

# ALBERTA: LEADING THE GLOBAL ENERGY TRANSITION

calgary economic  
development  
be part of the energy

Edmonton  
Global.

Alberta is Canada's energy powerhouse and boasts some of the best renewable resources in the country – wind, solar, bioenergy and geothermal. With a strong cleantech innovation ecosystem, a long history of industry collaboration and investment, and highly skilled talent, Alberta is the place to be to make an impact in the energy transition.

## PURSUING A NET-ZERO FUTURE COULD CREATE 170,000 NEW JOBS

AND CONTRIBUTE \$61 BILLION TO ALBERTA'S GDP BY 2050\*

To capitalize, Alberta will need to invest more than \$2.1 billion a year in cleantech by 2030, increasing to \$5.5 billion annually by 2040.

### HOME TO EXPERTS IN ALL THINGS ENERGY

- 945 cleantech companies
- 14,600+ employed in direct cleantech positions
- Nearly two-thirds of Alberta's more than 210 pureplay clean tech startups work in oil and gas; over 50% in power and utilities, and one-third in agriculture, mining, or manufacturing.
- Alberta's industrial carbon pricing system has transacted over 15 megatonnes of compliance-quality, nature-based climate solutions since 2007.

### WHY ALBERTA FOR YOUR CLEANTECH INVESTMENT?

- 8%: Lowest corporate tax rate in Canada
- 9/1000 people: Most engineers per capita in Canada (almost twice the national average)
- Top post-secondary institutions training talent for in demand cleantech jobs



- Affordable real estate in top livable cities and an iconic Rocky Mountain playground
- Home to world-class R&D, laboratories, and test centres.



A THRIVING HUB FOR THE WORLD'S  
BEST CLEANTECH INNOVATORS

**51%**  
of Alberta cleantech  
ventures are led by  
first-time founders

**32%**  
have a trades  
background

**28%**  
are born outside  
of Canada

**22%**  
are female, versus  
15.6% nationally

# ALBERTA'S TOP 6 CLEANTECH SUBSECTORS: HIGH GROWTH POTENTIAL IN A LOW-CARBON FUTURE

## AG-TECH & AGRICULTURE

Alberta exports agricultural and food products to more than 150 countries with particular industry expertise in ag-tech innovation to increase yield and improve energy efficiency. Agribusiness sector is forecast to invest \$246 million in digital transformation by 2024.



**2,399 PEOPLE**  
2030 EMPLOYMENT



**3% NET ZERO**  
PATHWAY CAGR



**59**  
COMPANIES

## ELECTRIFICATION

Alberta has an opportunity to be a leader in the development of transformational electrification technologies for heavy industry. Alberta's electricity market offers an advantageous environment for companies to develop and pilot electrification technologies to achieve net zero.



**2,980 PEOPLE**  
2030 EMPLOYMENT



**4% NET ZERO**  
PATHWAY CAGR



**13**  
COMPANIES

## ENERGY EFFICIENCY

Canada's largest cogen facilities and most competitive HVAC market make Alberta a magnet for investment in industrial process energy efficiency and large-scale, low-carbon heat recovery technologies.



**9,533 PEOPLE**  
2030 EMPLOYMENT



**7% NET ZERO**  
PATHWAY CAGR



**56**  
COMPANIES

## HYDROGEN PRODUCTION AND UTILIZATION

Home to Canada's first industrial hydrogen hub, Alberta is at the leading edge of hydrogen economy development in the country with an opportunity to be a global leader in the coming decades.



**1,062 PEOPLE**  
2030 EMPLOYMENT



**9% NET ZERO**  
PATHWAY CAGR



**13**  
COMPANIES

## DIGITALIZATION

Alberta is at the forefront of AI /ML research with companies in energy, agribusiness, transportation and logistics, creative industries, and life sciences and other sectors investing in digital transformation to improve efficiency.



**2,336 PEOPLE**  
2030 EMPLOYMENT



**24% NET ZERO**  
PATHWAY CAGR



**195**  
COMPANIES

## CARBON CAPTURE, UTILIZATION & STORAGE (CCUS)

Alberta is home to four leading commercial CCUS projects including Alberta Carbon Trunk Line, the world's largest CO<sub>2</sub> pipeline. It has extensive CCUS infrastructure and a track record of innovation in all aspects of the industry.



**1,753 PEOPLE**  
2030 EMPLOYMENT



**19% NET ZERO**  
PATHWAY CAGR



**13**  
COMPANIES