



GreenState
Smart Modular & Vertical Farming

GreenState Digital Solution

Full Cycle Cloud Solution



Total Customers
125,250
+11.35%

❄️ Cooling

23°C

🔄 Operating Mode

⊖ Temp ⊕

GreenState INVESTOR RELATIONS APPLICATION

Dashboard

- Rooms
- Harvesters
- Settings

Overview [View more](#)

- Power Consumption: 3,78 kW
- Water consumption: 2 l/h (+1.78%)
- Nutrient intake: 32g
- CO2 Concentration: 350 ppm
- Growing process: 65% (2 days remaining)

Harvesters [View all](#)

Name	Room	Status	Action
Men Rutz	Room 1 to 8	Active	Assign
Lian Ermel	Room 9 to 17	Away	Assign
Arianita Rabl	Room 18 to 23	Active	Assign
Levi Ritter	Room 24 to 27	Active	Assign

Rooms

Room	Growing process	Progress
Room 1	Growing process	91%
Room 2	Growing process	84%
Room 3	Growing process	60%
Room 4	Growing process	25%

Room Temperature: 20 C°

GreenState AG | Switzerland | 20.09.2023.



Table of Content



GreenState
Smart Modular & Vertical Farming

- 1 From farm to Cloud and Beyond (Power of joined AI)
- 2 Power of data ownership (IIoT, Big Data, AI)
- 3 Cloud SCADA System (Web & Mobile)
- 4 ERP, Task Manager & CRM Software System
- 5 Full Cycle Dashboard Solution
- 6 Mobile App
- 7 Sustainability transparency
- 8 Contact

