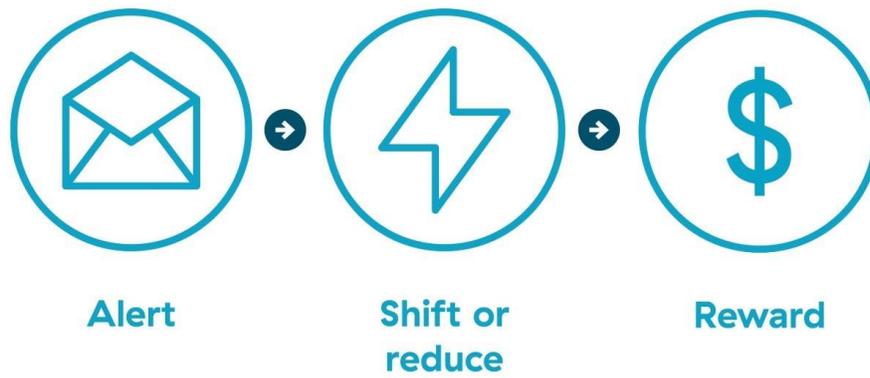

Customer Manual

Demand Response for Business



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Energy Management Solutions
Demand Response for Business

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1 Program Overview

Demand Response for Business is a program that encourages load shifting away from peak times on the grid. The program provides incentives to you who are able to reliably shift or shed load in response to event signals from BC Hydro. Demand response programs are one means for BC Hydro to get the most out of our existing grid, support reliability and keep rates low for all.

The program is offered province-wide during winter season, and on a targeted locational basis during the summer season. You may elect to participate via manual and/or automated methods, depending on your own unique business characteristics.

- Manual demand response
- No special equipment required
 - You will receive notification from BC Hydro of an event and enact pre-defined actions to shift or shed load within your facility
- Automated demand response (AutoDR)
- You have equipment capable of receiving an OpenADR signal from BC Hydro
 - You will receive notification and your equipment will automatically respond with a pre-defined action (e.g. reduce set points, dim lighting, turn off equipment)

1.1 How it works

The program has 5 steps:

- Make your plan
- Enrol
- Participate in seasonal events
- Get rewarded

1.1.1 Make your plan

Get started by reviewing your operation for sources of flexibility such as:

- HVAC setpoints that could be changed
- Delaying EV charging
- Process changes or using product or resource storage to keep production going
- Energy storage / batteries
- Dimming lighting
- Turning off unnecessary equipment
- Pre-heating or pre-cooling spaces
- Adjusting refrigeration to colder temperatures before the event and then coasting through the event

You may be able to pre-program alternative operational schedules into some equipment, such as your building management system. These activities will make it easier for you to take action during an event. Your plan must result in a load reduction during typical demand response event times. Refer section 3 for more information.

Decide on which seasons (summer, winter or both if eligible) your operation is best suited to participate in and which measures you'll be taking to reduce load during events.

BC Hydro offers a free Demand Response Coach to help you identify opportunities or understand how much load you need to shift to meet the program criteria. Contact your key account manager to access this resource.

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1.1.2 Enrol

Enrol in the program by following the enrolment link at on the program web page and logging into your MyHydro account. You'll need the following information: - Which sites you want to enroll

- Name and contact information for a person on site that will receive event notices and take action

We'll send you a confirmation email once your application has been reviewed.

1.1.3 Participate in Seasonal Events

During extreme temperature days or when conditions on the grid warrant, we will send you an email notification of an upcoming event. You will receive it at least 12 hours in advance of the event so you can prepare.

Events will not be longer than 4 consecutive hours and do not occur on holidays or weekends. Refer to section 3 for a list of holidays.

When the event time arrives, enact your plan to reduce energy usage at your facility for the duration of the event.

Within 48 hours after the event, we'll send you an email letting you know the results of the event and how much load you reduced.

You may opt out of events during the season, without direct penalty. However, your incentive is based on your average performance across the season, so this may reduce your overall performance result. You can opt out by increasing or not changing your energy consumption during the event.

1.1.4 Get Rewarded

After the season is complete, we'll calculate your average load reduction achieved across all events during the season. This amount will determine your financial reward. See section 3 for details on how load reduction achievements and incentives are calculated.

Your incentives will be awarded on your bill after the season ends.

