



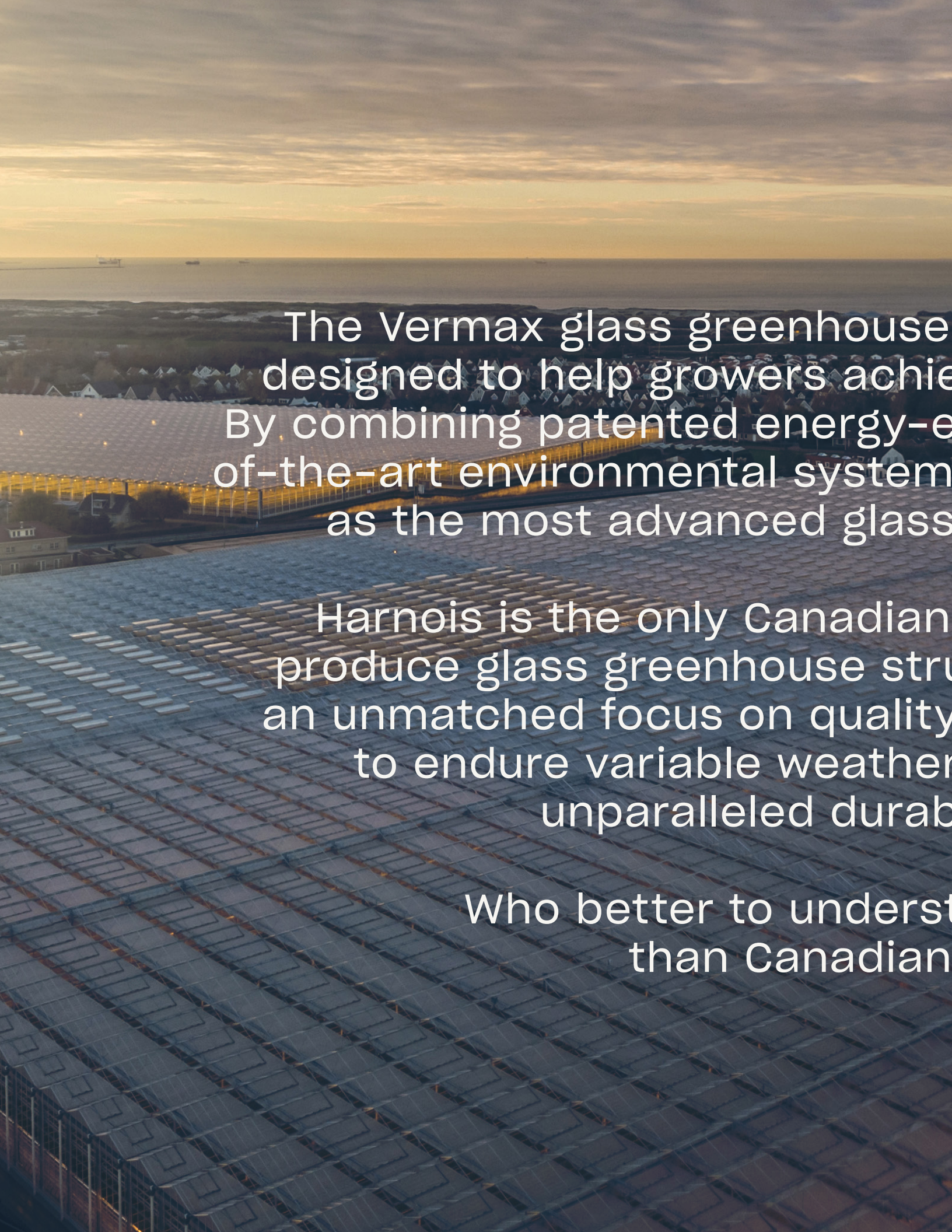
VERMAX
BY HARNOIS

ENGINEERED AND MANUFACTURED IN CANADA

NET-ZERO COMMERCIAL GLASS GREENHOUSE

A STEP TOWARDS CARBON-NEUTRAL PRODUCTION

[HARNOISGREENHOUSES.COM](https://harnoisgreenhouses.com)

An aerial photograph of a vast glass greenhouse complex, likely a Vermax facility, stretching across a landscape. The greenhouse is composed of numerous long, parallel rows of glass panels. The scene is captured during sunset or sunrise, with a warm, golden light illuminating the sky and the edges of the glass. In the background, a body of water is visible, with a few small boats or structures on the horizon. The overall atmosphere is serene and industrial.

