

IESO York Region Non-Wires Alternatives Demonstration Project

Demonstration Project Rules (v. 2.0)

[NTD: This document provides an overview of the currently proposed rules for the IESO York Region Non-Wires Alternatives Demonstration Project and is subject to on-going revision. The posting of this document is made exclusively for the convenience of stakeholders, prospective participants, and other interested parties.]

The information contained in this document and related documents shall not be relied upon by any stakeholder, prospective participant, or other interested party as a basis for any commitment, expectation, interpretation and/or design decision.]

Contents

1.	Introduction.....	5
1.1	About the IESO.....	5
1.2	About Natural Resources Canada.....	6
1.3	About Alectra.....	6
1.4	Demonstration Objectives.....	6
1.5	The Demonstration Area.....	7
1.6	Responsibility for DER Viability.....	8
1.7	The Software Platform & Notices.....	8
1.8	Demonstration Overview.....	9
1.9	Account Numbers.....	10
2.	Eligibility Requirements.....	11
2.1	Registrant Eligibility (Direct Participants).....	11
2.2	DER Eligibility (Direct Participants).....	12
2.3	Registrant Eligibility (Aggregators).....	14
2.4	DER Eligibility (Aggregators).....	15
3.	Registration Completeness Requirements.....	17
3.1	Registration Materials.....	17
3.2	Initial Registration: Covenants, Representations & Warranties.....	18
3.3	Supplemental Registration: Representations and Warranties.....	18
4.	Registration Submission and Review.....	19
4.1	Registration Submission.....	19
4.2	Eligibility Notice.....	23
5.	Local Capacity Auction.....	23
5.1	Capacity Auction Period.....	23
5.2	Pre-Auction Report.....	23
5.3	Representations and Warranties.....	24
5.4	Auction Deposit.....	25
5.5	Local Capacity Target and Reserve Sub-Target Capacity.....	26
5.6	Capacity Auction Format.....	26
5.7	Maximum and Minimum Capacity, Energy and Reserve Prices.....	26
5.8	Capacity Offer Submission.....	27

5.9	Capacity Auction Clearing.....	28
5.10	Contract	31
5.11	Post-Auction Reporting.....	32
5.12	Confirming Eligibility of Contracted DERs	32
5.13	Bid/Offer Submission Start Date	33
6.	Local Energy Auctions and Local Reserve Auctions (Commitment Period).....	33
6.1	The Commitment Period	33
6.2	Local Requirements and Wholesale Market Simulation.....	34
6.3	Local Energy Auction and Local Reserve Auction Format	34
6.4	Bid/Offer Format	35
6.5	Maximum and Minimum Energy Price and reserve price	36
6.6	Bid/Offer Submission.....	36
6.7	Auction Clearing, scheduling and Activation.....	37
6.8	Demonstration Interoperability with the Wholesale Market	40
6.9	Outages.....	40
6.10	Test Activations and Test Deployments.....	41
7.	Settlement.....	44
7.1	Availability Payments.....	45
7.2	DLMP and reserve Payments	45
7.3	Test Activation Payments and Test Deployment Payments	45
7.4	Non-Performance Charges.....	46
7.5	Meter Data.....	47
8.	Changes to Contributor DERs	47
9.	Demonstration Review and Amendments	48
10.	Confidentiality.....	48
11.	Additional Rules	49
11.1	Reserved Rights	49
11.2	Assignment	50
11.3	Termination.....	50
11.4	General.....	51
11.5	Interpretation.....	53
	Appendix A - Glossary of Terms.....	55
	Appendix B – Electricity Retailer Waiver.....	74

Appendix C – 2021 Local Capacity Auction Mock Timeline	77
Appendix D – Contract	78
Appendix E – Activation and Scheduling	79
Appendix F – Process Overview.....	81
Appendix G – DSO Coordinates.....	82

1. Introduction

These Rules set out the eligibility requirements and auction processes associated with the IESO York Region Non-Wires Alternatives Demonstration Project (the “**Demonstration**”) developed by the Independent Electricity System Operator (“**IESO**”) and Alectra Utilities Corporation (“**Alectra**”). Alectra is the distribution system operator for the Demonstration (the “**DSO**”).

Capitalized terms used in these Rules, unless the context otherwise requires, have the meaning ascribed to those terms in the *Appendix A - Glossary of Terms* attached hereto.

The Rules are intended to provide interested parties with information about:

- Demonstration objectives and scope;
- Demonstration eligibility requirements;
- the mechanics of the Local Capacity Auction and Local Energy Auctions;
- the Contract to be entered into between a Participant and the DSO; and
- Demonstration timelines.

These Rules pertain to the Local Capacity Auction in 2021 for the summer 2022 Commitment Period, and may be amended, superseded or replaced prior to the Local Capacity Auction for the summer 2022 Commitment Period. These Rules include the Appendices attached hereto:

Appendix A – Glossary of Terms
Appendix B – Electricity Retailer Waiver
Appendix C - 2021 Local Capacity Auction Timeline
Appendix D – Contract
Appendix E – Activation and Scheduling
Appendix F – Process Overview
Appendix G – DSO Coordinates.

1.1 ABOUT THE IESO

The IESO ensures there is enough power to meet the province’s electricity needs in real time, operating the electricity grid and markets, while forecasting and monitoring demand for electricity – and coordinating resources and services to meet that demand. It achieves a reliable power system in an efficient manner by balancing the supply of and demand for electricity in Ontario through the IESO-Administered Markets (also referred to collectively as the “**Wholesale Markets**”), planning for the province’s medium-and long-term energy needs, and securing clean sources of supply to meet those needs. The IESO also facilitates innovation that improves the cost-effectiveness and reliability of the province’s electricity system, including demonstration projects, that help achieve these objectives.

The IESO is governed by an independent board of directors whose chair and directors are appointed by the Government of Ontario. Its fees and licenses to operate are set by the Ontario Energy Board (“**OEB**”) and it operates independently of participants in the electricity market.

The IESO Grid Innovation Fund advances innovative opportunities to achieve electricity bill savings for Ontario ratepayers by funding programs that either enable customers to better manage their energy consumption or reduce the costs associated with maintaining reliable operation of the province's grid. The Demonstration is supported by funding from the IESO Grid Innovation Fund.

1.2 ABOUT NATURAL RESOURCES CANADA

Natural Resources Canada ("NRCan") is a department of the Canadian Government that is committed to improving the quality of life of Canadians by ensuring the country's abundant natural resources are developed sustainably, competitively and inclusively.

The NRCan Smart Grid Demonstration provides funding for programs to reduce greenhouse gas emissions, better utilize existing electricity assets and foster innovation and clean jobs for demonstration of smart grid technologies. The Demonstration is supported by funding from NRCan.

1.3 ABOUT ALECTRA

Alectra is the LDC serving approximately one million homes and businesses across a 1,924 square kilometre service territory comprising 17 communities including Alliston, Aurora, Barrie, Beeton, Brampton, Bradford, Guelph, Hamilton, Markham, Mississauga, Penetanguishene, Richmond Hill, Rockwood, St. Catharines, Thornton, Tottenham and Vaughan. Alectra holds OEB Electricity Distributor Licence No. ED-2016-0360 for its licensed service territory and is the acting DSO for the Demonstration.

Alectra contributes to the economic growth and vibrancy of the communities it serves by investing in essential energy infrastructure, delivering a safe and reliable supply of Electricity, and providing innovative energy solutions.

1.4 DEMONSTRATION OBJECTIVES

The IESO, the project sponsor and electricity market operator, and Alectra, the acting DSO, have initiated the Demonstration in York Region to explore how to use Distributed Energy Resources ("DERs") as Non-Wires Alternatives ("NWAs") to help meet electricity system needs. When used in the Demonstration as NWAs, DERs are expected to help meet local system needs by managing local peak demand. When not used as NWAs in the Demonstration to help meet local system needs, the DERs are expected to be available to support wholesale-level needs. DERs can offer services to defer, reduce, or avoid capital and operating costs associated with the distribution networks as well as transmission network and resource infrastructure.

The objectives of the Demonstration include:

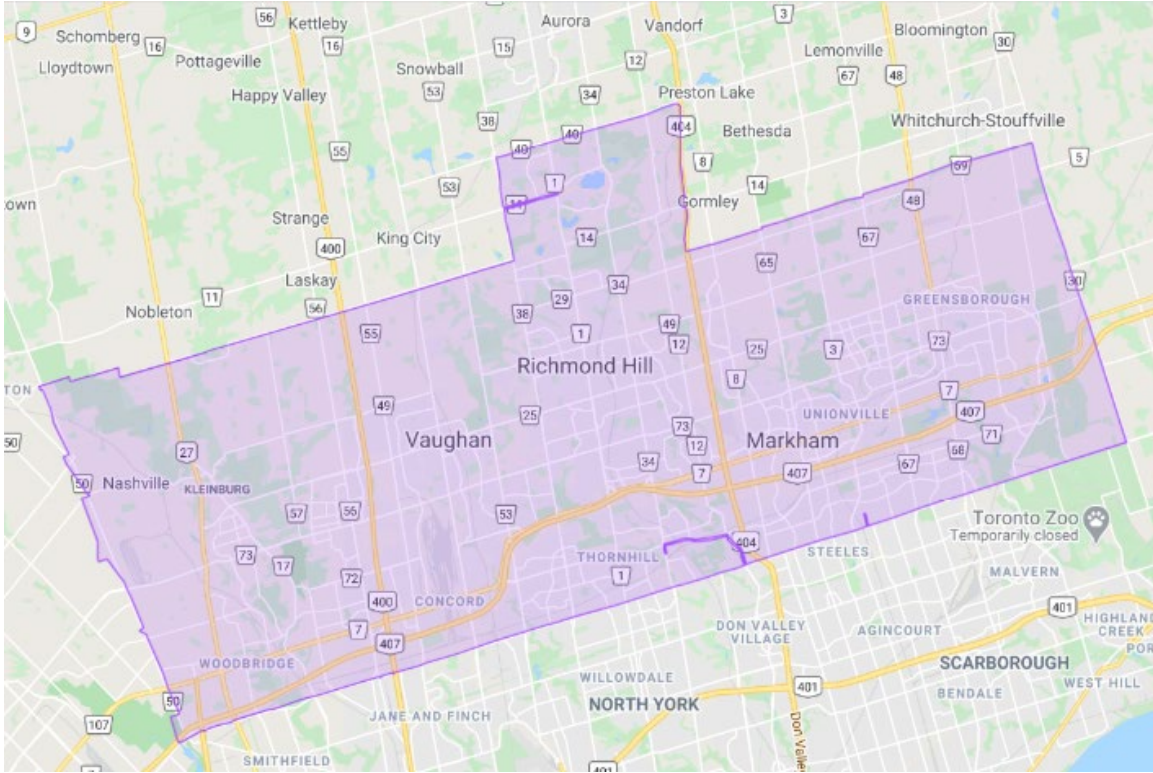


Figure 1: Demonstration Area

There will only be a single zone for the 2022 Commitment Period.

