# Irrican Chin eBAR Project Overview

## July 2026

### Introduction

Irrican Power Ltd. (Irrican) is pleased to introduce our proposed Irrican Chin enhanced Battery and Renewables (eBAR) project (the "Project"). Irrican Power intends to apply to the Alberta Utilities Commission (AUC) for an approval and license to construct and operate the Project at the SW-26-8-18 W4M surface location, approximately 12 kilometers (km) southeast of the Hamlet of Chin, Alberta and 25 km southwest of Taber, Alberta in the County of Lethbridge (the "County"), Alberta. Irrican Power has partnered with TERIC Power Ltd. (TERIC) to develop the Project. TERIC has successfully developed 7 similar battery storage projects in Alberta, which have all reached commercial operation. In 2025, TERIC and Irrican successfully installed a Battery Energy Storage System (BESS) facility adjacent to their Raymond Hydro Plant, which has now been in operation for over a year.

The Project will be located on privately owned land and will consist of a 11.6-megawatt (MW) capacity lithium-ion BESS. This project will be connected to and located adjacent to the existing Chin Chute Reservoir Hydro Plant (Chin Hydro Plant). The Project will be used to store energy provided by both the Hydro Plant and from the Alberta Interconnected Electric System (AIES). Once installed, the Project will be able to store excess renewable energy and release it during periods of high electricity demand and provide grid reliability services to the Alberta Electric System Operator (AESO). As an introduction, we are pleased to provide you with the following Project details:

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### What is a Battery Storage System, and why is it required?

Battery Energy Storage Systems (BESS) do not create new electricity, but rather hold previously generated electricity in large capacity batteries. For the Project, electricity will be drawn from either the Chin Hydro Plant or from the Alberta grid, stored in batteries for a period of time. The battery storage system will effectively return stored energy to the electricity grid during times when demand is high and when required by AESO.

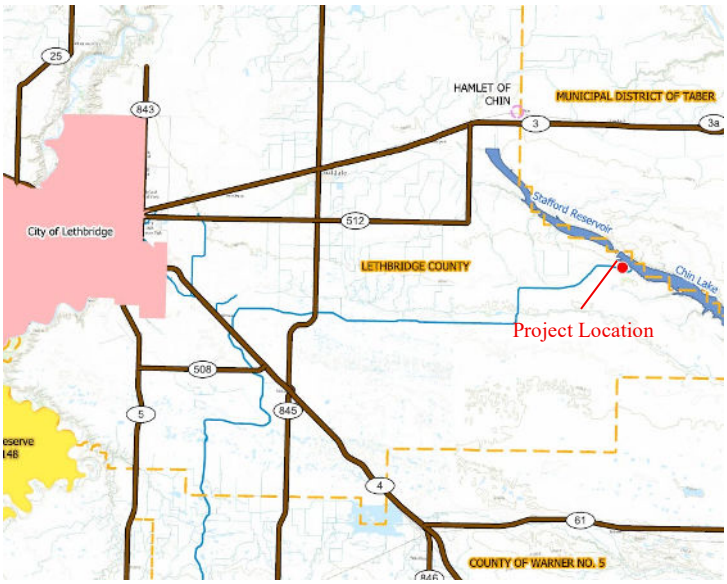
The worldwide need for energy storage, and specifically battery storage systems has increased in recent years, as renewable energy sources such as wind and solar generation make up an increasingly larger percentage of the electricity supply. While renewable power sources have a low carbon footprint, the output produced is inherently intermittent and challenging to predict. This situation is challenging for grid management, when renewable electricity sources cannot be adjusted to increases or decreases in electricity demand. Battery storage systems provide a unique solution by storing energy and releasing it to other hours of the day when needed from increasing energy demand.

## Project Overview

The Project is proposed at the SW-26-8-18-W4M surface location, adjacent to the Chin Hydro Plant. With a nameplate capacity of 11.6 MW, the battery storage system will be used to store electricity provided from the Chin Hydro Plant or from the Alberta electrical grid that will be discharged into the Alberta transmission system upon demand. A 500-metre underground power line will connect the battery facility to the existing Chin Hydro Plant. As part of the project, the existing Chin Hydro Plant substation transformer will be replaced with a new more efficient higher capacity transformer. The Project makes use of existing electrical infrastructure. There will be no new transmission lines required by the Project.

