

## > THE GRID EDGE ACTIVE TRANSACTIONAL DEMAND RESPONSE (The GREAT-DR) APPLICATION/PARTICIPATION QUESTIONNAIRE

Hydro Ottawa is looking for 20 more residential customers to participate in 'The GREAT-DR' trial project, which could run until the end of 2020. To pre-qualify as a participant, please answer the following questions.

1. Do you own your home?  
 Yes  No
2. Will your home be continuously occupied (i.e., unoccupied for a period of no more than four (4) continuous weeks at any time during the two year trial)?  
 Yes  No
3. a) Is your roof in good condition? To maximize this investment, your roof should have twelve to fifteen remaining years in its life.  
 Yes  No  Don't know  
b) If "No", or "Don't know," will your roof be fixed or replaced (to the extent needed) so it is in good condition before the trial begins?  
 Yes  No
4. a) As far as you know, is your home electrical wiring up to present standards?  
 Yes  No  Don't know  
b) An Electrical Safety Authority (ESA) inspection will be conducted prior to your approval as a participant in this trial project. If the electrical equipment in your home must be improved or upgraded to meet the ESA's standards under Hydro Ottawa's Conditions of Service, would you be willing to invest in the completion of this work before the trial begins?  
 Yes  No  Don't know
5. Is there indoor space within your home that is safe and temperature controlled for the following 'The GREAT-DR' devices'?
  - **Wall space** for the Smart Inverter
    - Dimensions: 680W x 1200H x 250D (mm) or 26.8W x 47.2H x 9.8D (in)
    - Weight 65 kg (143.3 lb)
    - Air cooled.
  - **Floor space** for the approximately 10 kWh Battery Energy Storage
    - Dimensions W: 580W x 600H x 551.5D (mm) or 22.8W x 23.6H x 21.7D (in)
    - Weight 110 kg (243lb) on casters.

- All other equipment will be much smaller and lighter than the solar PV equipment
    - Monitoring
    - Load switches
    - 'The GREAT-DR' component
- Yes    No

6. During 'The GREAT-DR' trial, Hydro Ottawa will require access to your home to install, adjust and possibly replace the devices and equipment listed above. Do you agree to allow us access to your home on reasonable notice and be available for scheduled appointments with Hydro Ottawa to facilitate the installation and subsequent work on the trial devices and equipment?

- Yes:  No
- Anytime with at least two calendar days' notice
  - Only Monday to Friday, 8 a.m. to 5 p.m.
  - Only Monday to Friday, outside 8 a.m. and 5 p.m.
  - Only weekends
  - Other (specify) \_\_\_\_\_

7. Hydro Ottawa will collect and monitor your electricity usage during 'The GREAT-DR' trial project. This information is required to evaluate the effectiveness of 'The GREAT-DR' trial project and it will not be used for any other purpose. All personal information collected will be managed in accordance with the [Hydro Ottawa Privacy Policy](#). Do you agree to share your electricity usage information and behaviour with 'The GREAT-DR' throughout the duration of the trial project?

- Yes    No

8. a) Internet service is necessary to communicate with 'The GREAT-DR' devices and services. Do you subscribe to an Internet service package with unlimited data?

- Yes    No

b) If "No", will you subscribe to an Internet service package with unlimited data, or agree to assume any and all costs associated with data overage fees charged by your Internet service provider?

- Yes    No    Not sure

9. Hydro Ottawa encourages you to inform your home insurance company of the solar PV and battery storage installation and maintain home insurance coverage for the retail value of the installation in the event that the equipment becomes damaged or stolen while it is in your home.

- I understand

10. Do you agree to have your thermostat(s) replaced with a 'The GREAT-DR' compatible smart thermostat(s)?

- Yes    No

11. A load control switch turns off or reduces power to an electrical appliance when the wholesale market price of electricity may be high or during times of peak electrical demand (when the demand for electricity is at its highest because most homes and businesses are using electricity at the same time). Do you agree to have your electrical appliances connected to load control switches during 'The GREAT-DR' trial project?

- Yes    No

12. 'The GREAT-DR' will monitor and evaluate the electricity usage of electrical appliances in your home. Below you will find a list of the appliances found in most homes. Please select the appliances that you have in your home:

- Air conditioner (window)
- Air conditioner (whole home)
- Dehumidifier
- Pool pump
- Electric dishwasher
- Electric water heater
- Electric space heating (whole home)
- Electric space heating (supplement)
- Electric Vehicle Supply Equipment (EVSE) - L1
- Electric Vehicle Supply Equipment (EVSE) - L2 (up to 30A)
- Electric Vehicle Supply Equipment (EVSE) - L2 (up to 40A)
- Freezer (if willing to be controlled for up to 30 minutes at a time)
- Hot tub (if willing to be controlled for up to 30 minutes at a time)
- Electric pool heater
- Sauna

13. Do you have any other electrical appliances that can be included in the trial project? Please specify the type and wattage.

14. Do you have any other electricity sources (storage or generation) that can be included in the trial project? Please specify the type and wattage.

15. Comments/questions

## > CONTACT INFORMATION

*\*Indicates Mandatory Field*

First Name\*: \_\_\_\_\_ Middle Initial: \_\_\_\_\_ Last Name\*: \_\_\_\_\_

Phone Numbers (provide at least one)\*:

Home: \_\_\_\_\_ Mobile: \_\_\_\_\_ Business: \_\_\_\_\_

Email\*: \_\_\_\_\_

Best times to contact you: \_\_\_\_\_

## > ACKNOWLEDGEMENT

By signing the section below, you acknowledge that the information you provided is accurate.

NOTE: As a participant, you will have the right to temporarily override specific appliances from 'The GREAT-DR' load control. Certain situations, however, require mandatory auto-acceptance of 'The GREAT-DR' requests. These include situations when:

- It is necessary to avoid a power outage or to maintain voltage quality;
- A negotiated curtailment among neighbouring customers cannot be achieved;
- Hydro Ottawa must create conditions during the trial to prove 'The GREAT-DR' architecture solution; and
- Hydro Ottawa must test 'The GREAT-DR' functionality during and after installation.

<p><b>Customer Name:</b></p>          	<p>I certify the above information to be true, correct and complete.</p>       <p>_____</p> <p>Customer Signature</p>	<p>Date (dd/mm/yyyy)</p>       
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## > QUESTIONNAIRE SUBMISSION

Once completed, please submit your responses to Hydro Ottawa via email at [TGDRParticipant@hydroottawa.com](mailto:TGDRParticipant@hydroottawa.com)

If you have any questions about this questionnaire, please contact 'The GREAT-DR' Project Leader, Raed Abdullah, a professional engineer and senior member of the Institute of Electrical and Electronics Engineers (IEEE). Raed can be reached by phone for this project at 613-738-5499, ext. 7382 or by email at [TGDRParticipant@hydroottawa.com](mailto:TGDRParticipant@hydroottawa.com)

If you have any questions about the ways in which your personal information may be used by Hydro Ottawa, or would like further information about Hydro Ottawa's privacy policy, you may visit our website at [www.hydroottawa.com/privacy](http://www.hydroottawa.com/privacy)

Note: 'The GREAT-DR' communication system is designed to follow the best cyber-security practices and to adhere to the [seven Privacy-by-Design principles](#)