



# Proposed eReserve2 Battery Storage Project

VIRTUAL COMMUNITY OPEN HOUSE

WEDNESDAY, MAY 13, 2020  
6:00 PM-8:00 PM (VIA ONLINE AND PHONE)  
PRESENTATION AND Q&A  
M.D. OF WAINWRIGHT NO. 61 | IRMA, AB

## WELCOME

Please ask questions anytime!

We are here to provide information about  
the proposed project and answer your  
questions.

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# Introduction

- TERIC Power Ltd. (“TERIC”) is an Alberta-based Independent Power Producer with a business focus on developing specialized portfolios of clean power generation projects.
- In business since 2013, TERIC currently operates in both Alberta and Saskatchewan with several waste-gas to power generation sites, and a number of combined heat and power (CHP) units.

TERIC believes in developing clean energy projects that are economically and environmentally positive.

# What is the eReserve2 Battery Storage Project?

Owner Name	TERIC Power Ltd.
Location	eReserve2
LSD	20 km North of Irma, Alberta
Type & Size	SE-11-48-09-W4M
Technology	20MW/20MWh Battery Storage
Footprint	Lithium-ion Cells
Interconnection	~8 Acres
	Powerline N-S along RR 91 (from AltaLink 526S Substation)



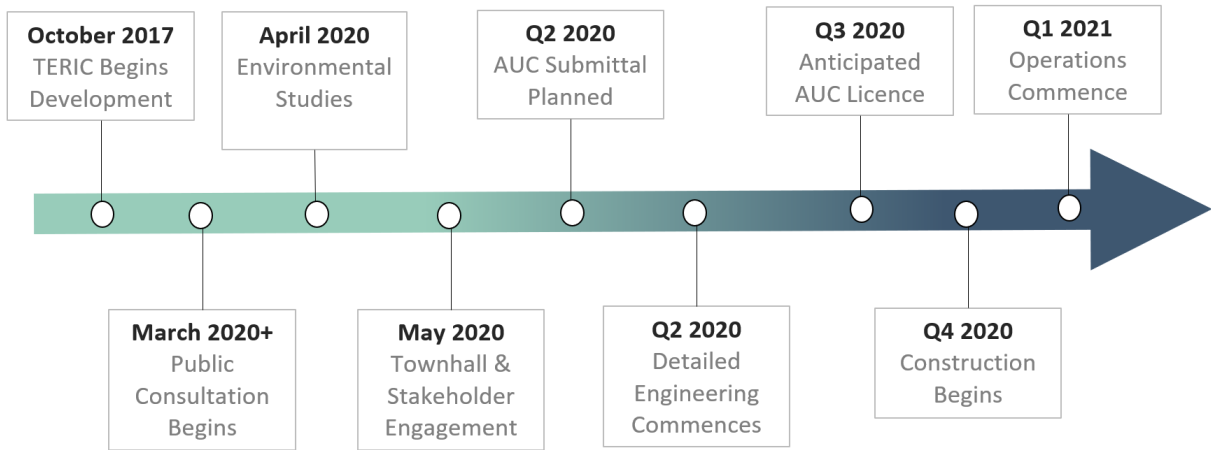
Technology is evolving, so should how we manage power.

# Why Battery Storage?

- As more renewables enter the market, the grid becomes more unstable due to the lack of predictability (wind) and commonality (solar).
- eReserve2 will store grid power, and then return the power as the Alberta Electrical System Operator (AESO) requires, generally in times of high demand.
- Storage projects within Alberta can preclude the need to build additional transmission/distribution lines.

eReserve2 will improve reliability for the Alberta electrical grid.

# Project Schedule



Public consultation will continue through the entire lifecycle of the project. TERIC believes in an open, honest, transparent and timely conversation from development through to operations and decommissioning.

\* This proposed schedule may be subject to change, given project progress. TERIC commits to update stakeholders in a timely manner for important timeline changes.

# Community Benefits

## **Municipal Tax Revenue**

- Project will generate municipal tax revenue that will contribute to the tax base for the Municipal District of Wainwright No. 61 while requiring minimal municipal services.

## **Employment**

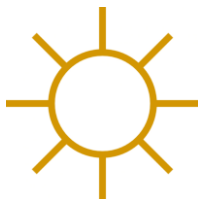
- Construction jobs for electricians, equipment operators, labourers, specialized trades, site managers and engineers.
- On-going site services once the project is operational – project operators, electricians, and vegetation control.

## **Materials, Supplies and Local Services**

- Procurement of materials, supplies and local support services during the construction and operations phases, such as accommodations and food services for workers.