2 Program Policies

2.1 General Eligibility

To be eligible for the Demand Response for Business offer, your participating site(s) must meet the following criteria:

1. be operational for a minimum of 12 months prior to application.
2. be on the Small General Service (less than 35kW) rate - 1300, 1301, 1310, or 1311, Medium General Service (between 35 and 150kW) rate – 1500,1501, 1510, or 1511, or Large General Service (150 kW and over) rate – 1600, 1601, 1610, 1611
3. have an operating smart meter (no manually read meters)
4. have a load reduction based on your average seasonal demand
5. have at least one dedicated resource on staff that will receive and respond to demand response events.
6. not achieve shifting or shaving load via higher GHG fuel switching (e.g to gas, diesel etc)

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7. commit to 5 year agreement
8. be a site located in a designated non-wires alternative (NWA) project area in order to participate in Summer season events. Check with your KAM or visit the [program web page](#) for a current list of eligible locations.

2.2 Participation & notifications

2.2.1 Seasonal participation

- You must be enrolled to the end of the season in order to be awarded incentives.
- If you close your account mid-way through a season you forfeit any incentives for that season.
- If you join the season mid-way you will accrue 0 kW for all events prior to joining the program (prorating performance for a portion of the season.) The events prior to you joining are not factored into the seasonal performance reliability assessment done at the end of the season.
- **Note:** You may be eligible for the summer season during registration but may not be eligible once summer season starts. You may also not be eligible for the summer season during registration but then be eligible once summer season starts. BC Hydro will inform you if any changes occur.

2.2.2 Site enrolment

- If there are multiple meters at a single site, they will be combined in aggregate, as part of the enrolment. You cannot reduce load on one meter by increasing load to another meter at the same site.
- You may use multiple DR methods (manual and / or auto) per site but may not nominate the same end uses in the same season (i.e. no double counting). Each end use may only be attributed to one method. For example, you may nominate your EV charging for AutoDR and your HVAC for manual DR.
- To enrol in AutoDR, you must have eligible equipment that will connect to BC Hydro's Distributed Energy Resource Management System (DERMS). Refer to section 4 – AutoDR

2.2.3 Key Contacts

- You must identify at least one key contact to receive notification.
- You must ensure the key contact for event notification are kept up to date.
- You may change notification personnel at any time by emailing demand.response@bchydro.com

2.2.4 Minimum load shift

- A load reduction during events is required in order for an event to be deemed successfully participated in.

2.2.5 Demand response methods

- Manual DR - you may change the approach (i.e. measures) for demand reduction at any time, without notification to BC Hydro but must still achieve minimum load reductions to meet program criteria
- You may not use any fuel switching strategies or actions that result in higher GHG emissions than those associated with typical BC Hydro electricity.
 - Diesel and other fossil fuel generators are prohibited in this program

2.2.6 Demand response events

- When two events are called on the same day in the winter season, a minimum of 4 hours between the end of the first event and the start of the second event will be provided.

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2.3 Performance measurement

- You will receive updates after each event on how your site(s) performed. These results will make up your end-of-season incentive payment. Refer to section 3 for more information on calculations.
- The demand reduction will be measured at the BC Hydro revenue meter.
- If you have questions about results of any event, contact your Key Account Manager. If you do not have a key account manager contact demand.response@bchydro.com.
- In the event that meter data is not available for any particular event by the end of the season, this event will be removed from all calculations.
- Baselines: BC Hydro may, from time to time, change the baseline methodology. You will be notified prior to any changes to the baseline method.
 - The baseline methodology will not be changed mid-season, unless significant issues are identified.
- Seasonal performance reliability
- You must successfully participate in a minimum of 50% of events each season, in order to continue in the program the next season.
 - Successful participation in an event is achieved by reaching the minimum load shift during the event, at the enrolled site, for the duration of the event.
 - Event performance that is less than the minimum load shift and any event opt-outs count as a non-performance for that event
 - Not successfully participating in at least 50% of events in a year may result in the site being removed from the program
 - Reliability is assessed at the end of each season
 - If you want to rejoin the program you must either:
 - present a plan for reliable load reductions and indicate what strategies will be employed, prior to being accepted into the program again or;
 - Wait 12 calendar months from the time of withdrawal to re-enroll

2.4 Incentive calculations payments

- The program offers an incentive of \$50/kW-year per season
- Incentives are calculated as outlined in section 3 of this manual
- Incentives are based on the combined results of AutoDR and manual DR, in cases where the customer is participating in both.
- Earned incentive payments are made during the billing cycle following the end of each season.
 - Winter season – payments will be made on-bill in the April – June cycle
 - Summer season – payments will be made on-bill in the October – December cycle

2.5 Program withdrawal & closed accounts

- Withdrawal
 - You may withdraw from the program at any time by providing 10 business days notice to BC Hydro in writing to the email box demand.response@bchydro.com
 - Withdrawing before the end of a season results in the forfeiture of any incentives for that season.
 - If you withdraw mid-season, you must wait 12 months before rejoining the program.
- Closed accounts
 - Any account registered in the program that is closed mid-way through a season will be treated the same as a withdrawal.

