## STATE OF NEW YORK PUBLIC SERVICE COMMISSION

Proceeding on Motion of the Commission to Implement a Large-Scale Renewable Program and a Clean Energy Standard

Case 15-E-0302

In the Matter of the Value of Distributed Energy Resources

Case 15-E-0751

# PETITION REGARDING MODIFICATION OF THE CLEAN ENERGY STANDARD TO TRANSITION FROM A DEFINED PERCENTAGE OBLIGATION TO A LOAD SHARE OBLIGATION

## 1. Introduction

This petition proposes to transition the Clean Energy Standard (CES) Tier 1 Renewable Energy Standard (RES) compliance obligation for Load Serving Entities (LSEs) away from the current approach and toward a load share obligation approach similar to other existing LSE obligations under the CES. Under the current Tier 1 approach, LSEs must meet their compliance obligation, which is represented as a predetermined and ascending percentage of the load they serve, by procuring Tier 1 renewable energy credits (RECs) from NYSERDA or other sources, or, in the alternative, by making Alternative Compliance Payments (ACPs). Under the new approach proposed in this petition, LSEs would simply be obligated to procure all Tier 1 RECs made available by NYSERDA, after the completion of voluntary sales, in a proportion equivalent to their share of the State load or load share. Without a pre-determined compliance obligation percentage, there would no longer be a need for ACPs, nor would there be an incentive for LSEs to purchase RECs outside of those purchased by NYSERDA. Although these two alternative methods of meeting the current LSE compliance obligation were well-intentioned when designed, for the reasons set forth in this petition, they have not proven to be critical to the success of the CES. NYSERDA submits to the Commission that the proposed transition would benefit New York State ratepayers, provide further consistency across the various LSE obligations under the CES, and provide administrative efficiency for NYSERDA and LSEs. Adopting a load share construct also provides the potential to reduce ratepayer costs by enabling NYSERDA to sell Tier 1 RECs to the in-state voluntary market.

## 2. Background

## 2.1 The Evolution of the Clean Energy Standard

On August 1, 2016, the Public Service Commission (Commission) established the CES. The CES includes the RES, the Zero-Emissions Credit (ZEC) requirement and, as of July 12, 2018, the Offshore

<sup>&</sup>lt;sup>1</sup> Case 15-E-0302, Proceeding to Implement a Large-Scale Renewable Program and a Clean Energy Standard, Order Adopting a Clean Energy Standard (issued and effective August 1, 2016) (CES Framework Order).

Wind Standard.<sup>2</sup> The RES includes the Tier 1 program, designed to foster the development of new renewable energy resources through the creation of a compliance obligation for each LSE to serve their retail customers by procuring qualifying Tier 1 RECs or making ACPs.<sup>3</sup> The CES Framework Order anticipated that additional measures would be necessary to fully implement the CES and instituted an implementation process to address issues and approve changes as necessary. To date, the Commission has approved four CES implementation plans that are briefly summarized below.

The CES Phase 1 Implementation Plan (Phase 1 Plan) included details and processes regarding RES eligibility, certification, the long-term procurement of Tier 1 RECs, LSE demonstration of compliance, and other reporting requirements. The Phase 1 Plan was approved by the Commission on February 22, 2017<sup>4</sup> and filed by Department of Public Service staff (Staff) and NYSERDA on March 24, 2017.<sup>5</sup>

The CES Phase 2 Implementation Plan (Phase 2 Plan) included modifications to the annual targets for LSE obligations for 2018 through 2021, clarification of the treatment of voluntary purchases and baseline resources in observing progress toward the CES goals, protocols for the application of an annual divergence test (Divergence Test), program design and procedures for the 2018 sale of Tier 1 RECs procured by NYSERDA under long-term contracts, direction for post-2018 modifications, establishment of a method to calculate the ACP for 2018 and a description of how NYSERDA would utilize any ACPs received. The Phase 2 Plan was approved by the Commission on November 17, 2017<sup>6</sup> and filed by Staff and NYSERDA on December 18, 2017.<sup>7</sup>

The CES Phase 3 Implementation Plan (Phase 3 Plan) included changes required by the Commission's Order dated November 17, 2017, resolution of previously unaddressed issues from the CES Framework Order and other existing Commission orders, procurement results, and RES program developments occurring after the filing of the Phase 2 Plan. The Phase 3 Plan included clarifying how obligated load is calculated, amending the RES Tier 1 certification processes for eligible Value of Distributed Energy Resources (VDER) projects, extending the default commercial operation milestone dates under RES Tier 1 procurements, and proposed program design and procedures for the 2019 Tier 1 REC sales and beyond for Tier 1 RECs procured by NYSERDA under long-term contracts. The Phase 3 Plan also outlined and clarified reporting requirements under the CES, including the content and timing of the Triennial Review process, and provided a schedule of ongoing filings. The Commission approved the Phase 3 Plan by Order dated December 14, 2018<sup>8</sup> with certain revisions as described in the body of the Order; the Final Phase 3 Plan was filed by Staff and NYSERDA on January 11, 2019.<sup>9</sup>

The CES Phase 4 Implementation Plan (Phase 4 Plan) focused on a number of implementation steps identified by the Commission's January 2020 Order Modifying Tier 1 Renewable Procurements (CES January Order), <sup>10</sup> under which NYSERDA was authorized to employ an index pricing structure in its

<sup>4</sup> Case 15-E-0302, <u>supra</u>, Order Approving Phase 1 Implementation Plan (issued and effective February 22, 2017). (CES Phase 1 Order).

<sup>&</sup>lt;sup>2</sup> Case 18-E-0071, In the Matter of Offshore Wind Energy, Order Establishing Offshore Wind Standard and Framework for Phase 1 Procurement (issued and effective July 12, 2018).

<sup>&</sup>lt;sup>3</sup> CES Framework Order at 14.

<sup>&</sup>lt;sup>5</sup> Case 15-E-0302, Clean Energy Standard Final Phase 1 Implementation Plan (filed March 24, 2017).

<sup>&</sup>lt;sup>6</sup> Id., Order Approving Phase 2 Implementation Plan (issued November 17, 2017) (CES Phase 2 Order).

<sup>&</sup>lt;sup>7</sup> Case 15-E-0302, Clean Energy Standard Final Phase 2 Implementation Plan (filed December 18, 2017).

<sup>&</sup>lt;sup>8</sup> Case 15-E-0302, <u>supra</u>, Order Approving Phase 3 Implementation Plan (issued and effective December 14, 2018) (CES Phase 3 Order).

<sup>&</sup>lt;sup>9</sup> Case 15-E-0302, Clean Energy Standard Final Phase 3 Implementation Plan (filed January 11, 2019).

<sup>&</sup>lt;sup>10</sup> Case 15-E-0302, <u>supra</u>, Order Modifying Tier 1 Renewable Procurements (issued and effective January 16, 2020) (CES January Order).

future Tier 1 solicitations.<sup>11</sup> These implementation steps are primarily focused on impacts to the pricing and disposition of the Tier 1 RECs that NYSERDA procures under this structure, such as changes to the process of setting market prices, performance of auctions and managing REC vintages, changes to calculating ACPs, addressing unintentional impacts on the market for RECs imported to or exported from New York, and impacts to the Value Stack Environmental Value tariffs.<sup>12</sup> The Commission approved the Phase 4 Plan by Order dated August 13, 2020,<sup>13</sup> with minor revisions. The Final Phase 4 Plan was filed by Staff and NYSERDA on September 14, 2020.<sup>14</sup>

## 2.2 Current LSE Obligation Framework

The basic regulatory component of Tier 1 is an obligation on LSEs. This framework is consistent with the approach used in neighboring states and places compliance costs primarily on generation supply charges. Placing compliance costs on supply is intended to encourage efficiency, support voluntary hedging and power purchase agreements, and help to develop markets at the retail level by encouraging competitive LSEs to develop innovative products. Consistency with neighboring states is intended to encourage developer participation in markets in multiple jurisdictions and allow trading to reduce overall costs.

The foundation of the current Tier 1 obligation is a requirement that each LSE serve a defined percentage of its retail load with supply derived from eligible resources. The obligation is annual and determined by multiplying the LSE's actual load for the compliance year by the Tier 1 target obligation percentage for the compliance year. NYSERDA and Staff determine the Tier 1 target obligation percentage based upon the sum of the following projections: (1) the expected available volume of Tier 1-eligible RECs to be purchased through NYSERDA contracts; and (2) the expected Tier 1-eligible RECs conveyed to investorowned utilities (IOUs) from projects compensated under the VDER Value Stack. The LSE Tier 1 REC obligation percentage applied to the load served by each LSE during the compliance year thus determines the number of Tier 1 RECs the LSE needs to acquire to meet its obligation under the Tier 1 of the CES. The compliance year is from January through December of each year. NYSERDA and Staff publish a rolling three-year LSE obligation percentage to provide both LSEs and potential developers of Tier 1 eligible projects market insight in terms of future obligations and subsequent demand for Tier 1 RECs. The Compliance year is found to the load served by the load serve

## 2.3 Alternative Compliance Payments

ACPs are used in New York and are widely employed in other states to accomplish multiple purposes. In general, the ACP performs a cost control function for ratepayers by serving as a price cap on market REC prices. Payment of the ACP serves as an alternative to purchasing and retiring RECs, and, depending on the pricing methodology, may or may not be a penalty for non-compliance. ACPs also contribute to establishing market price signals for developers (developers should not expect revenues in excess of the ACP level) and bounding forward pricing exposure for LSEs. As such, their use contributes to creating forward REC price transparency and market liquidity. ACP levels are typically established by either statute or rule at a level above the forecasted cost of RECs needed for compliance, and often well above

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<sup>&</sup>lt;sup>11</sup> CES January Order at 28.

<sup>&</sup>lt;sup>12</sup> Id. at 26.

<sup>&</sup>lt;sup>13</sup> Case 15-E-030, supra, Order Approving Phase 4 Implementation Plan (issued and effective August 13, 2020).

<sup>&</sup>lt;sup>14</sup> Case 15-E-0302, Clean Energy Standard Final Phase 4 Implementation Plan (filed September 14, 2020).

<sup>&</sup>lt;sup>15</sup> CES Phase 3 Order. Eligible facilities that receive compensation for the environmental component of the Value Stack are required to assign the RECs generated by such facilities to the interconnecting utility. The utility may then use such RECs to satisfy their Tier 1 obligation. See also, Case 15-E-0751 et al., In the Matter of the Value of Distributed Energy Resources, Order on Net Energy Metering Transition, Phase One of Value of Distributed Energy Resources, and Related Matters (issued and effective March 9, 2017).

<sup>&</sup>lt;sup>16</sup> CES Phase 2 Order.

the forecasted level in order to create a strong incentive for LSEs to comply by procuring RECs rather than making payments. This second function can be more important where states rely less on central procurement (utility-led or state-led) of renewable projects. In most states, ACP levels are typically set by an annual schedule many years in advance, in most cases at either a constant nominal dollar per MWh price or escalating with inflation.

