

**STATE OF NEW HAMPSHIRE**  
**BEFORE THE**  
**NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION**

**EnerNOC, Inc.**

**DOCKET NO. \_\_\_\_\_**

**Petition for Investigation into the**  
**Use of Live, Online Reverse Auction in Electric Procurement**

**JOINT PRE-FILED DIRECT TESTIMONY**

**OF**

**Sean Perry and Greg Geller**  
**EnerNOC, Inc.**

**September 7, 2018**

## TABLE OF CONTENTS

<b>I. PROFESSIONAL AND EDUCATIONAL BACKGROUND.....</b>	<b>3</b>
<b>II. BACKGROUND ON ENERNOC AND ITS TECHNOLOGY-ENABLED PROCUREMENT SERVICES.....</b>	<b>6</b>
<b>III. COMPARISON OF PROCUREMENT METHODS.....</b>	<b>11</b>
<b>IV. ADVANTAGES OF TECHNOLOGY-ENABLED AUCTIONS .....</b>	<b>16</b>
<b>V. INTERNATIONAL AND ACADEMIC OPINIONS OF TECHNOLOGY-ENABLED AUCTIONS.....</b>	<b>21</b>
<b>VI. STATE CASE STUDIES USING LIVE, ONLINE REVERSE AUCTIONS.....</b>	<b>25</b>
<b>VII. FEDERAL USE OF LIVE, ONLINE REVERSE AUCTIONS.....</b>	<b>28</b>
<b>VIII. RELIEF SOUGHT .....</b>	<b>29</b>
<b>IX. PUBLIC POLICY SUPPORT .....</b>	<b>30</b>
<b>X. IMPLEMENTING LIVE, ONLINE REVERSE AUCTIONS IN NEW HAMPSHIRE .....</b>	<b>31</b>

1 **I. PROFESSIONAL AND EDUCATIONAL BACKGROUND**

2 **Q. What is your name and what is your position with EnerNOC, Inc.?**

3 **A.** My name is Sean Perry and I am a Senior Manager of Wholesale Energy Procurement at  
4 EnerNOC.

5 **Q. Please describe your educational background.**

6 **A.** I received a Bachelor of Science with a double major in Finance and Management from  
7 Roger Williams University (Bristol, RI) in 2010.

8 **Q. Please describe your professional background.**

9 **A.** I am a procurement professional with over seven years of experience conducting wholesale  
10 power and natural gas procurements for energy consulting and software firms. I have deep  
11 experience in the strategic planning, facilitation, overall program implementation for, and  
12 execution of large-scale energy transactions, on behalf of utilities and large commercial  
13 and industrial energy consumers, using both paper and software solutions.

14 **Q. What are your responsibilities as Senior Manager of Wholesale Energy  
15 Procurement?**

16 **A.** My primary responsibilities are to design, develop, and execute strategic wholesale energy  
17 Request for Proposals (RFPs) and Requests for Bids (RFBs) for EnerNOC's wholesale  
18 customers.

19 **Q. What do you consider to be your area of expertise?**

20 **A.** Wholesale markets and wholesale commodity transactions.

21 **Q. What is the purpose of your testimony?**

22 **A.** To explain how large energy users and utilities are using innovative technology solutions  
23 to transact energy commodities and how this technology can benefit default Energy  
24 Service customers in New Hampshire. Because Eversource Energy is the largest provider

1 of electricity in New Hampshire, EnerNOC is tailoring its explanation of services to  
2 Eversource's service territory.

3 **Q. What is your name and what is your position with EnerNOC, Inc.?**

4 A. My name is Greg Geller and I am a Director of Regulatory and Government Affairs at  
5 EnerNOC.

6 **Q. Please describe your educational background.**

7 A. I have a Master in Business Administration (MBA) degree from the Boston University  
8 School of Management, and a Bachelor of Arts degree from the University of Wisconsin-  
9 Madison. Relevant to energy in New England, as part of leading EnerNOC's presence in  
10 the ISO-NE market, I have completed coursework on Wholesale Electricity Markets and  
11 the Forward Capacity Market.

12 **Q. Please describe your professional background.**

13 A. Before receiving my MBA, I worked in New York City government for nearly three years  
14 as a Deputy Chief of Staff and Legislative Director to a New York City Councilwoman.  
15 While receiving my MBA, I held an internship at the offshore wind company, Deepwater  
16 Wind. Since receiving my MBA in 2010, I have served on the Regulatory and  
17 Government Affairs team at EnerNOC in roles of increasing responsibility, starting as a  
18 Specialist, then moving to a Senior Specialist, Manager, Senior Manager, and most  
19 recently in my current role as a Director.

20 **Q. What are your responsibilities as Director of Regulatory and Government Affairs?**

21 A. I lead EnerNOC's Regulatory and Government Affairs across New England and New  
22 York, including at ISO-NE and NYISO, the Public Utility Commissions, and state  
23 legislatures. I also have a team reporting to me that is responsible for Canada and the

1 Midwest. I also share responsibility for EnerNOC's efforts before the Federal Energy  
2 Regulatory Commission.

3 This work covers the entire breath of EnerNOC's services, including energy procurement.

4 **Q. What do you consider to be your areas of expertise?**

5 **A.** My areas of expertise include and are not limited to:

6 • The participation of Distributed Energy Resources in retail and wholesale markets, and the  
7 policies and market designs that will maximize the cost-effective participation of such  
8 resources

9 • Broader wholesale competitive market design, and how the functioning of wholesale  
10 markets impacts ratepayers

11 During my time at EnerNOC, I have held leading roles in the following initiatives:

12 • EnerNOC's successful effort to convince the Federal Government and the U.S. Solicitor  
13 General to seek appeal of the D.C. Circuit Court's decision in *FERC v. EPSA* and  
14 *EnerNOC v. EPSA* at the U.S. Supreme Court. In a 6-2 decision, the Supreme Court  
15 overturned the D.C. Circuit Court's decision, preserving the direct participation of demand  
16 response in wholesale markets.

17 • The creation or expansion of cost-effective state-level demand response programs in New  
18 York, Pennsylvania, Massachusetts, Rhode Island, and Missouri.

19 • Most recently (July 25, 2018), reaching a successful stakeholder compromise in the highly  
20 debated MA DPU 17-146<sup>1</sup> docket alongside stakeholders including Eversource, National  
21 Grid, the Mass. Department of Energy Resources, the Massachusetts Attorney General's

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<sup>1</sup> Inquiry by the DPU on its own Motion into the eligibility of energy storage systems to net meter pursuant to G.L. c. 164, §§ 138-140 and 220 CMR 18.00, and application of the net metering rules and regulations relating to the participation of certain net metering facilities in the Forward Capacity Market pursuant to Net Metering Tariff, D.P.U. 09-03-A (2009).

1 Office, and other clean energy industry stakeholders, where EnerNOC was one of the five  
2 clean energy companies at the negotiating table.

- 3 • The redesign of the ISO-NE and NYISO market rules pertaining to demand response and  
4 Distributed Energy Resources.
- 5 • Several FERC proceedings related to the participation of demand response, Distributed  
6 Energy Resource, and energy storage participation in wholesale markets, most recently the  
7 Notice of Proposed Rulemaking on Energy Storage and Distributed Energy Resources  
8 (Docket Nos. RM16-23-000; AD16-20-000).