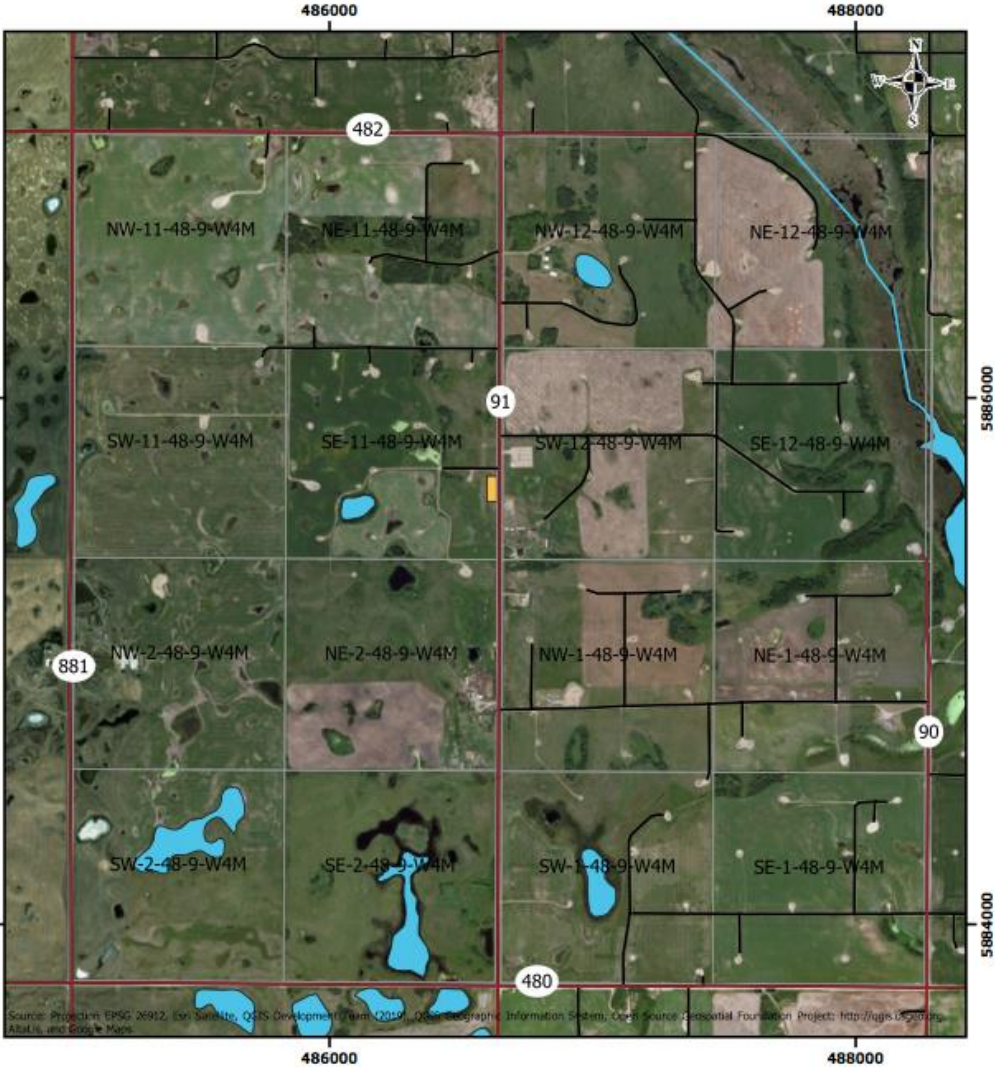
# Environmental

- A comprehensive environmental assessment was initiated in February 2020, which includes:
  - Wildlife species and habitat studies: sensitive species (i.e. sharp-tailed grouse, raptors), migratory birds, amphibians and breeding birds.
  - Within the wildlife sensitivity range of the sharp-tailed grouse.
  - Environmentally sensitive or protected areas.
  - Vegetation species and communities studies.
  - Small number of low-lying seasonal wetlands within 100m of the site.
  - Terrain and soil review.
  - Groundwater review.
  - Air quality.
- The data collected through the field studies provide a baseline and confirm that no environmental concerns are identified.
- Consultation was performed with Alberta Environment and Parks (AEP).





# Site Map



Project Name: <b>TERIC Power eReserve 2 Site</b>	
Document Title: <b>19002-SLO-0001 – Public Consultation Map</b>	
Scale: <b>1:20,000 @ 8.5" x 11"</b>	
<b>Key:</b>	
	eReserve
	Site Boundary SE-11-48-9-W4M
	Waterbodies and streams
	Primary Road
	Secondary Road
	Quarter Sectional Boundary
Client:	<b>TERIC Power Ltd</b>
Drawing by:	<b>Green Cat Renewables Canada Corp</b>
Document ID:	<b>Figure 1</b>
Version:	<b>1.0</b>
Author:	<b>AB</b>
Checked By:	<b>CM</b>
Approved By:	<b>SW</b>
Date:	<b>25/03/2020</b>
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# Regulatory Approvals

## Alberta Utilities Commission (AUC)

- Under Rule 007 – Applications for Power Plants, Substations, Transmission lines, Industrial System designations and Hydro Developments.
- Established and robust stakeholder consultation process.

## Alberta Environment and Parks (AEP)

- Environmental, wildlife/wetland studies to be completed in consultation with the AEP.

## Alberta Culture and Tourism

- A Historical Resources Impact Assessment (HRIA) was conducted in January 2020, where no historical, archaeological, or paleontological impacts are anticipated for this Project that have a Historical Resource Value.

## Municipal District of Wainwright No. 61

- Development and building permits will be applied for before construction.