In establishing the CES in New York, the Commission established the ACP as an alternative to demonstrating compliance via purchase of Tier 1 RECs with the explicit goals of providing flexibility and cost containment. As designed under the CES Framework Order, an LSE can meet its Tier 1 REC obligation through a market-based approach of purchasing Tier 1 RECs from NYSERDA or self-supplying Tier 1 RECs through purchase from a Tier 1 eligible project. If an LSE is unable or unwilling to purchase or self-supply a sufficient quantity of Tier 1 RECs to meet its obligation for a compliance year, the LSE must make ACPs to NYSERDA for the difference between its obligation and the Tier 1 RECs the LSE retires in the New York Generation Attribute Tracking System (NYGATS) for that compliance year.

As was made clear in the CES Framework Order, the New York ACP is not a penalty for non-compliance; rather, it is an alternative avenue to compliance. As such, in New York, the ACP is set at an amount that is 10 percent above the net-weighted average cost for the Tier 1 RECs NYSERDA expects to acquire during the compliance year. Although not a penalty, ACPs are more expensive than the purchase of Tier 1 RECs and do not reflect the purchase of clean energy.

The cost of an ACP is published prior to the start of each compliance year and provides an upper bound enabling an LSE to determine its cost of Tier 1 compliance. In this way, ACPs are not only an alternative compliance method, but also act as a means of cost certainty and provide a cost cap for Tier 1 compliance because LSEs do not need to incur costs higher than the ACP.

It should be noted that just as NYSERDA is required to collect ACPs, NYSERDA is also required to apply collected ACPs toward CES costs that otherwise would be borne by New York's ratepayers, such as the administrative expenses required to operate the program. As described in the 2020 Divergence Test, NYSERDA issued invoices for 1,767,798 ACPs which had a value of approximately \$42.9 million in 2020. As required under the approved Phase 2 Plan, NYSERDA filed a proposal to use these funds to reduce the cost of the CES. NYSERDA requested to use a portion of these funds to offset its 2022 Annual Administrative Funding request that was filed on July 30, 2021, and approved by the Commission on December 16, 2021. NYSERDA made a similar request to apply ACP funds towards its 2023 administrative costs; that petition, filed on July 29, 2022, is currently pending before the Commission.

## 2.4 NYSERDA's Role

Based on the CES Framework Order, NYSERDA has the responsibility of being the primary procurement agent of Tier 1 RECs, from which LSEs purchase RECs to meet their Tier 1 obligation.<sup>21</sup>

To accomplish this, NYSERDA issues an annual Request for Proposals (RFP) to solicit Tier 1 RECs from eligible projects. Per the 2020 CES Progress Report, NYSERDA has issued five RFPs to solicit bids from

<sup>19</sup> Case 15-E-0302, supra, 2020 CES Progress Report at 28 (Excludes LIPA & NYPA).

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<sup>&</sup>lt;sup>17</sup> CES Framework Order at 109.

<sup>&</sup>lt;sup>18</sup> Id. at 110.

<sup>&</sup>lt;sup>20</sup> Case 15-E-0302, <u>supra</u>, Clean Energy Standard Phase 2 Implementation Plan (filed December 18, 2017) (Phase 2 Plan) at 14.

<sup>&</sup>lt;sup>21</sup> CES Framework Order at 42.

Tier 1 eligible projects and has a portfolio of 107 agreements totaling over 8,700 MW of renewable nameplate capacity under contract. Although these contracts contain a maximum purchase obligation which could provide flexibility to a project developer, that obligation generally reflects a commitment to purchase 100% of the Tier 1 RECs to be generated from these facilities for a term of 20 years. In addition to offering long-term contracts, NYSERDA was authorized by the Commission in the CES January Order to offer and accept innovative pricing mechanisms such as the index REC price structure. The index REC price structure: (1) gives developers more flexibility to adapt their bidding behavior to their financing and operational needs; (2) reduces the risk premiums that developers account for in their bids to NYSERDA to accommodate for uncertainty in power market revenues; and (3) lowers ratepayer costs on a per-REC basis when compared to fixed price contracts.<sup>22</sup> By providing long-term contracts and innovative pricing structures, NYSERDA has contracted with a large majority of the New York-based Tier 1 eligible renewable energy generators.

Under the CES Framework Order, NYSERDA is responsible for determining a process to sell procured Tier 1 RECs to LSEs to provide a means for LSEs to meet their Tier 1 compliance obligations. NYSERDA has implemented its Tier 1 REC sale process in phases, per the implementation plans discussed in Section 2.1, with changes to the process reflecting changes in the CES as they have been adopted, to be more responsive to the needs of the LSEs and other stakeholders, and to improve administrative efficiency. Currently, NYSERDA holds quarterly Tier 1 REC sales where it offers LSEs the opportunity to purchase Tier 1 RECs that NYSERDA purchased during the previous quarter. These Tier 1 RECs are priced at the net-weighted average price NYSERDA paid to the contracted renewable energy generators plus any Commission-approved administrative adder. Each LSE is guaranteed a right of first refusal that guarantees each LSE a portion of the Tier 1 RECs available during each quarterly Tier 1 REC sale. LSEs are not required to participate in NYSERDA's sale process. Since 2018, each of NYSERDA's quarterly Tier 1 REC sales have been oversubscribed. As a result, LSEs are awarded a prorata share of the Tier 1 RECs requested from NYSERDA. This process is detailed in the Phase 4 Plan.<sup>24</sup>

## 2.5 Outcomes of Current Process

New York has made significant progress towards achieving the Climate Leadership and Community Protection Act (Climate Act) goal to reach 70 percent renewable energy by 2030. Combined with the existing baseline of renewable facilities in New York, the current pipeline of renewables already under contract and in-development projects would provide 66 percent of New York's electricity once operational. With a robust pipeline of projects in development but not yet in commercial operation, the Tier 1 REC supply remains constrained.

Routine performance assessments have been part of the CES since its inception. Upon adoption in 2016, the CES included a Triennial Review process to examine key aspects of performance including:

- The effectiveness of compliance mechanisms, including ACPs;
- Changes to eligibility rules;
- Application to microgrids and combined heat and power (CHP) systems;
- Fuel diversity; and

<sup>22</sup> Case 15-E-0302, <u>supra</u>, Order Authorizing Voluntary Modification of Certain Tier 1 Agreements (issued and effective November 20, 2020) at 5.

<sup>24</sup> Case 15-E-0302, <u>supra</u>, Clean Energy Standard Phase 4 Implementation Plan (issued September 20, 2020) (Phase 4 Plan) at 4.

<sup>&</sup>lt;sup>23</sup> CES Framework Order at 111.

 Interactions with the Regional Greenhouse Gas Initiative (RGGI) and the federal Clean Power Act.

Assessment of the performance of the CES also includes conducting an annual Divergence Test to examine the balance between mandated demand and anticipated supply of Tier 1 RECs. The outcome of the Divergence Test is used to set future Tier 1 obligation percentages and to evaluate the effectiveness of the centralized REC-only procurement process.<sup>25</sup> The Phase 2 Plan provided a detailed process to determine whether a significant and persistent undersupply or oversupply condition exists in the Tier 1 REC marketplace. The review consists of the following three components: (1) an evaluation of whether current Tier 1 REC supply and demand conditions trigger concern; (2) a forward-looking evaluation to assess whether a course-correction is needed; and (3) the establishment of course-correcting mitigation if the evaluation finds evidence that supply and demand are on diverging paths and these conditions are unlikely to self-correct given forecasted market conditions.

Divergence Tests have been conducted annually since 2017 and the first Triennial Review was completed in 2020. Among other conclusions, the 2020 Triennial Review found that "[a] review of the ACP data, the Divergence Test results, and other underlying data suggests that the ACP approach does not appear to be a major driver of RES program success. In addition, the ACP approach (specifically, the ACP level) may disincentivize an LSE from actively seeking available spot market supply in order to avoid payment of ACP." Moreover, the Triennial Review also found that, relative to the much higher ACP levels in other northeastern states, the small 10% margin of the ACP price above NYSERDA's REC resale price may fail to incentivize LSE's to procure RECs in addition to NYSERDA's procurements and provides little incentive for LSE's to take action to guard against future REC shortages. <sup>28</sup>

While the requirement for an annual Divergence Test remains, the Commission directed the Triennial Review to be replaced by a biennial review, starting in July 2024, in the 2020 Order Adopting Modifications to the Clean Energy Standard (CES Modification Order).<sup>29</sup> This change was made to align the CES with the requirements of the Climate Act.

Annual Divergence Tests have shown a persistent undersupply of Tier 1 RECs necessitating LSE reliance on ACPs to meet Tier 1 compliance obligations. Due to a shortage of Tier 1 RECs, NYSERDA and Staff have made downward adjustments to the LSE obligation percentage multiple times since the inception of the CES. This occurred via the 2020 CES Whitepaper on Clean Energy Standard Procurements to Implement New York's Climate Act<sup>30</sup> and in the 2021 Divergence Test.<sup>31</sup> These changes have been advanced in an effort to reduce the collection of ACPs and reduce programmatic costs to ratepayers, while still maintaining forward progress to achieve the goals of the Climate Act.

<sup>&</sup>lt;sup>25</sup> CES Framework Order at 117.

<sup>&</sup>lt;sup>26</sup> Case 15-E-0302, <u>supra</u>, Renewable Energy Standard Program Impact Evaluation and Clean Energy Standard Triennial Review (filed June 2020) (2020 Triennial Review).

<sup>&</sup>lt;sup>27</sup> <u>Id.</u> at 138.

<sup>&</sup>lt;sup>28</sup> <u>Id.</u> at 139.

<sup>&</sup>lt;sup>29</sup> Case 15-E-0302, <u>supra</u>, Order Adopting Modifications to the Clean Energy Standard (issued and effective October 15, 2020) (CES Modification Order).

<sup>&</sup>lt;sup>30</sup> Case 15-E-0302, <u>supra</u>, White Paper on Clean Energy Standard Procurements to Implement New York's Climate Leadership and Community Protection Act (filed June 18, 2020) (2020 Whitepaper Proposal) at 68.

<sup>&</sup>lt;sup>31</sup> Case 15-E-0302, <u>supra</u>, Order Modifying CES LSE Obligation and Establishing 2024 Obligation (issued and effective March 15, 2022) at 5.

The 2021 Divergence Test found that, unlike the 2019 Divergence Test result showing an undersupply when the Tier 1 obligation was relatively new and the program was still ramping up, the two additional years of high ACPs constituted a persistent undersupply. The 2021 Divergence Test went on to discuss the possibility of transitioning the Tier 1 obligation from a percentage framework to a load share framework and committed NYSERDA and Staff to the task of conducting outreach to stakeholders to further explore the idea. After conducting outreach, discussed later in Section 3.2, NYSERDA has determined that transitioning to a Tier 1 load share obligation is in the State's best interest.