More information about the Demonstration Area can be found on the Website.

Alectra customers can verify whether a particular Connection Point associated with their account is located within the Demonstration Area using a search tool accessible via the Website and confirming the Meter Number with the DSO.

1.6 RESPONSIBILITY FOR DER VIABILITY

Persons participating in the Demonstration are solely responsible for ensuring the technical, regulatory, financial and economic and overall viability of their DERs. The DSO shall have no responsibility whatsoever to independently assess the viability of any DER, nor any liability whatsoever in the event a DER is not viable in any respect.

1.7 THE SOFTWARE PLATFORM & NOTICES

The DSO will use the Platform to register Demonstration participants and DERs, contract, schedule and activate DERs, and carry out settlement (i.e. payment for services). The Platform is accessible via the Website.

Notices sent by the DSO to Registrants, Eligible Registrants and Participants will be sent via the Platform. The DSO will also use reasonable efforts to send a copy of any such Notice by email to the registered email the Registrant has provided in its Registration. Once a Contract is entered into, Participants are responsible for routinely checking the Platform, reviewing and responding to, where required, all Notices. In particular, the Participant shall be wholly responsible, and the DSO shall not have any liability to the Participant, in the event the Participant fails to take any necessary actions during the Commitment Period following and pursuant to any Notice that is provided using the Platform or sent by email.

Unless required to respond directly on the Platform or otherwise noted in these Rules, Registrants, Eligible Registrants and Participants should contact the DSO using the email listed in *Appendix G – DSO Coordinates*.

1.8 DEMONSTRATION OVERVIEW

Persons that meet the eligibility criteria of the Rules are invited to apply to register in the Demonstration. Registration is carried out exclusively via the Platform. The DSO retains the discretion to approve Registrations.

The Registration process is divided into two stages. The Initial Registration pertains to registering the Registrant and some preliminary information with respect to the DERs, while the Supplemental Registration pertains to finalizing registration of the DERs. The Initial Registration must be completed within the Initial Registration Period. The Supplemental Registration must be completed within the Supplemental Registration Period.

There are two categories of Registrants: Direct Participants and Aggregators. Direct Participants are DSO customers (or future customers) and participate in the Demonstration with one or more DERs that are directly connected to the DSO's Distribution System and for which the Direct Participant has User Rights (a "**Direct DER**"). Aggregators are not customers of the DSO, but rather participate in the Demonstration by aggregating User Rights over DERs that are directly connected to the DSO's Distribution System and owned by a Contributor (a "**Contributor DER**"). For clarity, with respect to Demand Response Resources for both Contributor DERs and Direct DERs, the DER is comprised exclusively of the load facility, and does not include any behind-the-meter facilities that service such load facility.

Registrants that successfully complete the Initial Registration process will be issued an Eligibility Notice (defined below). Registrants who have received an Eligibility Notice in respect of one or more DERs will be entitled to offer their capacity into the Local Capacity Auction and are considered "**Eligible Registrants**" (as further defined herein).

Eligible Registrants with one or more DERs that clear the Local Capacity Auction will be assigned a Local Capacity Obligation for each DER that clears the auction, and Eligible Registrants with one or more Reserve-Capable DERs that clears the Local Capacity Auction will be assigned a Local Reserve Obligation for each Reserve-Capable DER that clears the auction. A DER is considered "**Reserve-Capable**" for the purposes of these Rules if it is capable of Delivering or Reducing its Energy, for the entirety of its DER

Capacity, within 30 minutes of receiving notice to do so, and such Delivery or Reduction of Energy can be sustained for up to 4 hours.

Eligible Registrants with a Local Capacity Obligation and, if applicable, Local Reserve Obligation, will be required to make the applicable DER(s) available to provide Local Capacity and Reserve, if applicable, during the “**Availability Window**”, being each Business Day from 12:00 EDT to 21:00 EDT during the Commitment Period. Note that for the purposes of the Demonstration, day-light savings time will not be observed and the Availability Window will not be adjusted to turn back clocks by an hour over the summer period.

Eligible Registrants with a DER(s) that clears the Local Capacity Auction will be issued a Contract for the duration of the Commitment Period. Once a Contract has been executed, the Eligible Registrant is considered a “**Participant**” and will be required to meet certain ongoing eligibility and performance requirements related to the DER that is set out in the Contract. Pursuant to the Contract, a Participant will receive an Availability Payment, which is intended to cover a DER’s costs associated with making its Eligible Capacity available in the Local Energy Auctions.

Following the clearing of the Local Capacity Auction, Participants will be required to complete the Supplemental Registration with respect to their DERs. The DSO will assess the DERs against the eligibility criteria set out in these Rules. DERs that have been approved by the DSO in the Supplemental Registration will be obligated to participate in the Local Energy Auction.

Local Energy Auctions will run each Business Day during the Commitment Period. Pursuant to the Contract, Participants will be obligated to Bid or Offer their DERs, as applicable, into the Local Energy Auction for each hour within the Availability Window. The DSO will provide notice to the Participants that have cleared the Local Energy Auction to activate their DERs to manage the peak loading in the Demonstration Area to meet simulated distribution-level and transmission-level needs. Participants with DERs that are activated will Deliver Energy (Thermal Resources or Storage Resources) or Reduce Energy (Demand Response Resources) and will be compensated for the energy services they provide. Participants that fail to meet their Local Capacity Obligations or Local Reserve Obligations or fail to adhere properly to activation or deployment instructions, as applicable, will be subject to non-performance charges under the Contract and may be default thereunder.

Throughout the Demonstration, participants will be required to make certain covenants, representations and warranties: (i) at the time of Initial Registration and Supplemental Registration; (ii) prior to the Local Capacity Auction; and (iii) as part of the Contract upon its execution. Interested parties are encouraged to review the covenants, representations and warranties in detail to ensure their understanding prior to initiating the registration process.

An overview of the Demonstration is laid out in *Appendix F – Process Overview*, attached hereto.

1.9 ACCOUNT NUMBERS

Direct Participants and Contributors must be DSO customers with an active account (the “**DSO Customer Account**”, which account must be in good standing at the time of Initial Registration and

- i) Meter Number;
 - ii) actual In-Service Date;
 - iii) whether the Eligible DER is Reserve-Capable; and
 - iv) if applicable, an Outage Notice providing the dates for any Planned Outages falling within the Commitment Period for the Direct DER.
- d) A Registrant that is an Aggregator will be required to provide the following information if not already provided in the Initial Registration:
- i) whether the Aggregator DER is Reserve-Capable;
 - ii) with respect to each Contributor DER:
 - A. Meter Number;
 - B. confirmation that it has acquired the necessary User Rights over such Contributor DER; and
 - C. if applicable, an Outage Notice providing the dates for any Planned Outages falling within the Commitment Period for an Aggregator DER.
- e) The Registrant must complete the Supplemental Registration within the Supplemental Registration Period.

4.1.3. Review and Assessment

- a) The Initial Registration and Supplemental Registration must be completed using the Platform within the Initial Registration Period and Supplemental Registration Period, respectively, failing which the Registration will be deemed incomplete and will be Terminated in accordance with Section 11.3.
- b) Initial Registrations and Supplemental Registrations that are submitted within the Initial Registration Period and Supplemental Registration Period respectively, will be reviewed by the DSO for completeness and subsequently assessed for eligibility as outlined below:
 - i) Information submitted during the Initial Registration pertaining to the Registrant will be reviewed for completeness and, if complete, the DSO will assess the Registrant against the eligibility requirements in Section 2.1 (Direct Participants) and Section 2.3 (Aggregators), as applicable. In the event the Initial Registration is not considered complete, or the Registrant is not considered eligible by the DSO in its discretion, the Registration will be subject to Termination in accordance with Section 11.3.
 - ii) In the event the DSO approves the Initial Registration, the DSO will send the Registrant a Notice that they may proceed with completing the Supplemental Registration by submitting all required information pertaining to the Eligible DERs.
 - iii) Information submitted during the Supplemental Registration will be reviewed for completeness and, if complete, the DSO will assess the Eligible DERs against the eligibility requirements in Section 2.2 and Section 2.4, as applicable.

- iv) With respect to a Registrant that is an Aggregator, the Contributor DERs that successfully complete the Supplemental Registration will be included on the Contributor List for the Aggregator DER. Changes to the Contributor List may only be made in accordance with Section 8 of the Rules and following the issuance of a Contract for the Aggregator DER.
- v) In the event the Supplemental Registration is not considered complete, or all, but not less than all of the Eligible DERs submitted are deemed ineligible by the DSO in its discretion, the Registration will be subject to Termination by the DSO in accordance with Section 11.3.
- vi) Direct DERs, Contributor DERs and Aggregator DERs that do not meet the eligibility criteria in Section 2.2 and Section 2.4, as applicable, will not be permitted to participate in the Local Energy Auction or Local Reserve Auction and the DSO will draw down on the Completion Security in accordance with Section 5.12 for each such ineligible DER.
- c) Registration delivered through the Platform must be fully transmitted and fully received during the Initial Registration Period and Supplemental Registration Period, as applicable.
- d) The DSO will only review information submitted through the Platform. Information submitted through email or any other form will not be considered unless it constitutes Additional Information (defined below) and specifically requested by the DSO.
- e) The calendar and clock within the Platform, whether accurate or not, will establish the time of Registration. The DSO will not be responsible for late deliveries or deliveries through any means other than the Platform.
- f) The DSO may, at its discretion, request Additional Information from a Registrant in order to assess a Registration against the eligibility requirements of these Rules. Additional Information must be submitted within the requested timeframes, failing which the Registration shall be deemed incomplete and Terminated in accordance with Section 11.3.
- g) The Registration, and Additional Information, if any, must be in English.
- h) Registration must be completed having regard to these Rules, including *Appendix A - Glossary of Terms*, and must meet the requirements set out in these Rules.
- i) All materials submitted during the Registration process are the property of the DSO and shall not be returned to the Registrant for any reason.

Any Registrant whose Registration has been Terminated may submit a new Registration in respect of the DER(s) that were included in the Terminated Registration or any other DER during a subsequent Local Capacity Auction registration period in accordance with the Rules. The DSO may, in its discretion, allow a Registrant to re-submit an Initial Registration or Supplemental Registration that was terminated within the same registration period.

Additional details pertaining to use of the Platform and the Registration process can be found in Section 3.1 above and the Website.

- b) Maximum Energy Price and Minimum Energy Price so that Eligible Registrants that choose to participate in the Local Capacity Auction are aware of the range of Bids/Offers they may submit into the Local Energy Auction during the Commitment Period in the event they clear the Local Capacity Auction.
- c) Maximum Reserve Price and Minimum Reserve Price so that Eligible Registrants that choose to participate in the Local Capacity Auction as Reserve-Capable Eligible DERs are aware of the range of Offers (Reserve) they may submit into the Local Reserve Auction during the Commitment Period in the event they clear the Local Capacity Auction.

