

BIOFUELS, BIOPRODUCTS AND BIOPROCESSING

Our Competitive Edge

- Saskatchewan has vast renewable resources in agriculture and forestry. Nearly half of Canada's farmland is in Saskatchewan; more than 50% of the province is forested
- The University of Saskatchewan, the province's largest research institution, houses a range of colleges, including the College of Engineering and the College of Agriculture and Bioresources, each with research programs relating to biomass feedstocks, biofuels, bio-products and process technologies
- Innovation Place in Saskatoon is one of North America's most advanced research parks for agriculture, bio-processing and the environment
- The Saskatchewan Research Council operates a fermentation pilot-plant facility, a biofuel testing service and has extensive expertise in alternative fuels and in conducting life-cycle analysis
- Canada's only synchrotron – the Canadian Light Source – lights the way to ground-breaking research in understanding biomass, pre-treatments, and bonding characteristics in biomaterials
- The University of Regina has major research strengths in informatics and energy and the environment such as carbon capture and sequestration (CCS)
- The Petroleum Technology Research Centre at Innovation Place, Regina, is poised to become one of the premier petroleum research groups in North America

Innovation and Opportunity

- Significant capabilities are available through the POS Pilot Plant with processing and extraction expertise from grains and oilseeds to algae
- Saskatchewan has extensive research expertise in oilseeds; biomass thermal conversion systems, catalysis and other bioconversion systems
- Innovation Place Saskatoon operates a confidential contract Bio Processing Centre for industry use
- NRC's Plant Biotechnology Institute's has extensive expertise in plant genomics, engineered plant systems to produce products in plants and to develop plants with stable high yields
- Saskatchewan's bio-products strengths include:
 - Biofuels and energy (ethanol, gasification, biogas, biodiesel)
 - Bio-materials and Biopolymers (fibres, bio-composites)
 - Bio-chemicals (resins, adhesives, platform chemicals, proteins)
 - Industrial solvents, oils, lubricants)
 - High-value molecules
 - New environment-friendly process technology



- We offer extensive research and technological support and infrastructure – and have a globally connected and collaborative community of private interests to grow our renewable resources. Exciting opportunities in this emerging industry include:
 - Advanced biomass fuel and pre-treatment technologies for cellulosic-based fuels.
 - Crop and animal product processing and fractionation for Biofuels, bio-oils and bio-refinery development
 - Feed and fermentation technologies.
 - New food and industrial product development from biological feedstock
 - Bio-chemicals and bio-composites
 - Microbial and environmental technologies

The Investment Climate

- Canada and Saskatchewan have programs and policy supportive to the development of the renewable fuels industry, pursuing rural value-added opportunities and bio-refinery development
- A world-renowned cluster of private companies and research facilities in Saskatoon
- GIS-based resource mapping with infrastructure and transportation over-lay to assist in planning
- Support from organizations and agencies providing research, development and business guidance
- Government committed to Industry growth and Innovation:
 - Provides significant strategic area support through Innovation Saskatchewan, the Agriculture Development Fund and the Green Initiatives Fund
 - Facilitates knowledge and technology transfer through the support, development and growth of local manufacturing consortiums and value-chain development

The Bottom Line

- The Corporate Income Tax (CIT) rate is 12%
- The Corporate Income Tax rate for manufacturers in Saskatchewan can be as low as 10% through our manufacturing and processing profits tax reduction
- The Corporate Capital Tax for businesses has been eliminated
- The 5% Investment Tax Credit for equipment purchased for manufacturing and processing is now a refundable tax credit
- 100% of eligible R&D expenses can be used against net income for the purpose of calculating federal tax credits
- 15% refundable provincial income tax credit for scientific research and development expenditures

Want to know more? Contact:

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Visit our website at <http://www.enterprisesask.ca/> to learn more about our bio-products and processing expertise, government resources and research facilities.

Disclaimer: The information in this document is accurate as of May 2011; however, the Government of Saskatchewan accepts no liability for any actions taken as a result of the information contained herein.