



ARK
Agro Resilience Kit Ltd.

Growing Solutions

Hydroponics and Aquaponics Greenhouse Systems



Agro Resilience Group (ARK) is an aggregation of proven technologies working together to offer a comprehensive solution set for advancing greenhouse growing through state of the art structures, lighting and aquaponics, and more to achieve low capital cost, low operating costs and sustainable resilient operations.

Competitive Advantage From Layers of Disruptive Technology

Artificial lighting increases revenues by about 20-40%

CO2 production reduces costs by about 4%

Cogen, managed passive solar and aquaculture reduce utility costs and increase profits by about 8+%

Fertilizers costs are largely removed, increasing profits by about 3%

Fish have the ability to increase revenues

The Sprung greenhouse has many advantages

Significant intellectual property and barrier to entry, for a rapid payback and superior ongoing returns

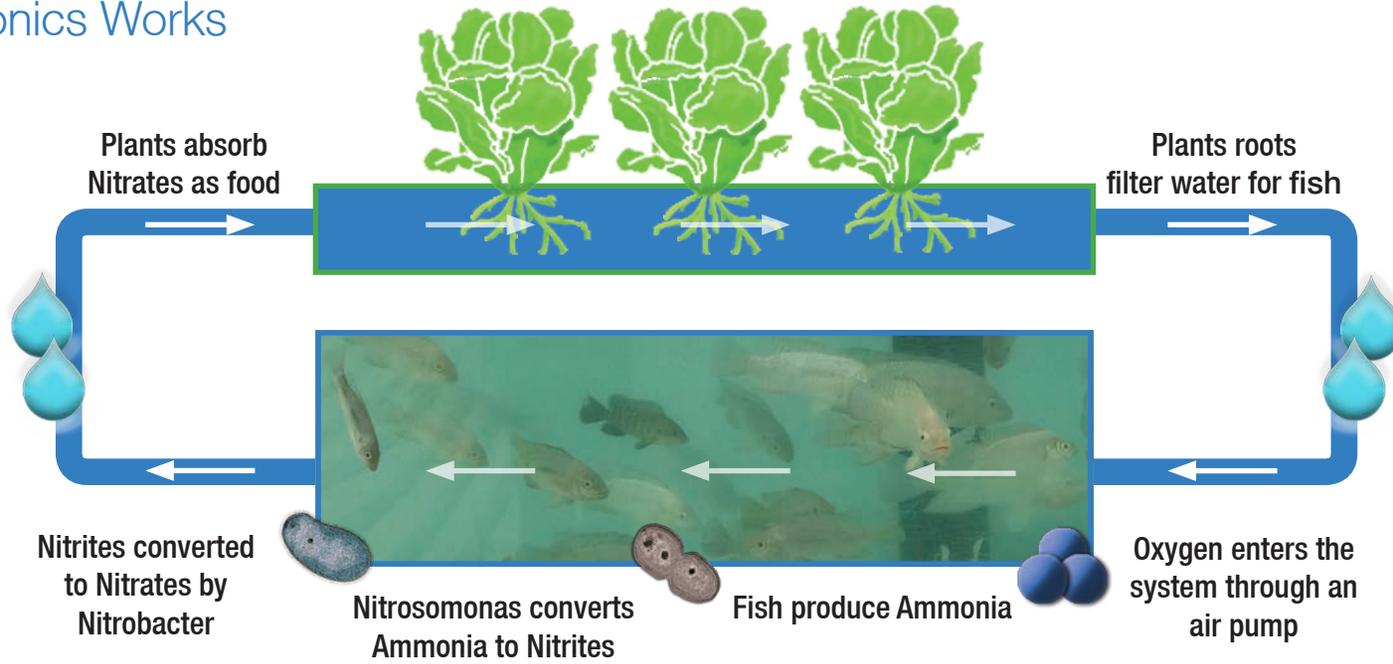
None of these represent completely novel technologies on their own, nor without many years of proven viability, but properly coordinated and combined can result in a greenhouse with significantly higher profits and lower environmental footprint. The ability to successfully combine all of these elements in one complete, turn-key solution adds real value to our projects, and differentiates us from the competition. We offer our customers the choice of selecting options “a la carte”.