The Maximum Energy Price, Minimum Energy Price, Maximum Reserve Price and Minimum Reserve Price are further described in Section 6.5.

5.8 CAPACITY OFFER SUBMISSION

Capacity Offers into the Local Capacity Auction will be made exclusively through the Platform. Eligible Registrants can submit one Capacity Offer per Eligible DER.

A “**Capacity Offer**” in the Local Capacity Auction will be specific to an Eligible DER and will require the completion of three fields in the Platform for each price-quantity pair, along with one additional field indicating whether the Eligible DER is Reserve-Capable:

- First, the quantity of DER Capacity (in kW), in increments of 10 kW, that is being offered into the Local Capacity Auction;
- Second, the price (in \$/kW-day) at which the Eligible Registrant is willing to supply 1 kW of DER Capacity per day;
- Third, an indication as to whether the price-quantity pair has a full or partial clearing flag, as described in subsection (h) below; and
- Fourth, if the Eligible DER is Reserve-Capable, an indication that all of its price-quantity pairs have a Reserve-Capable clearing flag.
- A Capacity Offer that is flagged as Reserve-Capable is referred to herein as a “**Capacity Offer (Reserve)**” and shall constitute a subset of the Capacity Offers.
- With respect to Aggregators, the above fields will be completed for each Aggregator DER that is an Eligible DER.

Each Capacity Offer must comply with the following requirements:

- a) Eligible Registrants must submit Capacity Offers individually for each Eligible DER;
- b) A Capacity Offer would, if accepted, be binding for the entirety of the Commitment Period;
- c) The Capacity Offer will only be applicable for each day there is an Availability Window;
- d) The Capacity Offer quantity must not be less than 100 kW and must not exceed the Eligible Capacity for the Eligible DER;
- e) The Capacity Offer price must not be less than the Minimum Capacity Price and must not be greater than the Maximum Capacity Price;
- f) Eligible Registrants will be able to submit up to five (5) monotonically increasing price-quantity pairs (i.e. as the quantity increases so does the price), with the total offered quantity of all price-quantity pairs equal to or less than the Eligible Capacity for the Eligible DER;

On the Bid/Offer Submission Start Date the Platform will send notice to Participants inviting them to begin submitting their Offers or Bids, as applicable, for the first Local Energy Auction and the first Local Reserve Auction, if applicable, for each of their Contracted DERs. Bids/Offers must be in place prior to the Commitment Period start date or Participants risk incurring non-performance charges. Once submitted, a Bid/Offer will remain in place as a standing Bid/Offer throughout the Commitment Period and will apply to subsequent Local Energy Auctions and Local Reserve Auctions unless the Participant takes steps to change the Bid/Offer or withdraw it.

Participants will be able to submit and change Bids/Offers for Contracted DERs throughout the Commitment Period except during the hours of 09:00 EDT to 10:00 EDT of a Standby Day. Bids/Offers for the Availability Window of a Business Day in the Commitment Period must be updated by 09:00 EDT to apply to the Availability Window of that Business Day. Amendments made to Bids/Offers after 10:00 EDT of any Business Day will only be applied to the Availability Window of the next Business Day.

In the event a Participant fails to submit Bids/Offers for a Contracted DER by 09:00 EDT on the first Activation Day (defined below) of the Commitment Period, withdraws its Bids/Offers at any time during the Commitment Period, or submits Bids/Offers that are less than the Local Capacity Obligation or Local Reserve Obligation, if applicable, for the respective Contracted DER, non-performance charges shall apply.

6.7 AUCTION CLEARING, SCHEDULING AND ACTIVATION

A Standby Notice may be issued to Participants for each Contracted DER at 07:00 EDT of each Standby Day. The Standby Notice informs the Participant that their Contracted DER(s) may be activated by the DSO as a result of the Local Energy Auction or scheduled by the DSO as a result of the Local Reserve Auction during the upcoming Availability Window.

Standby Notices will be sent to Participants via the Platform and email.

Following issuance of the Standby Notice, the DSO will continue to update the Loading Forecast using the most recent data and use the updated Loading Forecast to confirm whether there is a Local Requirement in each hour during the Availability Window. An hour in which a Contracted DER is activated to meet the Local Requirement is a “**DSO-Activation Hour**”.

The DSO will also monitor the Activation Shadow Price for each hour during the Availability Window to assess whether Bids or Offers (Energy) are less than the Activation Shadow Price. The activation of a Contracted DER based on the Activation Shadow Price is a “**TSO-Activation Hour**”. An hour during the Availability Window that is either a DSO-Activation Hour or a TSO-Activation Hour for a Contracted DER is referred to as an “**Activation Hour**” (as further defined in *Appendix A – Glossary of Terms*). A Business Day during the Commitment Period that has an Activation Hour is referred to as an “**Activation Day**”.

Following issuance of the Standby Notice, the DSO will determine whether there is a Local Reserve Requirement for each Activation Hour in accordance with Section 6.2 above.

discretion, require such Contracted DER to undergo a second Test Deployment. Failure by the Contracted DER to successfully complete a subsequent Test Deployment will result in:

- the forfeiture of the Contracted DER's right and obligation to participate in the Local Reserve Auction for the Commitment Period; and
- if the Local Reserve Clearing Price is greater than the Local Capacity Clearing Price, then the Contracted DER would become subject to the Local Capacity Clearing Price following its failure of the second Test Deployment.

A Contracted DER that fails two Test Deployments may continue to participate in the Local Energy Auctions in respect of its Local Capacity Obligation only. Such Contracted DER would be subject to Test Activations in accordance with the procedure described in the balance of this Section 6.10.

The DSO may determine in its discretion that a Test Deployment for a Contracted DER is not required if the DSO is able to verify that the Contracted DER satisfied the performance parameters during a previous Test Deployment within the Commitment Period. During a Test Deployment, the Quantity Deployed for the Contracted DER for each Test Deployment Interval must be within a twenty percent (20%) dead-band of the Quantity Reserved for such Contracted DER (e.g. at least 80% of the Quantity Reserved must be Deployed for each Test Deployment Interval). Test Deployments will be evaluated for each Test Deployment Interval.

Performance parameters for Test Deployments for Demand Response Resource (C&I) will be assessed in accordance with the baselining methodologies outlined in *Exhibit D – Demand Response Baselining* of the Contract.

7. Settlement

A Participant that meets its Local Capacity Obligation and Local Reserve Obligation (if applicable) by providing Energy and Reserve (if applicable) during the Commitment Period will be compensated for such services on a monthly basis in accordance with the terms of the applicable Contract. Monthly settlement will be done on a stand-alone basis in accordance with the DSO's invoicing process, such that Participants will receive an invoice specific to the Demonstration that is separate from any monthly electricity bill associated with Alectra, as their LDC.

For each Contracted DER the Monthly Payment shall be equal to the amount specified in Exhibit C of the applicable Contract..

In the event the non-performance charges are greater than the total payments made to the Participant in the Monthly Payment, the Monthly Payment shall be zero dollars. *Exhibit C – Settlement* of the Contract sets out the calculations for each of the Availability Payment, DLMP Payment, Local Reserve Payment, Test Activation Payment, Test Deployment Payment, and the non-performance charges in detail.

7.1 AVAILABILITY PAYMENTS

Availability Payments compensate a Participant for the Local Capacity it makes available during the Commitment Period. A Participant will receive Availability Payments for each month in the Commitment Period in which it has a Local Capacity Obligation and a Local Reserve Obligation, if applicable, regardless of whether it is activated, scheduled or deployed, as applicable, in the Local Energy Auctions or Local Reserve Auctions. The Availability Payment is based on the Local Capacity Obligation, Local Capacity Clearing Price (normalized hourly), Local Reserve Obligation, if applicable, Local Reserve Clearing Price (normalized hourly), if applicable, Availability Window and number of Business Days within a month. The Local Capacity Obligation amount (kW) and Local Reserve Obligation amount (kW) is specific to the Contracted DER. The Local Capacity Clearing Price or Local Reserve Clearing Price will be specified in the applicable Contract for all Contracted DERs.

7.2 DLMP AND RESERVE PAYMENTS

The Contract is structured as a contract for differences. In order to simulate the economics of a Participant being exposed to Distribution Locational Marginal Price, Distribution Locational Marginal Price payments or “**DLMP Payments**” will be provided in the Demonstration to a Participant for the Quantity Delivered/Reduced during Activation Hours. For each Activation Hour that a Participant successfully Delivers Energy (in the case of Thermal Resources or Storage Resources) or successfully Reduces Energy (in the case of Demand Response Resources), the Participant will be paid the DLMP Payment equal to the Quantity Delivered/Reduced (kWh) multiplied by a price per kilowatt hour (\$/kWh) that is equal to the Distribution Locational Marginal Price (DLMP) less the Hourly Ontario Energy Price, as more fully specified in the applicable Contract.

In addition, in order to compensate Participants for Reserve provided during the Commitment Period, “**Local Reserve Payments**” will be provided in the Demonstration to a Participant for the Quantity Reserved during Reserve Hours. For each Reserve Hour that a Participant provides Reserve, the Participant will be paid the Local Reserve Payment equal to the Quantity Reserved (kW) multiplied by a price per kilowatt (\$/kW) that is equal to the Local Reserve Price, as more fully specified in the applicable Contract.

7.3 TEST ACTIVATION PAYMENTS AND TEST DEPLOYMENT PAYMENTS

Test Activation Payments compensate a Participant for the Quantity Delivered/Reduced provided during a Test Activation. For each Test Activation Hour that a Participant successfully Delivers Energy (in the case of Thermal Resources or Storage Resources) or Reduces Energy (in the case of Demand Response Resources), the Participant will be paid an amount equal to the Quantity Delivered/Reduced multiplied by a fixed Test Activation rate of \$0.25/kWh.

Test Deployment Payments compensate a Participant for the Quantity Deployed during a Test Deployment. For each Test Deployment Interval that a Participant successfully Delivers Energy (in the

case of Thermal Resources or Storage Resources) or Reduces Energy (in the case of Demand Response Resources (C&I)), the Participant will be paid an amount equal to the Quantity Delivered/Reduced multiplied by a fixed Test Deployment rate of \$0.25/kWh.

In addition, if the DSO issued a Reserve Notice to a Participant solely for the purpose of performing a Test Deployment, for each Test Reserve Hour, the Participant will be paid an amount (the “**Test Reserve Payment**”) equal to the Quantity Reserved multiplied by a fixed rate of \$0.03/kW.

