



TransAltaTM

WaterCharger Battery Storage Project

Online Public Meeting

October 26, 2021

Land Acknowledgment

In the spirit of reconciliation, we acknowledge that this project and where we live, work and play is on the traditional territories of the Blackfoot Confederacy (Siksika, Kainai, Piikani), the Tsuut'ina, the Stoney Nakoda Nations, the Métis Nation (Region 3), and all people who make their homes in the Treaty 7 region of Southern Alberta.

Introductions

Aleta Corbet – Environmental Specialist

Rhonda Cummings – Hydro Stakeholder Relations

Chelsea Donelon – Commercial Lead

Trevor Joyal – Engagement Lead, Maskwa Environmental

Richard Leeming – IT Specialist

Cheryl McNeil – Stakeholder & Indigenous Relations

Bryan Miller – Hydro Operations

Chris Teare – Development Lead

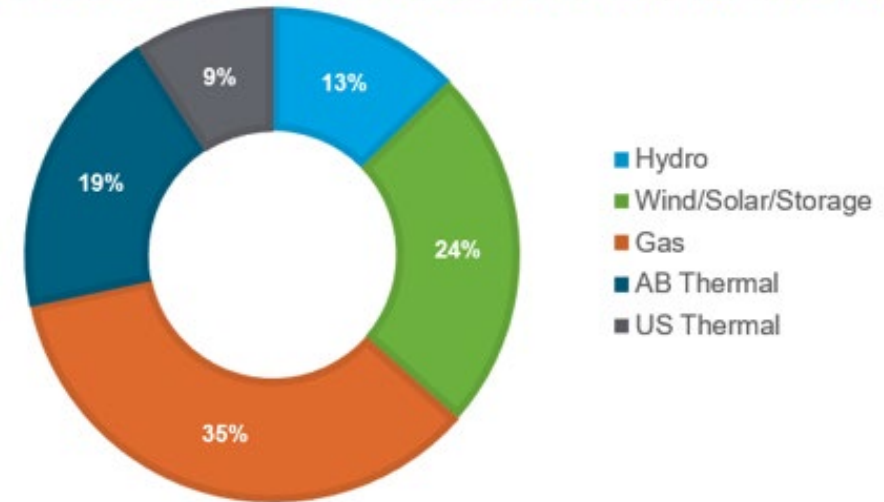
Agenda

- TransAlta overview
- Project Overview
- Project Schedule
- Project Map
- Battery Energy Storage System
- Regulatory Requirements
- Questions from Participants

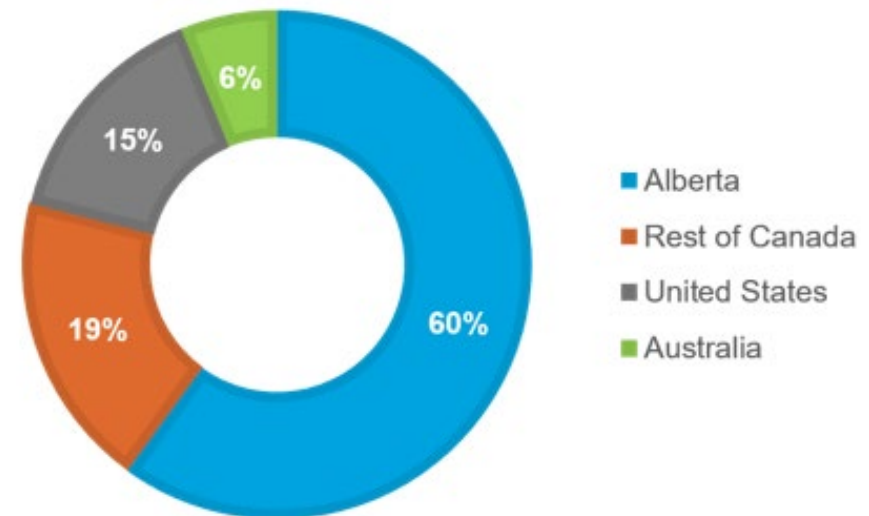
TransAlta Overview

- 110 years of generation experience
- 74 generating facilities in Canada, the United States and Australia
- Expertise in six fuel types: gas, coal, hydro, solar, storage and wind
- Owned capacity of approximately 7,300 MW
- Accelerating our clean growth strategy in renewable generation (wind, solar and storage)

Owned Generating Capacity by Fuel Type*



Owned Capacity by Geography*



WindCharger – TransAlta’s Pilot Battery Storage Facility



WindCharger - 10 megawatt battery storage facility located near Pincher Creek, Alberta, adjacent to TransAlta’s Summerview Wind Farm

WaterCharger Battery Storage Project

WaterCharger is a proposed battery energy storage project located on the south side of the Ghost Hydro-electric facility.

WaterCharger is designed to provide reliable electricity service to the Alberta electrical grid and support the development of additional renewable energy for Albertans.



The Project will cover an area of approximately nine acres on TransAlta owned lands that are part of the Ghost Hydro-electric facility. The approximate site location is shown in the above photograph.