The Vermax glass greenhouse
designed to help growers achieve
By combining patented energy-e
of-the-art environmental system
as the most advanced glass

Harnois is the only Canadian
produce glass greenhouse stru
an unmatched focus on quality
to endure variable weather
unparalleled durab

Who better to underst
than Canadian

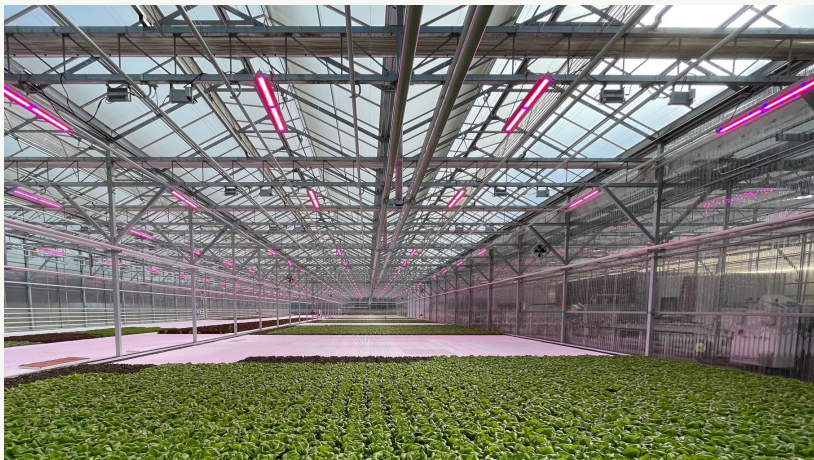
is a ground-breaking solution
to achieve carbon-neutral production.
By combining efficient technologies with state-
of-the-art processes, Verman sets the new standard
for a glass greenhouse on the market.

Verman is a manufacturer to design and
construct structures entirely in-house, with
focus on quality and performance. Engineered
for various conditions, Verman offers
flexibility and reliability.

How do you stand these challenges
for yourselves?

A TRUE TURNKEY SOLUTION FROM DESIGN TO COMPLETION.

At Harnois, we take a flexible, personalized approach to every project. Whether you need a research greenhouse or a large-scale agro-industrial facility, we customize solutions to your unique needs. As advisors and technology integrators, we work closely to ensure your greenhouse operates at peak efficiency, integrating advanced control systems with AI-driven micro-climate management for maximum predictability.