7.4 NON-PERFORMANCE CHARGES

Non-performance charges resulting from a failure to satisfy Local Capacity Obligations and Local Reserve Obligations are intended to incentivize compliance, ensure integrity of the Local Energy Auctions and Local Reserve Auctions and avoid the DSO paying for the Local Capacity that has not been provided (whether to meet the Local Requirement or the Local Reserve Requirement). A Participant that fails to meet its obligations under the Contract will be liable for non-performance charges. Non-performance charges in the Demonstration are applicable to each category of Permitted Resource and are laid out in detail in *Exhibit C – Settlement* of the Contract.

Availability Charges apply when a Participant fails to submit Offers (Energy) or Bids in the Local Energy Auctions for Local Capacity up to their Local Capacity Obligation or when a Participant fails to submit Offers (Reserve) in the Local Reserve Auction for Reserve up to their Local Reserve Obligation, as applicable. For greater clarity, a Participant who fails to meet both its Local Capacity Obligation and Local Reserve Obligation, if applicable, will be subject to an Availability Charge for each such failure. Availability Charges are structured to be a partial charge such that the Participant will only be charged for that portion of the Local Capacity Obligation or Local Reserve Obligation, as applicable, that was not provided.

Capacity Charges apply to a Contracted DER that fails a Test Activation or Test Deployment.

Dispatch Charges apply to a Contracted DER that is a Thermal Resource, Storage Resource or Demand Response Resource (C&I) when they fail to follow their activation instructions. A fifteen percent (15%) dead band of the dispatch instruction will be used in this assessment, which will be conducted on a 5-minute interval basis, as further detailed in *Exhibit C – Settlement* in the Contract. Demand Response Resources (C&I) are evaluated using a baseline that is calculated in accordance with *Exhibit D – Demand Response Baseline* of the Contract. Dispatch Charges do not apply to Demand Response Resources (Residential). For clarity, a Contracted DER that has been deployed to meet the Local Reserve Obligation and fails to Deliver Energy (in the case of Thermal Resources or Storage Resources) or Reduce Energy (in the case of Demand Response Resources (C&I)) within thirty (30) minutes following the receipt by a Participant of a Deployment Notice is deemed to have failed to follow its deployment instructions.

In addition to incurring Capacity Charges and Dispatch Charges, as applicable, any Contracted DER that (i) fails a Test Deployment, or (ii) fails to follow its deployment instructions, on a given Activation Day, will not receive any Local Reserve Payments (to which it would have otherwise been entitled if not for such failures) for that Activation Day.

7.5 METER DATA

The DSO has access to the meters and meter data for each Contracted DER. In the event of a dispute or breakdown of a meter, Measurement Canada will be responsible for settling any outstanding disputes between the Parties with respect to the meter and meter data used in the Demonstration.

8. Changes to Contributor DERs

Following the close of the Supplemental Registration Period and until the end of the Commitment Period, a Participant that is an Aggregator may request to amend its Contributor List for the Contracted DER by exchanging a Contributor DER for one or more new Contributor DERs (i.e. Contributor DERs that were not previously registered and are not on the Contributor List) by submitting a Change Request. Any new Contributor DER must meet the applicable eligibility criteria in these Rules.

Change Requests must be made at least fourteen (14) Business Days ahead of the first day of each month of the Commitment Period (the “**Change Request Date**”) for a total of six Change Request submission windows. The DSO will review all Change Requests received by the Change Request Date for the upcoming month and notify the Participant of its decision with respect to the Change Request within six (6) Business Days of the Change Request Date. In the event the DSO rejects some or all of the new Contributor DERs that were the subject of the Change Request, the Participant shall have two (2) Business Days following Notice from the DSO to submit a revised Change Request with alternative new Contributor DERs. The DSO shall provide its decision with respect to the revised Change Request no later than two (2) Business Days prior to the first day of the upcoming month in the Commitment Period.

All Change Requests will be submitted for DSO approval using the “Manage Meter Number” feature accessible via the Platform and, with respect to a Contracted DER that is a Demand Response Resource (Residential), must be done simultaneously with the identification of the Control Group for the Contracted DER in accordance with the terms of the Contract. The Control Group must be identified fourteen (14) Business Days ahead of the first day of each month of the Commitment Period. For clarity, new Contributor DERs that are being added to the Contributor List pursuant to the Change Request must be identified as part of the Control Group or Treatment Group at the time the Change Request is submitted.

A Change Request is limited to changing the Meter Number of a Contributor DER that is being removed from the Contributor List (and de-registered from the Demonstration) for the Meter Number of one or more new Contributor DERs. Change Requests will only be approved provided that the new Contributor DER meets the applicable eligibility criteria outlined in Section 2.4 of these Rules, including providing an electricity retailer waiver in the form of *Appendix B – Electricity Retailer Waiver*. Change Requests that are approved by the DSO will be effective the first day of the month following the month in which the Change Request was submitted. Participants may not change any contractually binding information during the Contract term including but not limited to the Permitted Resource category, the Local Capacity Obligation or the Eligible Capacity for the Contracted DER.

or in favour of the Registrant when interpreting such term or provision, by virtue of such fact.

- h) **Notice.** No person may provide any notices or otherwise communicate with the DSO in respect of a Registration other than the primary contact provided in the Registration, provided that a duly authorized signatory of the Registrant may enter into a Contract that is the subject of an Eligibility Notice, if any, in relation to such Registration.
- i) **Number and Gender.** Unless the context otherwise requires, words importing the singular include the plural and vice versa and words importing gender include all genders.
- j) **Severability.** If any provision of these Rules or its application to any Party or circumstance is restricted, prohibited or unenforceable, the provision shall be ineffective only to the extent of the restriction, prohibition or unenforceability without invalidating the remaining provisions of these Rules and without affecting its application to the other Party or circumstances.
- k) **Statutory References.** A reference to a statute includes all regulations and rules made pursuant to the statute and, unless otherwise specified, the provisions of any statute, regulation or rule which amends, supplements or supersedes any such statute, regulation or rule.
- l) **Time.** Time is of the essence in the performance of the Parties' respective obligations.
- m) **Time Periods.** Unless otherwise specified, time periods within or following which any payment is to be made or act is to be done shall be calculated by excluding the day on which the period commences and including the day on which the period ends and by extending the period to the next Business Day following if the last day of the period is not a Business Day.
- n) **References to Time.** Any reference to time in these Rules shall be in the 24-hour clock and shall be read to the millisecond.

Appendix A - Glossary of Terms

In these Rules the following terms shall, unless the context otherwise requires, have the meaning stated below:

Term	Definition
Access Rights	Either title or rights of access to the Site, such rights being sufficient to allow the Registrant, Eligible Registrant or Participant, as applicable, to meet the requirements of the Demonstration, including allowing the DSO to access the Site from time-to-time, as determined by the DSO.
Activation Day	Has the meaning given to it in Section 6.7 of the Rules.
Activation Hour	The hour(s) during the Availability Window that the Contracted DER is obligated to Deliver Energy or Reduce Energy, as applicable, by an amount equal to the Quantity Activated.
Activation Notice	A notice issued to the Participant via the Platform and email on an Activation Day confirming the Activation Hours for the Contracted DER and the Quantity Activated for each such hour, and for clarity, include notices issued to the Contracted DER for Test Activations.
Activation Shadow Price	The shadow price type for the YORKCGS-LT.G1 node published in the <i>IESO Pre-dispatch Shadow Price Report</i> .
Additional Information	Has the meaning given to it in Section 11.1(a) of the Rules.
Affiliate	Any Person that (i) Controls a Person; (ii) is Controlled by a Person; or (iii) is Controlled by the same Person that Controls that Person.
Aggregate Offered Reserve	Has the meaning given to it in Section 5.9 of the Rules.
Aggregate Reserve Quantity	Has the meaning given to it in Section 6.7 of the Rules.
Aggregator	A Person who is not a Direct Participant and has or will have User Rights over more than one Contributor DER, and aggregates such Contributor DERs for the purposes of participating in the Demonstration, including to provide a portion of the Aggregator's Local Capacity Obligation or Local Reserve Obligation, if applicable.
Aggregator DER	Has the meaning given to it in Section 2.3 of the Rules.

Term	Definition
Alectra	Alectra Utilities Corporation.
Amendment	Amendment means a change, revision or addition to the Demonstration, the Rules, or the form of Contract and Amend has a corresponding meaning. For greater certainty, a suspension of the Demonstration, in whole or in part, shall constitute an Amendment.
Approved Meter	Has the meaning given to it in Section 2.2.1(d)(v).
Auction	Either a Local Capacity Auction, a Local Energy Auction, or a Local Reserve Auction, or all three, as applicable.
Auction Deposit	The deposit that is required to be made by an Eligible Registrant as a condition of participating in a Local Capacity Auction pursuant to Section 5.4 of the Rules.
Auction Deposit Date	The date as published in the Pre-Auction Report.
Availability Charge	A non-performance charge (\$) payable by the Participant with respect to the Contracted DER in the event the Participant fails to submit Offers or Bids in the Local Energy Auction, as applicable, for each hour of the Availability Window, as further described in <i>Exhibit C – Settlement</i> of the Contract.
Availability Payment	A monthly amount (\$) that may be paid to a Participant for each Business Day of that month in which a Contracted DER makes its Local Capacity Obligation and Local Reserve Obligation, if applicable, available for dispatch in the Local Energy Auction and Local Reserve Auction, if applicable, as more fully stipulated in <i>Exhibit C – Settlement</i> of the Contract.
Availability Window	Has the meaning given to it in Section 1.8 of the Rules.
Bid	The price per kilo-watt hour (\$/kWh) at which a Participant with a Contracted DER that is a Demand Response Resource will Reduce their Electricity in the Local Energy Auction.
Bid/Offer	Shall refer to: (i) (a) a Bid with respect to a Contracted DER that is a Demand Response Resource; or (b) an Offer (Energy) with respect to a Contracted DER that is a Thermal Resource or a Storage Resource; and (ii) an Offer (Reserve) in respect of a Contracted DER that has a Local Reserve Obligation.
Bid/Offer Submission Start Date	The date Eligible Registrants will be permitted to submit their Bids or Offers, as applicable, for the first Local Energy Auction via the Platform, which date is published in the Pre-Auction Report.

