

Micro-DERs (≤ 12 kW) Generator Connection Information Package

1. Introduction

In accordance with the Ontario Energy Board's Distributed Energy Resources Connection Procedure, Kingston Hydro (KH) Corporation is providing the "Generation Connection Information Package" to customers with the information necessary to connect a Distributed Energy Resource (DER) to Kingston Hydro's distributions system.

The package will provide the process, information, applications and documents required to facilitate the DER connection. The Generator Connection Information Package and all supporting documents are available electronically. Proponents may contact Utilities Kingston (an affiliate of Kingston Hydro) for an alternate format of the "Package".

Website <https://www.kingstonhydro.com/>

2. Contact Information

Utilities Kingston

85 Lappans Lane, PO Box 790,
Kingston, ON K7L 4X7

If there are any questions regarding this package or the process for connecting distributed generation to the Kingston Hydro distribution system, please contact Utilities Kingston's Service Advisors at :

(613) 546-1181 ext. 2285 or serviceadvisors@utilitieskingston.com

3. Generation Connection Information Package Documents

- Ontario Energy Board - DER Connection Process (DERCP)
- KH - Appendix B - Guide for DER Applicants
- KH - Micro-DER Connection Application Form
- KH - Micro-Embedded Generation Facility Connection Agreement
- KH - DER Restricted Feeder List

4. Process for connecting Distributed Energy Resources (DER)

These are the steps that must be followed to connect a DER that will generate less than or equal to 12 kilowatts and operate at voltages below 50 kilovolts to the Kingston Hydro Electricity grid. Note that this is subject to change at any time.

1. Connection Application: To start the application process, submit Micro Generation Connection Application Form. Application form list down all the documents required to be submitted with the application.

2. Connection Agreement: Complete and submit the Signed Connection Agreement along with the application form.

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Utilities Kingston ("UK") is the affiliate service provider for Kingston Hydro Corporation ("KH").
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3. Offer to Connect: For existing connection, our DER team will review the application package and once it is accepted as complete, a notice to proceed to step 4 will be issued.

In case of a new connection request, an Offer to Connect will be issued which outlines the requirements and construction costs for the new connection and DER.

4. Design, Build and Commissioning: Once the micro generation facility has been built according to our requirements, the applicant will need to apply to the Electrical Safety Authority (ESA) for an electrical inspection.

5. Connect, Operate and Maintain: After we receive the Electrical Safety Authority (ESA) electrical inspection "Connection Authorization", we will install the bi-directional generation meter.

We will collaborate with you to set up the appropriate settlement arrangement based on the project type.

Refer to document [KH-Appendix B - Guide for DER Applicant and DERCP](#) for detailed information, forms and the process of connecting distributed energy resources to Kingston Hydro's distribution grid.

5. Required Approvals

- Host distributor connection approvals (managed by Kingston Hydro).
- Electrical Safety Authority Inspection and Connection Authorization
- Canadian Standards Association – applicable to all equipment installations
- The local municipal office for siting limitations, building codes and by-laws.

6. Technical Requirements

6.1 DER Technical Interconnection Requirements

Refer to the following technical documents:

- Appendix B – Guide for DER Applicants

Host distributor technical requirements:

- Hydro One – **Section 5**
 - [Technical Interconnection Requirements for Distributed Generation, Micro Generation & Small Generation, 3-phase, less than 30 kW \(DT-10-20, latest revision\)](#)

Additional technical requirements:

- Ontario Electrical Safety Code (latest revision)
- Canadian Standards Association (applicable codes)
- Institute of Electrical and Electronics Engineers (IEEE)
- Other applicable rules, codes and regulations

7. Standard Contractual Terms

Refer to the following Kingston Hydro document for standard contractual terms:

[KH-Micro-Embedded Generation Facility Connection Agreement](#)

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8. Sample Protection Philosophy

Refer to the following Kingston Hydro document for the Generator protection settings:

[Micro-Embedded Generation Facility Connection Agreement](#)

9. List of Restricted Feeders

Refer to the following Kingston Hydro document for the list of restricted feeders:

[KH-DER Restricted Feeder List](#).

Updated quarterly (1st of the month - January, April, July, October)

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