

Symphony Environmental Technologies Plc
(“Symphony” or the “Company”)

Increased d2p Anti-Insect Technology sales to
Rivulis Irrigation Ltd

Symphony Environmental Technologies (AIM:SYM), global specialists in technologies that make plastic and rubber products smarter, safer and more sustainable, are pleased to announce new orders and a global expansion of their d2p “AI” anti-insect technology sales to Rivulis Irrigation Ltd (“Rivulis”).

Rivulis has placed orders for d2p AI exceeding \$340,000 this month which follows sales in 2021 of \$65,000 which doubled to \$130,000 during H1 2022.

Symphony’s collaboration with Rivulis started in December 2017 after Symphony’s R&D department had created a masterbatch with anti-insect properties which could be put into plastic products at the point of manufacture. Since then, Symphony’s technical team has supported Rivulis in the development of a unique range of irrigation pipes for farmers and growers.

Plastic irrigation pipes and drip-tapes are a very effective way to deliver water to growing plants, but valuable water was being lost because insects were puncturing the pipes. By incorporating d2p AI into its products, Rivulis has significantly reduced the damage caused by insects, and consequently the amount of water being lost - an especially valuable benefit in dry areas of the world.

Rivulis (www.rivulis.com) is a world leader in drip irrigation products and solutions. Established in 1966, Rivulis has a strong global presence, including 16 manufacturing facilities with 2,300 employees, plus three R&D centres (in Israel, Greece and California). Having conducted field trials across several countries, with positive results, Rivulis have placed a number of orders with Symphony for d2p AI for use in irrigation systems in France, Turkey, Australia and Mexico. They have incorporated d2p AI technology into their Rivulis and Eurodrip product ranges and it is sold under the trade name Rivulis Defend.

Symphony expect Rivulis will place further orders for d2p AI before the end of this year.

Symphony’s CEO, Michael Laurier, said “We are excited by this commercial progress, following an extensive development period. Our technical teams have worked together to bring this unique and valuable product to the market. The preservation and good management of water is essential, and we believe that sales of our d2p AI technology will continue to increase in both the short and longer term. Our d2p AI technology can be used not only in water pipes, but in any plastic articles and surfaces in homes, schools etc. to defend against insects, many of which can spread dangerous diseases. We are proud that this new technology will help countries around the world to meet one of the important UN Sustainable Development Goals – the “sustainable management of water.”

Rivulis President, Drip Products and Projects Division, Eran Ossmy, said “With Rivulis Defend, we not only help growers address the challenge of insect damage but also realise labour, water and fertiliser savings. Rivulis Defend reflects our commitment to developing field-trusted innovation to address unique grower needs. We are pleased with the technical support we have received from Symphony.”

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NOTES TO EDITORS:

About Symphony Environmental Technologies plc

<https://www.symphonyenvironmental.com>

Symphony has developed a range of additives, concentrates and master-batches marketed under its d₂p® (“designed to protect”) trademark, which can be incorporated in a wide variety of plastic and non-plastic products so as to provide protection against many different types of bacteria, viruses, fungi, algae, moulds, and insects, and against fire. d₂p products also include odour, moisture and ethylene adsorbers as well as other types of food-preserving technologies. For an overview see www.d2p.net Symphony has launched d₂p anti-microbial household gloves and toothbrushes and “Symfresh” food-packaging, and is developing a range of other d₂p finished-products for retail sale.

Symphony has also developed a biodegradable plastic technology which addresses the problem of persistent microplastics, by turning ordinary plastic at the end of its service-life into a waxy substance which is biodegradable. It is then no longer a plastic and can be bioassimilated in the open environment in a similar way to a leaf without leaving microplastics behind. The technology is branded d₂w® and appears as a droplet logo on many thousands of tonnes of plastic packaging and other plastic products around the world, much of which has been recycled. In some countries, most recently Saudi Arabia, oxo-biodegradable plastic is mandatory for short-life plastic products.

D₂w technology was studied for three years in the Oxomar project, sponsored by the French government, which concluded that plastic made with Symphony’s d₂w oxo-biodegradable technology will biodegrade in seawater significantly more efficiently than conventional plastic. See <https://www.biodeg.org/subjects-of-interest/agriculture-and-horticulture/the-marine-environment/>

Following this report, the scientists allowed bacteria commonly found in the open environment access to d₂w oxo-biodegradable plastic containing Carbon 13. They found Carbon 13 in the carbon dioxide exhaled by the bacteria, proving beyond doubt that the plastic had been bioassimilated by the bacteria.

Symphony has complemented its d₂w and d₂p product ranges with d₂c “compostable resins and products” that have been tested to US and EU composting standards, and has invested in Eranova – a French company extracting starch for making plastics, out of algae.

Symphony has also developed the d₂Detector®, a portable device which analyses plastics and detects counterfeit products. This is useful for government officials tasked with enforcing legislation, and Symphony's d₂t tagging and tracer technology is available for further security.

Symphony has a diverse and growing customer-base and has established itself as an international business with 74 distributors around the world. Products made with Symphony's plastic technologies are now available in nearly 100 countries and in many different product applications. Symphony itself is accredited to ISO9001 and ISO14001.

Symphony is a member of The BPA (www.biodeg.org) and actively participates in the Committee work of the British Standards Institute (BSI), the American Standards Organisation (ASTM), the European Standards Organisation (CEN), and the International Standards Organisation (ISO).

Further information on the Group can be found at www.symphonyenvironmental.com and twitter @SymphonyEnv See also Symphony on Instagram. A Symphony App is available for downloading to smartphones.

About Rivulis

Rivulis is a global [micro irrigation](#) leader, focused on enabling and promoting a sustainable agri-food supply chain to not only feed our planet but also save it from the perils of climate change.

Rivulis offers the most innovative [irrigation solutions](#) for seasonal, permanent, and protected crop environments, through its three product and service portfolio brands: Rivulis, Eurodrip and Manna. Established in 1966, Rivulis has 16 large-scale manufacturing sites located across six continents, three R&D Centers (Israel, California, and Greece) and multiple [Irrigation Project](#) Design Centers around the globe.

Leading the mass adoption of micro irrigation globally, Rivulis is committed to increasing accessibility to all growers everywhere through simple, affordable, and smart technology covering the full cycle from design to harvest. To learn how Rivulis can help you GROW BEYOND your highest expectations season after season, visit www.rivulis.com.

<https://www.rivulis.com/rivulis-and-jain-irrigation-international-irrigation-business-to-merge/>