9  
10 **II. BACKGROUND ON ENERNOC AND**  
11 **ITS TECHNOLOGY-ENABLED PROCUREMENT SERVICES**

12  
13 **Q. Please describe EnerNOC's corporate structure and business.**

14 **A.** EnerNOC is a subsidiary of Enel, a multinational power company and a leading integrated  
15 player in the global power, gas, and renewables markets. Enel is Europe's largest utility  
16 by market capitalization and operates in over 30 countries worldwide, producing energy  
17 with 86 GW of managed capacity. Enel distributes electricity and gas through a network  
18 of over 2 million kilometers, and with over 65 million business and household customers  
19 globally, the Group has the largest customer base among European utilities. Enel's  
20 renewables division, Enel Green Power, already manages roughly 40 GW of wind, solar,  
21 geothermal, biomass and hydropower plants in Europe, the Americas, Africa, and Asia and  
22 has recently arrived in Australia.

23 EnerNOC, acquired by Enel in August of 2017, partners with enterprises and utilities to  
24 reduce costs, manage risks, increase sustainability, and maximize the value of emerging  
25 energy technologies through customized energy management strategies. EnerNOC's

1 technology-enabled advisory solutions help large energy users and utilities create value  
2 through strategic energy procurement, energy management, and utility bill management  
3 services. Between EnerNOC, which has its headquarters in Boston, and Enel Green Power  
4 North America, which has its headquarters in Andover, MA, the Enel Group is one of the  
5 largest clean energy employers in New England. EnerNOC's presence in New Hampshire  
6 dates back approximately ten years to its initial participation in the ISO-NE Demand  
7 Response program, in which large energy users receive compensation for reducing their  
8 energy consumption from the grid when system reliability is threatened or when energy  
9 prices are high.<sup>2</sup> EnerNOC's presence in New England is also lengthy given that the  
10 Regional Greenhouse Gas Initiative ("RGGI") has conducted its quarterly, regional CO2  
11 allowance auctions using EnerNOC's technology-enabled services since RGGI's  
12 inception.<sup>3</sup> By revenue and volume, EnerNOC is one of the top U.S. energy procurement  
13 specialists.

14 **Q. Please describe the types of energy users and utilities who use EnerNOC's**  
15 **procurement services.**

16 **A.** EnerNOC procures electricity, natural gas, and other commodities for some of the largest  
17 end-users in the country, including the federal government, several state governments,  
18 large commercial and industrial entities, and for utilities. Included in the over 100 utilities  
19 that have partnered with EnerNOC are Delmarva Power, Con Edison, Dominion, and

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<sup>2</sup> EnerNOC is a direct market participant in ISO-New England, providing curtailment services by actively managing demand-side resources, namely large energy users. After enrolling such commercial and industrial end-use customers throughout New England to curtail power use upon receipt of signals from ISONE and to receive economic incentives for doing so, EnerNOC implements its demand response program through automated, aggregated, and intelligent management of end-user lighting, HVAC, distributed generation, and industrial process equipment. These large energy users are connected to our Network Operations Center (the "NOC" in EnerNOC) and communicates real-time load data over a secure Internet connection, allowing our operations staff to monitor and verify demand-side power reductions in real time.

<sup>3</sup> These 40 auctions have generated almost \$187,000,000 in benefit to New Hampshire.

1 Consumers Energy. EnerNOC also currently supports a number of Default Service and  
2 Standard Offer Service programs for both electric and natural gas utilities.

3 **Q. Please describe the types of procurement services EnerNOC provides utilities.**

4 **A.** EnerNOC provides its partner-utilities with a range of services, from a comprehensive  
5 suite of procurement services to a narrowly defined set of services, namely, highly efficient  
6 technology-enabled bid collection and analysis, and associated reporting, with the clear  
7 objective of delivering successful procurement outcomes. When working with a new  
8 utility partner, EnerNOC honors and values the legacy components of the utility's  
9 procurement process with no impact to rate structures, classes or rate designs, and seeks to  
10 integrate nearly seamlessly with the utility's existing procurement processes. Depending  
11 on the procurement objectives of the utility, EnerNOC will tailor its process and  
12 procurement methods to achieve a successful, efficient procurement. In delivering  
13 procurement services, EnerNOC primarily uses the following methods: sealed bid  
14 auctions, descending clock auctions, and live, online reverse auctions. To determine which  
15 auction method is most appropriate, EnerNOC – in partnership with the utility – evaluates  
16 procurement goals and market conditions to identify a best-fit method of procurement.  
17 With experience in running tens of thousands of auctions, using numerous auction  
18 methods, EnerNOC has observed that live, online reverse auctions offer significant  
19 advantages in delivering the most competitive prices with the most transparency.

20 **Q. Please describe EnerNOC's procurement process.**

21 **A.** EnerNOC's standard procurement process, as outlined below, can be summarized in three  
22 phases: Pre-Auction, Day of the Procurement, and Post-Procurement.

23 EnerNOC takes direction from the utility partner and is able to perform as many or as few  
24 tasks that are necessary for a successful procurement event. In some instances, EnerNOC

1 helps a utility partner define the scope and strategies associated with a transaction. In other  
2 instances, EnerNOC is largely engaged for the last part of the procurement, namely, the  
3 automation of the bidding process and implementation of technology-enabled auctions.  
4 For an Eversource procurement event, EnerNOC would expect to focus on automating and  
5 enhancing the bidding process with technology-enabled auctions.

### 6 **Pre-Auction**

7 Prior to the release of a RFP, EnerNOC and the utility will generally undertake the  
8 following steps:

- 9 • Define the scope of the procurement event;
- 10 • Review the product(s)/contract(s) (confirm what is being transacted, start date,  
11 duration, and volume of the transaction);
- 12 • Review the bidder qualification process and review potential bidders;<sup>4</sup> and
- 13 • Develop an auction strategy, including a structure for sequencing the bidding on  
14 various products (overall, the “auction structure”).

15 Following the release of a RFP (and as requested by the utility), EnerNOC is able to assist  
16 with counterparty origination efforts,<sup>5</sup> aide in driving uniformity among counterparties,  
17 enable contracts with counterparties, collect market feedback, train on auction platform,  
18 and hold a Question-and-Answer period. All of this is designed to ensure robust  
19 participation from a well-qualified and well-informed group of suppliers during the

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<sup>4</sup> In this testimony, we refer to the participants who engage on the platform, and are not our utility partner, as “counterparty(ies)”, “supplier(s)”, “bidder(s)”, and “participant(s)” depending on the role in which the participant is engaged.

<sup>5</sup> Origination of bidders entails comprehensive recruitment of potential bidders, including but not limited to notifications to bidders who have used the EnerNOC platform in the past, advertising in trade press, phone calls, and communicating with the potential 230 suppliers and members of the New England Power Pool Markets Committee.

1 procurement. Again, EnerNOC is able to partner with the utility, and assist with as many  
2 or as few of the aforementioned steps as the utility wants.

