



BRITISH COLUMBIA · COMMERCIAL & INDUSTRIAL

BC Hydro Energy Storage Incentive (ESI)

The strongest capital subsidy for battery storage in Canada. What it funds, who qualifies, and what you agree to.

WHAT IT IS

ESI funds battery systems installed behind the meter at commercial and industrial sites served by BC Hydro. A portion of the battery will be reserved for demand response, allowing BC Hydro to charge and discharge that portion of the battery during grid events for improved grid stability.

WHY BC HYDRO OFFERS IT

The grid has to be built for its busiest hours. A battery at a customer site can cut demand in those hours, add reliability, and in some cases delay a distribution upgrade. BC Hydro pays for that grid value.

WHAT YOUR SITE GAINS

- **Lower hydro bills, via peak shaving.** The battery covers your highest-demand moments, so you pull less from the grid.
- **Possible avoided or deferred grid upgrade.** Can allow you to install additional loads (HVAC, EV chargers, etc.) without a grid upgrade.
- **Backup power.** A useful extra, but not what the incentive funds.

Up to 80%

OF ELIGIBLE PROJECT COST

WHO QUALIFIES

- BC Hydro customer on a General Service rate
- Battery system behind the meter
- Pre-approval secured before installation
- Passes a site-specific technical review

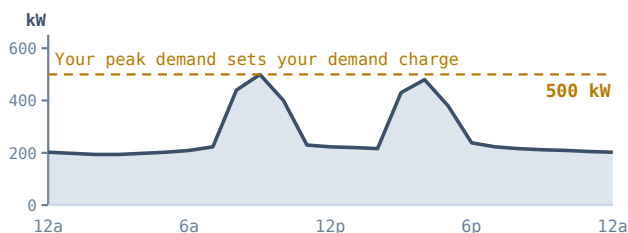
WHAT YOU COMMIT TO

- **10-year agreement** tied to the BC Hydro account, with a prorated clawback if you leave or close the account early.
- **Events:** up to 4 hours, up to 2 per day, typically 24 hours notice, weekdays only (no weekends or stat holidays), any time of year.
- **Reliability:** the battery must be charged to at least 85% of nominated energy at the start of at least 85% of events.
- **Automatic control:** BC Hydro dispatches the battery through its DERMS, and manual control isn't allowed.

PEAK SHAVING, ILLUSTRATED

Pre Battery

Billed peak 500 kW

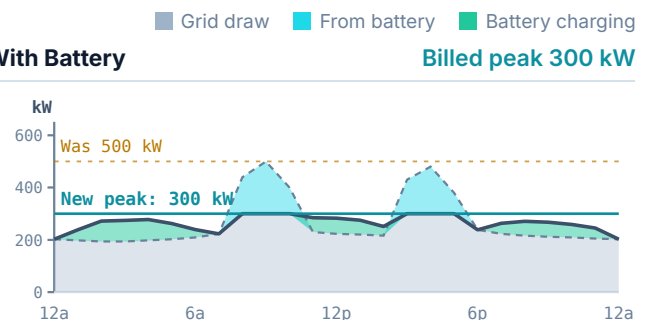


200 kW lower peak means a demand charge billed on 300 kW instead of 500 kW, about 40% lower.

Illustrative example, not real data. Contact us for a site-specific review to see how much you can save.

With Battery

Billed peak 300 kW



Install first and you lose the incentive. Pre-approval must come before any equipment is installed.



HOW IT WORKS

- 1 Check fit.** We review your interval data and tariff.
- 2 Prepare the submission.** Load analysis, single line diagram, technical write-up.
- 3 Get pre-approval.** Nothing is installed until this is in hand.
- 4 Technical review.** BC Hydro assesses the site. We work alongside your team.
- 5 Install and commission.** Start saving on your hydro bills via peak shaving.

WHAT WE NEED FROM YOU

- 12 months of interval data (5 minute, if available). The review uses this, not nameplate ratings.
- Recent electricity bills
- Site single line diagram, if you have one
- What fails or costs you money when demand peaks

EXAMPLE: VANCOUVER OFFICE BUILDING

Site	Commercial office building
Peak demand	1,226 kW (average 641 kW)
System	2× FLEX-365, 350 kW / 731.5 kWh
Total project cost	\$458,672
BC Hydro ESI (80%)	Up to \$366,938
Net client cost	\$91,734
Demand charge savings	\$23,384 per year
Simple payback	3.9 years (19.6 without ESI)

Reference example from a preliminary technical and financial analysis. Illustrative, not a site-specific estimate. Final ESI eligibility is subject to program approval.

HOW ARCTIUM HELPS

We prepare the technical submission, the load analysis and the single line diagram. We stay with your team through the review. We design and deliver the system, or supply equipment only.

PLAIN TERMS

Peak shaving	Using a battery to supply power during your site's highest-demand moments, so you pull less from the grid at those times.
Demand charge	Part of your bill based on your single highest 15 minute peak in the month, not on how much power you used overall.
Interval data	A record of your power use in short steps, usually 5 or 15 minutes. It shows when your peaks happen.
Demand response	BC Hydro calling on part of your battery to discharge during grid events to keep the grid stable.

Next step

Book an intro meeting with us. We will tell you plainly whether your site fits.

[Book at arctiumenergycompany.com/contact/](https://arctiumenergycompany.com/contact/)

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