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### BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Oversee the Resource Adequacy Program, Consider Program Refinements, and Establish Annual Local Procurement Obligations.

Rulemaking 11-10-023 (Filed October 20, 2011)

### COMMENTS OF BROOKFIELD RENEWABLE ENERGY PARTNERS LP ON MARCH 23, 2012 ADMINISTRATIVE LAW JUDGE'S RULING SEEKING COMMENT

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**Dated: April 11, 2012** 

### BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Oversee the Resource Adequacy Program, Consider Program Refinements, and Establish Annual Local Procurement Obligations.

Rulemaking 11-10-023 (Filed October 20, 2011)

### COMMENTS OF BROOKFIELD RENEWABLE ENERGY PARTNERS LP ON MARCH 23, 2012 ADMINISTRATIVE LAW JUDGE'S RULING SEEKING COMMENT

#### I. INTRODUCTION

Pursuant to Rule 1.4(a) of the Rules of Practice and Procedure of the California Public Utilities Commission ("CPUC" or "Commission"), the Order Instituting Rulemaking to Oversee the Resource Adequacy Program, Consider Program Refinements, and Establish Annual Local Procurement Obligations ("Order Instituting Rulemaking") in the above-captioned proceeding ("Proceeding on Order Instituting Rulemaking"), and the Administrative Law Judge's Ruling Seeking Comment issued on March 23, 2012 in the above-captioned proceeding ("Request for Comment"); Brookfield Renewable Energy Partners LP<sup>1</sup> ("Brookfield") respectfully submits the following comments.

#### II. REQUEST FOR PARTY STATUS

Pursuant to the Commission's Order Instituting Rulemaking, Brookfield respectfully requests that the Commission grant it party status in this proceeding. Brookfield has more than 100 years of experience as an owner, operator and developer of hydroelectric power facilities.

In November 2011, Brookfield Renewable Energy Partners LP was formed by combining the power generation assets of Brookfield Renewable Power Fund and Brookfield Renewable Power Inc. Brookfield Renewable Energy Partners LP trades on the Toronto Stock Exchange under the symbol BEP.UN and is currently in the process of being listed on the New York Stock exchange.

Brookfield's power generation operations located in North America and Brazil total more than 4,200 MW, of which more than 2,000 MW are in the United States. Brookfield's generating assets predominately are renewable energy resources (hydro and wind). Within California, Brookfield owns and operates 274 MW of wind capacity in the Tehachapi Pass as well as the 30 MW Malacha hydroelectric facility. Brookfield also has a pump storage project under development. Based on its experience in the power industry and commitment to improving the environment, Brookfield respectfully offers the following comments in response to the Request for Comment.

Brookfield requests that it be granted party status in this proceeding and that the following individuals be placed on the service list for this docket as representatives of Brookfield:

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#### III. COMMENTS

Brookfield supports the Commission's efforts through this proceeding to modify the Resource Adequacy ("RA") rules related to the changing needs of the electric grid with the expected increase in renewable resource penetration resulting from the 33% Renewable Portfolio Standard ("RPS"). We recognize these changes to the RA program are likely to be significant

and will take time and effort for the Commission and stakeholders to define. Despite the complexity of these changes, we agree with the California ISO ("CAISO") proposal presented at the March 30, 2012 CPUC Energy Division workshop held in the above-captioned proceeding ("Workshop") that the time to implement changes to the program is now, beginning with the 2013 compliance year.

Our comments below are focused specifically on the CAISO Flexible Capacity

Requirement proposal as discussed at the Workshop. As described further herein, we request
that the Commission take immediate action within this proceeding to evaluate and refine as
necessary the three flexible capacity categories and calculation methodologies as proposed by the
CAISO so they can be adopted and utilized to determine any potential shortfalls in flexible
capacity for the 2013 compliance year as compared to LSE annual showings. This data can be
used to better refine and establish firm values for the 2014 compliance year.

### A. The CAISO Proposal Represents a Reasonable Phased Approach to Changing RA Requirements Beginning with the 2013 RA Compliance Year.

Brookfield recognizes that the flexible capacity requirements proposed by the CAISO would have significant implications to the existing RA paradigm and that there is still a lot of work to be done to define the details around what is being proposed. The recent revised proposal presented by the CAISO at the Workshop is a reasonable approach to phasing in these new requirements and presents a solid design principle that should guide future design. The CAISO now proposes no express flexible capacity requirements for the 2013 compliance year but requests the Commission to agree upon the flexible capacity categories (load following, maximum continuous ramping, and regulation) and the methodologies used to arrive at the requirements. This more limited scope seems attainable for the 2013 compliance year and we

request the Commission to commit to addressing these issues promptly as part of this proceeding.

## B. The Commission Should Not Wait Beyond 2013 to Begin Work on Substantially Refining RA Rules to Support Renewable Integration.