WaterCharger Project Overview

Facts & Figures

Location: Ghost Hydro-electric facility -- Rocky View County, AB (about 18 km. west of Cochrane, Alberta)

Fuel: Energy storage

Capacity: (megawatts): 180 MW - (Phase 1 – 80-100 MW)

First on-stream: 2023

Builder: TransAlta

Project Schedule

Preliminary Project Schedule (Subject to Change)

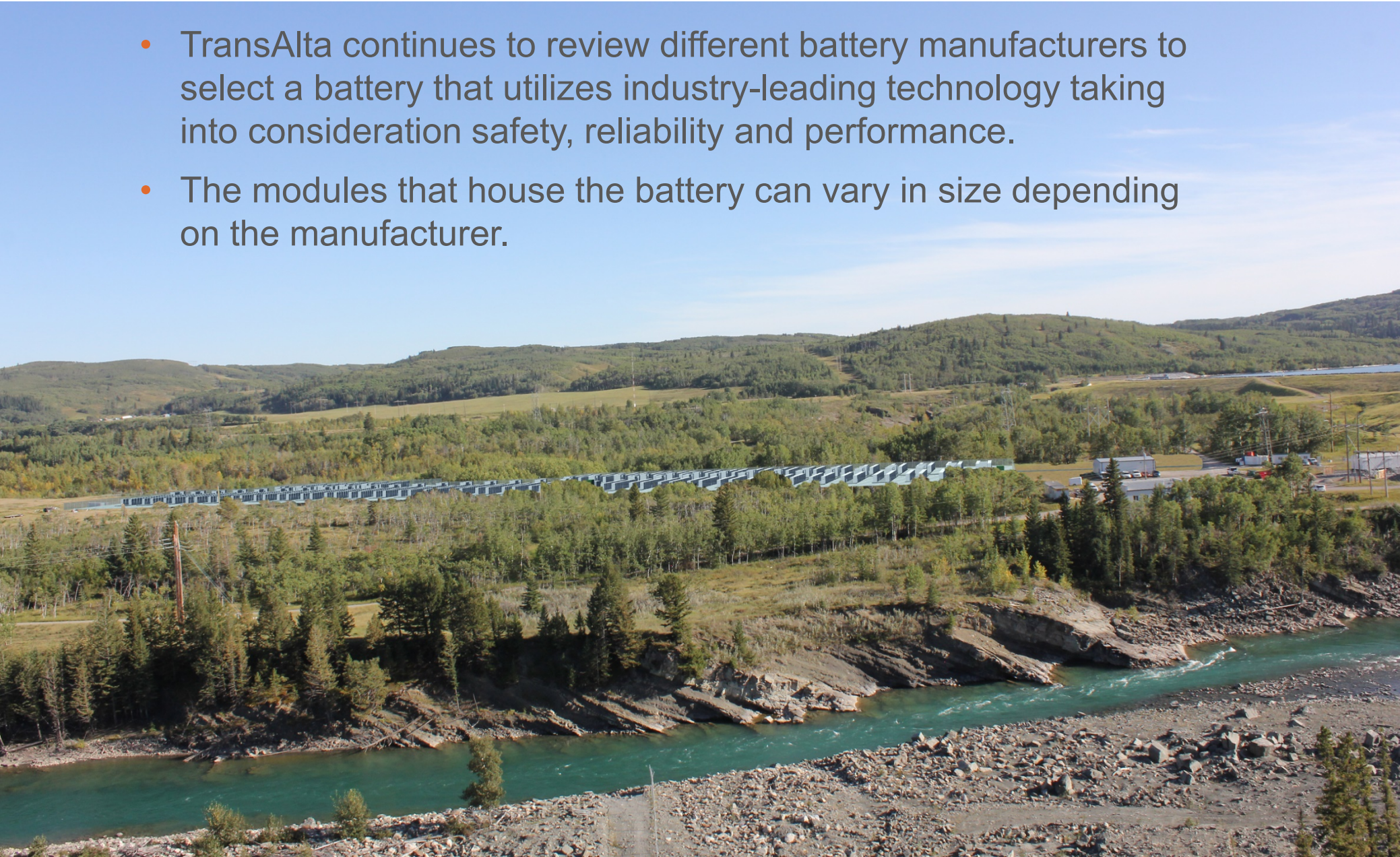
	Q2/Q3 2021	Q4 2021	2022	2023	2025
Environmental assessments					
Stakeholder & Indigenous engagement					
AUC application submission					
Receipt of approvals & permits			Q2/Q3		
1 st Phase Construction				Q2/Q3	
1 st Phase Commissioning				Q4	
2 nd Phase Construction (TBD)					

Project Map



Battery Energy Storage System

- TransAlta continues to review different battery manufacturers to select a battery that utilizes industry-leading technology taking into consideration safety, reliability and performance.
- The modules that house the battery can vary in size depending on the manufacturer.



Environmental Assessments

The following field surveys were completed from the spring to the fall of 2021:

- Amphibian surveys
- Wildlife sweep; including raptors
- Early rare plant survey and vegetation assessment
- Sharp-tailed grouse survey
- Top soil survey
- Wetland survey

The following assessments are planned for completion in the fall of 2021:

- Historical Resources Impact Assessment
- Noise Impact Assessment

Regulatory Requirements

- TransAlta is planning to file its Facility Application to the Alberta Utilities Commission in December 2021
- TransAlta is seeking feedback related to the Project from Indigenous groups and stakeholders
- We are working with Rocky View County to receive the appropriate permits
- We will be working with local Emergency Response providers to ensure emergency response plans for the battery facility are developed and training is provided as required

Questions That We've Heard

- Battery storage technology
- Contracting
- Flood mitigation / dam relocation
- Project benefits
- Visual impact
- Water management

Project Contact Information

- Please forward any questions or concerns to the Project email at:
 - TransAltaWaterCharger@maskwaenv.com
 - **Telephone: 1-888-893-8054**

Project web link:

<https://transalta.com/plants-operation/watercharger/>