An alternative to the load share transition set forth in this petition would be to increase the ACP price. Increasing the ACP price above the current setpoint of 110% of NYSERDA's net-weighted average costs would provide greater incentive for LSEs to pursue direct REC procurements, in addition to purchasing RECs from NYSERDA, and thus could spur a more robust direct purchase market, the achievement of which has been elusive to date. This observation was noted in the 2020 Divergence Test, which stated that "ACPs that are too low may tend to dampen market activity outside of state-mandated procurement." Although this approach would likely do much to activate this market, it would not enable NYSERDA to sell to voluntary purchasers (those not subject to the Tier 1 obligation). Enabling NYSERDA to sell Tier 1 RECs to non-LSE purchasers that do not have a compliance obligation will provide the opportunity to reduce ratepayer costs to meet the targets of the Climate Act and the CES. An increase to the ACP price would not serve this goal. For these reasons, NYSERDA is not recommending an increased ACP approach and is instead recommending the load share transition set forth in this petition.

## 3. New Approach: Load Share Obligation

Through this petition, NYSERDA proposes a new approach that would require LSEs to purchase from NYSERDA their load share of the Tier 1 RECs purchased by NYSERDA annually; this approach is already used in the Tier 2, Tier 4, Offshore Wind Renewable Energy Certificate, and Zero Emission Credit programs of the CES.<sup>33</sup> Thus, the Tier 1 compliance obligation would be brought into alignment with the other CES programs. This process is proposed to be based upon the "pay-as-you-go" model that was implemented by NYSERDA beginning with the Commission approval of the ZEC Implementation Plan.<sup>34</sup> Under the pay-as-you-go model, a uniform wholesale per MWh charge would be applied to each LSE's actual wholesale load to calculate its monthly Tier 1 REC obligation payments. By transitioning to a load share approach, NYSERDA would also no longer be required to collect ACPs from LSEs.

#### 3.1 Benefits of Transitioning to a Load Share Obligation

NYSERDA has identified several benefits of transitioning from an LSE obligation percentage that utilizes a market-based approach to a method using LSE load share to determine each LSE's obligation. These benefits would accrue to many CES stakeholders.

• One of the key benefits would be the ability to hold voluntary Tier 1 REC sales that could transition certain costs of the Tier 1 component of the CES from obligated ratepayers to the voluntary market. Under the current process, voluntary sales are not compatible with an obligation construct where LSEs must make ACPs when there is a shortfall of Tier 1 RECs in the market.

<sup>&</sup>lt;sup>32</sup> 2020 Triennial Review at 82.

<sup>&</sup>lt;sup>33</sup> CES Framework Order at 30.

<sup>&</sup>lt;sup>34</sup> Case 15-E-0302, <u>supra</u>, Clean Energy Standard Zero Emissions Credit (ZEC) Implementation Plan (filed August 3, 2018).

- The transition to a load share approach would eliminate the need for ACPs. As discussed above, the shortage of Tier 1 RECs has led to significant quantities of ACPs from LSEs and, ultimately, ratepayers. Transitioning to a load share approach would result in NYSERDA only collecting enough funds to meet its contractual requirements for a compliance year plus any Commission-approved administrative adder.
- The Tier 1 obligation is currently the only obligation under the CES that was implemented through an LSE obligation percentage approach. The other LSE obligations within the CES are all based upon an LSE's load share. By transitioning the Tier 1 obligation to a load share obligation, all of the CES obligations would be consistent across all programs and enable both LSEs and NYSERDA to gain administration efficiencies.
- The proposed transition is consistent with the Climate Act<sup>35</sup> and maintains an obligation on LSEs to serve load with a continually increasing level of clean energy.

## 3.2 Stakeholder Outreach

As discussed in the 2020 Divergence Test, NYSERDA conducted outreach in the spring of 2022 to various stakeholder groups to discuss transitioning the Tier 1 LSE obligation from an LSE obligation percentage that utilized a market-based approach to a method using LSE load share to determine each LSE's obligation.<sup>36</sup>

NYSERDA met with more than 18 organizations representing over 40 different stakeholders. These include LSEs of various market share, consultants representing LSEs, the investor-owned utilities, REC brokers and municipal utilities. Throughout the outreach process, NYSERDA discussed how the LSE obligation could be transitioned to a load share approach, asked the various stakeholders their opinion on the transition, and requested input on the idea and how it would impact their operations.

The predominant response during the outreach was that moving to a load share approach would be more operationally efficient and cost effective. LSEs particularly appreciated the simplicity of a load share obligation. One stakeholder expressed concern that transitioning to a load share approach would create a barrier to LSEs developing projects for self-supply of Tier 1 RECs while one other stakeholder expressed concern that the new approach further reduces the prospect for a viable Tier 1 market in New York State outside of NYSERDA's efforts. While both concerns are valid, experience has shown that LSEs are not developing self-supply options in a significant way and given the attractiveness of NYSERDA's Tier 1 procurements to generators, and the relatively low ACP value, a vibrant Tier 1 market outside of NYSERDA procurements has not flourished.

## 4. Implementation of Proposed Tier 1 Load Share Obligation

Based upon NYSERDA's stakeholder engagement efforts, there is a strong interest in moving from the current market-based collection of funds from LSEs as a cost recovery method to one based on LSE load share. Under this process, LSEs would no longer have a Tier 1 obligation percentage that requires a percentage of their load be met with Tier 1 RECs nor would NYSERDA be required to collect ACPs. Instead, LSEs would be required to make payments to NYSERDA based on their load share and the quantity and cost of Tier 1 RECs purchased by NYSERDA each year less any sales made through the voluntary sales process described later in this petition. This approach would ensure NYSERDA has the

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<sup>35</sup> https://climate.ny.gov/

<sup>&</sup>lt;sup>36</sup> Case 15-E-0302, <u>supra</u>, Order Modifying Clean Energy Standard Load Service Entity Obligations and Establishing the 2024 Obligation, (issued and effective March 16, 2022) at 11.

necessary funds to meet its contractual obligations to Tier 1 generators while procuring Tier 1 RECs to fulfill the goals of the CES. This section provides a detailed synopsis of how NYSERDA proposes to implement this transition.

## 4.1 Treatment of VDER Tier 1 RECs

Currently, VDER Tier 1 RECS are purchased by the Investor-Owned Utilities (IOUs) from most Tier 1 eligible projects in their service territories.<sup>37</sup> The IOUs currently use these VDER Tier 1 RECs to help meet their Tier 1 obligations under the CES. Since the IOUs are required to purchase these VDER Tier 1 RECs to help meet their obligations under the CES, in developing this petition, NYSERDA had to consider how these VDER Tier 1 RECs would be addressed under the proposed transition.

Based upon feedback from the IOUs, some of the IOUs have significant quantities of VDER Tier 1 REC generating projects in their territories which represents a significant ratepayer investment. NYSERDA proposes that the VDER Tier 1 RECs would be counted towards the overall LSE load share obligation. NYSERDA would accomplish this by "purchasing" all VDER Tier 1 RECs from each IOU and adding these VDER Tier 1 RECs to the Tier 1 RECs purchased by NYSERDA to determine the total Tier 1 RECs obligation for all LSEs. This approach would allow the IOUs to receive credit for their required purchase of VDER Tier 1 RECs and for the cost of VDER Tier 1 RECs to be shared amongst all jurisdictional ratepayers as the environmental attributes these RECs represent are a shared societal benefit. NYSERDA would then include the VDER Tier 1 RECs originally procured by each IOU along with NYSERDA-procured Tier 1 RECs when performing the Tier 1 reconciliation process described below. This petition does not alter the existing option for VDER project owners to forgo the "Value of E" and retire VDER RECs for their own corporate/voluntary compliance purposes.

#### 4.1.1 VDER Tier 1 REC Process

NYSERDA recognizes that this would be a material change to how VDER Tier 1 RECs are currently utilized and that certain changes would be required. The following reflects NYSERDA's proposed process and changes that would be required to enable the necessary transferability of VDER Tier 1 RECs.

## **4.1.2 NYGATS**

Currently, VDER Tier 1 RECs are unable to be transferred in NYGATS.<sup>38</sup> NYSERDA proposes that VDER Tier 1 REC transferability be updated to allow VDER Tier 1 RECs minted in NYGATS to be transferrable to NYSERDA and that NYSERDA be able to transfer VDER Tier 1 RECs as necessary. This is discussed in greater detail below.

#### 4.1.3 NYSERDA and IOU VDER Tier 1 REC Coordination

The proposed process of NYSERDA "purchasing" the VDER Tier 1 RECs from the IOUs to be included in the Tier 1 load share obligation would require even closer coordination between NYSERDA, the IOUs, and Staff.

NYSERDA proposes that by June 15<sup>th</sup> of each year (starting in 2024 if this petition is accepted and ordered to begin in compliance year 2025) each of the IOUs would report to NYSERDA and Staff their

<sup>&</sup>lt;sup>37</sup> VDER project owners have the option of foregoing the payment of the Environmental Value in the VDER Value Stack, and instead claiming a non-tradable, non-monetizable REC. Relatively few project owners have made this election, but in such cases, the IOU does not claim Tier 1 RECs for the project's generation.

<sup>&</sup>lt;sup>38</sup> Case 15-E-0751, <u>supra</u>, Order on Net Metering Transition, Phase One of Value of Distributed Energy Resources, and Related Matters, (issued and effective on March 9, 2017) at 61.

forecast of the number of VDER Tier 1 RECs for the upcoming compliance year (2025 being the first year if approved) and the weighted-average Value of E price that the IOU would pay to purchase the VDER Tier 1 RECs. NYSERDA would utilize this information to determine the Initial Tier 1 Rate discussed later in this petition.

NYSERDA proposes that by March 15<sup>th</sup> of each following year (starting in 2026 if this petition is accepted and ordered to begin in compliance year 2025) each of the IOUs would report to NYSERDA and Staff the actual number of VDER Tier 1 RECs procured by each IOU for the previous year (2025 if accepted) and the weighted average Value of E price paid. NYSERDA would utilize this information to determine the Final Tier 1 Rate discussed later in this petition. NYSERDA proposes that each IOU transfer the VDER Tier 1 RECs identified in the March 15<sup>th</sup> filing, detailed above, to NYSERDA. This would be accomplished via NYGATS and the updated VDER Tier 1 REC transferability rules. This proposed approach would fully replace the existing Value of E cost recovery mechanism, including both the "in market" and the "out of market" components, while leaving all other VDER cost recovery practices in place.

NYSERDA proposes that each IOU would receive credit for the VDER Tier 1 RECs transferred to NYSERDA, at the cost reported to Staff and NYSERDA in the March 15<sup>th</sup> filing, during the annual Tier 1 REC reconciliation which is detailed later in this petition. NYSERDA recognizes that the IOUs would be procuring VDER Tier 1 RECs throughout the year but would not be made whole until the Tier 1 REC Reconciliation, but NYSERDA does not believe this would be an economic hardship when compared to the administrative and contractual efficiencies of the proposed approach.

## 4.2 Similar VDER Situations

During the outreach process, it was identified that there could be similar situations with other entities that have an obligation under the CES. These could include entities such as the Long Island Power Authority (LIPA), and other municipal utilities.