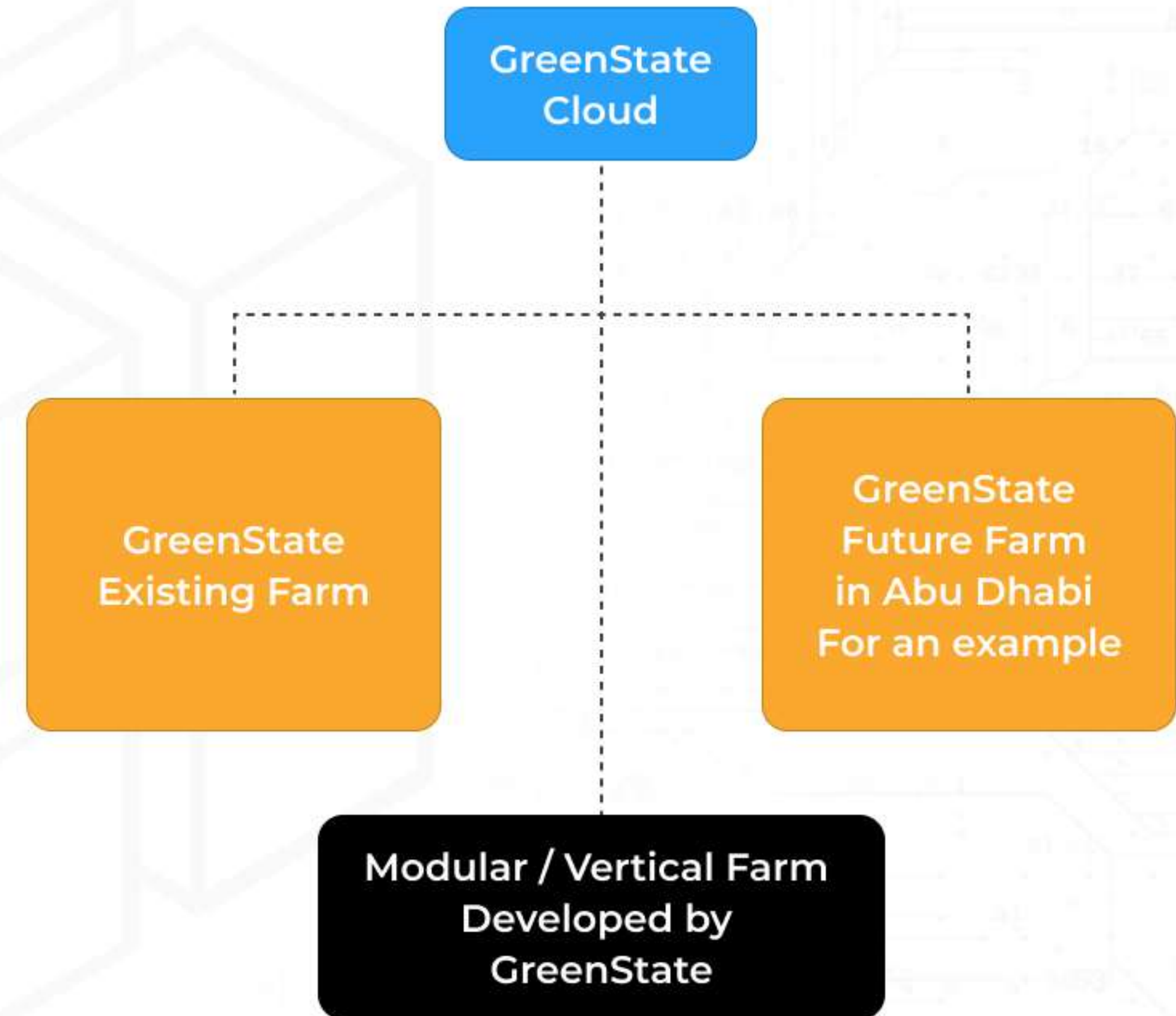


1 From farm to Cloud and Beyond (Power of joined AI)

GreenState AG has developed a solution that enables the collection and uploading of data from farming activities and industrial equipment to the cloud, following the principle of sharing. The data solutions are based on a **"tenant" system**, where each operating farm has its own cloud space for storing and processing data.

The system can accommodate up to **1'000 farms**, allowing them to exchange data with one another and implement the findings of other farms. This system is readily applicable.

Future developments include the creation of digital recipes supported by industrial equipment, as well as the digitalization and transfer of knowledge from agronomists to the cloud system. Additionally, the implementation of **artificial intelligence** is a goal. Agronomists will have access to a specialized application where they can contribute valuable insights to the cloud database and support the system by creating **digital recipes** based on their expertise.



2 Power of data ownership (IIoT, Big Data, AI)

In today's agriculture, the fusion of **IIoT**, **Big Data**, and **AI** is transforming vertical farming. Our advanced software integrates real-time IIoT data for crucial insights. Big Data analytics refine this information, optimizing resource allocation and growing conditions. AI adds predictive capabilities, ensuring consistent yields.

The platform also includes **ERP** and **CRM** functionalities, streamlining operations and enhancing customer interactions. With data ownership at the core, vertical farms gain control, adapting and thriving in a changing landscape, marking a pivotal moment in sustainable agriculture.

Furthermore, our software solution prioritizes scalability, allowing farms of all sizes to leverage its benefits and adapt as they grow. Its **cloud-based architecture** ensures seamless updates and integration with future technologies, safeguarding investments in the long term.



3 Cloud SCADA System (Web & Mobile)

One "on-premise" cloud solution to manage all farming, management, operations, team, sales, and ERP activities. The **Cloud SCADA system** is responsible for managing your farm, providing access to all industrial machines, monitoring farming activities, and implementing farming solutions in everyday operations from anywhere in the world.

The custom-made **SCADA system** allows you to monitor and manage all operating vertical farms and use the provided data for future farming operations.

GreenState can easily **implement a software solution** for farm management and control.

The same solution can be scaled to many different vertical farming units planned for future expansion.



Farm Operators

New Tab x +

app.bustanica.com

All Bookmarks

GreenState
INVESTOR RELATIONS APPLICATION

Hello Karlo!
Welcome to your GreenState Dashboard

+ Add new task Search

Overview [View more](#)

- Power Consumption: 3,78 kW (+5.27%)
- Water consumption: 2 l/h (+1.78%)
- Nutrient Intake: 32g
- CO2 Concentration: 350 ppm (+12.54%)
- Growing process: 65% (2 days remaining)

Harvesters

Men Rutz	Room 1	Active	Assign
Lian Ermel	Room 1	Away	Assign
Arianita Rabi	Room 2	Active	Assign
Levi Ritter	Room 2	Active	Assign

Rooms [View all](#)

- Room 1**
Growing process: 91% (Started 12.2.2023)
Room Temperature: 18 C°
- Room 2**
Growing process: 84% (Started 10.3.2023)
Room Temperature: 19 C°
- Room 3**
Growing process: 60% (Started 24.5.2023)
Room Temperature: 21 C°
- Room 4**
Growing process: 25% (Started 25.5.2023)
Room Temperature: 20 C°

Project to TV

4 ERP, Task Manager & CRM Software System

Brand identification is important not only for external activities, but also for internal stakeholders, shareholders, and employees.


GreenState AG is offering a custom-made solution where an **ERP, Task Manager,** and **CRM Software System** will be integrated into one cloud solution.

With this solution, employees will have visibility into orderings, production status, deliveries, manpower, and inventory based on the premise solution. Additionally, executives and project managers can manage employees by assigning them daily and weekly tasks through the **mobile application**, and track the progress of completed tasks and employee performance.

