal is placed on SCE's short list, seller's notification to SCE that seller declines to pursue further negotiations; and
 3. SCE's notification to seller that the proposal has not been placed on SCE's short list and SCE does not wish to negotiate the proposal
- ❑ A seller chosen for SCE's short list will then submit SCE's Long-term NDA

Critical Issues – Project Viability Calculator (PVC)

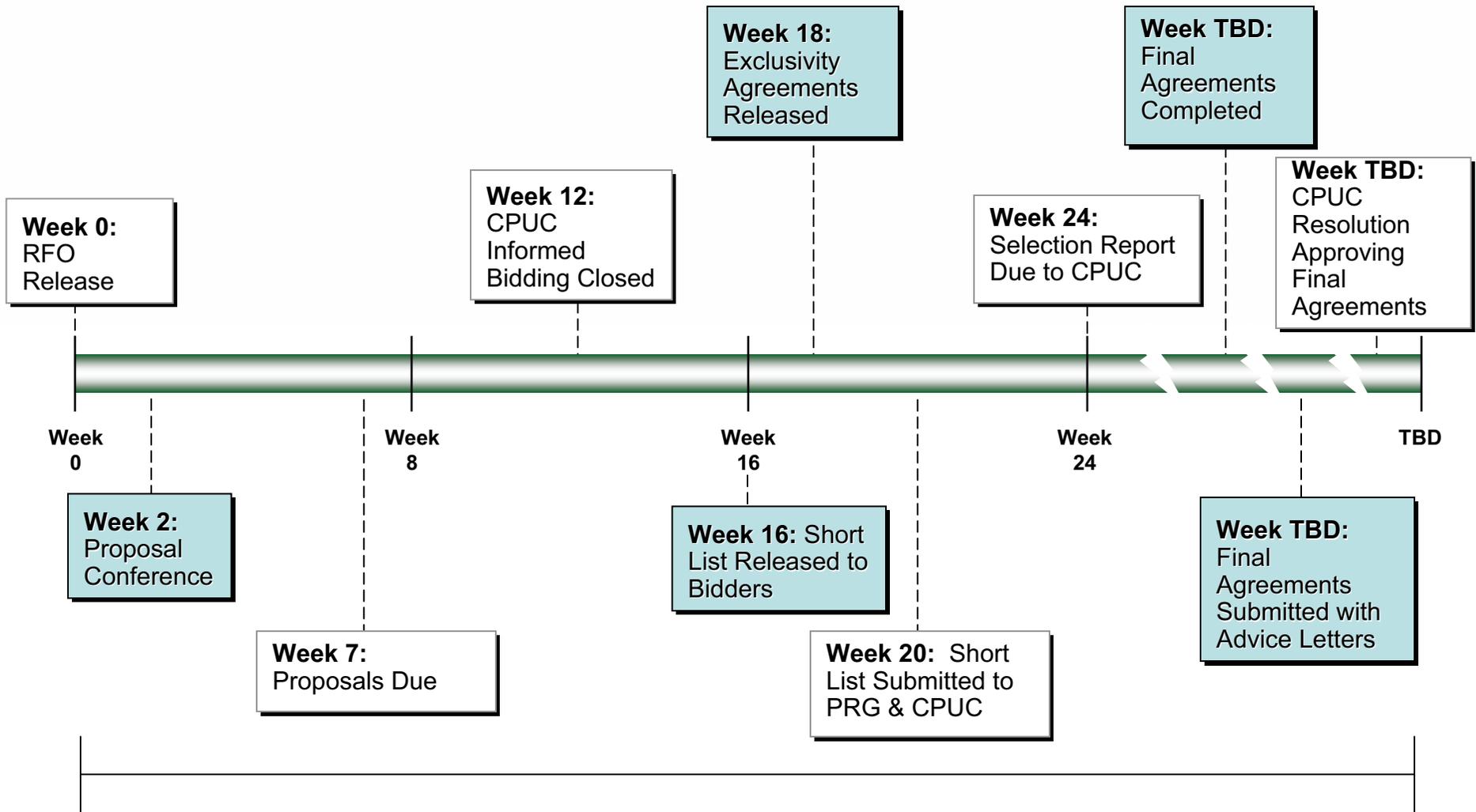
Current Program

- Criteria scoring guidelines too prescriptive to allow meaningful scoring
- No definition of particular terms
- PVC instructions prohibit interpolating between the provided scores
- Independent Engineer (IE) scoring column was misinterpreted to mean that the IE was also required to score all proposals