#### 4.2.1 Long Island Power Authority (LIPA)

NYSERDA, LIPA, and Staff are currently discussing whether LIPA will elect to participate in the new Tier 1 load share obligation framework, as LIPA already does with respect to the Tier 2 REC and ZEC programs. To the extent that LIPA agrees to participate, NYSERDA proposes to treat LIPA essentially in the same manner as IOUs. Specifically, NYSERDA is aware that LIPA procures the rights to Tier 1 RECs through its power purchase agreements with renewable generation facilities and through its payments to behind-the-meter generators eligible for LIPA's VDER tariff. NYSERDA proposes to purchase these Tier 1 RECs from LIPA at no more than the Value of E adopted under the Order on Net Energy Metering Transition, Phase One Value of Distributed Energy Resources, and related matters, as updated in the VDER E-Value Update April 2021 filing.

If LIPA elects to participate in the new Tier 1 REC compliance framework as described above, NYSERDA and LIPA would amend their existing contract for the purchase of Tier 1 RECs by LIPA from NYSERDA to effectuate the new process.

## 4.2.2 Other Municipal Utilities

NYSERDA recognizes that other municipal utilities could be developing VDER-like projects that would produce Tier 1 RECs. NYSERDA proposes that a municipal utility that owns or is in contract with a CES Tier 1 eligible project be treated in a manner consistent with IOUs possessing Tier 1 VDER RECs discussed previously in Section 4.1. NYSERDA proposes to purchase these Tier 1 RECs from municipal

utilities at no more than the Value of E adopted under the Order on Net Energy Metering Transition, Phase One Value of Distributed Energy Resources, and related matters, as updated in the VDER E-Value Update April 2021 filing.

## 4.2.3 New York Power Authority (NYPA)

The New York Power Authority is a voluntary participant in the CES. As a voluntary participant, NYPA has entered into an agreement with NYSERDA to purchase Tier 1 RECs starting in 2024. If this petition is approved, this agreement will need to be modified or replaced to account for changes in NYSERDA's REC sale process. NYPA and NYSERDA will need to determine the extent to which NYPA's load should be included in the statewide load calculations.

## 4.3 Timing of the Transition

NYSERDA proposes that the transition from an LSE obligation percentage to a method using LSE load share to determine each LSE's obligation commence with compliance year 2025. Under this approach, NYSERDA would conduct the first voluntary presale of Tier 1 RECs in 2024 for delivery in the 2025 compliance year as described in Section 5. This is a significant change from the current operating structure and NYSERDA recognizes that it would require considerable effort for the various stakeholders to adapt to the new process. As part of NYSERDA's initial outreach, some stakeholders shared specific feedback that LSEs would need sufficient time to close out existing contracts to purchase Tier 1 RECs, ensure that no Tier 1 RECs remain in their NYGATS subaccount and to incorporate this change into their long-term strategy. It is anticipated that this would be especially true for the IOUs and their VDER Tier 1 RECs. In addition, NYSERDA is proposing to sell Tier 1 RECs to LSEs and other organizations to be utilized for voluntary purposes. NYSERDA expects that this new endeavor would require dedicated time and effort to develop the necessary operational tools, outreach, and marketing, but would provide the potential for significant ratepayer savings through voluntary sales.

## 5. Implementation of Tier 1 REC Voluntary Sales

There is growing interest in voluntary REC purchasing in New York State, a trend similar to neighboring states and across the country. Increased demand for RECs is being driven in part by expanding CCAs<sup>39</sup> and organizations seeking clean energy choices as part of their Environmental, Social, and Governance (ESG) goals. To capitalize on this growing market interest in REC purchases and to minimize costs for New York ratepayers, NYSERDA is proposing the inclusion of voluntary REC sales in the transition to a load share framework.

NYSERDA proposes to sell Tier 1 RECs (on a percentage or fixed quantity basis) to voluntary purchasers, and to enter contractual arrangements with more than one entity as may be necessary. Under this concept, NYSERDA would offer Tier 1 RECs for sale to the voluntary market which would help to defray the cost of the Tier 1 program to New York ratepayers. NYSERDA proposes that Tier 1 RECs be made available for sale at NYSERDA's own net-levelized cost (including an administrative adder).

In developing a Tier 1 voluntary sale framework, NYSERDA has engaged with various stakeholders to discuss their needs. Additionally, there have been preliminary discussions to ascertain the demand for voluntary Tier 1 REC purchases and best approaches to a Tier 1 voluntary sale framework. Potential

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<sup>&</sup>lt;sup>39</sup> Comparison of 2019 and 2020 CES Annual Progress Reports shows CCAs increased their procurement and retirement of RECs by 353,758 MWhs. Case 15-E-0302, Clean Energy Standard Annual Progress Report: 2019 Compliance Year (filed January 2021) at 11. Case 15-E-0302, Clean Energy Standard Annual Progress Report: 2020 Compliance Year (filed January 2022) at 31.

voluntary purchasers include various organizations from the higher education and municipal government sectors, as well as businesses from the commercial and industrial sectors who may have ESG goals along with energy service companies (ESCOs) and Community Choice Aggregations (CCAs).

Considering feedback received, NYSERDA has determined a hybrid approach for the voluntary sale of RECs is best at this time, including long-term contracting, an annual REC presale and an annual REC resale, all described in greater detail below.

## 5.1 Long-Term Contracting

Similar to the approach approved by the Commission for the Tier 4 REC program, <sup>40</sup> NYSERDA proposes to enter into long-term contracts with creditworthy entities for the purchase of Tier 1 RECs. The terms and conditions of the contracts would include but would not be limited to: contract length, Tier 1 REC quantity, Tier 1 REC price, and payment terms. The terms and conditions would be memorialized within the individual contracts. Under any long-term contract, participants would be required to purchase Tier 1 RECs at the NYSERDA net-weighted average price plus any administrative adder approved by the Commission for that compliance year. Any revenue NYSERDA receives from the long-term contracts would be recognized as Long-Term Contract Revenue for the purpose of the LSE Tier 1 Obligation Reconciliation and as such reduce the total cost of the Tier 1 REC program to ratepayers.

## 5.2 Annual Tier 1 REC Presale

NYSERDA recognizes that some entities would also desire an alternative to long-term contracts. As a result, NYSERDA also proposes offering an annual presale of Tier 1 RECs covering a one-year period with a NYSERDA-projected REC price. This sale derives its name from the fact that is occurs before the compliance year, thus offering purchasers an opportunity to secure REC purchases for the upcoming compliance year.

Under this proposed process, NYSERDA would hold an annual presale prior to the start of the next Tier 1 compliance year. Through this presale, NYSERDA would offer for sale a percentage of the net expected Tier 1 REC inventory for the following compliance year. For example, if the first Tier 1 compliance year under this new approach is determined to be 2025, the first Tier 1 presale would occur in August 2024 based on a projection of VDER and NYSERDA Tier 1 RECs described above and would offer a percentage of the net expected Tier 1 REC inventory for 2025. The length of the presale period would be 14 days and would proceed according to the Tier 1 REC presale process schedule as shown in Table 1. NYSERDA would conduct annual presales throughout the life of the Tier 1 Program. NYSERDA would announce the quantity of Tier 1 RECs available for sale, presale price, and presale process no later than July 15<sup>th</sup> of each year through the end of the Tier 1 program.

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<sup>&</sup>lt;sup>40</sup> CES Modification Order at 100.

Table 1: Sample of -Forward Tier 1 REC Presale Process Schedule

Trading	Tier 1 REC Presale Offer Announcement	Tier 1 REC Presale Process Conclusion			
Period					
2025	Between July 1, 2024 and July 15, 2024	Announcement + 14 calendar days			
2026	Between July 1, 2025 and July 15, 2025	Announcement + 14 calendar days			
2027	Between July 1, 2026 and July 15, 2026	Announcement + 14 calendar days			
2028	Between July 1, 2027 and July 15, 2027	Announcement + 14 calendar days			
2029	Between July 1, 2028 and July 15, 2028	Announcement + 14 calendar days			

## 5.2.1 Annual Tier 1 REC Presales Eligible Purchasers

Private businesses such as commercial real estate companies, state entities, hospitals, universities, municipalities, and organizations with ESG goals, as well as LSEs and CCAs ("Purchasers") would be eligible to participate in NYSERDA Tier 1 REC annual presales. This approach is in alignment with the potential to mitigate Tier 1 costs to ratepayers by supporting the sale of all RECs purchased by NYSERDA, regardless of tier, in the voluntary market so long as the RECs sold stay in New York to be counted towards the Climate Act goals.

## 5.2.2 Annual Tier 1 Presale REC Inventory

The Tier 1 presale inventory for annual presales would be the total expected supply minus the long-term contract demand multiplied by a percentage (less than 100%) to help ensure that NYSERDA has sufficient Tier 1 RECs to fulfill Tier 1 REC presale orders. NYSERDA would coordinate with Staff to review the determination for the eligible sale percentage.

## Example:

Net Annual Tier 1 REC Inventory = (Total Expected Tier 1 Supply – Long-Term Contract Demand) \* Eligible Sale Percentage

#### Where:

Long-Term Contract Demand = The forecasted total number of Tier 1 RECs for that year contracted under a long-term contract

#### 5.2.3 Annual Tier 1 REC Presale Price

It is anticipated that the Tier 1 REC presale price would be based on the projected net-weighted average cost of Tier 1 RECs after subtracting the voluntary long-term contract commitments, plus any Commission-approved administrative adder. However, given the evolving and competitive nature of the Tier 1 REC market, NYSERDA proposes to have the ability to pursue an auction mechanism that would include variable pricing. It is in the best interest of ratepayers for NYSERDA to have the ability to pursue an auction structure that meets the needs of the market and maximizes voluntary sales, thereby maximizing the reduction of ratepayer obligations necessary to achieve the goals of the Climate Act and the CES. NYSERDA proposes to allow for both directly offering RECs for presale at the net-weighted average cost to procure or to conduct presale auctions as described herein at this time, and to seek

additional approval for other potential sale mechanisms once they are more fully developed. NYSERDA requests the ability to implement a presale auction structure, starting for the 2025 compliance year if this proposal is adopted, that would sell at or above NYSERDA's forecasted net-weighted average cost to procure RECs for the upcoming compliance year. Under such a structure, the forecasted REC price would serve as an auction reserve price for blocks of RECs that voluntary Purchasers could bid on for a designated period of time. This auction mechanism would enable NYSERDA to minimize ratepayer impacts from the program by maximizing the potential purchase price for Tier 1 RECs.

