



Fifth Season Indoor Agriculture Microgrid

In 2020, Scale worked with Fifth Season, a prominent leading edge vertical farming company, to outfit an impressive energy solution for their state-of-the-art facility in Pittsburg, PA.

Fifth Season has created a different kind of world for our food. Their plants grow up in a happy home, made so by robotics and cutting-edge AI to deliver less waste and more freshness.

The entire Fifth Season team is driven to do right by our planet. By reducing land and water use, they are sowing the seeds toward a more sustainable food system. The indoor farm uses 97% less land and 95% less water than traditional farming.

In order to create an optimal indoor farming environment, Fifth Season needs to ensure cheap, clean and reliable power. Scale's system allows them to have resiliency and reliability while also reducing their overall emissions and saving them money. Best of all—they aren't responsible for it. Scale owns and operates the system.

PROJECTED TO REDUCE THEIR
CO2 EQUIVALENTS BY OVER

470,421 LBS / YR

≈\$2.5M

IN PURCHASE
CAPITAL ALLEVIATED

\$0

UP-FRONT CAPITAL
FROM FIFTH SEASON

BIG PICTURE IMPACT AT FIFTH SEASON

The modular microgrid that Scale designed is a game-changing behind-the-meter system that utilizes a combination of photovoltaic solar panels, lithium ion batteries, and a natural gas generator outfitted with advanced emissions control technology.

In addition to reducing the facility's GHG emissions footprint by the equivalent of 39 passenger vehicles driven in a year, the system operates in various ancillary services to the electric grid to help save them money, and will enable mission critical operations to continue during utility outages.

**FIFTH SEASONS'S
MICROGRID
CAPACITY**



160 kW
Solar PV



1,200 kW
Prime Power
Genset



200 kW
Battery Storage