Furthermore, the **CRM system** will assist your business development and marketing employees in managing leads, potential clients, negotiations, signed contracts, offers, and other important tasks related to sales, business development, marketing, commerce, and e-commerce.



Marketing / Sales



GreenState
INVESTOR RELATIONS APPLICATION

Hello Lorenzo!
Welcome to your GreenState Dashboard


[+ New campaign](#)

Overview

Daily impressions
5,250 +5.27%

Money spent
15,780.00 \$ +5.27%

Chart name Spend Profits



Campaigns [View all](#)

- Platform Google**
Vertical Farming: Fresh, Local, Sustainable
Duration: Sep 7 - Sep 31
- Platform Meta**
Redefining Agriculture: Vertical Farms Leadin...
Duration: Aug 7 - Sep 25
- Platform Meta**
From Vertical Farms to Your Kitchen
Duration: Aug 1 - Aug 12

New Campaign

September 2022

MOR	TUE	WED	THU	FRI	SAT	SUN
01	02	03	04	05	06	07
08	09	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	01	02	03	04

From Sep 11 **To** Sep 26

Campaign Name
From Vertical Farms to Your Kitchen

Platform Google **Budget** 5,780.00 \$

[Create campaign +](#)

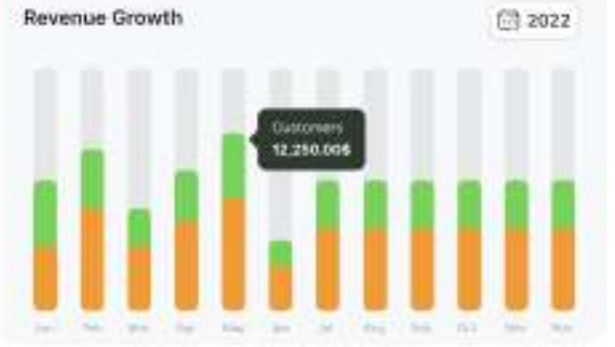
han!
GreenState Dashboard

[+ Compose mail](#)


Total Revenue
517,389.00\$ +11.55%

Products Sold
95,389.00\$ +11.55%

Revenue Growth 2022



Top Countries



Daily schedule

- Call with Iqbal Demian
+45 123 21 321 09:55
- Daily Meeting
Maximizing Opportunities for Q4 Success 12:00
- Introduction Call with Shihab
+45 123 21 321 12:45