SCE's Proposal

- Expands criteria to offer more options in the evaluation spectrum
- Clearly defines terms and allows the evaluator the flexibility to revise or add to the existing criteria
- Allows interpolation between the provided scores
- Does not require IE to evaluate each proposal

Critical Issues – RFO Calendar



Total RFO Duration: 60+ Weeks



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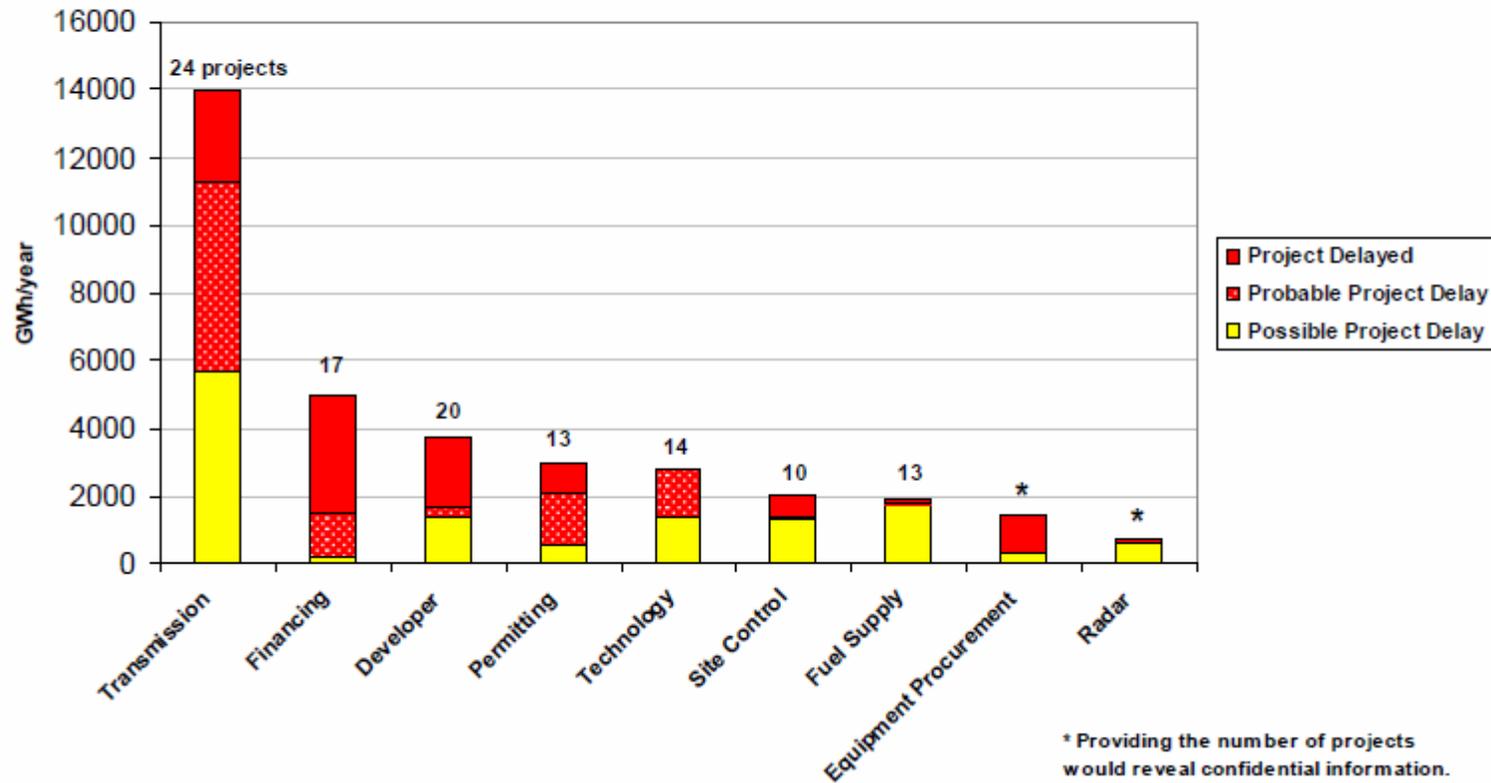
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Summary