## Example:

Net Weighted Average Price = Net Annual Tier 1 REC Overall Cost / Net Annual Tier 1 REC Inventory

Where:

Annual Tier 1 REC Overall Cost = Projected Total Overall Cost – Long-Term Contract Revenue

NYSERDA acknowledges that the actual weighted average cost of Tier 1 RECs purchased by NYSERDA during the calendar year may differ from its presale projection. In determining the presale price of Tier 1 RECs, NYSERDA sums the projected costs and annual MWhs of generation from resources that have existing Tier 1 REC agreements with NYSERDA, both fixed and index priced contracts, and the projected VDER Tier 1 REC costs, to calculate the projected weighted average cost. This total includes annual MWh generation from eligible resources that commenced operation on or after January 1, 2015, as well as the pro-rated portion of MWh generation from resources that are scheduled to enter commercial operation during the year of the annual presale. No reconciliations would be made for the REC presale price to the actual weighted average price. This approach was previously utilized by NYSERDA prior to the adoption of the Phase 4 Implementation Plan. Any revenue or deficit from the Tier 1 REC presale will be settled during the annual reconciliation process discussed in Section 6.6.

## 5.2.4 Annual Tier 1 REC Presale Process

For the Tier 1 REC presale, NYSERDA would announce to Purchasers the timing of the Tier 1 REC presale and the following information:

- The expected total Tier 1 REC inventory available for presale
- The presale reserve price at which the Tier 1 RECs are offered
- Potential minimum order quantity or block amounts
- Presale period opening and closing date and time

NYSERDA would use an electronic submission form to collect orders from Purchasers that desire to participate in a presale. NYSERDA would also evaluate whether an online auction tool should be implemented. Participating Purchasers would be required to agree to the terms and conditions of presale when the order is submitted (at the point of sale).

#### 5.2.5 Annual Tier 1 REC Presale Allocation

Similar to the process that was approved by the Commission for the Tier 2 REC resale, NYSERDA proposes to not limit nor guarantee a minimum number of Tier 1 RECs to purchasers participating in the

Tier 1 annual presale process. The Tier 1 REC presale is a voluntary process, and the Tier 1 RECs are being purchased to back voluntary products/obligations or sustainability claims.

NYSERDA would allocate the RECs based upon the following:

- If the demand for Tier 1 RECs is below the expected Tier 1 presale inventory, each organization would be allocated a quantity of RECs equal to their order quantity; or
- If total order quantity is above the expected Tier 1 REC inventory, each organization would receive a pro-rata share of Tier 1 RECs based upon their total order quantity.

#### 5.2.6 Annual Tier 1 REC Presale Invoices

In order to allow development of a robust voluntary REC purchase market NYSERDA anticipates the need for the development of an automated process when the demand for Tier 1 RECs reaches a certain level. When determined to be necessary, NYSERDA would request appropriate funding for an automated process in its annual CES Administrative Funding Request.

Invoices would be distributed within approximately 7 business days from the end of each presale period. The Purchasers' payment terms would be net 30 days. If the full funds are not transferred to NYSERDA according to the payment terms, NYSERDA would reserve the right to cancel the Purchaser's order.

NYSERDA proposes that the proceeds from the annual Tier 1 REC presale be considered Tier 1 annual revenue and included in the reconciliation process discussed in Section 6.6.

## 5.3 Annual Tier 1 REC Resale

NYSERDA requests the ability to hold a Tier 1 REC resale at the end of each compliance year if there is sufficient demand for such and NYSERDA has a sufficient volume of Tier 1 RECs. At this juncture, NYSERDA believes that the proposed Tier 1 presale approach would meet the needs of both the various market participants and NYSERDA. It is possible that there could be additional sufficient demand for Tier 1 RECs from voluntary purchasers after the end of the calendar year. NYSERDA would begin voluntary resales no sooner than the 2025 compliance year, if this petition is adopted, and would consult with Staff before initiating any such voluntary resales.

If NYSERDA were to hold a Tier 1 REC resale, it is anticipated that the Tier 1 RECs would be priced at the actual weighted average price, plus any applicable administrative adder. NYSERDA proposes to use the same sale methodologies for Resale as it would for Presale as described above in Section 5.2.3 with one substantive difference; i.e., NYSERDA requests the ability to design an auction process that would sell at or above NYSERDA's actual (rather than forecasted) net-weighted average cost to procure RECs for the compliance year. This auction mechanism would enable NYSERDA to minimize ratepayer impacts from the program by maximizing the potential purchase volume and price for Tier 1 RECs for sale to the voluntary market. Any revenue from a Tier 1 REC resale would be treated as Tier 1 annual sale revenue and included in the reconciliation process discussed in Section 6.6.

## 5.4 REC Transfers

Tier 1 REC transfers via NYGATS from NYSERDA to a voluntary Purchaser's NYGATS account would occur after the Tier 1 compliance year is complete. This process would occur for Tier 1 RECs under long-term contracts, annual presale contracts, and annual resale contracts. Account holders would have 14 days to accept the pending transfer from NYSERDA per the NYGATS Operating Rules.

## 5.5 Transferability and Banking

Both the Tier 1 RECs purchased and sold by NYSERDA and the VDER Tier 1 RECs procured by the IOUs have restrictions placed upon them by previous Commission orders. If this petition is approved, NYSERDA has initially identified updates that would need to be made related to restrictions primarily related to transferability. NYSERDA proposes that any modifications deemed necessary but not identified at this point be reviewed with Staff prior to changes being implemented. NYGATS account holders, including voluntary Purchasers, would not be allowed to transfer Tier 1 RECs purchased from NYSERDA.

#### 5.5.1 Non-VDER Tier 1 RECs

Currently, there are specific restrictions placed on Tier 1 RECs sold by NYSERDA as well as Tier 1 RECs in general.<sup>41</sup> NYSERDA proposes the following updates to Tier 1 REC characteristics:

- Remove the banking restriction from Tier 1 RECs
- NYGATS account holders would not be allowed to transfer Tier 1 RECs purchased from NYSERDA

#### 5.5.2 VDER Tier 1 RECs

The VDER Tier 1 RECs also have restrictions that would need to be addressed if this petition is approved. 42 NYSERDA proposes the following updates to the VDER Tier 1 requirements:

- Allow VDER Tier 1 RECs to be transferred to NYSERDA's NYGATS account via a standardized agreement.
- Allow VDER Tier 1 RECs acquired by NYSERDA to be resold by NYSERDA to NYGATS account holders.
- NYGATS account holders would not be allowed to transfer VDER Tier 1 RECs purchased from NYSERDA.

## 6. LSE CES-Obligation and Reconciliation

This section includes NYSERDA's proposed approach to reconcile LSE obligations under the proposed load share framework set forth in this petition. This proposed approach is very similar to the processes currently utilized for reconciliation of other CES Tiers. If this petition is approved, NYSERDA would execute form contracts with LSEs, as set forth in Appendix A to this petition, that would memorialize the LSE load share obligation requirements described below.

## 6.1 Revised CES LSE Obligation

This section addresses how each LSE's initial Tier 1 REC obligation would be calculated and how LSEs would remit Tier 1 REC obligation payments. Under the new method, a uniform wholesale per MWh charge would be applied to each LSE's actual wholesale load to calculate their monthly Tier 1 REC obligation payments. This "pay-as-you-go" payment methodology was originally adopted through the

<sup>&</sup>lt;sup>41</sup> 15-E-0302, supra, Clean Energy Standard Final Phase 1 Implementation Plan, (filed March 24, 2017), at. 31.

<sup>&</sup>lt;sup>42</sup> Case 15-E-0751, <u>supra</u>, Order on Net Energy Metering Transition, Phase One of Value of Distributed Energy Resources, and Related Matters (issued and effective March 9, 2017) at. Appendix B, B-1.

ZEC Implementation Order. 43 It provides NYSERDA with necessary operating liquidity to continue to purchase Tier 1 RECs and provides LSEs with a more uniform payment structure.

#### 6.2 LSE Tier 1 REC Rate

Beginning January 1, 2025, and reoccurring each year thereafter, NYSERDA would determine, in collaboration with Staff, the dollar per MWh charge (LSE Tier 1 REC Rate) owed by each LSE for the next compliance year of the Tier 1 program. The LSE Tier 1 REC Rate would be used by all LSEs and NYSERDA to determine the monthly payment an LSE would be responsible for making to NYSERDA. The LSE Tier 1 REC Rate would be a wholesale rate that would be applied to the wholesale load data NYSERDA receives from the NYISO. <sup>44</sup> The cost component of the LSE Tier 1 REC Rate would be based on the total forecasted cost for NYSERDA to purchase Tier 1 RECs. The load component of the LSE Tier 1 REC Rate would be based on statewide forecasted load.

The LSE Tier 1 REC Rate to be paid by each LSE for the compliance year would be calculated according to the following formula:

LSE Tier 1 REC Rate = (NYSERDA's estimated total cost to procure Tier 1 RECs – Long-Term Contract Revenue – Tier 1 Annual Revenue) / Forecasted statewide electric load <sup>45</sup>

This "pay-as-you-go" payment methodology relies on an LSE's monthly wholesale load requirements for their retail customers. NYSERDA would utilize Version 1<sup>46</sup> of the total LSE load data, as settled by the New York Independent System Operator (NYISO) each month, as a basis for each LSE's monthly payment to NYSERDA.

An LSE's monthly Tier 1 payment obligation would be calculated using the LSE Tier 1 REC Rate, the number of MWh the LSE served, using the NYISO Version 1 load data and a Load Modifier Rate, according to the following formula:

LSE Tier 1 monthly payment obligation = (LSE Tier 1 REC Rate) x (LSE's Version 1 MWh) x (Load Modifier Rate)

A final reconciliation would occur in June after the close of each year as described in Section 6.6.

## 6.2.1 Cost Component

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The cost component of the LSE Tier 1 REC Rate would be the cost for NYSERDA to procure Tier 1 RECs from the Large-Scale Renewable RFPs, plus the cost of VDER Tier 1 RECs, plus any Commission-approved administrative adder less any sales made through the voluntary sale process. It should be noted that NYSERDA LSR Tier 1 RECs can vary in both quantity and price, which introduces a degree of uncertainty. This is balanced by the VDER Tier 1 RECs which have price certainty. NYSERDA recognizes that with the implementation of index-priced RECs, there could be a variation between the forecasted Tier 1 REC price and the actual price NYSERDA pays for Tier 1 RECs. NYSERDA would

<sup>&</sup>lt;sup>43</sup> Case 15-E-0302, <u>supra</u>, Order Approving Zero-Emissions Credit Implementation Plan with Modifications (issued and effective September 20, 2019) at 14.

<sup>&</sup>lt;sup>44</sup> It should be noted that the LSE TIER 1 REC Rate is based on wholesale purchases and not retail sales; the wholesale rate must be adjusted to account for delivery losses that occur between the LSE's wholesale purchases from the NYISO and retail sales to customers.

<sup>&</sup>lt;sup>45</sup> Forecasted statewide electric load is an estimate by NYSERDA and Staff based on information from the NYISO's Load & Capacity Data Report (NYISO Goldbook).

<sup>&</sup>lt;sup>46</sup> NYISO Version 1 load data is part of the NYISO settlement process. This is the initial monthly billing period data from the NYISO.

review the Tier 1 REC cost estimate forecast with Staff to ensure concurrence in an effort to minimize the variation between the estimated cost and the actual cost that would be utilized in the annual Tier 1 REC reconciliation. In short, the cost component of the LSE Tier 1 REC rate is the estimated cost NYSERDA is expected to incur to purchase Tier 1 RECs during the compliance period. Any discrepancies between projected costs and actual costs will be settled during the annual reconciliation process discussed in Section 6.6.