3 **Day of the Procurement**

4 On the date and time of the procurement, qualified bidders, our utility partner, and external  
5 regulators/stakeholders log in to the EnerNOC platform. EnerNOC team experts run the  
6 auction event(s), which includes supporting bidders and regulators, actively monitoring the  
7 bidding process, implementing any planned adjustments as needed, reporting, and  
8 supporting the award allocation process.

9 The majority of our utility partners prefer to run live, online reverse auctions. For these  
10 auctions, there are strict time limits and auction rules regarding bidding. The auctions are  
11 designed to drive the most competitive bidding behavior. Bidders begin by entering a bid  
12 at or below the pre-determined opening bid value, which the utility determines in advance  
13 in consultation with EnerNOC. Bidders are only able to access pricing feedback in an  
14 auction if they enter a bid; without entering a bid, there is no ability for them to simply  
15 watch auction price movements. As time progresses, bidders enter lower and lower bids in  
16 order to best their competitors. Bidders do not see who else is bidding or how many other  
17 bidders there are. Bidders only see the prevailing low price and the time remaining in the  
18 auction. This level of price visibility is significant. Without the price discovery that live,  
19 online reverse auctions provide, bidders are only able guess how their competitors will bid.  
20 Depending how well they guess, they may or may not win the business. With the price  
21 discovery that live, online reverse auctions provide, the winner is the most competitive  
22 bidder, not the best guesser. In the final seconds of most live, online reverse auctions, as  
23 bidders are entering their final bids, they no longer have time to view, interpret, and

1 respond to their competitors' lower bids. As such, the end of each auction drives bidders  
2 to submit their best and final offer, which drives prices even lower.

### 3 **Post-Procurement**

4 Following all procurement events and as requested by the utility, EnerNOC provides  
5 analytical support and procurement reports to support award decisions. EnerNOC's utility  
6 partner makes and communicates all final award decisions per their defined process, likely  
7 similar to specifications outlined in their legacy RFPs. In the 10-14 days after a  
8 procurement event, EnerNOC partners with the utilities to create full scope, fully-auditable  
9 event reports, to respond to *ad hoc* requests from the utility and suppliers, and to conduct  
10 future event planning and discuss future improvements. EnerNOC provides post-  
11 procurement-event assistance as needed, reporting and otherwise, to external  
12 regulators/stakeholders.

### 13 **III. COMPARISON OF PROCUREMENT METHODS**

14 **Q. What is the purpose of this section?**

15 **A.** To provide information on the different procurement methods utilities typically use to  
16 procure energy for their default energy service customers, and to compare those methods.

17 **Q. Are you familiar with how Eversource procures Full Requirements Energy Service**  
18 **for its customers on PSNH's Energy Service tariff?**

19 **A.** Yes. Eversource uses the sealed bid method.

20 **Q. Please briefly describe the sealed bid approach, currently used by Eversource to**  
21 **secure Full Requirements Energy Service for its customers on PSNH's Energy**  
22 **Service tariff.**

23 **A.** From our understanding of the sealed bid approach currently in use by Eversource and  
24 other utilities, each qualified bidder downloads a Microsoft Excel spreadsheet containing a

1 bid form from the Eversource website, opens the spreadsheet/bid form, enters their  
2 company name, enters their offer prices for small and/or large customer classes, saves the  
3 spreadsheet, and sends their spreadsheet via email to Eversource by a pre-determined  
4 deadline. Throughout the sealed bid process, bidders are without any knowledge, direct or  
5 indirect, of what other parties are offering, or even if other parties are offering at all. After  
6 bidders have sent their individual spreadsheets via email, the utility's procurement  
7 administrator reviews the various bids in the various spreadsheets, and, based on  
8 predetermined criteria, selects the best offer or offers.

9 **Q. Aside from the sealed bid method, what other common approaches do utilities use to**  
10 **procure energy for Default Service and/or Standard Service customers?**

11 **A.** The two other most common approaches are multi-round descending clock auctions  
12 ("DCA") and live, online reverse auctions. Compared to the sealed bid method, these  
13 methods typically use technology platforms that enable an interactive experience for  
14 bidders, price discovery, and a transparent bidding process.

15 **Q. Please describe multi-round descending clock auctions.**

16 **A.** Descending Clock Auctions (DCAs) are auctions that are designed to secure a specific  
17 volume of a commodity at a uniform price. These auctions are conducted over multiple  
18 rounds in which all bidders are given the same set price, and each responds with a  
19 corresponding volume that they would provide at that price. Bidders cannot see the  
20 volume that other bidders offer or how many other bidders are participating in the auction.  
21 If the sum of the offered volumes from all bidders exceeds the volume the auction manager  
22 is seeking to secure, the auction manager will initiate another round at a lower set price.  
23 Once again, all bidders offer the volume they would deliver at that lower price. The  
24 rounds continue until the sum of the volumes that the bidders offer equals what the auction

1 manager needs.<sup>6</sup> At that point, the auction manager declares the auction over, and awards  
2 each bidder the volume they offered at the same fixed, uniform, price. The DCA typically  
3 requires the most significant time commitment from bidders, as the duration can last 1-2  
4 full days. A prevailing feature of the DCA is the elimination of outlier bidding; as there  
5 are no outliers, this method avoids “the winner’s curse.” Another characteristic is that all  
6 bidders are able to compete with the volume they have to offer.

7 **Q. Please describe live, online reverse auctions.**

8 **A.** Reverse auctions, as a broad category, are simply auctions where bid prices go down  
9 instead of up. A live, online reverse auction is a type of reverse auction that is a single  
10 round event with a finite start and end time that generally lasts 10-15 minutes. A best-  
11 practice design feature of such auctions, including the live, online reverse auctions run by  
12 EnerNOC, is that throughout most of the auction, bidders – once they have placed an initial  
13 bid within the auction – can see the prevailing best bid. This allows for real-time  
14 feedback/price discovery and, nearing the end of the live, online reverse auction, there is  
15 generally a “last bid blind” feature. In roughly the last 10 seconds of such an auction, if a  
16 bidder wishes to bid, they must place a “best and final” bid without the benefit of being  
17 able to respond to the prevailing best bid amount or other critical auction details. In  
18 EnerNOC’s experience, the inability to respond to price movements in the final moments  
19 of an auction leads to aggressive competition among bidders and pushes prices lower.

20 **Q. Please summarize the key differences between these three auction methods.**

21 **A.** As referenced previously, the biggest differences between traditional sealed bid practices  
22 and the DCA and live, online reverse auction methods are efficiency enabled by

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<sup>6</sup> In practice, if the total offered volume drops below total requested volume, one of various end-of-auction scenarios is implemented.

1 technology, and increased competition amongst bidders. The typical utility sealed bid  
2 process requires that bidders independently communicate their bids via email or similar  
3 communication tool, and a utility employee or consultant on the procurement team  
4 compiles, analyzes, and reports on the bidding outcomes. In comparison, DCA, and live,  
5 online reverse auctions have interactive technology platforms that can automate many of  
6 these steps and engender greater competition amongst bidders.

7 A benefit and purposeful design feature of technology-enabled auctions, common to both  
8 DCAs and live, online reverse auctions, is price discovery, which sealed bid specifically  
9 does not provide.

