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## Executive Summary

Judd Acres is a family-owned and operated farm that utilizes the most advanced controlled indoor vertical farming technology to grow leafy greens (Lettuces, Fine Herbs, and Microgreens). The company is environmentally conscious and aims to grow fresh, locally sourced produce with a low carbon footprint.

At Judd Acres, our commitment is to tackle a problem that impacts the entire food supply chain: long-distance food dependence, farmer unpredictability, and chemically induced produce resulting from outdated conventional growing practices. Our cutting-edge system utilizes state-of-the-art controlled indoor vertical farming technology, ensuring optimal growing conditions all year round. We offer consistent locally sourced leafy greens year-round. Severe water shortages and crop loss due to contamination are becoming more common due to global climate change. We plan to build 20 facilities over the next 5 years in North America with potential expansion into the Caribbean and Europe.

### **Humanitarian Advantages**

Judd Acres provides numerous advantages for humanitarian efforts in the face of a growing population and scarce resources. Indoor vertical farms provide sustainable solutions for addressing food security challenges in urban settings. Our farms are essential for enhancing food security, education, awareness, and health in communities. Through our combined use of solar energy, wind turbines, and geothermal, we are making a significant contribution to reducing our environmental footprint. Furthermore, we support local food security strategies and have long-term visions for sustainability. Establishing innovative Judd Acres farms to address environmental challenges and produce organic fruits and vegetables year-round.

### **Environmental Benefits of Indoor Vertical Farming**

Indoor vertical farming offers several environmental benefits compared to traditional agriculture. Firstly, due to their independence from climatic conditions and lower demand for water, vertical farms can offer consistent food production regardless of their location, resulting in less strain on natural resources. The use of renewable sources of energy reduces reliance on non-renewable energy sources, contributing to a lower carbon footprint compared to traditional agricultural practices. Additionally, the controlled indoor environment of vertical farms minimizes the need for fungicides, pesticides, and herbicides, thus reducing chemical runoff and potential soil contamination associated with conventional farming methods. These factors collectively highlight how indoor vertical farming presents a sustainable and environmentally friendly alternative to traditional agriculture.

## **How can Judd Acres help address food security in urban areas?**

Indoor vertical farming offers a sustainable solution to address food security in urban areas by enabling the cultivation of fresh produce in controlled environments. Rapid urbanization has led to the loss of agricultural land, contributing to food insecurity. Vertical farms can mitigate this by utilizing space-efficient structures to grow fruits and vegetables indoors, ensuring a local and reliable supply of fresh produce. Additionally, urban agriculture has gained popularity due to its potential to provide nutritionally dense foods, especially in low-income communities where access is limited. Furthermore, vertical farms offer opportunities for community engagement and education about food production, addressing the disconnect between urban residents and farming practices. By integrating these factors, indoor vertical farms play a crucial role in enhancing food security and promoting sustainable agriculture in urban settings.

### **Job Creation**

Not only will Judd Acres create a substantial amount of employment with its facilities built throughout North America, but we will proudly create a healthy environment for the well-being of our staff. By building gyms with on-staff trainers, quiet areas, and adaptive lighting we will create a more positive environment for employees to be eager to come and be more productive.

Our facilities serve as major hubs for job creation, offering a wide range of employment opportunities for individuals across different skill levels. From construction workers and engineers to administrative staff and maintenance personnel, these projects require a diverse workforce to bring them to fruition. As a result, local communities experience a surge in employment rates, reducing unemployment and boosting economic stability. Moreover, large facilities often incorporate skills development and training programs to upskill workers and enhance their employability. Our project not only creates immediate job opportunities but also paves the way for long-term career growth and advancement.

### **A Viable Solution**

Judd Acres represents a fundamental shift in sustainable agriculture, offering a viable solution to food security, protecting the environment, and resource scarcity. By harnessing technology, promoting sustainability, and fostering community engagement, these projects pave the way for a more resilient and self-sufficient future. As we look towards a world with growing challenges in food production and distribution, Judd Acres stands out as a beacon of innovation and hope for a brighter, greener tomorrow.

*Through environmentally conscious agricultural practices, grow simple produce that inspires healthy lifestyles.*