

## Canadian Rockies Hemp Corporations (CRHC) Bioindustrial Fibre Project

Canadian Rockies Hemp Corporation's (CRHC) Bioindustrial Fibre Project will complete the build-out of a full-scale, Alberta designed and built hemp decortication technology, integrated with existing processing technology. This processing line will produce high-quality hemp fibre that will be used as input replacement for products like insulation, textiles, nonwoven fabrics, paper-based packaging, technical fibres, and building products. These products currently use inputs with large carbon footprints such as cotton, hydrocarbons (polyester), and forestry products. This project will reduce current and future GHG emissions directly through carbon sequestered during hemp growing phase, and indirectly by replacing current high carbon inputs with natural hemp fibre.

**RECIPIENT:**

Canadian Rockies  
Hemp Corp.

**PARTNERS:**

Pro-Series Electric Ltd.  
Wetzel Welding

**TOTAL BUDGET:**

\$2,584,213

**AI FUNDING:**

\$750,000  
(TIER)

**PROJECT DATES:**

JAN 2021 –  
OCT 2021

**PROJECT TRL:**

Start: 5  
End: 9

## APPLICATION

The target markets for this project are the natural fibre and natural fibre composites inputs for the nonwovens, pulp and specialty paper, textile applications (PPE), heavy duty textiles (flame retardant textiles) and batt insulation. CRHC's Bioindustrial Fibre Project will provide commercial supply of consistent, high-quality hemp fibre inputs needed to meet the existing and growing industry demand.



# ALBERTA INNOVATES CLEAN RESOURCES

## ENVIRONMENTAL INNOVATION

### BIOINDUSTRIAL MATERIALS

## PROJECT GOALS

- Produce high-quality fibre to specifications required for technical industries like insulation, nonwovens, bioplastics and textiles.
- Reduce direct GHG emissions created during the farming process, and indirect GHG emissions and pollutants created using traditional inputs by end-users.
- Continue to build the Alberta Hemp Industry, creating downstream cottage industries and jobs – growing Alberta’s Green Economy.
- Support Alberta Farmers with another profitable crop.
- Support rural Albertans with local job creation and boost rural municipal economies.

## BENEFITS TO ALBERTA

- Continued development and support of an Alberta Hemp Industry which is an opportunity to grow rural municipal economies, create local jobs, and grow Alberta’s economy by building a new industry, one not reliant on boom-bust economics.
- Reduction in current and future GHG emissions directly through carbon sequestered during hemp growing phase, and indirectly replacing current high carbon inputs with natural hemp fibre.
- Providing an alternative crop for Alberta farmers to increase options for crop rotation, enhance the hemp supply chain, improve soil health, and increase resilience to climate change.
- Supporting local “cottage” downstream markets.
- Opportunities for young people to enter the workforce in rural communities.
- Industry diversification in rural municipalities.
- Development of Alberta’s hemp fibre downstream market (secondary processing).

Please note the below metrics with the exception of GHG are client self report at the point of application. \*This represents quantified GHG data completed by AI's GHG consultant



**3 New Products**



**38 Project Jobs**



**100+ Future Jobs**



**\*5,247 tonnes CO<sub>2</sub>e**  
estimated cumulative project  
GHG reductions by 2030



**\*3,178 tonnes CO<sub>2</sub>e**  
estimated cumulative market  
GHG reductions by 2030

## CURRENT STATUS

### APR 2021

CRHC has ordered the Tatham Lines, the fibre cleaning line will be arriving in Bruderheim the week of April 19, 2021 and the finishing line is due to arrive in August 2021. Wetzel Welding has completed and delivered 50% of CRHC’s Long Fibre Decorticator (LFD). It has been delivered to the temporary Lamont facility where it is being commissioned. The LFD will be transported to the Bruderheim Facility in the next 4 – 8 weeks. CRHC’s Bioindustrial Fibre Project is on track to finish on schedule in Fall 2021.