10 While a DCA has more price discovery than a sealed bid, the DCA has limited price  
11 discovery compared to the live, online reverse auction. In a DCA, the auction  
12 administrator sets and shares the price (which all bidders know) and bidders indicate their  
13 desired volume or share of what is procured. Bidders can only discern that other  
14 competitors are willing to accept a certain price, as a final clearing price is uniformly paid  
15 to the bidders. This subtlety is important: All bidders are paid a uniform price, which is  
16 fixed by the least-competitive bid of a set of engaged bidders. If one or more of the  
17 bidders could offer a better bid, they do not need to.

18 In a live, online reverse auction, there is real-time, dynamic, price discovery throughout the  
19 auction, as bidders can see what the prevailing best bid is, yet cannot see volume. Market  
20 action and back-and-forth competition among bidders drive the price down, as we have  
21 seen individuals repeatedly improve their bids throughout the auction to win the business.  
22 Finally, since it is only a single round, a live, online reverse auction tends to be a short-  
23 duration event, with the shortest period between when bidders submit bids, the end of the  
24 auction, and when a bidder has an idea of whether they have the lowest bid. In our opinion,

1 this real-time, dynamic price discovery and short auction duration facilitates the most  
2 competitive auction outcome possible.

3 **Q. Are live, online reverse auctions only effective when there are ample amounts of**  
4 **bidders participating?**

5 **A.** No. Some people are concerned that, if bidders sense that there are only a few other  
6 bidders in a live, online reverse auction, bidders will not be as aggressive in offering lower  
7 prices. In practice, that does not occur for these reasons:

- 8 1. Bidders do not see how many other bidders are participating in live, online reverse  
9 auctions. Bidders only see a prevailing low price and the time remaining in such an  
10 auction. They never know if there are 3 other bidders or 6 other bidders.
- 11 2. Even in live, online reverse auctions with many bidders, some bidders do not get  
12 aggressive until the end of an auction in order to outbid their competitors. As such,  
13 throughout the auction, bidders never know if there are other bidders strategically waiting  
14 for the last moments to bid. To optimize their chances of winning, a bidder is incented to  
15 put their best-and-final bid in at the last moment.
- 16 3. EnerNOC has designed and run thousands of online auctions for unique commodity  
17 products. Auction design does not exist in a vacuum. Market dynamics, timing,  
18 counterparty interest, and the goals of a utility should all play a role in auction design.  
19 Live, online reverse auctions are a valuable tool, but if a different auction design better  
20 suits a particular product, the best design should prevail. A utility need not adopt a one-  
21 size-fits-all method and become beholden to it for all products. A dynamic approach to  
22 auction design makes sense given the dynamic markets in which Eversource operates.  
23 EnerNOC offers a no-risk model. EnerNOC's 99% award rate in auctions does show that  
24 the process is able to meet or exceed expectations nearly every time.

1 **Q. Are prospective bidders likely to push back on a new procurement method?**

2 **A.** Technology-enabled auctions are widely used in the utility space, and as such, bidders  
3 have grown accustomed to utilizing these sourcing methods. EnerNOC alone has worked  
4 with hundreds of unique bidders across tens of thousands of auction events and has seen  
5 little to no attrition in bidder participation with a new procurement method. Bidders  
6 appreciate the valuable feedback from technology-enabled auctions, most importantly price  
7 discovery, which contributes to easing the transition from legacy procurement constructs to  
8 technology-enabled auctions.

9

10 **IV. ADVANTAGES OF TECHNOLOGY-ENABLED AUCTIONS**

11 **Q. Is it your opinion that live, online reverse auctions will stimulate more competition**  
12 **for Full Requirements Energy Service rates for Eversource customers on PSNH's**  
13 **Energy Service tariff than possible under the current sealed bid approach?**

14 **A.** Yes. With all procurements, a key element is to design the procurement event to maximize  
15 the probability for a successful outcome; market conditions, participants, and desired  
16 procurement outcomes are key elements to determining the best method for procurements,  
17 including for when to use auctions.

18 **Q. Please explain this opinion.**

19 **A.** Technology-enabled auctions enable price discovery, which is key to driving competitive  
20 bidding behavior. Price discovery is not possible – by design – with a sealed bid process.  
21 In EnerNOC's experience, this price discovery and real-time feedback drives bidders to be  
22 more competitive and produce the best possible prices. EnerNOC's position is not to  
23 suggest that Eversource and other utilities have erred in any way by using the sealed bid  
24 method; sealed bids do work and remain a valuable model in some instances. However,

1 there has been an evolution in best practices for electricity procurement toward  
2 technology-enabled auctions.

3 **Q. In your opinion, what are the other advantages that you see to technology-enabled**  
4 **auctions relative to a traditional sealed bid?**

5 **A.** The use of technology platforms can lead to increased transparency. Platforms can provide  
6 a highly auditable record of every bid and every communication in one place. Live, online  
7 reverse auctions also provide quicker feedback to bidders on whether or not they had/have  
8 the lowest bid. This is a function of real-time price discovery and in the case of the reverse  
9 auction, a single round auction. Further, narrowing the time between when bids are  
10 submitted and when a bidder has an idea that they had the lowest bid may contribute to  
11 reducing risk premiums, as bidders are more likely to be willing to accept the risk  
12 associated with minor market movements prior to an award being made.<sup>7</sup>

13 **Q. Does the live, online reverse auction capture any elements of a sealed bid?**

14 **A.** Yes. Industry best practices include, during live, online reverse auctions, a “last bid blind”  
15 feature, during which in the last ten or so seconds of these auctions bidders do not have the  
16 time to both gather the latest pricing feedback and respond with an offer based on that  
17 most recently available feedback. This is because placing a bid takes several seconds, and  
18 when entering a bid, a bidder cannot see the prevailing low bid. Those waning seconds  
19 capture the sealed bid element of bidding blindly in competition with others. With that

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<sup>7</sup> We note that the Commission’s February 22, 2018 Order in DE 18-002 directed Staff “to draw on its substantial experience in reviewing these types of solicitations, as well as on the experience of other state commissions, and file a proposal for improving our procedures no later than September 1, 2018. In preparing its proposal, Staff’s primary considerations should be decreasing retail rates by mitigating potential supplier risk premiums associated with the solicitation process and timelines, and increasing administrative efficiency [emphasis added]. Staff should identify any statutory and rule changes that may be necessary to implement its recommendations.” Public Service Company of NH D/B/A Eversource Energy, *2018 Energy Service Solicitation*, Docket No. DE 18-002, Order No. 26,104 (February 22, 2018) at 8.

1 'last bid blind' dynamic, EnerNOC has repeatedly seen leading bidders outbid *themselves*  
2 to win, leading to additional ratepayer savings.

