

DyneAquaculture to Build Vertical Hydroponic Greenhouses in Oregon August 2017

DyneAquaculture (Dyne), known for high end fish production, is excited to announce plans to move into the hydroponic space to rapidly expand its portfolio of offerings into the fresh produce industry. A \$30K grant was recently awarded by the USDA Rural Development Department to begin moving this project forward in La Grande, OR.

Given Dyne's roots of being founded in the concern for the security of America's food and energy supplies, protein and fresh produce have always been top of mind for Dyne in helping feed the U.S. and the world. With Inland Sea (a key Dyne project in Harlan, Iowa) having just received a significant anchor investor in Dale Reicks of Reicks View Farms to build a recirculating aquaculture system (RAS) producing high quality Atlantic salmon, fresh produce was a natural next step to grow in an effort to help feed several billion more people by 2050.

After extensive due diligence, Dyne will be going vertical with its first operation in Oregon, utilizing state-of-the-art, proven technology hydroponic greenhouses for raising and harvesting vegetable and herb produce. The chosen technology has been seven years in the making.

This technology will allow Dyne to grow far more produce in the same amount of space by going vertical! With a one-acre footprint, these year-round growing facilities will produce 7,500 pounds of fresh produce weekly, 400,000 pounds annually. These greenhouses require little time to build, generate cash quickly, and employ many processing-oriented workers.



These large-scale, computer controlled, hydroponic greenhouses deliver nutrients to plants through recirculated water instead of soil. As growing conditions are optimized and controlled, they do not require the use of pesticides or herbicides. Additional benefits of hydroponic growing compared to traditional soil based greenhouses include the following: the crop yield is five to ten times greater, the crop cycles are significantly shorter, allow for 24/7/365 accelerated year-round growing conditions, minimal water usage, far superior nutrition, fresher produce, longer shelf life, and efficient labor deployment. These systems have also been demonstrated to be highly efficient and have low operating costs.

In addition, the size of produce industry is a whopping \$63B. Consumers are increasingly demanding produce from local sources for reasons that include better nutrition and quality, and concern for the environment. They want sustainable products that have traceability, are "free from" contaminants, Non GMO, and are fresh, which translates into great tasting. The products that will be grown by Dyne via vertical hydroponic technology will deliver on all of these consumers' expectations.

Dyne is looking forward to being a producer of high quality, fresh, clean produce and fish for consumers to delight in.