#### 6.2.2 Load Component

Transitioning to this new approach would place additional importance on load forecasting, as such forecasts would be used to determine the LSE Tier 1 REC Rate. If actual statewide load is less than the forecasted statewide load used to determine the LSE Tier 1 REC Rate, NYSERDA would be short in its collections to purchase Tier 1 RECs. Conversely, if the actual statewide load exceeds the forecasted statewide load, excess funds would be collected by NYSERDA from LSEs.

To provide process transparency, NYSERDA and Staff would use a published forecast, such as the Baseline Forecast of Annual Energy & Coincident Peak Demand that Reflects Impacts of Energy Savings Programs & Behind-the-Meter Generation (Base Forecast), which is published annually in the NYISO's Goldbook, as the basis of determining the statewide load component.

## 6.3 Load Modifier Rate

Each of the IOUs and some of the municipal utilities have load modifiers which are added to their NYISO Version 2 reported load. As part of the ZEC Implementation Plan, NYSERDA conferred with the affected entities and determined that a load modifier rate could be used to adjust their monthly payments to NYSERDA. Under the proposed transition, an annual load modifier rate, based on load modifier generation data from the previous year, would also be applied. In consultation with Staff and LSEs, NYSERDA would calculate the load modifier rate for each LSE prior to the start of each compliance year. The purpose of applying the load modifier rate is to better estimate the affected entities load with the goal of reducing reconciliation amounts.

#### 6.4 Notification/Publication

NYSERDA would notify each LSE of the LSE Tier 1 REC Rate for the upcoming year as well as any load modifier adjustments and a load modifier rate, if applicable, by e-mail after it has been calculated by NYSERDA and Staff. This notification would occur after Commission approval of any NYSERDA administrative adder for the compliance year but at least two months before the commencement of a compliance year. NYSERDA would also publish the LSE Tier 1 REC Rate on the NYSERDA website.

## 6.5 Tier 1 Obligation Payment Determination

The Tier 1 obligation payment determination would utilize the "pay-as-you-go" payment methodology developed under the ZEC Implementation Plan.<sup>47</sup> This process relies on an LSE's monthly wholesale load requirements for their retail customers. NYSERDA would utilize Version 1 of the total LSE load data, as settled by the NYISO each month, as a basis for each LSE's monthly payment to NYSERDA. NYSERDA typically receives monthly load data from the NYISO on or around the 15th day of the following month. NYSERDA would then determine the LSE's Tier 1 monthly payment obligation to NYSERDA using the formula specified in Section 6.2 and issue an invoice as depicted in Figure 1. LSEs

<sup>47</sup> Case 15-E-0302, <u>supra</u>, Final Zero Emissions Credit Implementation Plan, (issued and effective November 14, 2019) at 2.

would submit their payment to NYSERDA within 15 days from the issuance of the invoice. The pay-as-you go method would likely result in LSEs having a varying payment obligation each month.

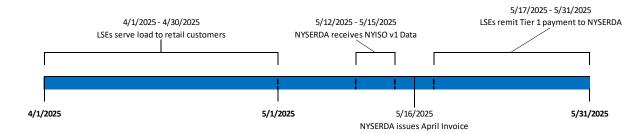


Figure 1: Timeline for LSE Payment Obligation

#### 6.6 CES-Obligated LSE Reconciliation

The reconciliation process would occur after the Tier 1 compliance year ends on December 31st each year. NYSERDA would reconcile financial obligations to Tier 1 contracted generators and the IOUs would submit their final VDER quantity to Staff and NYSERDA. NYSERDA would next offset the total financial obligation to Tier 1 contracted generators and IOU VDERs with any Tier 1 Long-Term Contract Revenue as well as any Tier 1 annual presale or resale revenue to determine the net LSE financial obligation. NYSERDA would reconcile the funds collected from each LSE to the net LSE financial obligation necessary to meet their requirement based on the Version 2 load data that is provided from the NYISO and recorded in NYGATS. This load would be adjusted for load modifiers. This reconciliation would account for the actual adjusted statewide load, the actual number of Tier 1 RECs purchased by NYSERDA, the actual price paid by NYSERDA for those Tier 1 RECs, and any Tier 1 revenue from the long-term or annual voluntary sales. NYGATS account holders, including LSEs, would not be allowed to transfer Tier 1 RECs purchased from NYSERDA.

## 6.7 NYSERDA Agreements with LSEs

NYSERDA would establish new agreements with LSEs to reflect the terms of any Order stemming from this petition, if approved. The contracts would be modified as needed in subsequent years. A Tier 1 form agreement is attached to this petition as Appendix A. NYSERDA proposes that all LSEs are required to accept the agreement within 60 days of any order approving this petition. NYSERDA would inform LSEs on acceptance procedures within 30 days of such an order.

## 7. Conclusion

This petition proposes to transition the CES Tier 1 compliance obligation for LSEs away from the current approach and toward a load share obligation approach, similar to other existing LSE obligations under the CES as described herein. There are several benefits of transitioning from an LSE obligation percentage that utilized a market-based approach to a method using LSE load share to determine each LSE's obligation including:

• The ability to hold voluntary Tier 1 REC sales that could transition costs of the Tier 1 component of the CES from obligated ratepayers to the voluntary market. Under the current process, annual voluntary sales are not compatible with an obligation construct where LSEs must make ACPs when there is a shortfall of Tier 1 RECs in the market.

- The elimination of the need for ACPs. The shortage of Tier 1 RECs has led to significant quantities of ACPs from LSEs and, ultimately, ratepayers. Transitioning to a load share approach would result in NYSERDA only collecting enough funds to meet its contractual requirements for a compliance year plus any Commission-approved administrative adder.
- The Tier 1 obligation is currently the only obligation under the CES that was implemented through an LSE obligation percentage approach. The other LSE obligations, Tier 2, Tier 3 ZEC, Tier 4 and Offshore Wind, are all based upon an LSE's load share. By transitioning the Tier 1 obligation to a load share, all of the CES obligations would be consistent across all programs and enable both LSEs and NYSERDA to gain administration efficiencies.

These benefits would accrue to many stakeholders involved with the CES. Outreach has shown the idea of making this transition to be popular and supported by a broad array of stakeholders. Furthermore, this transition is consistent with the Climate Act. As the New York Tier 1 market has evolved, it has become clear that LSEs are mainly relying on VDER purchases and NYSERDA's Tier 1 large-scale renewables procurements to create the supply of Tier 1 RECs needed for obligation fulfillment. With a robust pipeline of large-scale renewable projects in development and continued NYSERDA solicitations, the transition to a load share construct would continue progress towards achieving the Climate Act goals while also eliminating ACPs, enabling voluntary sales, reducing ratepayer impact, and providing administrative efficiency for LSEs. For these reasons, NYSERDA respectfully requests the Commission to consider this petition to transition the CES Tier 1 compliance obligation for LSEs away from the current approach and toward a load share obligation as described herein.

Dated: November 9, 2022

Respectfully submitted,

Thomas J. King Senior Counsel

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## **Appendix A: Tier 1 Form Agreement**

# TIER 1 RENEWABLE ENERGY CERTIFICATE PURCHASE AND SALE AGREEMENT

This Agreement (the "Agreement") is made as of [] ("Effective Date") by and between the
New York State Energy Research and Development Authority, a public benefit corporation,
having a principal business address of 17 Columbia Circle, Albany, New York 12203
("NYSERDA"), and the Load Serving Entity entering this Agreement ("LSE Buyer").
NYSERDA and LSE Buyer are each referred to herein as a "Party" and are collectively referred
to herein as the "Parties."

#### **RECITALS:**

WHEREAS, the New York State Public Service Commission ("PSC") through its "Order Adopting a Clean Energy Standard" ("2016 CES Order") established the Clean Energy Standard ("CES") and modified further refined and modified the CES through a series of Orders under Case 15-E-0302 including the "Order Adopting Modifications to the Clean Energy Standard" (collectively, the "CES Orders"); and

WHEREAS, the CES Orders direct NYSERDA to administer competitive Requests for Proposals ("RFPs") for the purchase of Tier 1 RECs (defined below) from eligible generating facilities; and

WHEREAS, the CES Orders authorize NYSERDA to enter into agreements with eligible facilities receiving competitive awards under the Tier 1 RFPs; and

WHEREAS, the PSC issued "[Tier 1 Modification Order]" on [ ] ("Tier 1 Modification Order"), which modified the obligations of LSEs with respect to Tier 1 of the CES, directing that each LSE purchase Tier 1 RECs from NYSERDA at a uniform wholesale per MWh charge in an amount based upon each LSE Buyer's proportional load share; and

WHEREAS, the Tier 1 Modification Order approved this form of agreement for the procurement of Tier 1 RECs by LSEs from NYSERDA; and

NOW, THEREFORE, in consideration of the foregoing and of the mutual promises hereinafter set forth, which the Parties agree is sufficient, and the Parties, intending to be legally bound, agree as follows:

## **ARTICLE 1: DEFINITIONS**

1.1	<u>Definitions</u> . I	In addition to a	ny other tern	is defined	herein,	the following	terms	shall	have
	the meaning ascribed to them below:								

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<sup>&</sup>lt;sup>48</sup> 2016 Order.

<sup>&</sup>lt;sup>49</sup> <u>Id.</u>

- (a) "Administrative Adder" means the total annual dollar amount of any adder or other charge approved by the Commission to be paid by LSEs to NYSERDA in their purchases from NYSERDA of Tier 1 RECs.
- (b) "Agreement" means this Tier 1 Renewable Energy Certificate Purchase and Sale Agreement, including Exhibits A (Standard Terms and Conditions for All NYSERDA Agreements); B (NYSERDA Prompt Payment Policy Statement)<sup>50</sup>; all of which are incorporated herein and made part hereof.
- (c) "Annual Tier 1 Obligation Amount" shall be calculated as an amount equal to (i) the sum of (x) the Total Tier 1 Net Expenditure *plus* (y) the Administrative Adder *multiplied by* (ii) the LSE Buyer Load Share. Restated as a formula, Annual Tier 1 Obligation Amount = (Total Tier 1 Net Expenditure + Administrative Adder) \* LSE Buyer Load Share.
- (d) "Annual Tier 1 REC Quantity" shall be calculated as the quantity of RECs equal to the product of (i) the Total Annual NYSERDA Retained Tier 1 RECs *multiplied by* the LSE Buyer Load Share.
- (e) "Compliance Year" shall mean January 1 to December 31 of each year during which NYSERDA is purchasing Tier 1 RECs.
- (f) "Annual Settlement Payment" shall mean the final settlement payment due to either LSE Buyer or NYSERDA as calculated at the end of each Compliance Year pursuant to Section 2.7.
- (g) "<u>Energy Services Company</u>" or "<u>ESCO</u>" means any eligible competitive energy services company operating in New York State pursuant to the Uniform Business Practices approved by the PSC.
- (h) "<u>Load Modifier</u>" means the adjustment made by certain LSEs to account for the fact that NYISO data may not accurately capture the load in New York State served by those LSEs due to some of such load being served other than through the NYISO wholesale market.
- (i) "<u>Load Modifier Projection</u>" means the estimated Load Modifier, if any, applicable to the LSE Buyer as determined by NYSERDA each Compliance Year in accordance with the CES Orders based on information provided by LSE Buyer.
- (j) "<u>Load Serving Entity</u>" or "<u>LSE</u>" means any entity or individual that sells retail commodity electricity supply to an end-use customer located in New York State, including any ESCO and each electric distribution company regulated by the PSC, serving in their roles as electric commodity supplier of last resort, jurisdictional

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<sup>&</sup>lt;sup>50</sup> Available at: https://www.nyserda.ny.gov/Funding-Opportunities/Standard-Forms-and-Agreements

municipal utilities, community choice aggregators not otherwise served by an ESCO, customers purchasing power directly from NYISO, and Long Island Power Authority ("LIPA") and the New York Power Authority ("NYPA") to the extent LIPA and NYPA have voluntarily agreed to act as LSEs.