3 **Q. For added context, please provide an analogous example demonstrating the**  
4 **importance of price discovery that is not related to the energy industry.**

5 **A.** Auction houses such as Sotheby's use live auctions that have price discovery. One  
6 example is purchasing a desirable piece of art. We recognize that purchasing art and  
7 procuring energy commodities are very different purchases, as purchasing art is likely to  
8 include criteria based on emotion. Yet the value of price discovery can easily be  
9 demonstrated using an example from the art world. Consider if an auction house used a  
10 sealed bid method to sell a valuable painting, and that there are two bidders who want the  
11 painting. Buyer A has a budget and willingness to pay \$10,000 but is confident they can  
12 win with a bid of \$9,000, Buyer A will likely bid close to \$9,000. However, if the auction  
13 house used a live auction, and Buyer A sees Buyer B bid \$9,900, Buyer A will go right to  
14 their limit and bid \$10,000. Without price discovery, the art would have sold for \$9,900.  
15 With price discovery, the art sells for \$10,000, and the seller gains the additional \$100. As  
16 noted in the Energy and Environmental Economics study discussed in greater detail on  
17 page 24 of this testimony, with price discovery, "they can better infer the common price  
18 expectation relative to their own private costs."<sup>8</sup> In the art world case, price discovery  
19 makes the potential buyers less inclined to bid conservatively.

20 **Q. Please explain how this example is analogous to Full Requirements Energy Service**  
21 **procurements in New Hampshire.**

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<sup>8</sup> Woo, Chi-Keung, Karimov, Rouslan, Horowitz, Ira. Energy and Environmental Economics, Inc and Warrington College of Business, University of Florida. 2004. *Managing Electricity Procurement Cost and Risk by a Local Distribution Company* p. 16. ("Woo, et. al").

1 A. Under a sealed bid, bidders bid what they think the utility will accept, balanced against  
2 their own profit/margin objectives, and against what they feel is required to be competitive  
3 against other bidding parties. Although a bidder usually has a certain cut-off point for how  
4 low they are willing to bid, they are not inclined to bid at or near this cut-off point if they  
5 think they can win with a higher bid. Under a live, online reverse auction, if a bidder sees  
6 that they can only win if they bid as low as their cut-off point, they will bid at their cut-off  
7 point, and full requirements energy service customers will benefit from the lower price. To  
8 an extent, the same is true of the DCA, where a bidder can remain in the auction as long as  
9 the price for that round is above their cut-off point.

10 **Q. What goes into selecting and designing an appropriate procurement method?**

11 A. In planning any procurement, the design of the auction architecture is paramount to  
12 maximizing the probability for a successful outcome. The auction designer has to consider  
13 elements including market conditions, participants, and desired procurement outcomes to  
14 determine the best method for the procurement.

15 After a product, target date for release, and other key elements are determined, and after an  
16 RFP has been released, but before the auction is run, EnerNOC and the utility will meet to  
17 discuss, among other items, the opening prices, the number of bidders who have agreed to  
18 bid, and their feedback. The utility sets the opening price based on the market, in  
19 consideration of the utility's willingness-to-pay and risk management policies, and this  
20 action prevents any bidder from achieving outlandish gains by winning the auction at a  
21 much higher price point. If a given product is not shaping up to be competitive, the utility  
22 may decide to employ a different procurement method, or they may choose to adjust the  
23 timing of the auction. If it is clear there will only be two bidders, a well-designed live,  
24 online reverse auction can potentially still deliver a competitive outcome.

1 In EnerNOC's experience, those scenarios are very rare, but the important point is that  
2 there is no requirement to run the auction at a specific date and time if it does not look as  
3 though there will be competitive results. EnerNOC maintains a 99% award rate for  
4 auction-based procurement events, and a 100% approval record from utility commission  
5 for overseen auctions, meaning our utility partners and the commissions overseeing those  
6 utilities have consistently found the auctions to deliver competitive results.

7 It is also worth noting that during live, online reverse auctions, bidders see a prevailing low  
8 price during these auctions, but they do not see the number of bidders or the number of  
9 bids. They have no idea if the relative paucity of bids is a sign of fewer bidders or a  
10 strategic play by their competitors. In the final moments of a live, online reverse auction,  
11 in the time it takes to enter a bid, the auction effectively becomes blind where each  
12 supplier can enter a 'best bid blind'. A supplier could wait until the last second to enter  
13 their "best and final" bid and EnerNOC's process is able to capture that type of bidding  
14 activity even when the number of bidders is low.

15 For the most competitive results, auction designs must consider architectural elements and  
16 the strategies of bidders. EnerNOC partners with utilities and works hand-in-hand with  
17 them to design the best model. Having vast experience with the competitive behavior of  
18 bidders, EnerNOC is able to offer guidance on the best model to foster and spur  
19 competitive behavior.

20 **Q. Are EnerNOC's procurement events binding for the utility?**

21 **A.** No. EnerNOC's auctions are non-binding for the utility, until a transaction confirmation is  
22 executed. EnerNOC does significant work without obligation, knowing that the results  
23 speak for themselves. If the utility does not find the price the procurement event has

1 produced as acceptable, EnerNOC's utility-partner can walk away without making an  
2 award, and with zero out-of-pocket financial penalty for them or for their suppliers.

3  
4 **V. INTERNATIONAL AND ACADEMIC OPINIONS OF**  
5 **TECHNOLOGY-ENABLED AUCTIONS**

6  
7 **Q. Do independent experts conclude that alternative methods to a sealed bid process can**  
8 **achieve more competitive outcomes? Please explain.**

9 **A.** Yes. In 2011, the World Bank issued its extensive study of electricity market auctions. It  
10 stated:

11 “Most of the energy auctions carried out as part of the first generation of power  
12 sector reforms have been designed as sealed-bid auctions. This methodology was  
13 the basis for the development of PPAs supporting capacity expansion. It is still  
14 used extensively, particularly in places with many sellers and one buyer. However,  
15 alternative designs such as the descending clock auction have revealed many  
16 advantages over traditional sealed-bid auctions. A clock auction enables an  
17 efficient price discovery, and is therefore conducive to more aggressive behavior  
18 among bidders, thereby resulting in lower prices [emphasis added].”<sup>9</sup>

19 **Q. Has Commission Staff and/or consultants to the Commission contemplated using**  
20 **alternative procurement methods? Please explain.**

21 **A.** Yes, as part of the divestiture process for generation owned by Eversource, Non-Advocate  
22 Commission Staff witness Professor Peter Cramton from University of Maryland (an

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<sup>9</sup> L. Maurer and L. Barraso, *Electricity Auctions, An Overview of Efficient Practices*, The World Bank, p. xvii (2011)  
eISBN: 978-0-8213-8824-2.  
<https://openknowledge.worldbank.org/bitstream/handle/10986/2346/638750PUB0Exto00Box0361531B0PUBLIC0.pdf;sequence=1>

1 expert on auction theory and practice) recommended a “simultaneous ascending clock  
2 auction” process to maximize the total value of the assets.<sup>10</sup> Staff highlighted that this  
3 process included price discovery, stating, “Please note that under this process, bidders will  
4 not be identified by name but their bid amounts will be observable to the other bidders in  
5 the auction.”<sup>11</sup>

6 **Q. Why did Professor Cramton believe price discovery was important?**

7 **A.** Professor Cramton stated:

8 “The divestiture auction design described above maximizes revenues by  
9 curtailing bidders’ tendency to bid very conservatively in order to avoid the  
10 ‘winner’s curse.’ The winner’s curse refers to the tendency for the winning  
11 bid in an auction to exceed the intrinsic value of the item purchased. Because  
12 of incomplete information, bidders can have a difficult time determining the  
13 item’s intrinsic value. As a result, the largest overestimation of an item’s value  
14 ends up winning the auction. In view of the winner’s curse, rational  
15 participants in common value sealed bid auctions will bid less aggressively in  
16 order to avoid or at least minimize its effect. The ascending auction mitigates  
17 the winner’s curse because the auction enables bidders to draw inferences  
18 about asset values from the demands of others [emphasis added].