Term	Definition
Biodiesel	<p>A fuel or fuel component that is comprised of mono-alkyl esters of long-chain fatty acids that are derived from plant oils or animal fats, if the fuel or fuel component,</p> <ul style="list-style-type: none"> a) conforms to the detailed requirements shown in Table 1 of ASTM International Standard D6751, entitled “Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels”, as amended from time to time, when tested by the test methods indicated in that standard, or b) is in accordance with the limits specified in Table 1 of European Standard EN 14214, entitled “Automotive Fuels – Fatty acid methyl esters (FAME) for diesel engines – Requirements and test methods”, as amended from time to time, when tested by the test methods indicated in that standard.
Biofuel	<p>A liquid fuel made solely from Biomass and includes ethanol, methanol and Biodiesel.</p>
Biomass	<p>Organic matter, other than source separated organics, that is derived from a plant or animal, is available on a natural renewable basis and is,</p> <ul style="list-style-type: none"> a) grown or harvested for the purpose of being used to generate electricity, b) waste from harvesting or processing agricultural products or waste from processing forestry products, including spent pulping liquor, c) agricultural waste, d) organic waste materials from a greenhouse, nursery, garden centre or flower shop, e) pulp and paper biosolids, f) waste from food processing, distribution and preparation operations, such as food packing, food preserving, wine making, cheese making, restaurants and grocery stores, and includes, as an example, organic waste from the treatment of wastewater from facilities where food or feed is processed or prepared, g) sewage biosolids, h) hauled sewage, i) waste from the operation of a sewage works subject to the <i>Ontario Water Resources Act</i>, as amended from time to time, j) woodwaste, or k) forest resources made available under a forest management plan approved under the <i>Crown Forest Sustainability Act, 1994</i>, as amended from time to time, or a managed forest plan approved under the Managed Forest Tax Incentive Program.

Term	Definition
Blackout Period	The period of time that begins prior to the first day of the Capacity Auction Offer Window and ends after the last day of the Capacity Auction Offer Window, which calendar dates are published in the Pre-Auction Report.
Business Day	Any day other than a Saturday, a Sunday or holiday in Ontario, being New Year's Day, Family Day, Good Friday, Easter Monday, Victoria Day, Canada Day, Labour Day, Thanksgiving Day, Remembrance Day, Christmas Day, Boxing Day, and as further defined in Section 88 of the <i>Legislation Act, 2006</i> , S.O., chap 26, Sched F.
Capacity Auction Offer Window	In respect of a Local Capacity Auction, the period of time during which Eligible Registrants are permitted to submit offers into a Local Capacity Auction, as specified in the Pre-Auction Report.
Capacity Charge	A non-performance charge (\$) applicable to a Contracted DER in the event the Contracted DER fails a Test Activation or Test Deployment, as applicable, and as further described in <i>Exhibit C – Settlement</i> of the Contract.
Capacity Offer	Has the meaning given to it in Section 5.8 of the Rules.
Capacity Offer (Reserve)	Has the meaning given to it in Section 5.8 of the Rules.
Change Request	With respect to a Contracted DER that is an Aggregator DER, a request submitted by the Participant following the close of the Supplemental Registration Period to exchange the Meter Number of an existing Contributor DER for the Meter Number of a new Contributor DER.
Change Request Date	Has the meaning given to it in Section 8 of the Rules.
Claim	A complaint, claim, demand, suit or cause of action in contract, in tort, equity, under a Law, or otherwise.
Commitment Period	The period of time for each Local Capacity Auction over which the DSO secures Local Capacity, and for which a Participant is required to satisfy its Local Capacity Obligation and if applicable, Local Reserve Obligation, by making some or all of its DER Capacity available for dispatch in the Local Energy Auctions and, if applicable, the Local Reserve Auctions; and which period begins at 01:00 EDT on the Commitment Period Start Date and ends at 23:59 on the Commitment Period End Date.
Commitment Period End Date	The last day of the Commitment Period, as provided for in the Pre-Auction Report.

Term	Definition
Commitment Period Start Date	The first day of the Commitment Period, as provided for in the Pre-Auction Report.
Completion Security	The financial security required for the completion of the Supplemental Registration, which is equal to \$2.00/kW multiplied by the Eligible Capacity of the Contracted DER.
Conditions of Service	The conditions in effect from time to time published by the applicable LDC in accordance with the Distribution System Code setting out the conditions of service as between that LDC and a customer of that LDC.
Connection Point	The electrical connection point between a DER and the DSO's Distribution System where the Electricity is withdrawn from, or injected into, the DSO's Distribution System, and is associated with the Meter Number.
Contingency	<p>In any Activation Hour, means any of the following events or circumstances:</p> <ul style="list-style-type: none"> a) a Forced Outage with respect to a Contracted DER; b) the failure by a Participant to acknowledge an Activation Notice; c) the failure by a Participant to follow activation instructions issued by the DSO to provide the Quantity Delivered/Reduced; d) the actual load in the Demonstration Area is materially higher than the Loading Forecasted; e) a partial or total interruption in the ability of a Contracted DER to meet its Local Capacity Obligation; or f) any other event or circumstances deemed to constitute a Contingency by the DSO in its sole and absolute discretion. <p>Whether or not an event constitutes a Contingency will be determined by the DSO in its sole and absolute discretion.</p>
Contract	A contract entered into between the DSO and an Eligible Registrant who successfully clears the Local Capacity Auction and is awarded a Local Capacity Obligation and, if applicable, a Local Reserve Obligation for one or more of its Eligible DERs.
Contracted DER	An Eligible DER that is subject to a Contract.
Contributor	An existing Alectra customer with a Meter Number, that owns one or more DERs and has entered into a legally binding agreement with an Aggregator, pursuant to which it provides the Aggregator User Rights over its DER(s) for the purposes of participating in the Demonstration.
Contributor DER	Has the meaning given to it in Section 1.8 of the Rules.

Term	Definition
Contributor List	With respect to an Eligible Registrant or Participant that is an Aggregator, the list of Contributor DERs that have successfully completed the Supplemental Registration and comprise the Aggregator DER or the Contracted DER, which list shall be established following completion of the Supplemental Registration, and as may be amended in accordance with Section 8 of the Rules.
Control	With respect to any Person at any time (i) holding, whether directly or indirectly, as owner or other beneficiary (other than solely as the beneficiary of an unrealized security interest) securities or ownership interests of that Person carrying votes or ownership interests sufficient to elect or appoint fifty percent (50%) or more of the individuals who are responsible for the supervision or management of that Person; or (ii) the exercise of de facto control of that Person, whether direct or indirect and whether through the ownership of securities or ownership interests or by contract, trust or otherwise; and Controlled by has a corresponding meaning.
Control Group	With respect to a Contracted DER that is a Demand Response Resource (Residential), refers to a subset of Contributor DERs from the Contributor List, which Contributor DERs are randomly selected to be part of such subset in accordance with <i>Exhibit D – Demand Response Baselineing</i> of the Contract.
Delegate	A natural person who shall be duly authorized to act on behalf of the Registrant and with whom the DSO may consult at all reasonable times, and whose instructions, requests, and decisions, provided the same are in writing and made via the Platform or email, shall be binding on the Registrant, Eligible Registrant or Participant, as applicable.
Deliver	In relation to Energy, means delivered to the Connection Point (which, for greater certainty, is net of Site-Specific Losses) and is measured in five-minute intervals by the Contracted DER's Meter, and Delivery, Delivered and Delivering shall have the corresponding meanings.
Demand Response Capacity	The expected Reduction a Demand Response Resource can provide over four (4) consecutive hours during an Availability Window, and with respect to Demand Response Resource (Residential), it is the expected Reduction that the Treatment Group can provide over four (4) consecutive hours during an Availability Window.
Demand Response Resource	Refers to a Demand Response Resource (C&I) and a Demand Response Resource (Residential), collectively.

Term	Definition
Demand Response Resource (C&I)	A facility owned by a commercial or industrial customer that is capable of providing Demand Response Capacity.
Demand Response Resource (Residential)	A dwelling owned by an individual that is capable of providing Demand Response Capacity.
Demonstration	Has the meaning given to it in Section 1 of the Rules.
Demonstration Area	The part of the DSO's service area as defined in Section 1.5 of the Rules.
Demonstration Review	Has the meaning given to it in Section 9(a) of the Rules.
Deployment Interval	Means a five (5) minute interval, which first (or only) Deployment Interval shall commence at least thirty (30) minutes later than the time stamp of the relevant Deployment Notice and which last Deployment Interval shall not extend beyond the end of the last Reserve Hour specified in the applicable Reserve Notice.
Deployment Notice	A notice issued to the Participant via the Platform on an Activation Day instructing the Participant to deploy a Contracted DER, and shall indicate the Deployment Intervals and Quantity Deployed, and for clarity, includes notices issued to the Contracted DER for Test Deployments.
Deployment Payment	Has the meaning given to it in Section 6.7(c).
Deposit Confirmation	Has the meaning given to it in Section 5.4 of the Rules.
DER (Distributed Energy Resource)	A facility capable of providing DER Capacity that is directly connected to the Distribution System as well as all equipment and property comprising the facility as described in the Registration.
DER Capacity	The Demand Response Capacity, Thermal Capacity, or Storage Capacity, as applicable.
DER ID	The number assigned to each DER upon Registration, which number shall be used to identify the DER for the duration of the Demonstration, including the Commitment Period.
Direct Deposit Form	The form that must be completed by the Registrant as part of the Initial Registration and which is available on the Platform and contains details of the Registered Bank Account including: <ul style="list-style-type: none"> i. the name of the registered account holder, ii. the account number, iii. the address of the bank, iv. the institution number, and

Term	Definition
	v. the bank number.
Direct DER	Has the meaning given to it in Section 1.8 of the Rules.
Direct Participant	A Person that participates in the Demonstration directly and not through an Aggregator or other third party.
Dispatch Charge	<p>A non-performance charge (\$) payable by a Participant with respect to a Contracted DER in the event the Participant</p> <p>(i) fails to follow activation instructions issued by the DSO and provide the Quantity Delivered/Reduced within a 15% dead band of the Quantity Activated for such Contracted DER, as further described in <i>Exhibit C – Settlement</i> of the Contract, or</p> <p>(ii) fails to Deliver Energy or Reduce Energy, as applicable, within thirty (30) minutes following a Deployment Notice (which notice shall be time-stamped).</p>
Distribution System	A system connected to the IESO-Controlled Grid for distributing Electricity at voltages of fifty (50) kilovolts or less and includes any structures, equipment or other things used for that purpose, provided that a Distribution System shall be deemed not to include any equipment controlled by the IESO pursuant to the Distribution System Code.
Distribution System Code	The code approved by the OEB and in effect from time to time, which, among other things, establishes the obligations of an LDC with respect to the services and terms of service to be offered to customers and retailers and provides minimum technical operating standards of Distribution Systems.
DLMP (Distribution Locational Marginal Price)	Has the meaning given to it in Section 6.7 of the Rules.
DLMP Payment	Has the meaning given to it in <i>Exhibit C – Settlement</i> of the Contract.
DR (C&I) Baseline	Has the meaning given to it in <i>Exhibit D – Demand Response Baseline</i> of the Contract.
DR (Residential) Baseline	Has the meaning given to it in <i>Exhibit D – Demand Response Baseline</i> of the Contract.

