374water

The Future of Food

HEALTHY FOOD BEGINS WITH CLEAN WATER AND CLEAN FERTILIZER

374Water is proud to present the concept of "Waste to Food", where clean, safe reclaimed water and minerals are used to drive the circular economy of waste and food.

WASTE TO FOOD CIRCULAR ECONOMY

Imagine Mark Watney's (The Martian) greenhouse on Mars, where food can be grown with light, CO2, water and fertilizers originating in human waste. The decentralized SCWO waste processing system was designed to operate in harsh conditions, disconnected from central sewer systems and even from electrical grid. It provides the perfect solution for on-site waste treatment, where everything is converted to CO2, reusable water and fertilizers - perfect for growing fresh and healthy food. Technically speaking - it can even operate on Mars!

By now, it is clear that technology is going to play a big part in the future of food, from agriculture and farming to bio-tech products and solutions designed to address our evolving logistic, economic and environmental needs. The main challenge for modern agriculture today is nding environmentally sustainable and scalable solutions for growing and producing food cost-effectively. At the same time, we need to nd ways to manage the industry's carbon chain better, treat its waste streams adequately and optimize its use of freshwater.

The SCWO Nix Systems are a great solution for a circular economy revolving around ag waste, fertilizers, irrigation and energy. They excel in reducing animal manure carbon footprint, treating it all the way to clean water and minerals while being resilient to climate change. Originally designed to be deployed in developing countries - they are using waste streams to fuel their reactor and do not require extensive and costly infrastructure, access to fresh water or connection to the grid. In addition, the Nix omni-processors can treat or co-treat any organic sludge including food waste, plastic, waste oil and more.

Combined with vertical farming they can make a compact, on-site, resilient waste-to-food and specialty resources production system, which can be deployed anywhere in the globe (and beyond!).