19 As the auction progresses, bidders can use the developing pattern of prices as  
20 summary information about their rivals’ assessments of factors that would  
21 affect the valuations of all bidders, such as—in this case—economic

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<sup>10</sup> Docket No. DE 14-238, Public Service Company of New Hampshire, *Determination Regarding PSNH’s Generation Assets*, Testimony of Peter Cramton, September 18, 2015, p.7, at <https://www.puc.nh.gov/Regulatory/Docketbk/2014/14-238.html>

<sup>11</sup> *Id.*, Testimony of Leszek Stachow, September 18, 2015, p. 15, at <https://www.puc.nh.gov/Regulatory/Docketbk/2014/14-238.html>

1 conditions affecting power prices in New Hampshire and ISO New England.

2 This learning encourages more aggressive bidding and increases revenues

3 [emphasis added]. The reason that learning encourages more aggressive

4 bidding is as follows. Each bidder's valuation of a property is necessarily

5 imperfect. Part of this valuation may reflect the bidder's unique

6 characteristics, but the larger part depends on factors that affect all bidders

7 such as the economic conditions referred to above. As bidders learn more

8 about one another's valuations—which will necessarily reflect these common

9 factors—the less they will reduce their bids in an attempt to avoid the winners

10 curse.”<sup>12</sup>

11 **Q. The testimony from Staff and Professor Cramton was in a docket specific to the**  
12 **divestiture of Eversource's generating assets. Do you believe that testimony is**  
13 **relevant to this proceeding?**

14 **A.** Yes, it is relevant. Price discovery is critical for achieving the most competitive outcome  
15 in both circumstances. Technology-enabled auctions deliver this price discovery.

16 **Q. Professor Cramton and Staff were recommending an ascending clock auction, and**  
17 **did not specifically mention a live, online reverse auction. Do you believe that**  
18 **Professor Cramton's logic is also applicable to a live, online reverse auction?**

19 **A.** Yes. In the case of the divestiture, the objective was to get the highest possible bid, so the  
20 auction had to be ascending. Moreover, Professor Cramton stipulates that “learning  
21 encourages more aggressive bidding.”<sup>13</sup> This learning happens during a live, online  
22 reverse auction, but not a sealed bid.

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<sup>12</sup>Testimony of Peter Cramton, *Supra*, at 7.

<sup>13</sup>*Id.*

1 Q. **Are you aware that the Commission did not implement the recommendation from**  
2 **Staff and Professor Cramton for an ascending clock auction?**

3 A Yes. However, it does not appear that Staff withdrew their proposal. Staff wrote: “Based  
4 on Staff’s concerns about the deterministic nature of the auction language in the original  
5 Settlement Agreement, Staff had proposed an alternative auction process. As set forth in  
6 the Litigation Settlement, the Settling Parties agreed to modify the Settlement Agreement  
7 to clarify that the final decision concerning the auction process is in the hands of the  
8 Commission with input from an auction advisor/manager. Staff agrees that the auction  
9 design should rest first and foremost with the auction advisor selected by the Commission,  
10 after being familiarized first with any particular conditions that the Commission believes  
11 might govern this auction process.”<sup>14</sup>

12 Q. **Are there other reports that highlight why price discovery is important in electricity**  
13 **auctions?**

14 A. Yes. In a report by Energy and Environmental Economics, Inc. and the Warrington  
15 College of Business at the University of Florida, the authors analyzed a municipal utility  
16 auction in Florida and concluded that:

17 “[p]rice discovery is important to both sellers and the [utility]. When sellers can  
18 see the evolution of competing price offers, they can better infer the common price  
19 expectation relative to their own private costs. The increased price information  
20 makes the sellers less inclined to bid conservatively so as to avoid the winner’s  
21 curse, thus promoting price competition. From the [utility’s] perspective, the

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<sup>14</sup> Docket No. DE 14-238, Public Service Company of New Hampshire Determination, *Regarding PSNH’s Generation Assets*, Supplemental Testimony of Leszek Stachow, January 26, 2016, p.7, at <https://www.puc.nh.gov/Regulatory/Docketbk/2014/14-238.html>.

1 auction helps uncover forward-contract prices that are otherwise unavailable or  
2 unreliable due to thin trading and other market imperfections (e.g., asymmetric  
3 information). This aids the [utility] to make a better-informed purchase  
4 decision.”<sup>15</sup>

5  
6 The thin trading markets referenced in the Florida study are relevant in New Hampshire  
7 (and other New England markets) where there are often few bidders for certain rate  
8 classes.

9  
10 **VI. STATE CASE STUDIES USING LIVE, ONLINE REVERSE AUCTIONS**

11 **Q. Are there other utilities in the Northeast region in fully deregulated territories that**  
12 **use live, online reverse auctions? Please name them if they have consented.**

13 A. Yes, Delmarva Power in Delaware uses live, online reverse auctions to procure Standard  
14 Offer Service electric contracts.

15 **Q. Please provide any documentation that explains why the utility chose to use a live,**  
16 **online reverse auction.**

17 A. In 2008, Delmarva Power petitioned the Delaware Public Service Commission (“Delaware  
18 PSC”) to move to a live, online reverse auction. In support of its request, it stated that the  
19 live, online reverse auction, “with its transparent price feedback on the prevailing lowest  
20 price, can potentially stimulate more aggressive bidding and improved competition among

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<sup>15</sup> Woo, Chi-Keung, Karimov, Rouslan, Horowitz, Ira. Energy and Environmental Economics, Inc and Warrington College of Business, University of Florida. 2004. *Managing Electricity Procurement Cost and Risk by a Local Distribution Company* p. 16. (“Woo, et. al.”).

1 suppliers. It is generally accepted that increased competition results in better prices for  
2 customers.”<sup>16</sup>

3 Delmarva also stated that it “firmly believes that use of the reverse auction process is a  
4 proactive step that should be taken to achieve supply for its SOS customers at the lowest  
5 reasonable cost.”<sup>17</sup> The Delaware PSC approved Delmarva’s petition, finding “the World  
6 Energy reverse auction process has proven itself to be effective in achieving robust  
7 competition to provide energy supply to customers.”<sup>18</sup> EnerNOC acquired World Energy  
8 in 2015 and the reverse auction process referred to by the Delaware PSC is the same  
9 procurement method to which EnerNOC is referring in this testimony. The Delaware PSC  
10 went on to note that:

11 “the World Energy reverse auction process is a model that has experienced  
12 successful application to the wholesale market. Delmarva reported that  
13 the platform has been used in the recent past by Delmarva to procure  
14 supply for Virginia SOS customers. World Energy has been awarded a  
15 contract by the Regional Greenhouse Gas Initiative (“RGGI”) to provide  
16 services related to the design and implementation of a regional greenhouse  
17 gas emissions allowance auction. In addition, the State of Delaware has  
18 successfully used the World Energy reverse auction process to obtain  
19 energy supply.”<sup>19</sup>

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<sup>16</sup> Motion of Delmarva Power & Light Company to Adopt a Reverse Auction Process for Standard Offer Service Procurement, *In the Matter of the Provision of Standard Offer Supply to Retail Consumer in the Service Territory of Delmarva Power & Light Company After May 1, 2006*, Delaware, PSC Docket No. 04-391, September 19, 2008, p. 3.