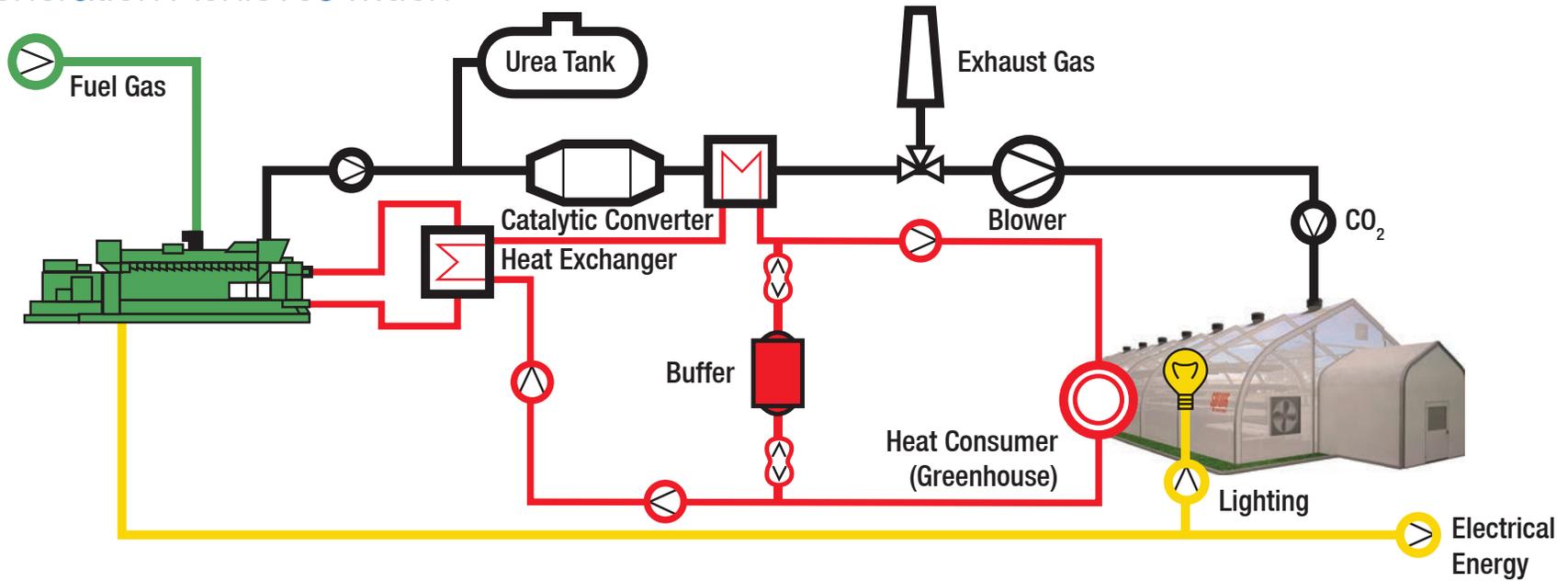
ARK demonstration greenhouse in Aldersyde, Alberta