- Requested Regulatory Action

CPUC-Identified Barriers

Barriers to the Development of IOU-Executed Contracts for RPS Generation





SCE-Identified Barriers

❑ Transmission

- Contract evaluation and negotiation often occur in the early stage of project development where little or no transmission information is known
- SCE has received relatively few proposals from renewable generators that do not require significant transmission upgrades or new transmission development for the renewable energy to be deliverable
- \$115 billion in new infrastructure investment in an uncertain financial environment and seven major new transmission lines (in addition to the four major new transmission lines needed to reach 20% renewables)

❑ Permitting

- Most RPS project delays “are due to lack of transmission or generation permitting at the county, state, or federal level”¹

❑ Tax credits

- Many renewable generation projects rely on federal tax credits, prompting the Commission to call this factor “the number one source of risk to new RPS generation expected to come online by 2010”² in July 2008
- American Recovery and Reinvestment Act cash grants (in lieu of investment tax credits) expire at the end of 2010



SCE-Identified Barriers (cntd.)

- ❑ Heavily subscribed interconnection queue
 - The number and aggregate capacity of projects in the CAISO interconnection queue are increasing at rates never before experienced in California

- ❑ Developer performance
 - Developers have significant hurdles and, to the extent delays occur, these delays will impact the amount of delivered energy on which SCE can rely to reach the State's goals

- ❑ Regulatory changes and uncertainty
 - CPUC revised methodology for calculating Annual Procurement Target (APT). APT for 2010 now 20% of current year's retail sales, not of prior year's retail sales
 - Change in methodology results in lower short-term APTs (2010-2011), but higher APTs in the long-term (2012 forward)
 - Reclassification of certain contracts as REC-only
 - Extended and unknown contract approval timeline and findings

SCE Has Attempted To Expedite Permitting and Construction

- ❑ SCE has attempted to expedite the permitting and construction of renewable transmission facilities by:
 - Proactively providing the upfront financing for needed transmission network upgrades
 - Seeking authorization to record costs associated with interconnection and environmental studies for renewable projects
 - Providing leadership to the CAISO's reform of the Large Generator Interconnection Procedures
 - Requesting authority to study the feasibility of developing transmission capacity to deliver output from potential renewable resources



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Requested Regulatory Action

Description	Requested Action
Amended 2010 Written Plan & Associated Documents	<i>Approve</i>
Curtailment Language Changes	<i>Approve</i>
Pre-Approval Authority	<i>Approve</i>
Renewable Energy Credits Procurement Authority	<i>Approve</i>
Renewable Standard Contracts Program Changes	<i>Approve</i>
Non-zero Integration Costs	<i>Approve</i>
Advice Letter Review Process	<i>Approve</i>
Development Security	<i>Approve</i>
Non-Disclosure Agreements	<i>Approve</i>
Project Viability Calculator	<i>Approve</i>
Request For Proposals Calendar	<i>Approve</i>
Additional Items in Amended 2010 Procurement Plan	<i>Approve</i>



Thank You

CERTIFICATE OF SERVICE

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy of **REPLY OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338 E) TO RESPONSES TO JOINT MOTION OF SOUTHERN CALIFORNIA EDISON COMPANY AND SAN DIEGO GAS & ELECTRIC COMPANY FOR STAY OF DECISION 10-03-021** on all parties identified on the attached service list(s). Service was effected by one or more means indicated below:

Transmitting the copies via e-mail to all parties who have provided an e-mail address. First class mail will be used if electronic service cannot be effectuated.

Executed this 23rd day of April, 2010, at Rosemead, California.

/s/ Meraj Rizvi

By: Meraj Rizvi

SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue
Post Office Box 800
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California Public
Utilities Commission

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CITY OF CHULA VISTA, CCSF
LIST NAME: LIST
LAST CHANGED: APRIL 22, 2010**

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