

# Blue Farms (Urban Ecological Systems Ltd) Wastewater bioconversion system

Blue Farms is revolutionising sustainable food production by cultivating high-quality plants and fish in commercial quantities, designed to meet the growing demands of supermarket chains. Having developed their concept to an advanced stage, Blue Farms sought an industry expert to conduct an engineering review and facilitate the scaling of their process to full production capacity. The goal was to value-engineer the concept, optimising its benefits and creating a solution ready for industry-wide implementation.

-  Global applications
-  Advisory services, management consulting, design, engineering and project management

## Project scope

Wiley tackled a challenging scope of work by quickly understanding the prototype concept and enhancing the upscaled design.

We identified and estimated costs for suitable equipment and materials based on the environmental conditions.

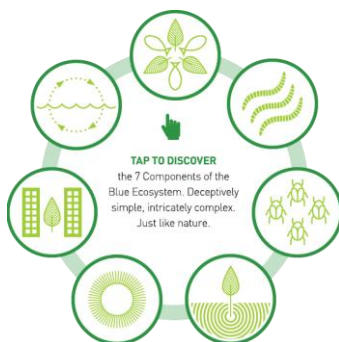
Our team performed a risk assessment of critical systems and developed backup systems to ensure reliability. We then created 3D design layouts that integrated with various system providers to support a fast delivery program.

## Business value to client

Blue Farms were delivered a prototype for a bioconversion system, designed to process wastewater from their aquaculture fish farm into nutrient-rich feedwater for crops. This system could also recycle excess feedwater by rebalancing its nutrients for reuse.

Wiley transformed this concept into a full-scale solution ready for installation, streamlining costs and complexity, while enhancing the system's cleanability and durability.

Click on this image to discover how the Blue Farms bioconversion system upgrades wastewater into a viable agricultural feedwater:



Complex services



Sustainable



Glasshouse environment



Advisory Services