## Site Selection

The Project location was selected for several suitable features which support a BESS project. The most important feature is the proximity to the Hydro Plant, for which building the BESS will leverage existing infrastructure. Proximity to the Hydro Plant is required, as the Hydro Plant power provides one of the methods of charging the BESS. The Project land is owned by the St. Mary River Irrigation District, and the Hydro Plant is operated by Irrican Power Ltd. Additionally, with the proposed site being located adjacent to the Hydro Plant's powerhouse, there is an existing private access road, which will result in minimal construction and environmental impact.



## Technology Selection

Lithium-ion battery technology is a safe, reliable and proven technology used around the world for the efficient storage of electricity. There are multiple installations of this technology in Canada, and throughout United States, including sites currently under development or operating in Alberta since 2017. Globally there are thousands of installed megawatts of battery storage, with some operating for over two decades.

Irrican Power is currently working with top-tier global manufacturers of battery storage technology to select the appropriate battery equipment for this Project. It is of the utmost importance to Irrican Power to 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.

## Project Footprint & Visual Impact

The site will cover a relatively small footprint on privately-owned lands, covering approximately 26 metres by 46 metres of land (0.2 ha) with a maximum height of 5.5 metres. The batteries will be situated on a suitable foundation and secured within a perimeter fence. The containerized enclosures and control building will be coloured to match existing Irrican infrastructure. For security, the entire facility will be enclosed with a perimeter barbed chain link fence and will be monitored in real-time with permanently installed cameras.

The facility will have a low observable presence, due to the low height, scale, and neutral line of sight. Operation of the BESS will not increase local traffic, with Irrican Power technicians and contractors periodically accessing the site for maintenance and inspection. 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.

## Sound

Battery storage systems have inherently low noise profiles, with minimal sound originating from the Project's internal heating, cooling, and ventilation features. The sound output will be below the approved noise levels as per the AUC's guidelines. Engineering design practices will be used to ensure compliance with the AUC's strict requirements. Irrican Power has engaged a noise specialist to conduct a Noise Impact Assessment (NIA). The NIA will evaluate potential noise impacts with consideration of any existing and proposed infrastructure in the area. A copy of the NIA will accompany the AUC application.

## Emissions and Air

The battery equipment will not emit CO2 and NOx. There will be no air emissions or odours associated with the installation or normal operation of the BESS.

## Environmental Assessment

The Project area is on privately owned land classified as tame grassland adjacent to the Chin Hydro Plant. Based on environmental assessments conducted to date, the impact to habitat, wildlife and the environment will be minimal. As required by the AUC, an environmental field survey was completed in May 2026 by wildlife and environmental biologists to assess the potential impacts on wildlife, vegetation and cultural resources. A copy of the environmental assessment will be included with the AUC application.

## Safety

Irrican Power will work closely with its operations teams, third-party consultants, industry stakeholders such as local emergency response teams, local fire departments, equipment manufacturers, and national and international level industry standards to develop a site-specific Emergency Response Plan (ERP). The ERP will be used to manage and address any site-specific risks and implement any mitigation measures. A copy of the ERP will accompany the AUC application.

## Decommissioning & Reclamation

Irrican Power's 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 work to 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.

The latest AUC's Rule 007 – Applications for Power Plant, substations, Transmission Lines, Industrial System Designations, Hydro Developments and Gas Utility Pipelines ("AUC Rule 007") requires a more robust reclamation security program to be developed. This will be included with the AUC application.

## Regulatory Approvals

**Environment and Protected Areas Alberta** – Irrican Power's environmental assessment report will be available for review by the AUC and Alberta Environment and Protected Areas (AEPA) to ensure proper siting and wildlife mitigation plans to comply with current environmental legislation identified in the AEPA Wildlife Management policy for the conservation and protection of wildlife and wildlife habit. The environmental report and AEPA review if required, will accompany the AUC application.

