



# Proposed Irrican Raymond eBAR Battery Storage Project

## COMMUNITY OPEN HOUSE

THURSDAY, NOVEMBER 30TH, 2023

5:30 PM-8:00 PM (IN-PERSON)

RAYMOND & DISTRICT SENIORS CLUB, 55E 100 N

RAYMOND, ALBERTA | COUNTY OF WARNER NO. 5

## WELCOME

We are here to provide detailed information about the proposed project, gather feedback, and to answer your questions.



# Introduction

- Irrican Power Ltd. (“Irrican Power”) is pleased to introduce our proposed Irrican Raymond enhanced Battery and Renewables (“eBAR”) project (“the Project”).
- The Project will consist of lithium-ion battery storage systems, that will be connected to existing Irrican Power generation assets and used to store excess energy and release it during periods of high electricity demand.
- The Project will be located on privately owned land and will consist of a 15.4-megawatt (“MW”) capacity lithium-ion battery storage system. The Project will be connected to and located adjacent to the existing Raymond Reservoir Hydro Plant.

Irrican Power is dedicated to supporting communities, environment and agriculture in Southern Alberta.

# What is the Irrican Raymond eBAR Project?

Owner:	Irrican Power Ltd.
Name:	Irrican Raymond eBAR
Location:	6 km South of Raymond, Alberta
LSD:	SW-30-5-20-W4
Type & Size:	15.4MW/30.8MWh Battery Storage
Technology:	Lithium-ion Cells
Footprint:	~0.5 Acres
Interconnection:	Powerline to Raymond Reservoir Hydro Plant

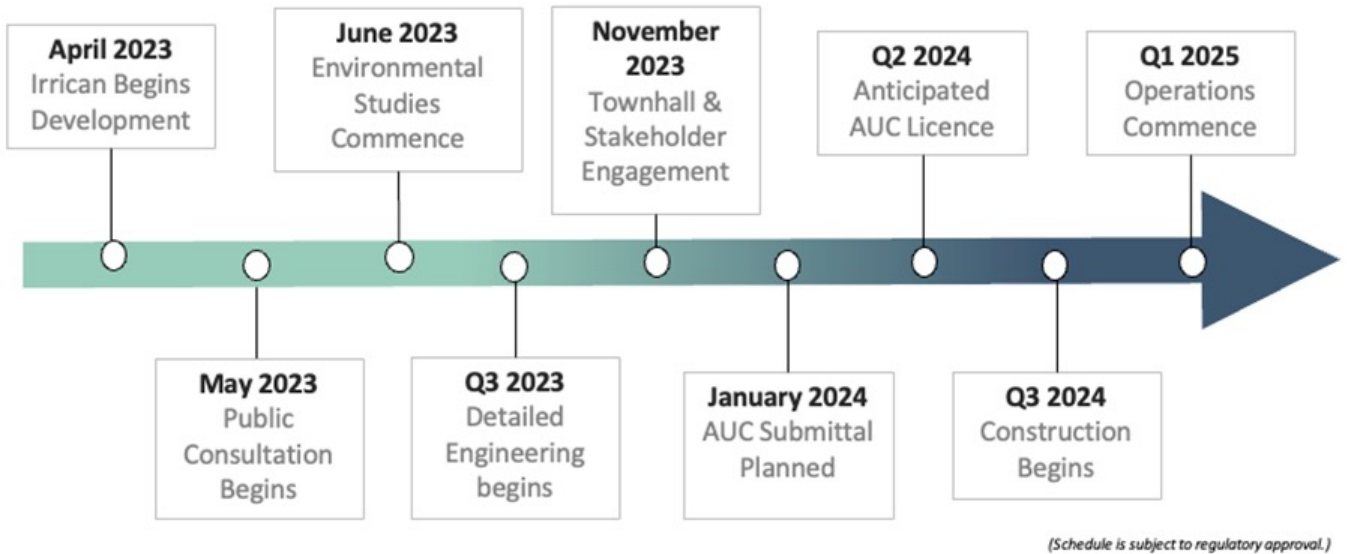


# Why Battery Storage?

- Reliable and low-cost electricity is important to all Albertans – Battery Energy Storage projects can enable this by providing grid reliability services.
- Irrican Raymond eBAR Project will store energy provided by both the Hydro Plant and the grid, 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.

The Irrican Raymond eBAR Project will improve reliability for the Alberta electrical grid.

# Project Schedule



- Irrican Power is committed to working with all stakeholders to keep them informed of our development activities. We pledge to listen to input and to address any concerns, directly consulting with the landowners, occupants, and the residents in the area.
- Public consultation will continue through the entire lifecycle of the Irrican Raymond eBAR project. Irrican Power 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 the Project's progress. Irrican Power 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 County of Warner No. 5 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 operator, 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 where feasible.

