

# LARAMIDE BATTERY STORAGE FACILITY

## What is this Project?

Enfinite is proposing to apply for and construct a 100-Megawatt (MW) battery storage project (the Project) located at SE-18-19-27 W4 in Foothills County. The Project will consist of a lithium-ion battery storage facility (BSF) to store electricity for discharge into the Alberta Interconnected Electric System (AIES) through the AltaLink Substation - Foothills 237S.

The Project will be constructed and operated on previously disturbed land that is owned by Enfinite located directly north of the AltaLink-owned Foothills 237S Substation. The BSF will eventually connect directly to the Foothills 237S Substation through a 240-kilovolt (kV) transmission line.



## How will it work?

The new Laramide BSF will connect to the existing electrical system through a 240 kV transmission line. During periods of low demand on the electrical system the new BSF will pull electricity from the system and charge the batteries. The batteries will add reliability to the AIES for times of higher demand, or during outages.

## What will make up the battery storage facility?

The proposed Project being developed by Enfinite is a 100-MW BSF located on approximately 9 acres. This will include a fenced perimeter on a gravel pad (215 m x 176 m). Inside the fence line there will be 105 battery containers on-site, along with the battery containers there will be other project components that include:

- 105 battery modules with inverters
- 1 - 240kV transformer
- 1 - 240kV breaker and associated disconnect switches
- 1 - 34.5kV breaker and associated disconnect switches
- 27 - 34.5kV transformers
- 1 grounding transformer
- Switchgear and control building (with associated protection and controls equipment)
- Associated controls
- Motion cameras
- Outdoor lights
- Parking area
- 2 - 40ft storage containers
- 1 trailer office

The batteries will be stored in contained, leak-proof, stand-alone modules and will be set apart from adjacent modules. For safety purposes and for future development there will be proper spacing between all battery units on-site. The Project's proposed quarter section is owned by Enfinite. All of the required storage and construction space will be located on this property.

Please see the enclosed map for the site layout, any temporary workspace, and roads that may be required.

## How was the site selected?

To determine the site, various constraints were taken into consideration; terrain, land features, proximity to a substation, and existing electrical capacity were primary factors in identifying a good location for the BSF.

## How long do the batteries last?

The batteries have an expected lifespan of 20 years. Additional operation can be expected past this lifecycle with proper maintenance and battery replacements as required. When the batteries reach the end of their useful life individual components will be recycled or disposed of in a safe manner according to regulations and the manufacturer's recycling program.

## Are battery storage facilities safe?

Battery storage facilities are safe. Lithium-ion batteries are used in everyday items, such as mobile phones and electric cars, and are the dominant storage technology today.

Enfinite has taken measures to manage and mitigate the risks to facility equipment, and to the surrounding area. The facility will be enclosed within a well-lit fenced area. Each battery module will be monitored by infrared cameras and temperature monitors/alarms to closely monitor, in real-time, for any fire, health, and safety risks. If an alarm is triggered at a battery site, project managers are notified immediately, and local emergency response providers are notified to implement the emergency response plan. The ongoing use of these thermal and motion cameras on-site will allow Enfinite to remotely monitor the Project and pre-emptively identify any safety issues that may arise.

As part of Enfinite's emergency response plan (ERP) every aspect of the Project will follow safety and applicable regulations and will be compliant with applicable safety codes and standards.

Enfinite works with municipalities, local fire departments, and response resources to prepare an ERP. The ERP's primary function is to implement safety measures to minimize potential risks associated with this type of development and to satisfy the regulatory requirements. A working copy of the site-specific ERP will accompany the AUC application and be made available to the public at the time of filing.

## Who approves the Project?

The Project will be submitted for regulatory review and approval in the upcoming months to the Alberta Utilities Commission (AUC). Information regarding the AUC review process and how you can participate can be found in their brochure "Participating in the AUC's independent review process to consider facility applications" included in this package and is also available on the AUC website [www.auc.ab.ca](http://www.auc.ab.ca).

## Are these facilities loud?

A Noise Impact Assessment (NIA) will be conducted in winter 2024 and will measure noise levels to develop a Project that is compliant with AUC Rule 012: Noise Control. These facilities have a low noise profile, and a copy of the NIA will be made public at time of AUC filing.