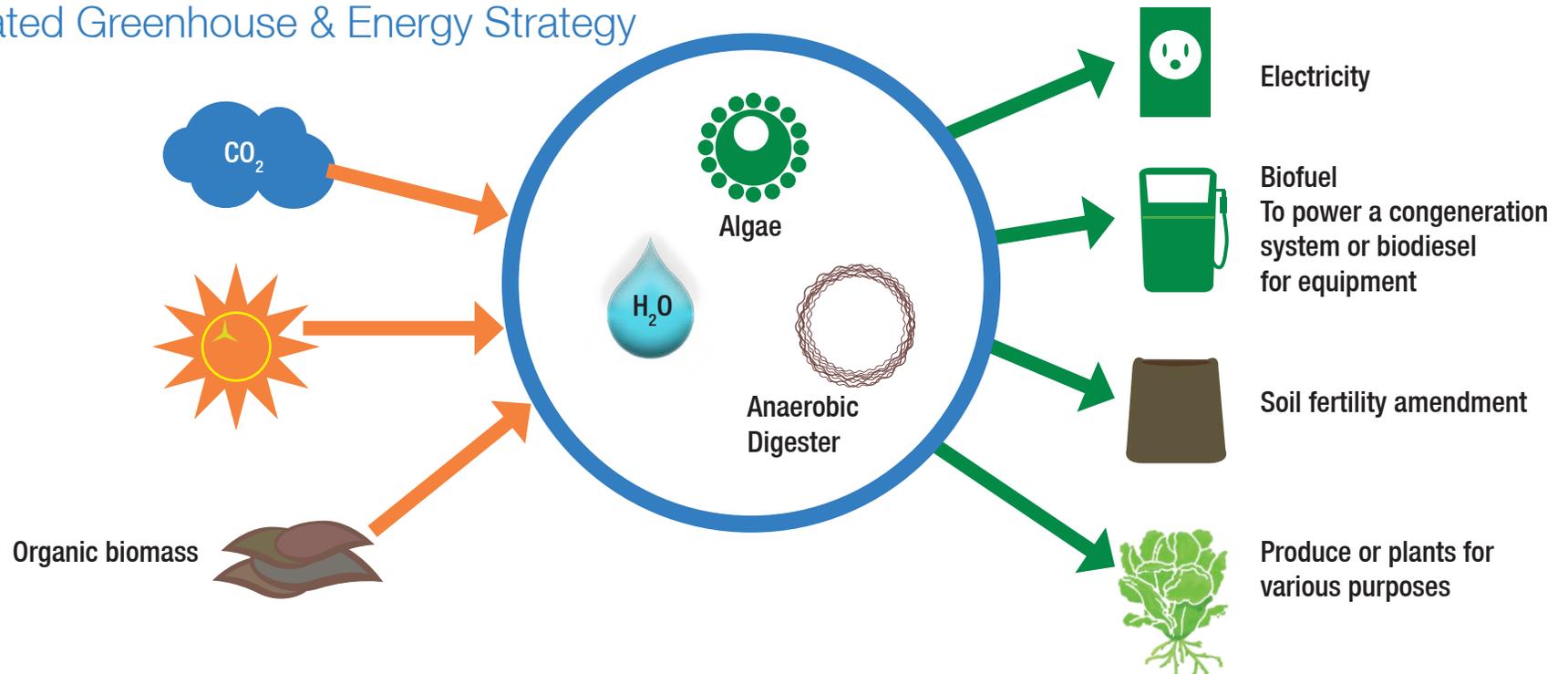
How Aquaponics Works



Cogeneration Achieves Much



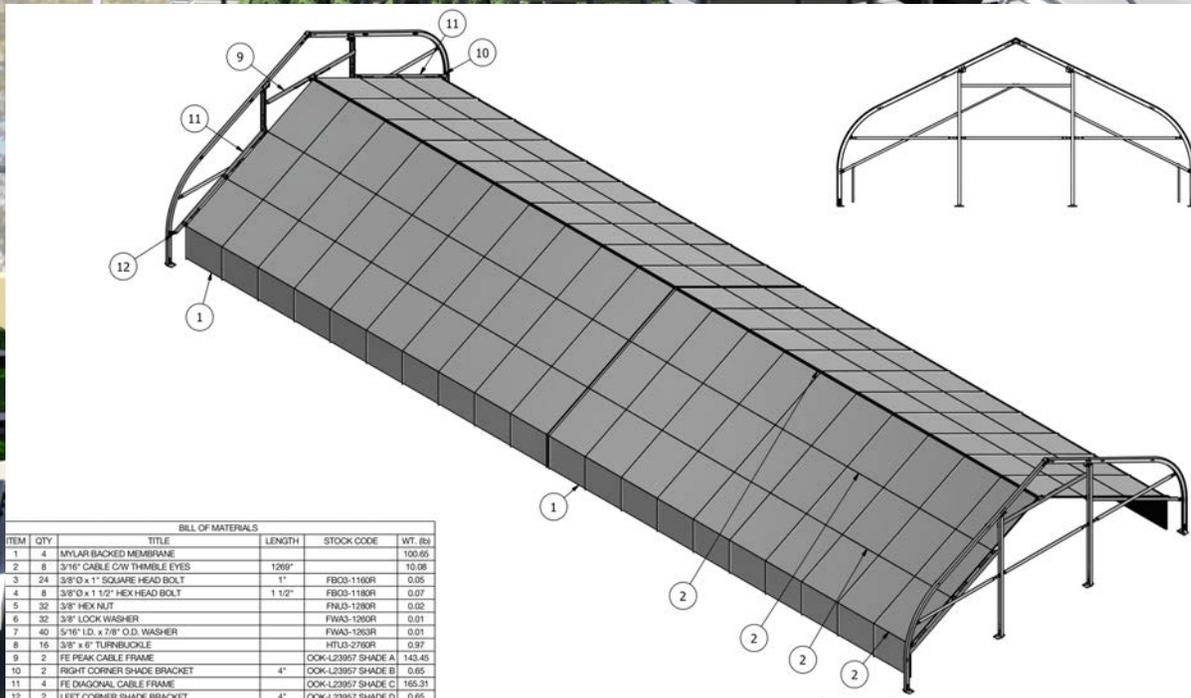
Integrated Greenhouse & Energy Strategy





ARK offers a wide variety of technologies and comprehensive solutions for advancing greenhouse growing with unparalleled productivity, low capital investment and lower operational costs:

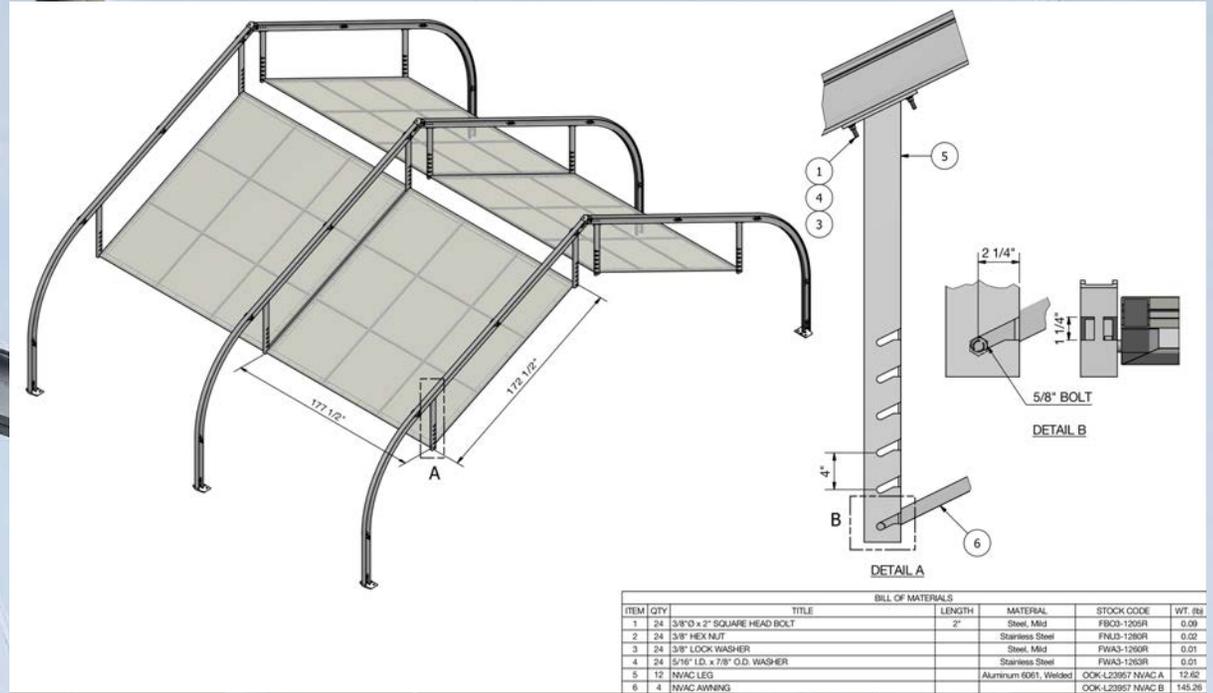
Our reflective Thermal Curtain ensures heat is retained during cooler periods and provides nearly blackout where required.



Our cooling system dramatically lowers energy costs by cooling the entire greenhouse using natural air movement and fogging systems

HOW IT WORKS:

The secondary internal membrane layer acts to create convection within the structure where air migrates from the base of the structure up to the peak where naturally wind driven turbo ventilators remove the warmer air from the structure. The area between the double membrane layer includes multiple fogging nozzles that assist in temperature reduction within the greenhouse.





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