



Better food, Better planet.

The future of food and agriculture has never been more exciting and promising.

Companies need to address the world's food supply chain in a sustainable way, meeting today's needs and tomorrow's challenges of feeding a growing global populace. Once relegated to a science fiction vision of "food skyscrapers," indoor farming is quickly becoming reality amid mounting concerns about climate change, an expanding global population and limited land and water resources.

Black & Veatch's NextGen Ag team is the ideal partner to de-risk and bridge the gap between science, research and development, engineering and manufacturing. Our expertise rests in optimizing existing facilities, designing and building new ones and partnering to bring emerging and new-to-world food and agricultural technologies to life. Black & Veatch can help you take your indoor vertical farming to a new level of precision and productivity while maintaining a minimal environmental impact.

We are equipped to handle the entire process from start to finish or wherever you are in your journey. From process and development to engineering through the design and construction of a pilot scale or commercial manufacturing facility. We focus on de-risking these business operations improvement efforts, so you can stay focused on what you do best.



BLACK & VEATCH



Services Offered

Black & Veatch NextGen Ag is your trusted partner, from the initial planning stages through start-up and beyond. We have the flexibility to meet your needs through a range of service offerings.

Project Financing

- Financial modeling and project development
- Independent engineering evaluations
- Turnkey asset development

Planning

- Project definition and master planning
- Feasibility studies
- Site selection & condition assessment

Sustainability Solutions

- Sustainability assessments and roadmap including energy, water, material use and operational efficiency analysis
- Leadership in Energy and Environmental Design (LEED) certification

Safety Solutions

- Plant and Employee safety consulting
- Food safety and quality control consulting
- Track and trace

Design and Engineering

- Complete facility design, engineering and municipality integration
- First of a Kind Product (FOAK) Scale-up & innovative technology implementation
- Project, program, and risk management

Packaging Systems

- Material handling systems
- Integrated packaging systems
- Primary and secondary packaging

Process Design

- Process design and engineering with emphasis on hygienic/sanitary design
- Pilot plant scale-up

Controls and Automation

- Automation Systems Programming and Integration (PLC and HMI/SCADA Systems)
- Data Collection & Downtime/OEE Analysis; Enterprise Systems Integration (MES/ERP)
- Network design, security, and remote access

Construction

- Sub-contractor procurement
- Construction and safety management
- Project controls

Startup and Commissioning

- Vertical startup
- Commissioning, Qualification, and Verification (CQV)
- Operator and maintenance training

NextGenAg

For more information contact us at bv.com/nextgenag.