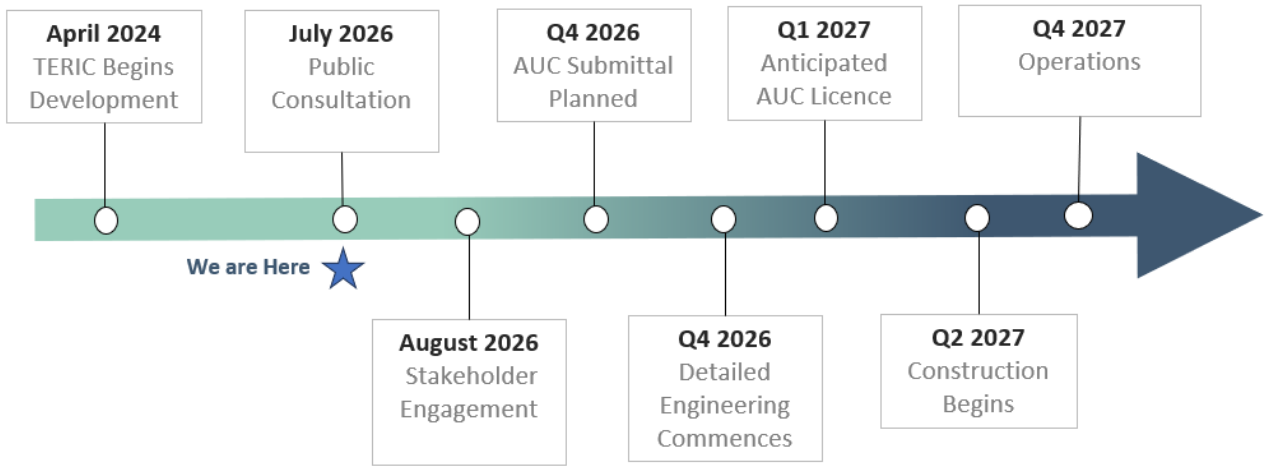
**Historical Resources Act** – Irrican Power has applied for a Historical Resource Act (HRA) approval for the Project. A copy of the application, will accompany the AUC application. The HRA approval will be included with the AUC application if received prior to submission.

**AUC Rule 007 Application** – The AUC regulates the utilities sector, natural gas and electricity markets to protect social, economic and environmental interests of the province. The AUC is an independent, quasi-judicial agency of the province of Alberta and is responsible for ensuring that the delivery of Alberta's utility services takes place in a manner that is fair, responsible and in the public interest. Irrican Power will follow the latest Rule 007 requirements issued and effective November 2025. Please review the enclosed AUC pamphlet which provides a greater overview of the application process.

**Municipal Permitting** – In June 2026, Irrican Power initiated contact with representatives of the County of Lethbridge to introduce the Project at a conceptual level. Discussions are ongoing through Irrican's stakeholder engagement process including all required consultation and planning activities with the County. The project will be submitted to the County's subdivision and development authority for both development and construction permits.

**Alberta Transportation** – Permitting by Alberta Transportation is not required as the project is located on private land, and will be accessed using existing gated access roads.

## Project Schedule




***Schedule is subject to regulatory approval**

## About Irrican Power

In October 1988, the provincial government launched the Small Power Research and Development Program, which guaranteed electricity pricing through long-term purchase agreements, which improved the financial viability for small power projects.

To take advantage of the program, Irrigation Canal Power Cooperative (Irrican) was created to develop hydro power projects using existing water conveyance infrastructure in Southern Alberta.

Irrican's hydro power plants are located at multiple sites along the St. Mary Main Canal. The cooperative was established by three irrigation districts: Taber Irrigation District (TID), St. Mary River Irrigation District (SMRID), and the Raymond Irrigation District (RID). After SMRID and TID voted to amalgamate in August 2022, Irrican transitioned from a co-op to Irrican Power Limited.

## About TERIC Power Ltd.

TERIC Power Ltd. is an Alberta-based Independent Power Producer with a business focus on developing specialized portfolios of power generation Projects. Since 2013, TERIC has operated in both Alberta and Saskatchewan, developing several power generation applications including multiple BESS, and natural gas generation assets.

## Stakeholder Engagement and Input

TERIC welcomes input from all interested stakeholders and encourages anyone with questions, comments, or an interest in discussing the project to reach out. Your feedback is important and will help shape the development process to best reflect community priorities.

## Contact Information

For more information about the Irrican Chin eBAR project, please visit:

**https://tericpower.com/project/irrican-chin-ebar-battery-storage-project/**

For information about Irrican Power, please visit:

**https://smrid.com/about/irrican/**

For questions, please contact:

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