



PRESS RELEASE

EMISSIONS REDUCTIONS ALBERTA FUNDS LWR'S PAUNCH MANURE DEMONSTRATION PROJECT AIMED AT ACHIEVING CARBON NEUTRALITY



FOR IMMEDIATE RELEASE

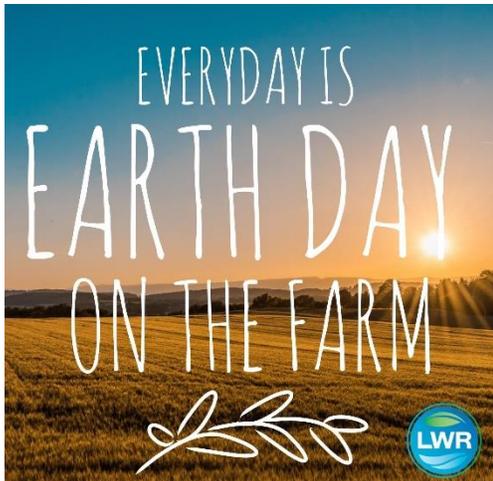
Calgary, AB – (Earth Day, 2021) Alberta's agri-food sector is a vital part of the Alberta economy, contributing \$9.2 billion in GDP and employing over 77,000 Albertans! Earlier this week, Alberta's Minister of Environment and Parks, Jason Nixon, announced the winners of the Food, Farming, and Forestry Challenge with ERA CEO, Steve MacDonald during at ERA's Lessons Learned Workshop and SPARK Speaker Series online event. A total of 150 applications were received requesting a total of \$383 million for projects worth \$1.5 billion. From the 17 approved projects, six projects are in the agriculture and agri-food sector.

Calgary based Livestock Water Recycling has been announced as one of the 17 successful applicants to receive funding to support the installation of their award-winning nutrient recovery technology in the province. While earlier versions of LWR's novel technology have seen initial adoption and validation on dairy farms in the US and in the Middle East with the combined ability to recycle over one billion gallons manure annually, this will be the first installation of the most sophisticated and compact version of LWR's technology anywhere in the world. This will also be the first ever demonstration site tailored to beef manure, and specifically concentrated on treating paunch manure for the protein processing sector.

Paunch is a very difficult treatment issue for processing facilities as it is comprised of partially digested materials. This liquid can create expensive water treatment challenges for food producers, and because of this it often ends up in lagoon storage. Not only will this project prove out ongoing paunch manure treatment, it will also showcase the positive economics of this waste-to-worth approach in Alberta. This project will de-risk the technology for the global meat packing and livestock sectors, while ensuring safety, security, and sustainability throughout the protein supply chain for the consumer.

LWR uses advanced water treatment to segregate valuable fertilizer nutrients from livestock manure. As the manure effluent flows through the process, nutrient particles are sequentially removed. This treatment process considers the unique composition of bio-waste liquids and is designed to treat these liquids in an environmentally safe way that allows for densification of nutrients which results in improved economics. Not only will this project demonstrate that an

Alberta-made clean technology has the ability to reduce greenhouse gas emissions, it will do so while adding new revenue streams that will benefit the local and global competitiveness of Alberta's food and farming sectors.



On April 22, the world joins together to celebrate Earth Day. We are proud to work with some of the most forward-thinking farms and food companies in the world who take care of our planet each and every day. 🌍

“Agriculture and forestry are critically important to the economy of Alberta. This investment, driven by the TIER regulation, will help advance innovative processes and technologies to support the province’s bioeconomy and reduce emissions. It builds on Alberta’s historical strengths in agriculture, forestry, and land use” says Jason Nixon, Minister of Environment and Parks, Government of Alberta.

“With support from Emissions Reductions Alberta, we will prove out our approach to beef and beef paunch manure management and wastewater treatment, while creating a valuable manure economy in Alberta” says Karen Schuett.

“Alberta protein producers and food processors are poised to emerge as world leaders in sustainable farming practices by demonstrating how to increase food production without compromising the planet, and we couldn’t be more excited to be part of this success story” she adds.

Strategic and scalable in its approach, this ERA funded project has the potential to create dozens of skilled trade, manufacturing, engineering, sales, marketing, and administrative jobs in our province over the next two years. Further commercialization will directly support the beleaguered manufacturing industry in Alberta that has been hardest hit by the oil and gas downturn.

“Alberta’s food, farming and forestry sectors are critical to achieving Alberta’s economic and environmental goals and their innovative capacity is world class. The projects announced today will create jobs, attract investment, open new markets and deliver it all with improved environmental performance” says ERA CEO Steve MacDonald.

Production standards, biosecurity, product safety, and conscious consumerism are all trends that will elevate the animal agriculture industry into the future. Alberta sits at the forefront of innovation and LWR is committed to supporting the province’s protein sector as it responds to the growing market demand for healthy and sustainable food. This project is poised to help showcase Alberta as the producer of the highest quality, safest, most sustainable protein in the world.

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About Emissions Reductions Alberta

For more than 10 years, ERA has been investing the revenues from the carbon price paid by large final emitters to accelerate the development and adoption of innovative clean technology solutions. Since ERA was established in 2009, they have committed \$646 million toward 204 projects worth \$4.5 billion that are helping to reduce GHGs, create competitive industries and are leading to new business opportunities in Alberta. These projects are estimated to deliver cumulative reductions of 37.7 million tonnes of CO₂e by 2030. For more information, visit: www.eralberta.ca

About Livestock Water Recycling

LWR is an award-winning global innovator of the on-site fertilizer PLANTTM. This patented technology platform provides hog, dairy, anaerobic digester, and food processing operations the ability to selectively extract particles from biosolid stream allowing for the best use of the liquids - recycled clean water, fertilizers, biogas feedstock. LWR’s approach to water treatment achieves triple-bottom-line outcomes: meeting the growing demand for food, increasing farmer profitability, and protecting the environment and public health. LWR’s fertilizer PLANTs save farmers time and money by providing them with a cost-effective solution to manage manure and bioliquids in a sustainable manner. LWR has systems operating throughout Canada, the US, the Middle East, and soon, the United Kingdom. For more information, visit: www.livestockwaterrecycling.com

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