We agree with the CAISO that it is important to define requirements now, for the 2013 compliance year, to ensure the right resources are developed and existing flexible resources are available as we move into future years 2014 through 2018, when the volumes of renewable resources connected to the CAISO grid are forecasted to increase substantially. Undeniably, data from the CAISO interconnection queue presented to the CAISO Board of Governors on October 27, 2011 shows that most of the renewable energy capacity needed to reach the 33% RPS, about 10,000 megawatts, is projected to come on line within this four year period with most of the gains coming from solar and wind resources<sup>2</sup>.

As the CAISO outlined in its proposal, the displacement of flexible capacity with intermittent resources, combined with the risk of retirement of flexible resources due to revenue insufficiency and planned elimination of once-through cooled facilities requires that the Commission, working in concert with the CAISO, plan for the availability of flexible resources starting now.

### C. Recognizing Specific Resource Attributes Is Important to Promote the Development and Deployment of Long-life, Capital-intensive Storage Projects

In our prior comments to the Commission in the ongoing energy storage proceeding<sup>3</sup> we noted that the existing process of procuring only generic capacity through the RA program will

See Briefing on Renewable Integration in the ISO Generation Interconnection Queue, October 2011, available at <a href="http://www.caiso.com/Documents/111027BriefingonRenewableGenerationintheISOGeneratorInterconnection">http://www.caiso.com/Documents/111027BriefingonRenewableGenerationintheISOGeneratorInterconnection</a> Queue Memo.pdf (last visited Apr. 11, 2012).

Comments of Brookfield Renewable Energy Partners LP (Formerly Brookfield Renewable Poser Inc.) on December 12, 2011 CPUC Ruling Entering Initial Staff Proposal into Record and Seeking Comments, Order Instituting Rulemaking Pursuant to Assembly Bill 2514 to Consider the Adoption of Procurement Targets for Viable and Cost-Effective Energy Storage Systems ("Energy Storage Proceeding"), R. 10-12-007 (CPUC Jan. 31, 2012).

not ensure that identified specialized needs of the grid are met under the 33% RPS including any specific value that can be provided by electric energy storage. The Commission identified a link between this proceeding and the ongoing energy storage proceeding with the goal to assign an RA value to energy storage<sup>4</sup>. This is a critical step to facilitate the development and participation of fast-ramping resources such as electric energy storage in the CAISO market. Pump-storage hydro would likely meet the requirements for all three categories of flexibility defined by the CAISO. The adoption of the proposed categories for flexible capacity for the 2013 compliance year would be a good starting point to enable the determination of RA value for storage by the 2014 compliance year.

# D. A Multi-Year Procurement Mechanism Is Needed to Retain Existing Flexible Resources as Well as to Stimulate Investment in the Development of New Flexible Resources

We support the comments provided previously by a number of market participants, specifically, the California Energy Storage Alliance, Independent Energy Producers Association, and Calpine Corporation<sup>5</sup> to this proceeding and also the CAISO's proposal presented at the Workshop that outline the need for multi-year procurement of RA capacity to ensure that flexible capacity is available to maintain grid reliability. The lack of a multi-year procurement mechanism is a significant barrier to secure financing for capital intensive projects, such as pumped storage. As mentioned above, these facilities could provide significant value to the CAISO grid by providing much needed flexible capacity through various products and services.

Energy Storage Framework Staff Proposal, Attachment A to Administrative Law Judge's Ruling Entering Initial Staff Proposal into Record and Seeking Comments, Energy Storage Proceeding, R. 10-12-007 (CPUC Dec. 14, 2011).

Reply Comments of the California Energy Storage Alliance to Order Instituting Rulemaking, Proceeding on Order Instituting Rulemaking, R. 11-10-023 (CPUC Nov. 21, 2011); Comments of the Independent Energy Producers Association on the Scope of the Proceeding, Proceeding on Order Instituting Rulemaking, R. 11-10-023 (CPUC (Nov. 7, 2011); Comments of Calpine Corporation on Order Instituting Rulemaking, Proceeding on Order Instituting Rulemaking, R. 11-10-023 (CPUC Nov. 7, 2011).

Therefore we encourage the Commission to act on the CAISO's proposal<sup>6</sup> to initiate a separate proceeding or track to establish a flexible capacity requirement in 2014 and also to advance discussion on multi-year forward procurement.

### IV. CONCLUSION

Brookfield appreciates the opportunity to submit these comments and looks forward to working with the Commission and other market participants on this important issue.

Respectfully submitted,

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See CAISO Flexible Capacity Requirement Presentation Slide Deck from the Workshop, Slide 14 (Mar. 30, 2012) (describing CAISO's proposal).

#### **CERTIFICATE OF SERVICE**

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have on this day served a copy of the foregoing "COMMENTS OF BROOKFIELD RENEWABLE ENERGY PARTNERS LP ON MARCH 23, 2012 ADMINISTRATIVE LAW JUDGE'S RULING SEEKING COMMENT" on all parties identified on the attached service list. Service was effected by one or more means indicated below:

☐ Transmitting a copy via electronic mail on those parties who provided an e-mail address; or

☐ First Class mail on those parties that have not provided an electronic address to the Commission.

Executed this 11<sup>th</sup> day of April, 2012, at Washington, D.C.

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