Term	Definition
DSO (Distribution System Operator)	A system operator that manages the low-voltage distribution system and represents a potential new type of entity or function that is distinct from, but has many parallels with a transmission system operator and for the purposes of the Demonstration, Alectra shall be acting as the DSO.
DSO-Activation Hour	Has the meaning given to it in Section 6.7 of the Rules.
DSO Coordinates	The contact information provided for the DSO as set out in <i>Appendix G – DSO Coordinates</i> .
DSO Customer Account	Has the meaning given to it in Section 1.9 of the Rules.
Electrical Safety Code	The code issued by the Canadian Standards Association as amended by the Electrical Safety Authority pursuant to O.Reg. 164/99 of the <i>Electricity Act, 1998</i> .
Electricity or Energy	Electric energy, measured in kWh unless expressly stated otherwise.
Eligibility Notice	Has the meaning given to it in Section 4.2(a) of the Rules.
Eligible Capacity	The capacity (kW) of an Eligible DER determined by the DSO following completion of the Initial Registration by the Registrant, to be eligible to participate in a Local Capacity Auction, provided that such capacity shall not exceed the Demand Response Capacity, Thermal Capacity and Storage Capacity, as applicable for that Eligible DER.
Eligible DER	Means, <ul style="list-style-type: none"> a) with respect to a Direct Participant, a Direct DER, including a Future DER, that was submitted during the Initial Registration and has been approved by the DSO to participate in the Local Capacity Auction for its Eligible Capacity, and b) with respect to Aggregators, an Aggregator DER that was submitted during the Initial Registration and has been approved by the DSO to participate in the Local Capacity Auction for its Eligible Capacity.
Eligible Registrant	Has the meaning given to it in Section 4.2 of the Rules.
Existing Contract	Has the meaning given to it in Section 2.2.2(f) of the Rules.
FIPPA	<i>Freedom of Information and Protection of Privacy Act, R.S.O. 1990, c. F 31.</i>

Term	Definition
Forced Outage	An unanticipated Outage, and for which an Outage Notice is submitted following the Bid/Offer Submission Start Date.
Forward Period	For each Participant, the period of time beginning immediately following acceptance of a Contract and ending on the commencement of the applicable Commitment Period.
Future DER	A Direct DER that has not achieved its In-Service Date.
Governmental Authority	The Crown, any federal, provincial, or municipal government, parliament or legislature, or any regulatory authority, agency, tribunal, commission, board or department of any such government, parliament or legislature, or any court or other law, regulation or rule-making entity, having jurisdiction in the relevant circumstances, including the IESO, the OEB, the Electrical Safety Authority, and any Person acting under the authority of any Governmental Authority.
Hourly Ontario Energy Price	The hourly energy price (\$/kWh) published by the IESO and available at http://www.ieso.ca/Power-Data .
IESO	The Independent Electricity System Operator of Ontario established under Part II of the <i>Electricity Act, 1998</i> or its successor.
IESO-Administered Markets	The Electricity markets administered by the IESO, as further defined in the IESO Market Rules.
IESO-Controlled Grid	The Transmission Systems with respect to which the IESO has authority to direct operations, as further defined in the IESO Market Rules.
IESO Energy Efficiency Auction Pilot	The energy efficiency auction pilot administered by the IESO pursuant to the IESO Market Rules.
IESO Market Rules	The rules made under Section 32 of the <i>Electricity Act, 1998</i> , together with all market manuals, policies, and guidelines issued by the IESO, as may be amended from time to time.
Industrial Conservation Initiative	The industrial conservation initiative allowing participating customers to manage their global adjustment costs pursuant to O.Reg. 429/04 under the <i>Electricity Act, 1998</i> .
Initial Registration	The first stage of the registration process for the Demonstration, which process must be completed via the Platform and requires an interested party to register the Registrant and submit the DER Capacity and Permitted Resource type for each Direct DER, Aggregator DER or Future DER, as applicable.

Term	Definition
Initial Registration Period	The time period during which an interested party can complete the Initial Registration process.
In-Service	A DER that has achieved its In-Service Date.
In-Service Date	The date that a DER, which was not previously operational, is in the case of a Gas-Fired Resource or a Storage Resource, commissioned and synchronized to the DSO's Distribution System such that it is capable of Delivering Energy to the DSO's Distribution System in compliance with Laws, and in the case of a Demand Response Resource, connected to the DSO's Distribution System via the Connection Point such that it is capable of Reducing Energy from the DSO's Distribution System in compliance Laws.
kW	Kilowatts.
kWh	Kilowatt-hours.
Laws	<p>(i) applicable Canadian federal, provincial or municipal laws, orders-in-council, by-laws, codes, rules, policies, regulations and statutes;</p> <p>(ii) applicable orders, decisions, codes, judgments, injunctions, decrees, awards and writs of any court, tribunal, arbitrator, Governmental Authority or other Person having jurisdiction;</p> <p>(iii) applicable rulings and conditions of any licence, permit, certificate, registration, authorization, consent and approval issued by a Governmental Authority;</p> <p>(iv) any requirements under or prescribed by applicable common law;</p> <p>(v) the Retail Settlement Code, the Distribution System Code, and any other codes issued by the OEB from time to time that are binding on the Registrant, Eligible Registrant or Participant, the DSO or the IESO.</p>
LDC	The owner or operator of a Distribution System that is licensed by the OEB as an "electricity distributor".
Loading Forecast	Has the meaning given to it in Section 6.2 of the Rules.
Loading Threshold	Has the meaning given to it in Section 6.2 of the Rules.
Local Capacity	Means the capacity (kW) provided by the Contracted DER for the purposes of meeting the Local Requirement and, if applicable, the Local Reserve Requirement.

Term	Definition
Local Capacity Auction	An auction operated by the DSO to acquire Local Capacity pursuant to these Rules.
Local Capacity Clearing Price	The price at which the Local Capacity Auction clears for a Commitment Period and will be quoted in \$/kW-day.
Local Capacity Obligation	Following the completion of a Local Capacity Auction, with respect to a Contracted DER, the amount of Local Capacity (kW) such Contracted DER is required to provide by participating in the Local Energy Auction, as stipulated in the Contract.
Local Requirement	Has the meaning given to that term in Section 6.2 of the Rules.
Local Energy Auction(s)	An auction operated by the DSO to acquire energy pursuant to Section 6 of these Rules.
Local Energy Price	Has the meaning given to it in Section 6.7 of the Rules.
Local Reserve Auction(s)	An auction operated by the DSO to acquire Reserve pursuant to Section 6 of these Rules.
Local Reserve Clearing Price	The price at which the Local Capacity Auction clears for a Commitment Period in respect of Reserve-Capable Eligible DERs in accordance with the special process (constrained) described in Section 5.9.2 of the Rules, and will be quoted in \$/kW-day.
Local Reserve Obligation	Following the completion of a Local Capacity Auction, the amount of Local Capacity (kW) a Reserve-Capable Contracted DER is required to provide by participating in the Local Reserve Auction, as stipulated in the Contract.
Local Reserve Payment	Has the meaning given to it in Section 7.2 of the Rules.
Local Reserve Price	Has the meaning given to it in Section 6.7 of the Rules.
Local Reserve Requirement	Has the meaning given to that term in Section 6.2 of the Rules.
Maximum Capacity Price	The maximum Capacity Offer (\$/kW) that can be made by an Eligible Registrant in the Local Capacity Auction for supplying Local Capacity which value will be established by the DSO in its discretion.
Maximum Energy Price	The maximum Offer (Energy) or Bid (\$/kWh) that can be made by a Participant in a Local Energy Auction for Delivering Energy or Reducing

Term	Definition
	Energy, as applicable, which price is established by the DSO in its discretion, and will apply throughout the Commitment Period.
Maximum Reserve Price	The maximum Offer (Reserve) (\$/kW) that can be made by a Participant in a Local Reserve Auction for providing Reserve, which price is established by the DSO in its discretion, and will apply throughout the Commitment Period.
Meter Number	The number of the meter of the DER that is registered for the purposes of the Demonstration, which number is assigned by the DSO and associated with a single DSO Customer Account.
Minimum Capacity Price	The minimum Capacity Offer (\$/kW) that can be made by an Eligible Registrant in the Local Capacity Auction for supplying Local Capacity, including Reserve-Capable Local Reserve, which value will be established by the DSO in its discretion.
Minimum Energy Price	The minimum Offer (Energy) or Bid (\$/kWh) that can be made by a Participant in a Local Energy Auction for Delivering Energy or Reducing Energy, as applicable, which price is established by the DSO in its discretion, and will apply throughout the Commitment Period.
Minimum Reserve Price	The minimum Offer (Reserve) (\$/kW) that can be made by a Participant in a Local Reserve Auction for providing Reserve, which price is established by the DSO in its discretion, and will apply throughout the Commitment Period.
Monthly Payment	The payment (\$) a Participant will receive for each month of the Commitment Period, which payment may be zero dollars but shall not be less than zero dollars, and is calculated in accordance with the settlement provisions outlined in <i>Exhibit C – Settlement</i> of the Contract.
MFIPPA	The <i>Municipal Freedom of Information and Protection of Privacy Act</i> , RSO 1990, c. M.56.
MW	Megawatts.
MWh	Megawatt-hours.
Non-Wires Alternatives or NWAs	Resources, including certain DERs, that are capable of providing Services as alternatives to transmission and distribution solutions, such as a new stations or lines.
Notice	A written communication provide by one Party to the other Party concerning any matter directly or indirectly related to the Rules or the

Term	Definition
	Contract, as applicable, and includes Activation Notices and Standby Notices.
OEB	The Ontario Energy Board, or its successor.
Offer	Means an Offer (Energy) or an Offer (Reserve).
Offer (Energy)	The price per kilo-watt hour (\$/kWh) at which a Participant with a Contracted DER that is a Thermal Resource or a Storage Resource will Deliver Electricity in the Local Energy Auction.
Offer (Reserve)	The price per kilo-watt (\$/kW) at which a Participant with a Contracted DER will provide Reserve in the Local Reserve Auction.
Outage	The removal of equipment from service, unavailability for connection of equipment or restriction of use or reduction in performance of the Contracted DER for any reason, including to permit the performance of inspections, tests, repairs or maintenance on the facility, which results in a partial or total interruption in the ability of the Contracted DER to meet its Local Capacity Obligation and Deliver Energy or Reduce Energy, as applicable.
Outage Notice	Has the meaning given to it in Section 6.9.1 of the Rules.
Participant	A Party to a Contract, other than the DSO, who has one or more Contracted DERs with a Local Capacity Obligation(s) and Local Reserve Obligation(s), if applicable, and has authorized as such.
Party	(i) with respect to the Contract, any one of the Participant and the DSO, and the DSO and the Participant are collectively referred to as the Parties ; and (ii) with respect to the Demonstration Rules, any one of the Registrant or the Eligible Registrant and the DSO, and the DSO and the Registrant or the Eligible Registrant are collectively referred to as the Parties .
Permitted Resource	With respect to a Direct DER, has the meaning ascribed to that term in Section 2.2.1 of the Rules, with respect to an Aggregator DER, has the meaning ascribed to that term in Section 2.4.1 of the Rules, and with respect to an Aggregator DER that is a Reserve-Capable DER, and the underlying Contributor DERs thereof, has the meaning ascribed to that term in Section 2.4.3 of the Rules.
Person	A natural person, First Nation that is a “band” as defined in the <i>Indian Act</i> , RSC 1985, c. I-5, co-operative, firm, trust, partnership, limited partnership,