<sup>17</sup> *Id.* at 5.

<sup>18</sup> Del PSC Order No. 7461, *In the Matter of the Provision of Standard Offer Supply to Retail Consumers in The Service Territory of Delmarva Power & Light Company after May 1, 2006*, Delaware PSC Docket No. 04-391, October 7, 2008, p. 4.

<sup>19</sup> *Id.* at 3.

1 **Q. Please provide any documentation that summarizes the competitive nature of**  
2 **Delmarva’s basic service procurements using the live, online reverse auction method.**

3 **A.** The independent consultants utilized in Delaware to review the live, online reverse auction  
4 methods from year to year have repeatedly praised the results they watched in the auctions.  
5 For example, in 2016, the consultant for the Delaware PSC found that: “The auction  
6 process itself promotes competition due to EnerNOC’s auction platform. It provides real-  
7 time feedback to induce competitive bidding behavior.”<sup>20</sup> The consultant also highlighted:  
8 “Participation was higher than previous levels, too, and resulted in a competitive bidding  
9 process.”<sup>21</sup>

10 In 2013, the PSC’s consultant, Liberty Consulting proclaimed similarly that:

11 “[e]ach of the blocks in each of the tranches received ample bids to create a  
12 competitive environment and prices that reflect the competition. Liberty  
13 attributes this bid activity to a combination of excellent information  
14 provided to power suppliers, and a well-run, relatively transparent auction  
15 provided by World Energy. World Energy’s system provides useful bidder  
16 feedback to induce competitive bidding behavior.”<sup>22</sup>

17

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<sup>20</sup> Liberty Consulting Group, Technical Consultant’s Final Report to the Delaware Public Service Commission, Delmarva Power & Light’s 2015-16 Request for Proposals for Full Requirements Wholesale Electric Supply for Standard Offer Service, March 8, 2016, p. 6.

<sup>21</sup> *Id.* at 3.

<sup>22</sup> Liberty Consulting Group, Technical Consultant’s Final Report to the Delaware Public Service Commission, Delmarva Power & Light’s 2012-13 Request for Proposals for Full Requirements Wholesale Electric Supply for Standard Offer Service, March 5, 2013, p. 6.

1 Finally, for years prior to 2010, a separate independent consultant in Delaware opined that  
2 the World Energy process was “inherently and structurally open, fair, and transparent” and  
3 that the “price-only bid evaluation of a standard product is the ultimate in transparency.”<sup>23</sup>  
4

5 **VII. FEDERAL USE OF LIVE, ONLINE REVERSE AUCTIONS**

6 **Q. Is the live, online reverse auction method used by the United States government?**

7 **A.** Yes. The General Services Administration uses EnerNOC’s reverse auction platform to  
8 procure energy.<sup>24</sup> The Executive Office of the President, through the Office of  
9 Management and Budget (OMB), issued a memo dated June 1, 2015 to Chief Acquisition  
10 Officers and Senior Procurement Executives highlighting the benefits of reverse auctions  
11 and how to get the best results using reverse auctions. The GSA’s communication sought  
12 to encourage the education of all of the US Government’s acquisition workforce of the  
13 “points and best practices” outlined in the memo. The memo clarifies that:

14 “[a] reverse auction is a process for pricing contracts supported by an  
15 electronic tool where offerors bid down, as opposed to the traditional  
16 auction which required buyers to submit sequentially higher bids, the main  
17 goal of which is to drive prices downward. Offerors are given the  
18 opportunity to continually revise their prices during the bidding process  
19 until the auction closes. Multiple benefits have been identified with the  
20 use of reverse auctions...”<sup>25</sup>

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<sup>23</sup> Boston Pacific Company, Final Report of the Technical Consultant on Delmarva’s 209-1010 Request for Proposals for Full Requirements Wholesale Electric Power Supply to Delaware’s Standard Offer Service Customers, February 16, 2010, p. 2.

<sup>24</sup> <https://reverseauctions.gsa.gov/reverseauctions/reverseauctions/>

<sup>25</sup> See Effective Use of Reverse Auctions (June 1, 2015), page 1, available at <https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/procurement/memo/effective-use-of-reverse-auctions.pdf>

1 The OMB memo further describes price reduction and enhanced competition among the  
2 multiple benefits of reverse auctions.

3

4 **VIII. RELIEF SOUGHT**

5 **Q. What relief is EnerNOC seeking from the Commission?**

6 **A.** EnerNOC respectfully requests that the Commission approve and direct Eversource to  
7 utilize live, online reverse auctions to procure Full Requirements Energy Service for its  
8 customers on PSNH's Energy Service tariff over the course of the next three procurements  
9 (Spring 2019, Fall 2019, and Spring 2020).

10 **Q. Why does EnerNOC suggest Eversource utilize live, online reverse auctions to**  
11 **procure Full Requirements Energy Service for its customers on PSNH's Energy**  
12 **Service and why does it suggest three procurements?**

13 **A.** With the recent divestiture of its generation assets, Eversource procures more energy than  
14 any other utility in the state. Switching to a live, online reverse auction for Eversource has  
15 the potential to produce more savings, and robust data for evaluation, compared to a  
16 procurement event with a smaller utility. We have also discussed our auction platform at  
17 length with procurement professionals at Eversource, and contend that it can deliver  
18 significant value for them, and for their customers. Three procurements will provide  
19 Eversource and the Commission with a large enough sample size to evaluate the live,  
20 online reverse auction.

21 **Q. Is EnerNOC seeking the Commission to approve the live, online reverse auction**  
22 **method for all regulated utilities in New Hampshire?**

23 **A.** No. EnerNOC is aware that there was a general consensus in Docket No. IR 14-338  
24 against imposing a uniform methodology for procurements and that changes in

1 procurement methods ought to be done in utility-specific dockets.<sup>26</sup> With the recent  
2 regulatory changes associated with the Eversource generation divestiture, a change to the  
3 procurement method is timely. Once the Commission gains familiarity with live, online  
4 reverse auctions, it may be appropriate to consider encouraging New Hampshire's other  
5 utilities to use this auction method.

6 **Q. Will EnerNOC support the Commission in evaluating the results of using a live,  
7 online reverse auction?**

8 **A.** Yes. EnerNOC will support the Commission in its evaluative efforts, to understand the  
9 applicability and procurement outcomes of Eversource utilizing live, online reverse  
10 auctions. Within hours of the procurement event, the Commission can have data and  
11 reports from the procurement. Additionally, hard-copy reports and summary slides can be  
12 provided.