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3 Event Criteria and Calculations

3.1 Event criteria

Summer and winter season have different criteria, as outlined in the table below:

	Summer (NWA Only)	Winter (Province Wide)
Max. duration (hours / event)	4	4
Max. events per season	20 events	20 events
Max. daily frequency	1	2
Time of day	3-7pm	6am – 10pm
Time of year	June – Sept	Oct – April
Notification	12 hours	12 hours
Ineligible days	Weekends & stat holidays	Weekends & stat holidays

3.2 Eligible Days

- “Eligible days” are days that are not weekends or holidays.

Holidays, for the purpose of this program are defined as:

- Statutory holidays include those defined by the [Province of British Columbia](#)

- New Year's Day
- Family Day
- Good Friday
- Victoria Day
- Canada Day
- B.C. Day
- Labour Day
- Thanksgiving Day
- Remembrance Day
- Christmas Day
- National Day of Truth & Reconciliation

Additional ineligible days for calling events are:

- Boxing Day
- Easter Monday
- “Prior Event Days” refers to any day in which a demand response event had already been called

3.3 Baselines

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The program uses a baseline methodology to approximate what would have happened at the site, if the demand response event had not been called.

The program uses a 5-in-5 baseline, meaning the site average demand over the 5 eligible days preceding the event are used to form the baseline.

The baseline is the average energy usage per hour (kwh/h), as recorded by the BC Hydro revenue meter, over the same hours as the event, of the 5 eligible days preceding the event.

$$\text{Baseline} = \frac{\sum (\text{meter readings over the event hours, over the last 5 eligible days})}{(\text{total number meter readings})}$$

For example:

Day	Hours	Average Demand (kW)	Status	Baseline day?
Monday	5-7pm	200	Non Event	Yes
Tuesday	5-7pm	200	Non Event	Yes
Wednesday	5-7pm	220	Non Event	Yes
Thursday	5-7pm	17 5	Previous Event	No
Friday	5-7pm	210	Non Event	Yes
Saturday	5-7pm	20 0	Non Event	No
Sunday	5-7pm	15 0	Non Event	No
Monday	5-7pm	15 0	Stat Holiday	No
Tuesday	5-7pm	200	Non Event	Yes
Wednesday	5-7pm	16 0	Actual event Day	
	Baseline kW	20 6		

3.4 Actual demand reduction

Event demand reduction is calculated as the average demand over the duration of the event. This calculation is based on the BC Hydro revenue meter data.

$$\text{Actual demand} = \frac{\sum (\text{meter readings over the duration of the event})}{(\text{total number readings})}$$

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A negative actual demand reduction (i.e. increase in demand during the event) will be considered an opt out and not count towards your seasonal average demand reduction calculation.

3.5 Seasonal average demand reduction

The seasonal average demand reduction is calculated as follows:

$$\text{Seasonal demand (kW-season)} = \frac{\sum (\text{Actual demand reduction for each event})}{(\text{Total number of events} - \text{number of opt outs})}$$

3.6 Incentives

Customer incentive payments are based on \$50 / kW-season.

The incentive payment for the season is calculated as follows:

$$\text{Incentive (\$)} = \$50 / \text{kW-season} * \text{seasonal average demand reduction (kW-season)}$$

3.7 Seasonal performance reliability

Seasonal performance reliability assess whether the customer has successfully performed for at least 50% of events and will be eligible to continue in the program the following season.

A successful performance is an event where the customer's actual demand reduction is calculated to be at or over the pre-determined minimum load shift for that customer and applicable season.

Seasonal performance reliability is calculated as follows:

$$\text{Seasonal performance reliability} = \frac{(\# \text{ of events with successful performance})}{\text{Total number of events called}}$$

4 Automated Demand Response

To be eligible for Automated Demand Response (AutoDR), your equipment must be [OpenADR](#)-compliant. OpenADR is a standardized communications protocol that allows BC Hydro to send event signals directly to your equipment, which will then respond with a pre-set demand response operational schedule.

You will be able to set your own preferences for equipment operation during DR events and will not have to take any action when a demand response event is called. Everything will happen automatically for you.

Not sure if your equipment is OpenADR capable? Check with your equipment manufacturer or consult the [OpenADR Alliance product database](#).

If you are interested in AutoDR and have eligible equipment, please contact us to discuss the details of how to enable your equipment to receive DR signals from BC Hydro.

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5 Key Contacts

Need help? Have questions?

Contact your key account manager. If you do not have a key account manager, you can email us at demand.response@bchydro.com