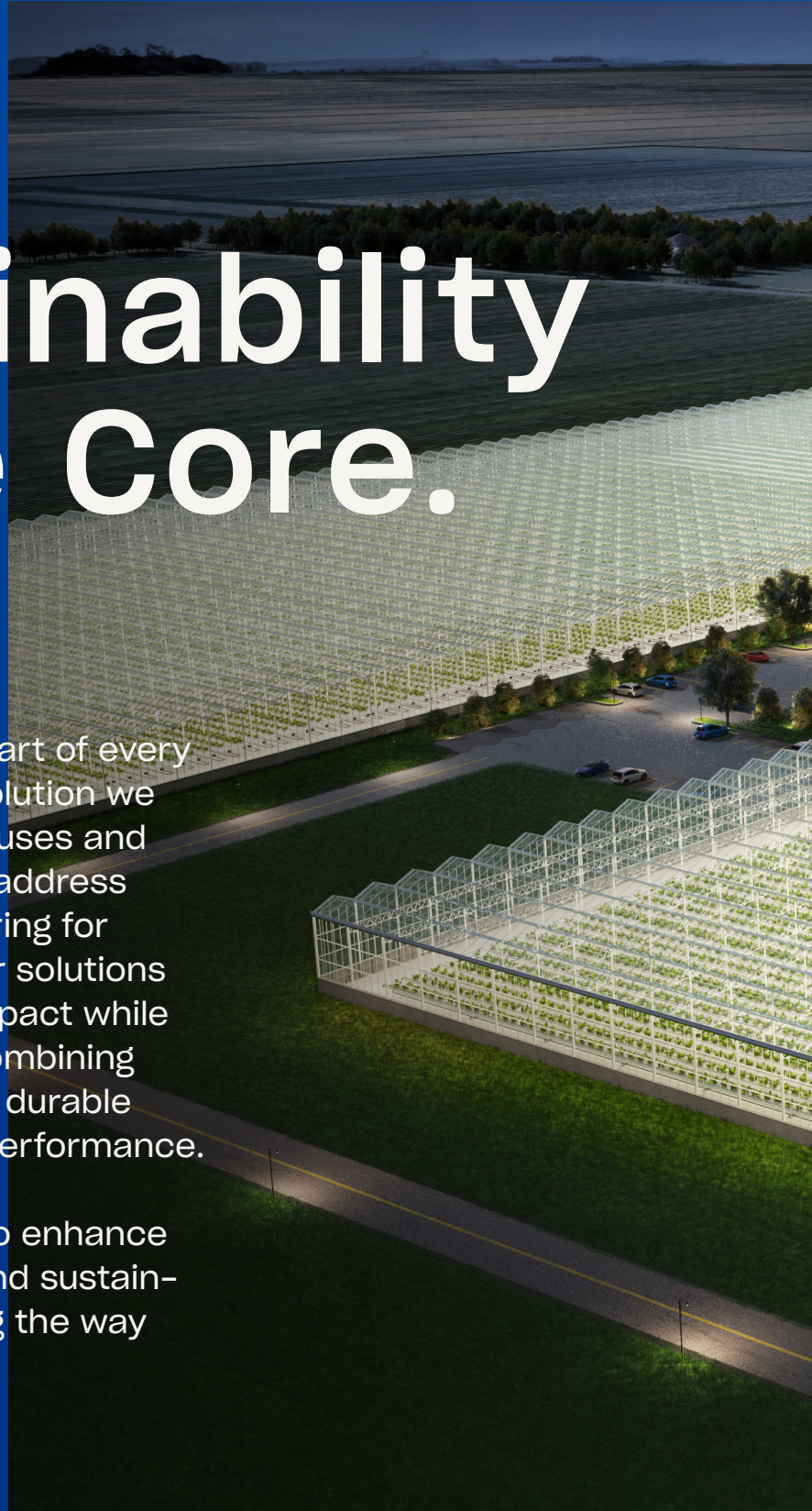
VERMAX GLASS GREENHOUSE



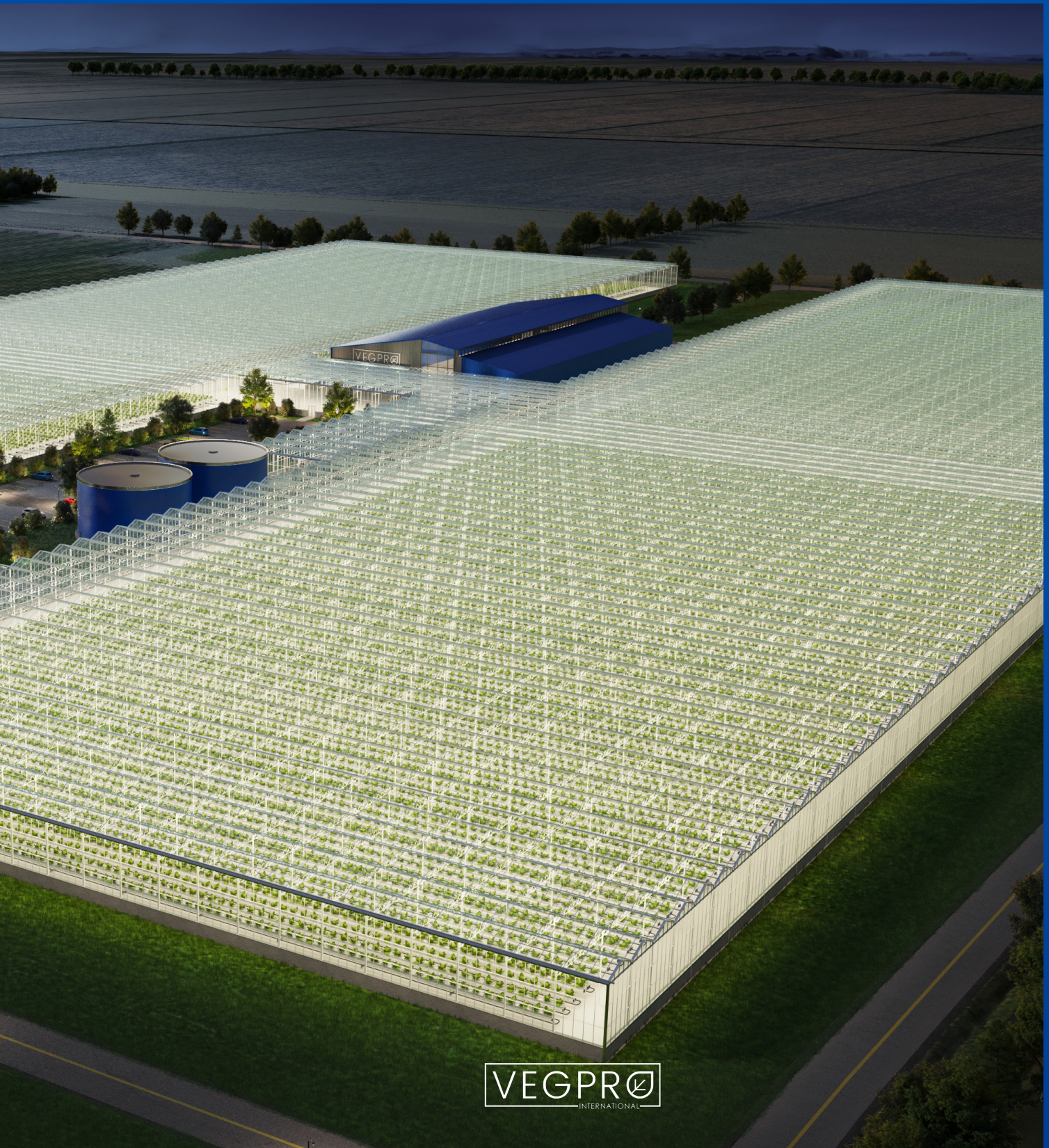
Sustainability at the Core.