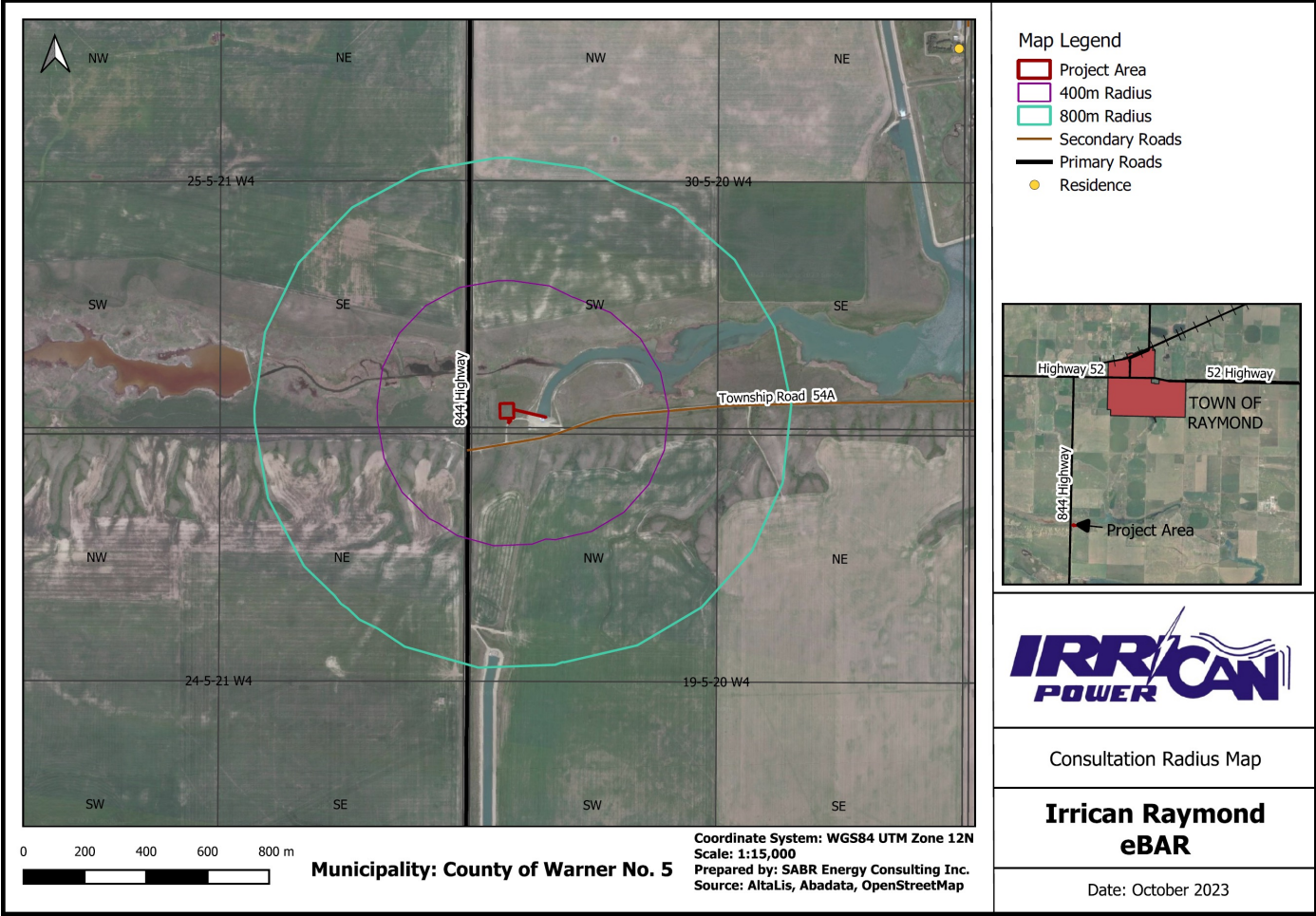


# Environmental

- An environmental assessment was initiated in June 2023, which includes:
  - Pre-disturbance wildlife and habitat studies: general species inventory, sensitive species and habitat features, and migratory birds.
  - Within the ranges of the following sensitive species or species groups: sharp-tailed grouse, sensitive amphibians, and sensitive raptors, golden eagle, and prairie falcon.
  - Review of environmentally sensitive or protected areas.
  - Vegetation species and community studies.
  - Invasive species assessment and management plan to be implemented prior to construction.
  - The identification of a semi-permanent watercourse and semi-permanent graminoid marsh wetland approximately 100 m and 94 m (respectively) north of the Project boundary.
  - Groundwater review.
  - Air quality review.
  - Pre-disturbance soil assessment to be completed prior to construction.
- The data collected through the field study provided a baseline and confirmed that minimal environmental concerns were identified.
- Consultation was performed with Alberta Environment and Protected Areas (AEPA).



# Site Map





# Regulatory Approvals

## Alberta Utilities Commission (AUC)

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

## Noise Impact Assessment (AUC)

- The NIA will evaluate potential noise impacts with consideration of any existing and proposed infrastructure in the area.

## Historic Resources Management

- Irrican Power received Historical Resource Act approval for the Project on October 27, 2023.