13  
14 **IX. PUBLIC POLICY SUPPORT**

15 **Q. What are some of the public policy reasons for seeking this relief?**

16 **A.** According to the U.S. Energy Information Administration, New Hampshire residents and  
17 businesses pay among the highest electricity price in the country.<sup>27</sup> The Sununu  
18 Administration has emphasized the need to lower energy bills and provide relief to New  
19 Hampshire ratepayers.<sup>28</sup> The New Hampshire Public Utilities Commission has also noted  
20 New Hampshire's high electric prices.<sup>29</sup> EnerNOC believes that using the live, online

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<sup>26</sup> Docket No. IR 14-338, Hearing Transcript of May 27, 2015 at 16.

<sup>27</sup> [https://www.eia.gov/electricity/monthly/current\\_month/epm.pdf](https://www.eia.gov/electricity/monthly/current_month/epm.pdf). See Table 5.6.B

<sup>28</sup> March 21, 2018 Press Release: *Governor Sununu Statement on HB 1550*. January 9, 2018 Press Release: *Governor Chris Sununu Statement on HB 317*.

<sup>29</sup> Docket No. IR 15-124, *Investigation into Potential Approaches to Mitigate Wholesale Electric Prices*, Order of Notice at 2. ("Overall, the average retail price of electricity in New England is the highest in the continental United States, posing a threat to our region's economic competitiveness.")

1 reverse auction in default energy service procurements will achieve more competitive  
2 outcomes and lower energy bills. While every procurement event is different, and while  
3 EnerNOC cannot guarantee similar results in New Hampshire, our experience running  
4 thousands of auctions suggests that the live, online reverse auction method will deliver  
5 more competitive outcomes than the current sealed bid approach.

6 **Q. Are you aware that the Commission opened a docket to review various approaches to**  
7 **energy service solicitations?**

8 A. Yes. EnerNOC has reviewed the filings and hearing transcript in that docket (Docket No.  
9 IR 14-338, *Review of Energy Service Procurement Processes for Electric Distribution*  
10 *Utilities*.) EnerNOC understands that the docket was opened to evaluate short-term  
11 improvements or adjustments that could be made to mitigate the price volatility of the  
12 energy commodity in response to extreme weather conditions.

13 EnerNOC is aware that in a New Hampshire Public Utilities Commission memo dated  
14 May 3, 2015, the Commission's Staff did not support a single state-wide procurement  
15 process and stated that a centralized State procurement could increase state administrative  
16 costs. Staff opined that utilities should be free to select the most competitive bid offering  
17 available.

18  
19 **X. IMPLEMENTING LIVE, ONLINE REVERSE AUCTIONS IN NEW HAMPSHIRE**

20 **Q. EnerNOC is seeking to implement live, online reverse auctions starting in the Spring**  
21 **of 2019. Please describe the length of lead time EnerNOC needs to implement a**  
22 **procurement event for a utility.**

1 A. For EnerNOC's involvement, and for an auction of this size and complexity, a one-month  
2 period is sufficient for a first event. To be clear, this would not be adding a month to  
3 Eversource's existing procurement processes, but would fit within the current process.  
4 EnerNOC partners with utilities that bring products to market within hours, days, or weeks.  
5 The product set, the market, origination efforts, and complexity of the auction structure are  
6 factors that determine the amount of lead time needed to implement a procurement event.  
7 Generally, EnerNOC's partners experience shorter times to market than they experienced  
8 prior to partnering with EnerNOC.

9 **Q. Please describe how a live, online reverse auction platform would impact the**  
10 **Commission with regard to default energy service procurement.**

11 A. Live, online reverse auctions leverage second generation procurement technology that  
12 increases the transparency of auctions. The benefit to Commissioners and Staff is that  
13 post-auction analysis is far easier and efficient. An added benefit is that, because these  
14 auctions are live, and brief in duration, it enables Commission and Staff to join in an  
15 observational capacity to further assess the competitiveness and the integrity of the  
16 procurement.

17 Another benefit is the increased administrative efficiency that a technology-driven process  
18 delivers. For example, using electronic time-stamping of bids, and providing immediate  
19 documentation allows the Commission to review and approve the procurement event with  
20 speed and confidence in the process.

21 The effects a live, online reverse auction platform would have for the Commission are  
22 consistent with current areas of focus, for example:

- 23 • In approving Eversource's most recent procurement event results, the Commission  
24 recognized the need for more efficient administrative process, and instructed Staff

1 to prepare a proposal by September 1, 2018, stating “primary considerations should  
2 be decreasing retail rates by mitigating potential supplier risk premiums associated  
3 with the solicitation process and timelines, and increasing administrative efficiency.  
4 [emphasis added]”<sup>30</sup>

- 5 • In that approval process, Eversource recently noted to the Commission, that  
6 compressing the timeframe for approval minimizes the risk premium suppliers add  
7 to their prices.<sup>31</sup> Lowering risk premiums should benefit ratepayers.

8 **Q. Please describe any new barriers or technical requirements that suppliers would face**  
9 **with the live, online reverse auction compared to the current Eversource approach,**  
10 **or any barriers that would be removed.**

11 **A.** There are no new barriers or significant technical requirements. Many suppliers who are  
12 currently competing to serve this load undoubtedly have experience with the EnerNOC  
13 platform. All suppliers are required to receive EnerNOC-hosted training on how to use the  
14 platform. That requirement is the sole one that new or experienced suppliers would face.  
15 The technical requirements which suppliers need to meet are minimal – suppliers need  
16 access to the internet, and need to use modern web browsing software (Internet Explorer,  
17 Google Chrome, Mozilla Firefox, and Apple Safari are all web browsers that comply with  
18 technical requirements of EnerNOC’s process). Suppliers receive in-depth training on how  
19 to participate in EnerNOC platform-driven procurement events prior to their participation.  
20 On auction day, suppliers need only to log into the platform and place their competitive  
21 bids, eliminating the barrier of completing and submitting bids using spreadsheets.

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<sup>30</sup> Docket No. 18-002, Public Service Company of NH d/b/a Eversource Energy, *2018 Energy Service Solicitation*, Order Following Hearing, Order. 26,104 (February 22, 2018) at 8.

<sup>31</sup> Docket No. DE 18-002, Hearing Transcript dated February 14, 2018, at 61-64.

1 **Q. Do you expect that most of the suppliers who are currently participating in Full**  
2 **Requirements Energy Service procurements in New Hampshire are familiar with the**  
3 **live, online reverse auction process and EnerNOC's platform?**

4 **A.** Yes.

5 **Q. Would adopting a live, online procurement method change a utility's ability to set**  
6 **qualifications for bidders?**

7 **A.** No. Legacy qualification methods and mechanisms would remain, among other criteria.  
8 These critical elements remain the purview of the utility.

9 **Q. Would adopting a live, online procurement method limit a utility's ability to ladder**  
10 **procurements, select time periods, or segment procurements between residential,**  
11 **small commercial, large commercial, and industrial customers?**

12 **A.** No. On the contrary, use of EnerNOC's technology should enable simpler and more  
13 efficient use of laddering and layering, different time periods, segments, and blocks.

14 **Q. Why is now the right time to implement these procurement methods?**

15 **A.** Implementing second-generation procurement technology fundamentally improves the  
16 competitiveness of bidding and as an outcome, ratepayers benefit through better pricing. It  
17 also makes the day-to-day operations of the Commission easier and more efficient, and it  
18 makes the utility administration of procurement events easier and more efficient.

19 **Q. Does this complete your testimony?**

20 **A.** Yes.