˙Rift Labs

Pioneering lighting for resource-efficient food production

Rift Labs was established in 2010. Based on its' patented LED software and intelligent lighting control applications, the company has developed lighting and sensor-based solutions for Controlled Environment Agriculture (CEA). This technology optimizes plant growth by providing the exact light amounts necessary for each growth stage, reducing energy expenses and enhancing yields.

riftlabs.com

Net impact value creation in 2023 (USD) [1]

$ 0.22 M

Impact potential

5/5 – Impact-generating

The problem

Agriculture is one of the leading causes of deforestation, biodiversity loss, and freshwater consumption. Simultaneously, the world needs a dramatic increase in food production to eliminate hunger and keep up with population growth. Increased food production therefore needs to be fueled by increased yield, not land expansion.

The change we need

CEA offers an alternative to traditional farming that can reduce water consumption, deforestation, and biodiversity loss significantly while increasing efficiency and yields in crop production. LED lighting is the most efficient lighting system for food growth in CEA.

[1] Using data from the Upright Project and applying Norselab's custom value mapped to the SDGs. Read more about this metric on page 21. Norselab owns 6% of the company and has therefore contributed to 6% of this impact value creation.

Rift Labs' impact metrics

Rift Labs' impact contribution

 Zero hunger

New – invested in 2023

Tons of food per KwH provided.

Target 10.2

Rift Labs' technology increases agricultural yield by enabling precision farming solutions, which reduces the need for new land for agricultural practices, and prevents contamination from pesticides in nature.

 Life on land

New – invested in 2023

Tons of food per square meter.

Target 15.5

Rift Labs' LED-light solution enable controlled environmental agriculture (CEA) that requires less land than traditional agriculture, thereby minimizing deforestation and biodiversity loss. Through their enabling of CEA, Rift Labs also contributes to a more climate-resilient food system.