Term	Definition
Planned Outage	<p>company or corporation (with or without share capital), joint venture, sole proprietorship, Governmental Authority or other entity of any kind.</p> <p>An Outage that is intentional and planned ahead of time, and for which an Outage Notice must be submitted before the Bid/Offer Submission Start Date in order to be eligible as a Planned Outage.</p>
Platform	The web-portal operated by the DSO to procure, contract, schedule, dispatch, measure and verify DERs and otherwise run the Demonstration.
Pre-Auction Report	Has the meaning given to it in Section 5.2 of the Rules.
Quantity Activated	The amount (kWh) of Energy that is activated by the DSO pursuant to an Activation Notice for a given DER Activation Hour for the Contracted DER.
Quantity Delivered	The amount (kWh) of Energy that is Delivered.
Quantity Delivered/Reduced	With respect to Thermal Resources and Storage Resources, refers to the Quantity Delivered (kWh), and with respect to Demand Response Resources, refers to the Quantity Reduced (kWh).
Quantity Deployed	The amount (kWh) of Energy that is to be Delivered or Reduced, as applicable, during the applicable Deployment Interval as specified in a Deployment Notice.
Quantity Reduced	The amount (kWh) of Energy that is Reduced, calculated in accordance with <i>Exhibit D – Demand Response Baselineing</i> of the Contract.
Quantity Reserved	The amount (kW) of Reserve that is scheduled by the DSO pursuant to a Reserve Notice for a given DER Reserve Hour for the Contracted DER, including during a Test Deployment.
Reduce	In relation to Energy, means the Energy reduced by a Demand Response Resource at the Connection Point as measured by the Contracted DER’s Meter, or in the case of a Contracted DER that is an Aggregator DER, the Contributor DERs’ Meters, and calculated using the commercial & industrial baselining methodology or the residential baselining methodology outlined in <i>Exhibit D – Demand Response Baselineing</i> of the Contract as applicable, and Reduced and Reduction shall have the corresponding meaning.
Registered Bank Account	A bank account registered in Ontario, which may be in the name of the Participant one of its Affiliates, and which bank account must be capable of sending and receiving of funds by electronic funds transfer.

Term	Definition
Registrant	A Person who has successfully completed the Initial Registration via the Platform to participate in the Demonstration.
Registration	Refers to the Initial Registration and the Supplemental Registration together.
Registration Period	Means the Initial Registration Period and the Supplemental Registration period together.
Reserve	Means Demand Response Capacity (C&I), Thermal Capacity or Storage Capacity, measured in kW, provided by a Reserve-Capable Contracted DER that clears a Local Reserve Auction, which can be called upon on short notice, being thirty (30) minutes or less, by the DSO to replace scheduled Energy supply which is unavailable as a result of a Contingency.
Reserve-Capable	Has the meaning given to it in Section 1.8 of the Rules.
Reserve Hour	Has the meaning given to it in Section 6.7 of the Rules.
Reserve Notice	A notice issued to the Participant via the Platform and email on an Activation Day confirming the Reserve Hours or Test Reserve Hours for the Contracted DER and the Quantity Reserved for each such hour, and for clarity, includes notices issued to the Contracted DER for Test Deployments.
Reserve Sub-Target Capacity	A subset of the Target Capacity that corresponds with the targeted level of Reserve the DSO will seek to clear in a Local Capacity Auction.
Retail Settlement Code	The code established and approved by the OEB, governing the determination of financial settlement costs for electricity retailers, consumers, distributors and generators.
Rules	The rules governing the Demonstration as may be Amended in accordance with its terms, from time to time.
Sensitive Information	Has the meaning given to it in Section 10(b) of the Rules.
Service	Services provided by a DER to the Distribution System and Transmission System, as applicable, which includes providing Local Capacity (kW), Reserve (kW) in accordance with Reserve Notices, and Delivering or Reducing Electricity (kWh) in accordance with Activation Notices and Deployment Notices.
Site	In respect of a DER, is the real property on, over, in or under which the DER is situated, as such real property is identified in the Registration and in the Contract.

Term	Definition
Site-Specific Losses	Electricity losses due to line resistance, the operation of transformers and switches, and other associated losses of Electricity incurred by the DER that may occur as a result of the difference between the location of the meter and the Connection Point, as determined pursuant to loss factors applied in accordance with the Retail Settlement Code and other Laws.
Standby Day	Has the meaning given to it in Section 6.2 of the Rules.
Standby Hour	Has the meaning given to it in Section 6.2 of the Rules.
Standby Notice	The written notice issued by the DSO to the Participant via the Platform and email on a Standby Day informing the Participant that the Contracted DER that is the subject of such notice may be activated that day during the Availability Window pursuant to an Activation Notice or may be subject to a Test Activation.
Standby Shadow Price	The energy shadow price type for the YORKCGS-LT.G1 node published in the <i>IESO Day-Ahead Shadow Prices Report</i> .
Storage Capacity	The power that a Storage Resource is capable of sustaining during four consecutive hours of re-injection of Electricity to the Connection Point when starting fully charged, measured in kW.
Storage Resource	A DER capable of withdrawing Electricity at a controlled rate, storing such Electricity for a controlled period of time and then injecting only the stored Electricity, minus losses arising from roundtrip efficiency, at a controlled rate, all in accordance with all Laws, to the Distribution System.
Supplemental Registration	The second stage of the registration process for the Demonstration, which process must be completed via the Platform and requires the Registrant to complete the registration process for its Eligible DERs.
Supplemental Registration Period	Has the meaning given to it in Section 4.1.2 of the Rules.
Target Capacity	The targeted level of Local Capacity the DSO will seek to clear in a Local Capacity Auction, and includes the Reserve Sub-Target Capacity.
Temporary Account Number	Has the meaning given to it in Section 1.9 of the Rules.
Terminate	With respect to a Registration, means the termination, rejection, discharge and release of the Registration and all rights of the Registrant or Eligible Registrant (if any), and all obligations of the DSO (if any) to the Registrant or

Term	Definition
	Eligible Registrant, in respect of or arising out of the Demonstration, including the Time Stamp.
Test Activation	Has the meaning given to it in Section 6.10 of the Rules.
Test Activation Hour	Has the meaning given to it in Section 6.10 of the Rules.
Test Activation Payment	A monthly amount (\$) that may be paid to a Participant for each Business Day of that month in which a Contracted DER successfully completes one or more Test Activations, as more fully stipulated in <i>Exhibit C – Settlement</i> of the Contract.
Test Deployment	Has the meaning given to it in Section 6.10 of the Rules.
Test Deployment Interval	Has the meaning given to it in Section 6.10 of the Rules.
Test Deployment Payment	A monthly amount (\$) that may be paid to a Participant for each Business Day of that month in which a Contracted DER successfully completes one or more Test Deployments, as more fully stipulated in <i>Exhibit C – Settlement</i> of the Contract.
Test Reserve Hour	Has the meaning given to it in Section 6.10 of the Rules.
Test Reserve Payment	Has the meaning given to it in Section 7.3 of the Rules.
Thermal Capacity	The power that a Thermal Resource is capable of sustaining during four (4) consecutive hours of Delivery to the Connection Point, measured in kW, which is less than or equal to the manufacturer’s total installed rated capacity of the Thermal Resource to generate Electricity, measured in kW.
Thermal Resource	A DER that generates Electricity from natural gas, Biomass, or Biofuel, and delivers such Electricity through a meter in accordance with all Laws, which includes combined-cycle generating facilities and combined heat and power generating facilities.
Time Stamp	The DSO’s official record of the date and time that a Capacity Offer is completed, as generated by the Platform, and Time Stamped shall have the corresponding meaning.
Total Energy Quantity	The total quantity of Energy to be procured by the DSO through a Local Energy Auction, as determined by the DSO in its sole discretion.

Term	Definition
Total Deployment Quantity	The total quantity of Energy, as determined by the DSO in its sole discretion, to be procured by the DSO on an Activation Day from Contracted DERs that have received Reserve Notices.
Total Reserve Quantity	The total quantity of Reserve to be scheduled through a Local Energy Auction, as determined by the DSO in its sole discretion.
Transmission System	A system for conveying electricity at voltages of more than fifty (50) kilovolts and includes any structures, equipment or other things used for that purpose.
Treatment Group	With respect to a Contracted DER that is a Demand Response Resource (Residential), refers to those Contributor DERs on the Contributor List that do not form part of the Control Group, and as further defined in <i>Exhibit D – Demand Response Baseline</i> of the Contract.
TS	Transformer station.
TSO	Transmission system operator, which in Ontario is the IESO, responsible for managing the operations of high-voltage transmission systems and administers a wholesale energy market.
TSO-Activation Hour	Has the meaning given to it in Section 6.7 of the Rules.
User Rights	With respect to a DER that is registered in the Demonstration (being a Direct DER, Contributor DER and, following the entering into of a Contract, a Contracted DER), ownership and operational control, or in absence of ownership and operational control, a contractual right broad enough to permit the Registrant, Eligible Registrant or Participant, as applicable, to use the DER in such a manner to meet the requirements of the Rules and, if applicable, the Contract, which rights shall include but are not limited to, Access Rights, the right to use the DER to participate in the Demonstration and the right to allow the DSO to use and share the meter data from the DER exclusively for the purposes of the Demonstration.
Website	The DSO's Demonstration website at www.YRdemo.ca or such other website as the DSO may designate from time to time.
Wholesale Markets	Has the meaning given to it in Section 1.1 of the Rules.

Appendix B – Electricity Retailer Waiver

CONSENT, ACKNOWLEDGMENT AND WAIVER AGREEMENT

[NTD: because this form of waiver has been amended, participants and their retailers will need to execute a new waiver in order to participate in the second phase of the Demonstration.]

Date	
Legal name of electricity retailer (the “Retailer”)	
Legal name of customer (the “Customer”)	
Address of Customer	
Alectra Account Number	
Alectra Meter/Premise Number	

TO: The Customer, Alectra Utilities Corporation (“**Alectra**”) and the Independent Electricity System Operator (“**IESO**”)

RECITALS:

1. **WHEREAS** the Customer is a party to an electricity retail agreement (the “**ERA**”) with the Retailer.
2. **AND WHEREAS** the ERA may contain provisions that limit the Customer either generally or explicitly from entering into any other contract or agreement relating directly or indirectly to the supply of electricity or any other electricity program.
3. **AND WHEREAS** the Customer would like to participate in the IESO York Region Non-Wires Alternatives Demonstration Project (“**Demonstration**”) which is being administered by Alectra as delivery agent and acting distribution system operator (“**DSO**”).
4. **AND WHEREAS** the Retailer is prepared to provide this consent, acknowledgment and waiver (referred to collectively as the “**Waiver**”) to the addressees of this Waiver.