# Stakeholder Consideration

## Noise

- A Noise Impact Assessment will be completed to ensure the project is compliant under AUC Rule 012: Noise Control.
- Compliance with municipal rules regarding work-hours during construction period.

## Traffic

- During construction, the site will receive a number of semi-sized loads to bring the modular equipment into site, as well as project staff accessing the site with light duty pickup trucks.
- Operation of the facility will not increase local traffic, with TERIC technicians periodically accessing the site from Range Road 91.

## Visual Impact

- The facility will have a low observable presence from Range Road 91 due to the low height, scale and neutral line of sight positioning. The containerized units and buildings will be painted in a neutral colour.

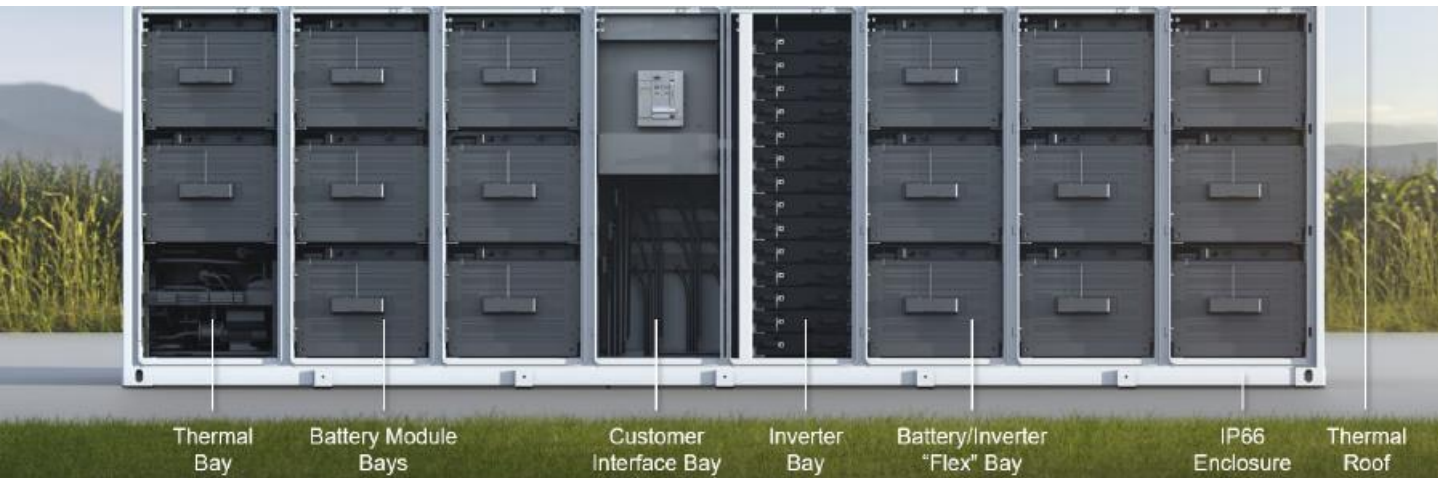
## Safety

- Safety equipment and measures will be installed to mitigate risks such as rupture, explosion, fire, and leakage.
- eReserve2's Emergency Response Plan defines pre-planned procedures in the unlikely event of an emergency. TERIC is working with local area fire and rescue services to review.

## Decommission & Reclamation

- Following the Project's lifecycle, TERIC's decommissioning and reclamation plans address activities related to the restoration of any disturbed land to their former use, in compliance with current Alberta regulations.

# Grid Scale Battery Technology



- Lithium-ion battery technology is a safe, reliable and proven technology used around the world for the efficient storage of electricity.
- Globally there is over 3,000MW of installed battery storage capacity.
- Lithium-ion makes up 85% of all installed batteries globally.
- TERIC is working with the top-tier global manufacturers of battery storage technology to select the battery equipment for this Project. We will choose a supplier with an established history of installations for battery equipment with considerations for operational efficiency, safety, construction quality, and a proven reliability record.

# eReserve2 Project Lifecycle



## A Multi-Decade Long Project

- The project is expected to be operational for 20+ years with the original batteries that will be installed.
- During the lifecycle of the Project, the project may be refurbished, which proposes using some of the existing components and replacing/upgrading others, where needed.
- At the end of the project life:
  - Decommissioning will occur. All surface equipment will be recycled or salvaged.
  - All ground infrastructure will be removed, and the land will be returned to the same condition prior to construction as defined by applicable laws, standards and regulations at the time of reclamation.

# Questions or Feedback?

- We encourage you to speak to any of the representatives here today for more information on the Project.
- TERIC is committed to sharing all available information about the project and working with members of the public to ensure that stakeholder input and concerns are heard and addressed.
- If you have a comment or question, please contact us below via a phone call or email.

eReserve Battery Storage Project website:

<https://ereserve-project.com/>


**TERIC Contact  
Information**

Craig Barnes

TERIC Power Ltd.

Phone: 403-660-5236

Email: [craig.barnes@tericpower.com](mailto:craig.barnes@tericpower.com)



Learn more about TERIC  
Power Ltd. at  
<https://www.tericpower.com>