PRESS RELEASE

LWR ENTERS NEW MARKET WITH BIOGAS COLLABORATION AND NEW DISTRIBUTION AGREEMENT

First project underway in Northern Ireland will address the nutrient impacts of food and farm waste from an anaerobic digester facility that supplies biogas energy to the National Grid

FOR IMMEDIATE RELEASE

Lisburn, Northern Ireland – (Aug 10, 2020) LWR continues to disrupt the livestock and food processing industries with their patented data driven nutrient recovery platform. The process eliminates the impacts of waste by transforming bioliquids into two distinct crop fertilizers and clean, reusable water. As part of their commitment to facilitating safe and sustainable global food systems, LWR is increasing their market share with the announcement of a new installation coupled with a distribution partnership in the United Kingdom.

Northern Ireland based Genesis Distribution was carefully selected to spearhead LWR's expansion into this strategic market. This partnership represents a significant step towards food safety, clean energy security, and the long-term sustainability of the food supply chain in the UK. An inaugural project to address the nutrient impacts of food and farm waste at an anaerobic digester facility is already underway. Later this year, LWR's fertilizer PLANT system will be installed in Northern Ireland to treat waste digestate liquids after the creation of biogas energy for the National Grid, maximizing this real waste-to-worth equation.

Digestate, the product of the anaerobic digestion process, is a rich source of nutrients that can be made available as valuable natural fertilizers with the implementation of LWR's PLANT system. Nutrient losses, particularly that of nitrogen coupled with the phosphorus question, are a common problem. Considerable expense is involved with digestate management to avoid leaching on the soil and air emissions. LWR's PLANT system will isolate the phosphorus and suspended solids, while concentrating the ammonia and potassium in a low volume liquid concentrate. This is especially important in Northern Ireland where ammonia and nitrogen levels have damaged waterways and wetland habitats and the unrelenting march of phosphorous levels are increasing in the soils.

To protect water quality across Europe, the Nitrates Directive was launched in 1991 to prevent nitrates from polluting ground and surface waters and to promote the use of good farming practices. LWR's smart, flexible on-site nutrient recovery platform provides regulatory compliance with the EU's Nitrates Directive.

Par Biogas, a farmer owned anaerobic digester company in Norther Ireland produces renewable energy from silage and the slurry from livestock farming. They have been suppling energy to the National Grid since January of 2015.

"Our exhaustive research determined that LWR's on farm fertilizer PLANT provides the biggest return to farmers and anaerobic digester operations through their value additive approach to digestate and manure slurry treatment" says Stephen Lewis, founder of Genesis Distribution.

Stephen presented the technology to Par Biogas, a farmer owned anaerobic digester company that produces renewable energy from silage and the slurry from livestock farming. They have been supplying energy to the National Grid since January of 2015.

Anaerobic digestion turns biomass into gas for heating and power. The gas, called methane or biogas, is produced by bacteria. Biomass includes anything that is plant-derived: municipal solid waste, manure, crop residues, compost, food waste, paper and wastewater. Biogas in the UK has been instrumental in achieving a secure supply of local green energy while reducing the carbon footprint of energy production and helping to form a more circular and sustainable green energy policy.

PAR BioGas was formed by Philip McCrea, Alistair McIvor and Rodney Sloan – 3 pig and beef farmers who had an abundance of waste slurry to handle. They identified the emerging BIOGAS sector in Northern Ireland as a way of generating income from a waste that is expensive to handle. Building their Anaerobic Digester has increased their revenue stream while covering costs and increasing profits. Collectively, they are reducing the carbon footprint of three farms while providing renewable and clean energy to the local area.

With a substantial amount of waste that still needed to be handled, the company turned their attention to reducing their handling costs while taking a more targeted approach to utilizing nutrients, such as nitrogen, and removing the problem element of phosphorous. In doing so, they look forward to further reducing their carbon footprint and returning valuable nutrients and organics back to the earth to allow them to continue to farm sustainably.

"With the ongoing challenges that our company has endured with manure management, LWR's technology has provided us with the answers to our problems," commented Company Director Alistair McIvor. "The LWR System provides us with the target nutrients we need to grow our crops, while removing the problematic phosphorous and returning up to 70% clean water back to the environment. This completes the renewable and sustainable answer to our equation."

Once the energy potential has been expended, the digestate will be pasteurized to kill bacteria and pathogens before the LWR System will be used to reduce the volume of liquids while increasing their fertilizer value.

LWR's approach to manure treatment helps the livestock sector achieve triple-bottom-line outcomes: meeting the growing demand for food, increasing farmer profitability, and protecting the environment and public health. Ross Thurston, co-founder and CDO of LWR is proud to help create a circular economic advantage for farmers.

"Our customers are responding beneficially to consumer demands of transparency and sustainability, without having to choose between profitability and the planet" says Thurston. "The system includes an automation and data analytics

package and is the only product on the market to digitize the nutrient footprint of manure and digestate through on-system sensors. We have accumulated and anonymized thousands of treatment data points from years of operation to optimize the value and potential of bioliquids. We are thrilled to put this information to use for Par Biogas to produce the best possible outcomes for a sustainable and transparent food supply chain."

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About Genesis Distribution

Genesis Distribution is a sales and distribution business within Northern Ireland with a firm eye on the agricultural marketplace. With a strong emphasis on repeat business and customer retention, Genesis Distribution believes it can take on the challenges of an undulating marketplace. The company has a flexible approach to business and tailors products to both the customers' practical and financial needs. Genesis Distribution believes in partnerships in business and aims to be the catalyst that brings people and companies together so that we can invest in each other through the supply and maintenance of quality products. As a working partnerships develops, trust builds, which Genesis Distribution believes is the key to customer retention. For further information or if you would like to reach out to Stephen he can be contacted on stephen@genesisdistribution.co.uk or Mobile 07876 452058

About Livestock Water Recycling

LWR is an award-winning global manufacturer of an on-site fertilizer PLANT. This patented technology platform provides hog, dairy, anaerobic digester, and food processing operations the ability to recycle clean water and fertilizers from nutrient laden liquids such as slurry and digestate. LWR's approach to manure 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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