Sustainability lies at the heart of every commercial greenhouse solution we create. We design greenhouses and develop technologies that address today's needs while preparing for tomorrow's challenges. Our solutions minimize environmental impact while maximizing productivity, combining innovative technology with durable materials for long-lasting performance.

At Harnois, our mission is to enhance predictability, efficiency, and sustainability in agriculture, paving the way for a more resilient future.



VERMAX GLASS GREENHOUSE



SIZE: 13 ACRES / CULTURE: LETTUCE / CAPACITY: 3.5 MILLION KILOS PER YEAR / INVESTMENT: \$135 MILLION

AIMING FOR NEARLY ZERO ENERGY BUILDING (NZEB)

The Vermax is designed with Nearly Zero Energy Building (NZEB) principles, combining passive design strategies and ground-breaking energy technologies to reduce consumption and maximize efficiency.



SOLAR & GEOTHERMAL SYSTEMS

FUEL CELL & ENERGY
STORAGE SYSTEMS

HEAT STORAGE SYSTEM

GREENHOUSE GEOMETRY
WITH SMART DIFFUSE GLASS

SEMI-CLOSED CONCEPT

Its advanced energy storage system can achieve a peak coefficient of performance (COP) of up to 7.5 due to its plug-and-play designs that connect to thermal recovery projects. This allows for efficient thermal recovery, which boosts energy efficiency and cost savings.

70% GHG REDUCTION

7.5 COEFFICIENT OF PERFORMANCE

WATER MANAGEMENT

A revolutionary circular water treatment system. This ensures zero wastewater and eliminates the need for additional water intake after the initial launch—an essential step toward sustainable agriculture.



CIRCULAR CO² SUPPLY

From this air to flourishing production, Vermax recycles captured CO₂ on-site from ambient air. This technology leaves the grower with a clean, concentrated stream of CO₂ and helps avoid new emissions.



TURNKEY PROJECTS

Complete design, engineering, and manufacturing
state-of-the-art growing technologies and equipment.



INSTITUTIONAL

FRUITS & VEGGIES

VERMAX GLASS GREENHOUSE



FLOWERS



BIOTECHNOLOGIES



VERMAX
BY HARNOIS



SINCE
1 9 8 5



WE HAVE BEEN DESIGNING, ENGINEERING
AND MANUFACTURING GREENHOUSES
FOR THE NORTH AMERICAN CLIMATE.

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