



PRESS RELEASE

FIRST WAVE SYSTEM COMMISSIONED IN CALIFORNIA AS PART OF THE STATE'S ALTERNATIVE MANURE MANAGEMENT PROGRAM

From salt reductions to lowering methane emissions, this California dairy has transformed their manure management

FOR IMMEDIATE RELEASE

Lodi, CA – (September 27, 2021) Livestock Water Recycling (LWR) has partnered with Figure 8 Environmental to install and commission the First Wave system on a 3000 cow dairy farm outside of Lodi, California. The project was funded in part through the California Department of Food and Agriculture's Alternative Manure Management Program (AMMP). AMMP provides California dairy producers with access to financial assistance for the implementation of non-digester manure management practices which will result in reduced greenhouse gas emissions. This project is expected to reduce on farm emissions by 16,287 MTCO_{2e} over five years.



Lima Ranch owner Jack Hamm looks over his dairy cows as they feed in Lodi, California. | Getty Images

Third generation dairy farmers Jack Hamm and his wife Pati took over the management of her family's dairy farm in 1992. Since then, Lima Ranch Dairy has grown from a 1000-cow operation to over 1500 milking cows, 1200 heifers and 200 dry cows. The addition of this manure treatment technology will not only reduce the farm's carbon footprint, but it will ensure that Lima Ranch Dairy remains nutrient compliant while creating a cleaner flush and increasing their use of water-efficient irrigation systems.

The First Wave system is a patented process technology that separates hard to manage, dilute, low value liquid manure into two distinct products. The first is a dry, nutrient rich, high value solid that can be land applied, stored, or economically moved off farm. The second output is solids-free irrigation water that can be applied through drip or pivot systems. This installation has already reduced on-farm manure expenses including the elimination of pond and lagoon clean outs.

"I am floored to see the amount of solids captured every day by the First Wave" says Hamm. "I would have never thought that much sludge would still be entering the lagoons after my slope screens."

LWR is working with Figure 8 Environmental to create the best possible financial returns for dairy businesses through the integration of manure data into existing farm management systems. This is creating new revenue opportunities by facilitating easy access into marketplaces for natural fertilizer sales, greenhouse gas and carbon credits and the

massively growing renewable natural gas (RNG) market. After digitizing the footprint of the manure in real time using sensors, LWR is using machine learning and advanced analytics to provide customized data insights on a mobile app that is available with each system installation.

“Over the years we have seen too much potential profit flow away from the farm” says Figure 8 Environmental CEO Scott Harrison. “California dairies are among the most innovative and progressive businesses in the world, and we are excited to offer them tools to capture that revenue. As adoption of progressive and sustainable technologies like the First Wave system increase, we will see increases in both milk production and on farm profitability” he adds.

“From soil regeneration, carbon capture, resource optimization and water recycling, to moving volatile solids from manure into the RNG market, there are incredible value opportunities in manure, and we are delighted to unlock that value for livestock producers” says LWR CDO Ross Thurston.

Figure 8 will join LWR this week in Madison, Wisconsin for World Dairy Expo where they were chosen for the World Dairy Expo Tech Spotlight to highlight manure profitability. For years, World Dairy Expo has been the place to introduce new ideas and innovations to the global dairy industry. The World Dairy Expo Tech Spotlight takes this tradition to the next level by creating a platform for dairy technology to showcase for dairy producers around the globe.

World Dairy Expo Tech Spotlight will be divided into two parts, first a showcase of the innovations, followed by a panel discussion with industry experts including: Marcia Endres, PhD, Professor and Director of Graduate Studies, Animal Science, University of Minnesota-Twin Cities; Trevor DeVries, PhD, Professor and Canada Research Chair, Animal Biosciences, University of Guelph; and Jeffrey Bewley, PhD, Analytics and Innovation Scientist, Holstein Association, USA. This event will take place on September 28 at 10:30 a.m. (CST) in Mendota 2 meeting room.

World Dairy Expo will run from September 28th until October 2nd. LWR and Figure 8 will be exhibiting together in the Exhibition Hall at booth 5015.

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About Figure 8 Environmental

Figure 8 Environmental provides a profitable and customizable combination of equipment, installation, management and services required by agricultural, industrial and municipal operations to manage waste and to ensure water quality. They design, build and operate turnkey dairy manure recovery systems that are profitable addition to a dairy's operations. For more information please visit: www.figure8environmental.com or by email to info@fig8env.com

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

About World Dairy Expo

World Dairy Expo is a five-day event showcasing dairy cattle and the newest technologies available to the dairy industry. The show is held annually at the Alliant Energy Center in Madison, Wisconsin, United States. The world's largest dairy-focused Trade Show features more than 650 companies and is home to one of the best-known dairy cattle shows in the world. Discover dairy show cattle genetics and services available from a 1,600 Dairy Cattle Show exhibitors in the New Holland Pavilions and Cattle Tent. For more information, visit: www.worlddairyexpo.com

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