## County of Warner No. 5

- Municipal development, zoning, and building permits will be applied for before construction.



# Stakeholder Consideration

## Nearby Stakeholders

- Irrican Power has identified nearby landowners, industry, municipalities, and others as project stakeholders and has engaged with them directly to seek any feedback or concerns they may have.

## 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 semi-truck sized loads to bring the modular equipment into site, as well as light duty vehicles and heavy-duty pickup trucks from project staff and contractors who need to access the site. Operation of the facility will not increase local traffic, with technicians periodically accessing the site.

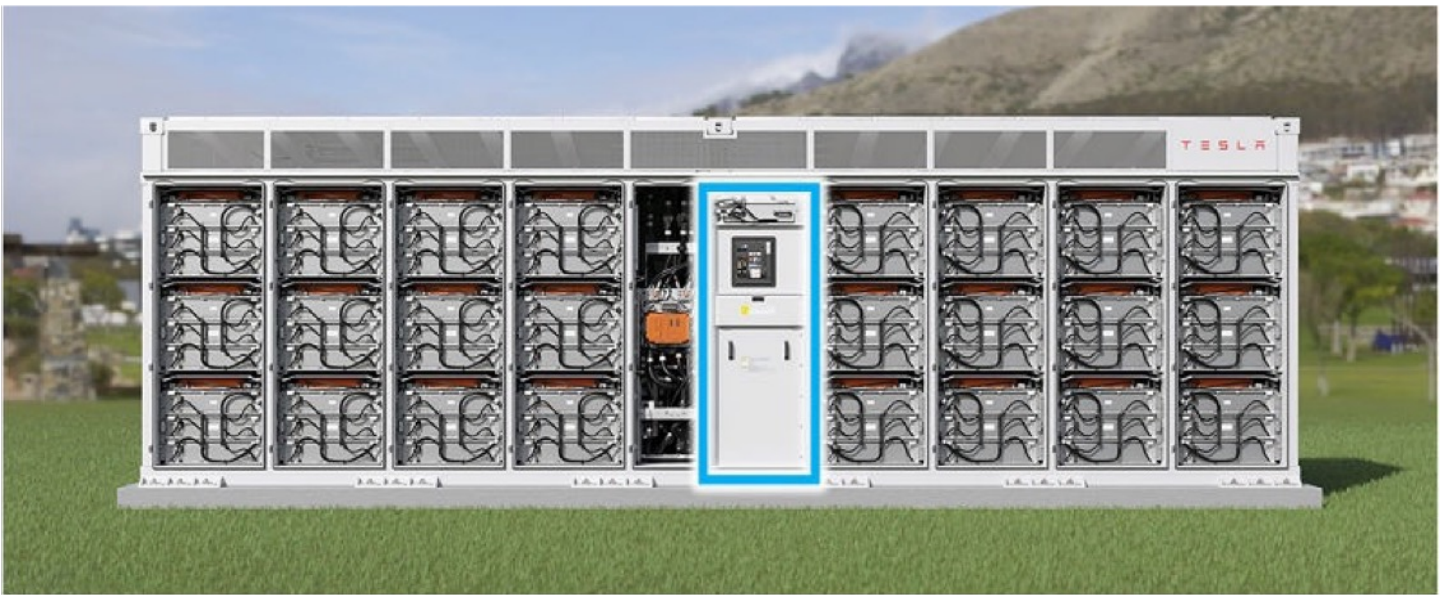
## Visual Impact

- The facility will have a low observable presence, due to the low height, scale, and neutral line of sight. The containerized enclosures and control building will be coloured to match existing infrastructure to minimize adverse visual impact.

## Safety

- Battery systems are designed to reduce the possibility of fires and other safety risks.
- Irrican Power will work closely with its operations teams, third-party Emergency Response Plan consultants, industry stakeholders such as local emergency response teams, local fire departments, equipment manufacturers, and national and international level industry standards to develop emergency response plans.

# 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 17,500MW of installed battery storage capacity.
- Lithium-ion makes up 85% of all installed batteries globally.
- Irrican Power 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.

# Irrican Raymond eBAR Project Lifecycle



## 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 equipment may be refurbished, which proposes using some of the existing components and replacing/upgrading others, where needed.
- Decommissioning and reclamation plans address activities related to the restoration of any land negatively impacted by the Project and identifies battery technology suppliers with proven battery recycling plans in place.
- Irrican Power will ensure decommissioning and reclamation activities are carried in compliance with current Alberta decommissioning regulations. The Project's equipment is modular and will allow for efficient disassembly and reclamation.



# Questions or Feedback?

- We encourage you to speak to any of the representatives here today for more information on the Project.
- Irrican Power 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 further comments or questions, please contact us below via a phone call or email.

Irrican Raymond eBAR Project website:

<https://www.irrican-ebar.com/>

**Project Contact  
Information**

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Learn more about Irrican Power at  
<https://smrid.com/about/irrican/>