## Will they be continually lit?

Lighting is required from a site safety perspective. Enfinite will work with local residents to understand any potential concerns and can review potential mitigation requirements such as light-shielding or lower light profiles.

## What environmental aspects are considered?

Enfinite will submit an environmental evaluation as part of the Battery Facility Application that considers potential impacts and potential mitigation measures to environmental features. Evaluations consider a desktop review and site visit(s), as applicable, and will be summarized for consideration by regulatory decision-makers (i.e., AUC).

## What do battery storage facilities look like?

Battery modules on Enfinite sites are commonly laid out in pairs, the two containers, known as modules, are smaller than a typical shipping container and neutral in colour. There are multiple ways to mitigate any potential visual impacts and they will be discussed with community members. Photos of existing battery storage facilities have been provided in this newsletter and Enfinite anticipates the proposed site will look similar.



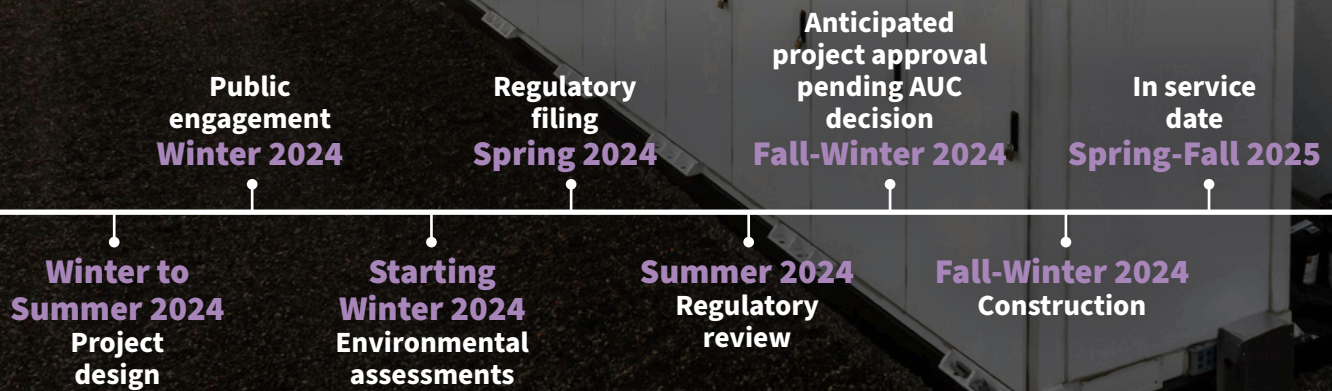
## WHY BATTERY STORAGE?

Using battery storage supports the reliability of Alberta's electrical grid and the local distribution needs. Battery storage holds energy generated during peak generation hours and then releases that energy to the system during peak demand when consumers need power the most.

Battery storage will support all forms of generation and the provincial interchange, as it will guarantee a smooth and continuous flow of electricity in the absence of the availability of power from existing generation sources.

Please see the enclosed map for the site layout, any temporary workspace, and roads that may be required.

## What's the Project timeline?\*



\*Schedule subject to change

## Who is Enfinite? Let's power progress together

Enfinite is the largest battery storage operator in Canada. Headquartered in Calgary, Enfinite originally launched as WCSB Power in 2018. Enfinite specializes in developing robust energy storage solutions that bring greater reliability, viability, and sustainability to the power grid and its stakeholders.

Enfinite is committed to the long-term success of our projects, and the continued stability and affordability of power within the communities we impact through our involvement as both a project owner and operator.


For more information about Enfinite, visit our website at [www.enfinite.com](http://www.enfinite.com)

## What does Enfinite want from you?

Feedback from the community will help our team continue to understand and minimize potential impacts to people and the environment. Any information or feedback you can provide will be considered in the Project's decision-making processes. Sharing your knowledge of the area and your property will help Enfinite make informed decisions as the Project moves forward.

## Questions or comments about the Project? Contact us!

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 [www.enfinite.com/projects/Laramide/](http://www.enfinite.com/projects/Laramide/)