NOW THEREFORE for good and valuable consideration between the Customer and the Retailer, receipt of which is acknowledged by the signatories hereto, the parties agree as follows:

1. The Retailer acknowledges being advised that the Customer intends to participate in the Demonstration and that it has reviewed a copy of the rules (the “**Rules**”) governing the Demonstration, which are publicly available on the IESO’s website under Active Engagements.
2. The Retailer hereby consents to the Customer participating in the Demonstration either as a Direct Participant or a Contributor DER (as such terms are defined in the Rules).
3. The Retailer acknowledges and agrees that the Customer and the DSO, or the Customer and an Aggregator, as applicable, may enter into contracts relating directly or indirectly to the supply of electricity, capacity and/or energy, including reserve, pursuant to the Demonstration.
4. The Retailer acknowledges and agrees it shall have no entitlement to or receive any benefit from the Customer, the Aggregator or the DSO relating to the Demonstration.
5. The Retailer acknowledges and agrees that Alectra is not in violation of any of its obligations under applicable law by acting in its role as the delivery agent and DSO for the Demonstration.
6. The Retailer acknowledges and agrees that this Waiver shall not give rise to any event of default by the Customer or provide any remedy or right by it as against the Customer or any third party.
7. The Customer acknowledges and agrees that this Waiver shall not give rise to any event of default by the Retailer or provide any remedy or right by it as against the Retailer or any third party.
8. This executed Waiver is being provided pursuant to the Rules to the parties described therein for the express purposes of ensuring that the Customer meets the eligibility criteria described in (i) Section 2.2.2(g) of the Rules if the Customer is a Direct Participant, and (ii) Section 2.4.2(g) of the Rules if the Customer is a Contributor DER. **[NTD: Confirm cross references before finalization]**
9. Delivery of an executed copy of this Waiver by electronic transmission will be as effective as personal delivery of an originally executed copy.
10. This Waiver may not be assigned by either Party without the prior written consent of the DSO.

[Signatures follow]

Signed the day first above written.

RETAILER

[Retailer name]

Per: _____

Name:

Title:

I have authority to bind the Retailer

CUSTOMER (LEGAL ENTITY)

[Customer name]

Per: _____

Name:

Title:

I have authority to bind the Customer

CUSTOMER (INDIVIDUAL)

Per: _____

Name:

Appendix C – 2021 Local Capacity Auction Mock Timeline

The dates below are to demonstrate by way of example the sequence of events relative to one another during the Demonstration and approximate timeframes. Final dates will be confirmed in the Pre-Auction Report. Persons participating in the Demonstration should rely exclusively on the dates published in the Pre-Auction Report.

Milestone	Date
Demonstration's year 2 launches	August 25, 2021
Pre-Auction Report	August 25, 2021
Initial Registration Period opens	August 25, 2021
Initial Registration Period closes and DSO begins issuing Eligibility Notices	September 15, 2021
Supplemental Registration period opens	September 15, 2021
Final date for DSO to issue Eligibility Notices	September 22, 2021
Auction Deposit Date	October 6, 2021
Blackout Period starts	October 13, 2021
Capacity Auction Offer Window	October 20-21, 2021
Post-Auction Reports published (public and private)	October 27, 2021
Contracts issued	November 3, 2021
Blackout Period ends	November 3, 2021
Executed Contracts must be delivered to DSO	November 30, 2021
Supplemental Registration Period closes	March 31, 2022
Bid/Offer Submission Start Date	April 14, 2022
Supplemental Post-Auction Report published (identifying Contracted DERs that will participate in the Local Energy Auctions)	April 28, 2022
Commitment Period starts	May 1, 2022
Commitment Period ends	October 31, 2022

Appendix D – Contract

(see attached)

Appendix E – Activation and Scheduling

Local Energy Auctions and Local Reserve Auctions will clear Bids/Offers according to the steps described in this Appendix E.

Step 1: Approximately three hours prior to each hour of the Availability Window, the Platform algorithm will determine if the hour that is three hours ahead is an Activation Hour and a Reserve Hour for the Contracted DERs in the Demonstration by assessing whether there is a Local Requirement and Local Reserve Requirement. In the event there is a Local Requirement, the Platform algorithm will proceed to Step 2A. Otherwise, the Platform algorithm will proceed to Step 2B.

Step 2A: In the event there is a Local Requirement, the DSO will determine the Total Energy Quantity. In the event there is also a Local Reserve Requirement, the DSO will determine the Total Reserve Quantity to be cleared in the Local Reserve Auction, and the process will proceed to Step 3.

Step 2B: In the event there is no Local Requirement, the Platform algorithm will accept all such Bids and Offers (Energy) that are less than or equal to the Activation Shadow Price, and the process will terminate.

Step 3: Participants will submit their Bids or Offers (Energy) into the Local Energy Auctions. Participants with Local Reserve Obligations will also submit their Offers (Reserve) into the Local Reserve Auction.

Step 4: The Platform algorithm will first accept the Bids and Offers (Energy) for the Local Energy Auction by ordering price-quantity pairs (submitted as part of the Bids and Offers (Energy)) from lowest to highest price and accepting the lowest price pairs until the Total Energy Quantity is met or exceeded (in the event the last price-quantity pair does not have a partial clearing flag).

Step 5: For any Bids or Offers (Energy) submitted into the Local Energy Auction in Step 3 by Participants with Local Reserve Obligations that were not selected in Step 4, the Platform algorithm will determine whether the sum of the quantities submitted as part of the associated Offers (Reserve) of such Participants into the Local Reserve Auction (the “**Aggregate Reserve Quantity**”) is equal to or greater than the Total Reserve Quantity.

- (1) Where the Aggregate Reserve Quantity is equal to or greater than the Total Reserve Quantity, the process proceeds to Step 6.
- (2) Where the Aggregate Reserve Quantity is less than the Total Reserve Quantity, the process proceeds to Step 7.

Step 6: If the Aggregate Reserve Quantity is equal to or greater than the Total Reserve Quantity, the Platform algorithm will accept Offers (Reserve) by ordering price-quantity pairs submitted as part of the Offers (Reserve) in Step 5 from lowest to highest price until the Total Reserve Quantity is met or exceeded (in the event the last price-quantity pair is not a partial clearing flag).

Step 7: If the Aggregate Reserve Quantity is less than the Total Reserve Quantity, the Platform algorithm will:

- (1) deselect the Bids or Offers (Energy) accepted in Step 4, which were submitted into the Local Energy Auction in respect of Reserve-Capable Contracted DERs by Participants with Local Reserve Obligations, in the order of highest to lowest price, until the sum of the quantities of the Offers (Reserve) associated with such Bids or Offers (Energy), plus the Aggregate Reserve Quantity calculated in Step 5, is equal or greater than the Total Reserve Quantity;
- (2) accept Offers (Reserve) in the Local Reserve Auction by ordering price-quantity pairs submitted as part of the Offers (Reserve) of the Reserve-Capable Contracted DERs, including the price-quantity pairs that were deselected in subsection (1) above, from lowest to highest price until the Total Reserve Quantity is met or exceeded (in the event the last price-quantity pair is not a partial clearing flag); and
- (3) in respect of any Contracted DERs that were not selected to provide Reserve pursuant to subsection (2) above, accept Bids and Offers (Energy) in the Local Energy Auction by ordering price-quantity pairs (submitted as part of the Bids and Offers (Energy)) from lowest to highest price until the Total Energy Quantity is met or exceeded (in the event the last price-quantity pair is not a partial clearing flag).

Step 8: Once all Bid and Offers (Energy) are selected pursuant to Steps 4 to 7 above, the Platform algorithm will accept all such Bids and Offers (Energy), which were not accepted to meet the Total Energy Quantity in the Local Energy Auction, that are less than or equal to the Activation Shadow Price.

Appendix F – Process Overview

INITIAL REGISTRATION PERIOD (Approximately 3 weeks)	LOCAL CAPACITY AUCTION (Two days)	FORWARD PERIOD (Approximately 5 months)	COMMITMENT PERIOD (LOCAL ENERGY AUCTIONS) (6 months May 1 - Oct 31)
<ul style="list-style-type: none"> • Auction parameters and timelines are published <p>Registrant Registration</p> <ul style="list-style-type: none"> • People wishing to participate in the Local Capacity Auction must register as a Registrant on the Platform • Must register as either a Direct Participant or an Aggregator • DSO reviews and approves Eligible Registrants <p>DER Registration</p> <ul style="list-style-type: none"> • Registrant registers their DERs on the Platform • DSO reviews and approves Eligible DERs • Subject to the supplemental registration evaluation to be completed during the Forward Period • Eligible Registrants receive an Eligibility Notice identifying their Eligible DERs, Eligible Capacity, and an indication as to whether any of the Eligible DERs have been successfully registered as Reserve-Capable • Registrant may proceed to Supplemental Registration to finalize registration of its DERs 	<ul style="list-style-type: none"> • Only Eligible Registrants and Eligible DERs may participate in the Local Capacity Auction • Eligible Registrants must deliver their Auction Deposit prior to the Local Capacity Auction • Eligible Registrants submit Capacity Offers • DSO clears the Local Capacity Auction • The DSO will offer a Contract to Eligible Registrants for each Eligible DER that clears the Local Capacity Auction • Establishes the Local Capacity Obligation and, if applicable, Local Reserve Obligation, for each Contracted DER 	<ul style="list-style-type: none"> • Eligible Registrants execute a Contract and pay the required Completion Security for each DER • Once the Contract is executed and Completion Security posted Eligible Registrants become Participants and Eligible DERs become Contracted DERs • DSO will publish the Post Auction Report <p>Supplemental Registration</p> <ul style="list-style-type: none"> • Supplemental Registration must be completed by Participants for all Contracted DERs • All Direct DERs must be in-service, and all Contributors must be contracted, before the deadline specified in the Rules • DSO assesses all Contracted DERs against eligibility criteria. Failure to meet eligibility criteria will result in termination of the Contract 	<ul style="list-style-type: none"> • Participants must meet its Local Capacity Obligation and, if applicable, Local Reserve Obligation, by submitting Bids/Offers for each of its Contracted DERs into the Local Energy Auction and, if applicable, Local Reserve Auction processes • Local Energy Auctions and Local Reserve Auctions occur each Business Day during the Commitment Period • Aggregators may update their Contributor DERs periodically during the Commitment Period

Appendix G – DSO Coordinates

The following should be used to contact the DSO for purposes under the Rules and the Contract:

Address: Alectra Utilities Inc.
161 Cityview Blvd.
Vaughan, Ontario
L9H 0A9

Attn: NWA Demo Project Team

Telephone:

Email:

NWADemo@alecrautilities.com

Facsimile: