



BATTERY STORAGE PART OF OUR  
**Future-Focused Portfolio**

# grid-scale battery: the work begins

April 2022

This month, you will see construction begin for a new grid-scale battery storage system on Robert Service Way near the Alaska Highway.

The new battery will help Yukon Energy meet peak demands for electricity during the winter, burn less diesel fuel and improve the reliability of the Yukon grid.



The battery site is located on one parcel of Kwanlin Dün First Nation Settlement Land identified by the First Nation for future commercial development. The site was cleared by Chu Níikwän Development Corporation last fall.

# work scheduled for april and may

This month, Chu Níikwän Development Corporation will start building the access road to the commercial development area. This access road will start on the north side of Robert Service Way, at the stoplight that currently regulates traffic to Skookum Asphalt and Ear Lake. By the end of May, the access road will be ready for construction access only. The road will be paved and street lights added to the intersection this fall.

Yukon Energy and its contractors will also start building the new transmission line that will connect the new battery to the Whitehorse Rapids Generating Station and the Yukon grid. The new power line will be built beside the power line that already exists in the area. During April and May, the right of way for the new transmission line will be flagged and cleared, and power poles for the new line will be installed.



Salvage trees will be bucked and made available to the public. A pick-up location is still being determined. Details will be shared on [yukonenergy.ca/battery](https://yukonenergy.ca/battery) and on our Facebook page once confirmed. Smaller pieces will be chipped and spread in the area.

## working together with First Nations-owned businesses

Yukon Energy acknowledges that the new grid-scale battery is being built on the shared Traditional Territories of the Kwanlin Dün First Nation and Ta'an Kwäch'än Council.

Businesses owned by Kwanlin Dün First Nation and Ta'an Kwäch'än Council have, and will continue to have, a significant role in the development of the battery including investment, procurement and contracting opportunities as part of the overall project. Earlier this year, Yukon Energy signed a 25-year lease agreement with Da Dan Developments, a subsidiary of Kwanlin Dün First Nation's development corporation, Chu Níikwän Development Corporation, for the land needed for the battery. Ta'an Kwäch'än Council-owned businesses are working on site preparation activities while Kwanlin Dün First Nation-owned businesses are building the access road to the site.

When finished, the 7 megawatt/40 megawatt-hour battery will be the largest of its kind in the North, and one of the largest in Canada.

# keeping what matters top of mind



In September 2020, we hosted a series of COVID-safe community meetings and met with several stakeholder groups to get feedback on the proposed grid-scale battery storage system. We also reached out to businesses and property owners within 800 metres of the three proposed sites and collected comments via an online form and direct email.

Here's how we're moving forward with what we were told mattered most to people.

## SAFETY AND SECURITY

A lithium ion battery is generally considered safe technology. It uses no acid, which eliminates spill and contamination hazards. While the risk of fire is very low, we will have automated mechanisms that prevent fires from starting, and stop them if they do.

The site will be completely fenced and include security monitors, cameras and alarms.

We are taking preventative measures to manage fire and safety risks such as developing and using security-monitoring and equipment-monitoring protocols. We're preparing a fire response plan for the local fire department and emergency response teams.

## RATES AND COSTS

We expect the battery to cost \$35 million. \$16.5 million will come from the Government of Canada's Green Infrastructure Stream. We will invest the remaining \$18.5 million.

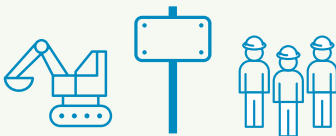
An application to include our investment in rates will be submitted to the Yukon Utilities Board after the battery is installed and operational. In June, 2021, the Yukon Utilities Board confirmed that the battery is a preferred alternative to rental diesels and a new diesel plant.

## ENVIRONMENT

The battery is expected to reduce carbon emissions in Yukon by more than 20,000 tonnes between 2023 and 2043.

## what you can expect to see and hear

### WHAT YOU MAY SEE



- » trucks and diggers
- » workers in hard hats and safety gear
- » temporary signage
- » increased traffic on Robert Service Way and the Alaska Highway

### WHAT YOU MAY HEAR

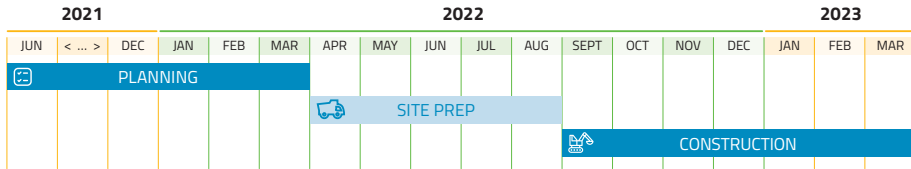


- » sounds typical of construction
- » machinery beeping, some increased traffic noises



**Safety First** Construction of the transmission line may disrupt those who hike, ride and walk their dogs along the unmarked trails in the area. While we're not closing the trails, we are asking that you use extreme caution during the construction period. Avoid active construction activities, pay attention to all temporary signage, keep your pets on a leash and let children know to avoid the area.

## project schedule



### PLANNING

- » public engagement and site selection
- » develop construction plans, obtain appropriate approvals and permits
- » select vendor and order the battery
- » site clearing completed by Chu Niikwän

### SITE PREPARATION

- » flag, clear and build the transmission line connection to the grid
- » build construction access road to the commercial area (Chu Niikwän)
- » grade the site
- » lay the foundations
- » install the perimeter fence

### CONSTRUCTION

- » install the battery components
- » install security and fire-monitoring and fire-suppression systems
- » emergency responder training
- » interconnection (March 2023)
- » connect the battery to the grid

### OPERATIONS AND MAINTENANCE

- » starts once the battery is complete and operational

## STAY INFORMED

Visit our website anytime for information and status reports on the Battery Storage project. We will note project milestones, schedule updates or any changes that arise during construction.

We will also be sending you additional communications over the life of the project to keep you informed of the progress we're making and activities planned in the months ahead.

For more information, visit [yukonenergy.ca/battery](http://yukonenergy.ca/battery) or contact [communications@yec.yk.ca](mailto:communications@yec.yk.ca).



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