- (k) "LSE Buyer Load Share" means the percentage of the total electric energy load in New York State that is served by LSE Buyer, incorporating any adjustment to NYISO load share data based on the LSE Buyer's Load Modifier (if applicable), during such Compliance Year.
- (1) "LSE Tier 1 REC Rate" means the per MWh charge used by all LSEs and NYSERDA as calculated by the formula adopted in the Tier 1 Modification Order and as posted on NYSERDA's website, including any administrative adder approved by the Commission.<sup>51</sup>
- (m)"Monthly Obligation Payment" means the monthly payment due from LSE Buyer to NYSERDA, calculated as the product of (i) the wholesale load served by LSE Buyer, in MWh, for the applicable month based on NYISO Version 1 data or such other data generally used by NYGATS for similar purposes at such time, as adjusted by the Load Modifier Projection, if any, applicable to the LSE Buyer, *multiplied by* (ii) the LSE Tier 1 REC Rate.
- (n) "NYGATS" means the New York Generation Attribute Tracking System, the tracking system that records electricity generation attribute information within New York State, and processes generation attribute information from energy imported and consumed within New York State, as a basis for creating tradable generation attribute certificates, including Tier 1 RECs.
- (o) "NYGATS Operating Rules" means the rules governing the operation of the NYGATS by NYSERDA and its designated NYGATS Administrator, and the participation in and use of the NYGATS by users. The Operating Rules describe how the system is operated and delineate the roles, requirements and responsibilities of all parties.<sup>52</sup>
- (p) "NYISO" means the New York Independent System Operator.
- (q) "New York State Public Service Commission" or "PSC" means the commission duly authorized to operate in New York State pursuant to Articles 1 and 2 of the Public Service Law.
- (r) "<u>Total Annual NYSERDA Retained Tier 1 RECs</u>" means the total number of Tier 1 RECs purchased by NYSERDA during the Compliance Year *minus* the number of Tier 1 RECs sold by NYSERDA during such Compliance Year.

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<sup>&</sup>lt;sup>51</sup> CES Modification Order.

<sup>&</sup>lt;sup>52</sup> Available at: https://www.nyserda.ny.gov/All-Programs/Programs/NYGATS/Registration-Documents

- (s) "<u>Total Tier 1 Net Expenditure</u>" shall mean the total dollars expended by NYSERDA to purchase Tier 1 RECs during the Compliance Year *minus* all revenues received by NYSERDA from Voluntary Sales of Tier 1 RECs during such Compliance Year.
- (t) "<u>Tier 1 RECs</u>" means renewable energy certificates generated by NYGATS representing the environmental attributes associated with electrical energy produced by Tier 1 eligible electric generation sources. Each Tier 1 REC represents the environmental attributes associated with one (1) megawatt-hour of electrical energy.
- (u) "<u>Voluntary Sales</u>" means any sales of Tier 1 RECs by NYSERDA other than those made for purposes of CES compliance.

#### ARTICLE 2: PURCHASE AND SALE OF TIER 1 RECS

- 2.1 <u>Procurement</u>. Subject to the terms and conditions of this Agreement, (a) NYSERDA agrees to sell to LSE Buyer, and LSE Buyer agrees to purchase from NYSERDA, the Annual Tier 1 REC Quantity of Tier 1 RECs in each Compliance Year and (b) LSE Buyer agrees to pay the Annual Tier 1 Obligation Amount for such Tier 1 RECs. LSE Buyer shall pay the Monthly Obligation Payment each month in accordance with the provisions below, and the Parties shall carry out the settlement and reconciliation process described in Section 2.7 each Compliance Year.
- 2.2 <u>Transfer and Retirement</u>. Upon conclusion of the settlement and reconciliation process described in Section 2.7, NYSERDA will transfer in NYGATS to LSE Buyer, Tier 1 RECs for which LSE Buyer has provided payment to NYSERDA for purposes of Tier 1 of the CES compliance in accordance with this Agreement. LSE Buyer shall promptly retire in NYGATS for purposes of Tier 1 compliance all Tier 1 RECs received from NYSERDA. LSE Buyer shall not transfer, pledge, assign or otherwise dispose of Tier 1 RECs received from NYSERDA to a third party.
- 2.3 <u>Monthly Invoicing</u>. NYSERDA will provide invoices to the LSE Buyer on a monthly basis for the Monthly Obligation Payment.
- 2.4 <u>Monthly Payments</u>. Payments in the amount of the Monthly Obligation Payment shall be due to NYSERDA within fifteen (15) days of the invoice date. Any and all payments due to NYSERDA shall be made by wire/ACH payment using electronic banking information provided by NYSERDA. When making payment, LSE Buyer shall <u>include the Customer ID</u> that NYSERDA previously sent to LSE Buyer by e-mail and is available in NYGATS.
- 2.5 <u>Taxes/Fees</u>. NYSERDA shall pay any taxes or other fees, if any, imposed on the creation of Tier 1 RECs in NYGATS.
- 2.6 <u>Term.</u> The purchase and sale obligations under this Agreement shall commence in Compliance Year 2025 and remain in effect until the date on which all of NYSERDA's

obligations to purchase Tier 1 RECs pursuant to agreements entered into in accordance with Tier 1 of the Clean Energy Standard have expired or been terminated.

- 2.7. <u>Annual Settlement</u>. After the required data becomes available following each Compliance Year, the Parties will undertake the following on a timely basis:
  - (a) NYSERDA shall calculate LSE Buyer's Annual Tier 1 Obligation Amount for each Compliance Year based on the NYISO Version 2 of the LSE load data or such other data generally used by NYGATS for similar purposes at such time.
  - (b) Should the aggregate amount of Monthly Obligation Payments paid by LSE Buyer in a Compliance Year exceed the Annual Tier 1 Obligation Amount for that Compliance Year, NYSERDA shall pay LSE Buyer the difference between such amounts.
  - (c) Should the aggregate amount of Monthly Obligation Payments paid by LSE Buyer in a Compliance Year be less than the Annual Tier 1 REC Obligation Amount for that Compliance Year, LSE Buyer shall pay NYSERDA the difference between such amounts.
- 2.8 <u>Netting and Set-Off.</u> If at any time during the term of this Agreement there is a written agreement between the Parties pursuant to which NYSERDA purchases Tier 1 RECs from LSE Buyer ("Other Tier 1 Agreement"), the Parties agree that, to the extent agreed in the Other Tier 1 Agreement, amounts due from LSE Buyer to NYSERDA hereunder may be set off or netted against payments due from NYSERDA to LSE Buyer under the Other Tier 1 Agreement.

## **ARTICLE 3: REPRESENTATIONS AND WARRANTIES**

- 3.1 <u>NYSERDA Representations and Warranties</u>. NYSERDA hereby represents and warrants to LSE Buyer as follows:
  - (a) NYSERDA has and, at all times during the Term will have, all necessary power and authority to execute this Agreement and to perform its obligations hereunder.
  - (b) The execution of and performance under this Agreement by NYSERDA has been duly authorized by all necessary action and does not violate any of the terms or conditions of NYSERDA governing documents, or any contract to which it is a party, or any law, rule, regulation, order, judgment or other legal or regulatory determination applicable to NYSERDA. This Agreement constitutes the valid and binding obligation of NYSERDA enforceable against it in accordance with its terms, subject to the effects of bankruptcy, insolvency, reorganization, moratorium and similar laws affecting enforcement of creditors' rights and remedies generally and to general principles of equity.
  - (c) There is no pending or (to NYSERDA's knowledge) threatened litigation, arbitration or administrative proceeding that materially adversely affects NYSERDA's ability to perform its obligations under this Agreement.

- (d) The Tier 1 payments made by LSE Buyer to NYSERDA hereunder shall be made for compliance under the CES Orders as modified by the Tier 1 Modification Order.
- (e) EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NYSERDA EXPRESSLY DISCLAIMS ANY OTHER REPRESENTATIONS OR WARRANTIES, WHETHER WRITTEN OR ORAL, AND WHETHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY REPRESENTATION OR WARRANTY WITH RESPECT TO CONFORMITY TO MODELS OR SAMPLES, MERCHANTABILITY, OR FITNESS FOR ANY PARTICULAR PURPOSE.
- 3.2 <u>LSE Buyer Representations and Warranties</u>. LSE Buyer hereby represents and warrants to NYSERDA as follows:
  - (a) LSE Buyer is duly organized, validly existing and in good standing and has the requisite power and authority to own, lease and operate its properties and to carry on its business as being conducted on the Effective Date. LSE Buyer has, and at all times during the Term will have, all necessary power and authority to execute this Agreement and to perform its obligations hereunder.
  - (b) The execution of and performance by LSE Buyer under this Agreement has been duly authorized by all necessary action and does not violate any of the terms or conditions of LSE Buyer's governing documents, or any contract to which it is a party, or any law, rule, regulation, order, judgment or other legal or regulatory determination applicable to LSE Buyer. This Agreement constitutes the valid and binding obligation of the LSE Buyer enforceable against it in accordance with its terms, subject to the effects of bankruptcy, insolvency, reorganization, moratorium and similar laws affecting enforcement of creditors' rights and remedies generally and to general principles of equity.
  - (c) There is no pending or (to LSE Buyer's knowledge) threatened litigation or administrative proceeding against LSE Buyer that materially and adversely affects LSE Buyer's ability to perform its obligations under this Agreement.
  - (d) LSE Buyer has, and at all times during the Term will use reasonable efforts to maintain, the financial capability to perform its obligations hereunder.
  - (e) LSE Buyer is an Account Holder as defined in the NYGATS Operating Rules.

#### **ARTICLE 4: EVENTS OF DEFAULT**

- 4.1 <u>Events of Default</u>. For purposes of and during the Term, each of the following shall constitute an event of default ("Event of Default") by a Party:
  - (a) if a Party materially breaches any or all of its obligations as described in this Agreement and such breach is not cured within fifteen (15) Business Days of written notice of such breach from the other Party;

- (b) if any representation or warranty made by a Party in Article 3 of this Agreement proves to have been misleading or false in any material respect when made; and/or
- (c) if a Party:
  - (i) makes an assignment or any general arrangement for the benefit of its creditors;
  - (ii) files a petition or otherwise commences, authorizes or acquiesces in the commencement of a proceeding or cause under any bankruptcy or similar law for the protection of creditors, or has such a petition filed against it;
  - (iii) otherwise becomes bankrupt or insolvent (however evidenced); or
  - (iv) becomes unable to pay its debts as they become due.

## **ARTICLE 5: REMEDIES UPON DEFAULT**

- 5.1 Remedies. Upon an Event of Default, the non-defaulting Party may (a) terminate this Agreement upon written notice to the defaulting Party, (b) withhold any payments due in respect of this Agreement, (c) set off any payments due against any other credits or payments under other agreements between the Parties, (d) withhold the transfer of Tier 1 RECs to the defaulting Party, and/or (e) exercise its legal rights to secure payment of amounts due and owing to the non-defaulting Party by the defaulting Party. Notices by LSE Buyer pursuant to this section shall be served on NYSERDA and the PSC. NYSERDA may enforce this Agreement and pursue the collection of any unpaid portion of the Monthly Obligation Payment, Annual Settlement Payment or any other amounts due to NYSERDA under this Agreement by referring the matter to the New York State Attorney General or by any other legal means.
- 5.2 <u>Exclusive Remedy</u>. The remedies set forth in this Article 5 shall be the sole and exclusive remedies of the respective parties in the event of a default, and a party's liability shall be limited as set forth in this section. All other remedies or damages at law are hereby waived.
- 5.3 <u>Limitation of Liability</u>. In the event of a default, the defaulting party's liability shall be limited as set forth herein. In no event shall any other liability be incurred by either Party for any obligations that arise under this Agreement, including (but not limited to) liability for consequential, incidental, punitive, exemplary, or indirect damages in tort, contract, or otherwise.

## **ARTICLE 6: NOTICES**

## 6.1 <u>Notices</u>.

- (a) All notices, requests, consents, approvals and other communications which may or are required to be given by either party to the other under this Agreement shall be in writing and shall be transmitted either:
  - (1) via certified or registered United States mail, return receipt requested;

- (2) by personal delivery;
- (3) by expedited delivery service; or
- (4) by e-mail, return receipt requested.

Such notices shall be addressed as follows, or to such different addresses as the parties may from time-to-time designate as set forth in paragraph (c) below:

To LSE Buyer: At address, electronic mail addresses confirmed through

prior communications

To NYSERDA: NYSERDA

Attn: Office of the General Counsel

17 Columbia Circle

Albany, New York 12203-6399

Email address: <a href="mailto:ceslegal@nyserda.ny.gov">ceslegal@nyserda.ny.gov</a>

With a copy to: NYSERDA

Attn: Large Scale Renewables

17 Columbia Circle

Albany, New York 12203-6399 Email address: <a href="mailto:ces@nyserda.ny.gov">ces@nyserda.ny.gov</a>

- (b) Any such notice shall be deemed to have been given either at the time of personal delivery or, in the case of expedited delivery service or certified or registered United States mail, as of the date of first attempted delivery at the address and in the manner provided herein, or in the case of facsimile transmission or email, upon receipt of an email acknowledgement of receipt.
- (c) The parties may, from time to time, specify any new or different address in the United States as their address for purpose of receiving notice under this Agreement by giving fifteen (15) days written notice to the other party sent in accordance herewith. The parties agree to mutually designate individuals as their respective representatives for the purposes of receiving notices under this Agreement. Additional individuals may be designated in writing by the parties for purposes of implementation and administration/billing, resolving issues and problems and/or for dispute resolution.
- 6.2 The addresses for notice and payment specified in Sections 6.1 may be changed from time to time by written notice by either Party to the other Party without amendment of this Agreement.

#### **ARTICLE 7: MISCELLANEOUS**

- 7.1 Force Majeure. Neither party hereto shall be liable for any failure or delay in the performance of its respective obligations hereunder if and to the extent that such delay or failure is due to a cause or circumstance beyond the reasonable control of such party, including, without limitation, acts of God or the public enemy, expropriation or confiscation of land or facilities, compliance with any law, order or request of any Federal, State, municipal or local governmental authority, acts of war, rebellion or sabotage or damage resulting therefrom, fires, floods, storms, explosions, accidents, riots, or strikes. In the event that such failure or delay occurs, the claiming Party shall notify the other Party of the occurrence thereof as soon as possible, shall use reasonable efforts to resume performance as soon as possible, and shall regularly consult with the other Party during the pendency of the force majeure event. In the event that the force majeure event lasts more than forty-five (45) days, NYSERDA may terminate this Agreement with no further obligation or liability to LSE Buyer other than to transfer to LSE Buyer for Tier 1 REC compliance purposes any Tier 1 RECs for which LSE Buyer has made payment prior to termination.
- 7.2 <u>Severability</u>. If any provision of this Agreement shall be declared by any court of competent jurisdiction to be illegal, void or unenforceable, all other provisions of this Agreement shall not be affected and shall remain in full force and effect. If any provision of this Agreement is so broad as to be unenforceable, that provision shall be interpreted to be only so broad as will enable it to be enforced.
- 7.3 <u>Waiver</u>. No delay or omission by a Party in the exercise of any right under this Agreement shall be taken, construed or considered as a waiver or relinquishment thereof, and any such right may be exercised from time to time and as often as may be deemed expedient. If any of the terms and conditions hereof are breached and thereafter waived by a Party, such waiver shall be limited to the particular breach so waived and is not deemed to waive any other breach hereunder.
- 7.4 <u>Forward Contract</u>. Each Party represents and warrants to the other that it is a "forward contract merchant" within the meaning of the United States Bankruptcy Code, that this Agreement is a "forward contract" within the meaning of the United States Bankruptcy Code, and that the remedies identified in this Agreement shall be "contractual rights" as provided for in 11 U.S.C. § 556 as that provision may be amended from time to time.
- 7.5 Assignment. Except as specifically provided otherwise in this Section 7.5, the assignment, transfer, conveyance, subcontracting or other disposal of this Agreement or any of the LSE Buyer's rights, obligations, interests or responsibilities hereunder, in whole or in part, without the express consent in writing of NYSERDA shall be void and of no effect as to NYSERDA. Such consent shall not be unreasonably withheld. Either Party may, upon written notice, assign its rights and obligations hereunder, or transfer such rights and obligations by operation of law, to any entity with which or into which such Party shall merge or consolidate or to which such Party shall transfer all or substantially all of its assets, provided that such other entity agrees to be bound by the terms hereof and provided further, that such other entity's creditworthiness is comparable to or higher than that of such Party at the time this Agreement

was executed and such Party is not relieved of any obligation or liability hereunder as a result of such assignment.

- 7.6 Entire Agreement; Amendment. This Agreement embodies the entire agreement and understanding between NYSERDA and the LSE Buyer and, excepting any Tier 1 reconciliation process provided for by prior agreement, supersedes all prior agreements and understandings relating to the subject matter hereof, including but not limited to any prior agreement between the parties regarding the purchase and sale of Tier 1 RECs. Except as otherwise expressly provided for herein, this Agreement may be amended, modified, changed, waived, discharged or terminated only by an instrument in writing, signed by the party against which enforcement of such amendment, modification, change, waiver, discharge or termination is sought.
- 7.7 <u>All Legal Provisions Deemed Included</u>. It is the intent and understanding of LSE Buyer and NYSERDA that each and every provision of law required by the laws of the State of New York to be contained in this Agreement shall be contained herein, and if, through mistake, oversight or otherwise, any such provision is not contained herein, or is not contained herein in correct form, this Agreement shall, upon the application of either NYSERDA or the Seller, promptly be amended so as to comply strictly with the laws of the State of New York with respect to the inclusion in this Agreement of all such provisions.
- 7.8 Governing Law/Venue. This Agreement shall be governed by, and construed in accordance with the laws of the State of New York applicable to contracts executed and to be performed in New York State without regard to its conflicts of laws principles. The parties irrevocably acknowledge and accept that all actions arising under or relating to this Agreement, and the transactions contemplated hereby and thereby shall be brought exclusively in a United States District Court or New York State Court located in Albany, New York having subject matter jurisdiction over such matters, and each of the Parties hereby consents to and accepts such personal jurisdiction of, and waives any objection as to the laying of venue in, such courts for purposes of such action.
- 7.9 Intentionally left blank.
- 7.10 <u>Headings</u>. The Article and Section titles in this Agreement are only for purposes of convenience and do not form a part of this Agreement and will not be taken to qualify, explain or affect any provision thereof.
- 7.11 <u>No Third Party Beneficiaries</u>. Nothing herein is intended to or should be construed to create any rights of any kind whatsoever in third persons not parties to this Agreement.
- 7.12 Freedom of Information Law. Seller acknowledges that NYSERDA is subject to and must comply with the requirements of New York's Freedom of Information Law ("FOIL;" see Public Officers' Law Article 6); 21 NYCRR Part 501. The FOIL Law (Public Officers Law § 87(d)(2)) provides an exception to disclosure for records or portions thereof for numerous reasons, including but not limited to protected material that "are trade secrets or are submitted to an agency by a commercial enterprise or derived from information obtained from a commercial enterprise and which if disclosed would cause substantial injury to the competitive position of the subject enterprise." If NYSERDA receives a request from a third party for information or a

document received from Seller and which has been marked "Confidential" or "Proprietary," NYSERDA will process such request under the procedures provided by NYSERDA's FOIL regulations (21 NYCRR Part 501).

- 7.13 <u>Claim of Confidentiality</u>. Information of any tangible form including any document that LSE Buyer wishes to be protected from disclosure to third parties, including this Agreement must be marked "Confidential" or "Proprietary" at the time such information is provided to NYSERDA. Notwithstanding the foregoing, NYSERDA shall be permitted to report to the New York State Department of Public Service through its Records Access Officer seeking confidential treatment as appropriate, as to the amounts received from LSE Buyer for Tier 1 purchases as against the total due each month and on LSE Buyer's compliance or non-compliance, generally, with the terms of this Agreement.
- 7.14 <u>Electronic Execution</u>. LSE Buyer acknowledges, confirms and agrees that any signature (including any electronic symbol or process attached to, or associated with, this standard Tier 1 Renewable Energy Certificate Purchase and Sale Agreement or other record and adopted by LSE Buyer with the intent to sign, authenticate or accept such contract or record hereto or to any other certificate, agreement or document necessary to this transaction shall have the same legal validity and enforceability as a manually executed signature or use of a paper-based recordkeeping system to the fullest extent permitted by applicable law, including the Federal <u>Electronic Signatures</u> in Global and National Commerce Act, the New York State Electronic Signatures and Records Act, and the parties hereby waive any objection to the contrary.