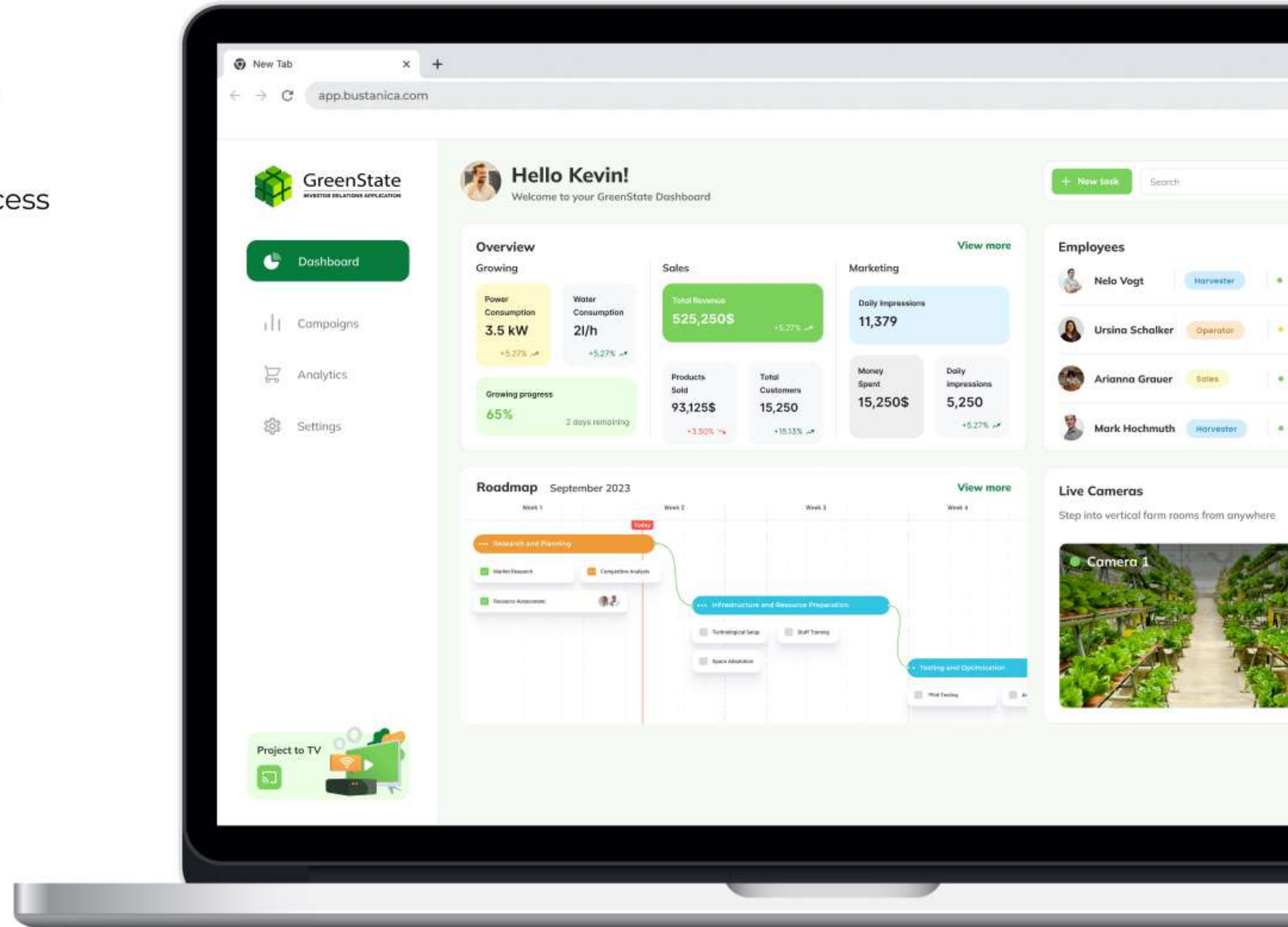
Contact List

- Liv Ochsner** +41 434099142 livochsner@gmail.com [Email](#)
- Elijan Lauper** +41 278124572 elijanlauper@gmail.com [Email](#)
- Tragott Eggen** +41 716042539 tragotteggen@gmail.com [Email](#)

5 Full Cycle Dashboard Solution

This solution is designed for **C-level executives** and management of the company. It provides a single dashboard to manage all information related to production, systems, infrastructure, employees, completed tasks, future tasks, and surveillance. Managing Director, Chief Operating Officer and other key executive team members will have access to this unified solution. It will display live data related to all relevant key information.

Additionally, internal communication will be streamlined through a **single communication tool**. Executive team members can easily contact employees by sending simple messages, which will appear as **"push notifications"** on their smartphones.



CEO Dashboard



The screenshot shows a web browser with the URL `app.bustanica.com`. The dashboard is titled "GreenState INVESTOR RELATIONS APPLICATION" and is personalized for "Kevin".

Navigation Menu:

- Dashboard
- Campaigns
- Analytics
- Settings

Overview Section:

- Growing:** Power Consumption 3.5 kW (+5.27%), Water Consumption 2l/h (+5.27%), Growing progress 65% (2 days remaining).
- Sales:** Total Revenue 525,250\$ (+5.27%), Products Sold 93,125\$ (+3.50%), Total Customers 15,250 (+15.13%).
- Marketing:** Daily Impressions 11,379, Money Spent 15,250\$, Daily impressions 5,250 (+5.27%).

Employees Section:

Name	Role	Status	Action
Nelo Vogt	Harvester	Active	Assign
Ursina Schalker	Operator	Away	Assign
Arianna Grauer	Sales	Active	Assign
Mark Hochmuth	Harvester	Active	Assign

Roadmap Section (September 2023):

- Week 1:** Research and Planning (Market Research, Competitive Analysis, Resource Assessment).
- Week 2:** Infrastructure and Resource Preparation (Technological Setup, Staff Training, Space Adaptation).
- Week 3:** Testing and Optimization (Pilot Testing).

Live Cameras Section:

- Camera 1: View of a vertical farm room.
- Camera 2: Close-up of green plants.

Project to TV: A small promotional graphic for a TV project.

6 Mobile App

As we harness the benefits of vertical farming, this innovative tool empowers every team member, from harvester to manager.

With the mobile app, daily tasks are effortlessly accessible, enabling harvesters to tackle their assignments with precision. Furthermore, it provides **room-specific information**, ensuring that everyone knows precisely where they need to be, thus optimizing workflow.

Real-time updates keep our team agile and responsive, fostering a collaborative environment where we all work seamlessly towards a common goal.

This mobile app is not just a tool, it's the heart of our efficient vertical farm operations ushering in a brighter and more sustainable future for farming.



Task Creation

The image shows a web browser window displaying the GreenState dashboard. A modal window titled "Create new task" is open in the center. The modal contains the following fields and options:

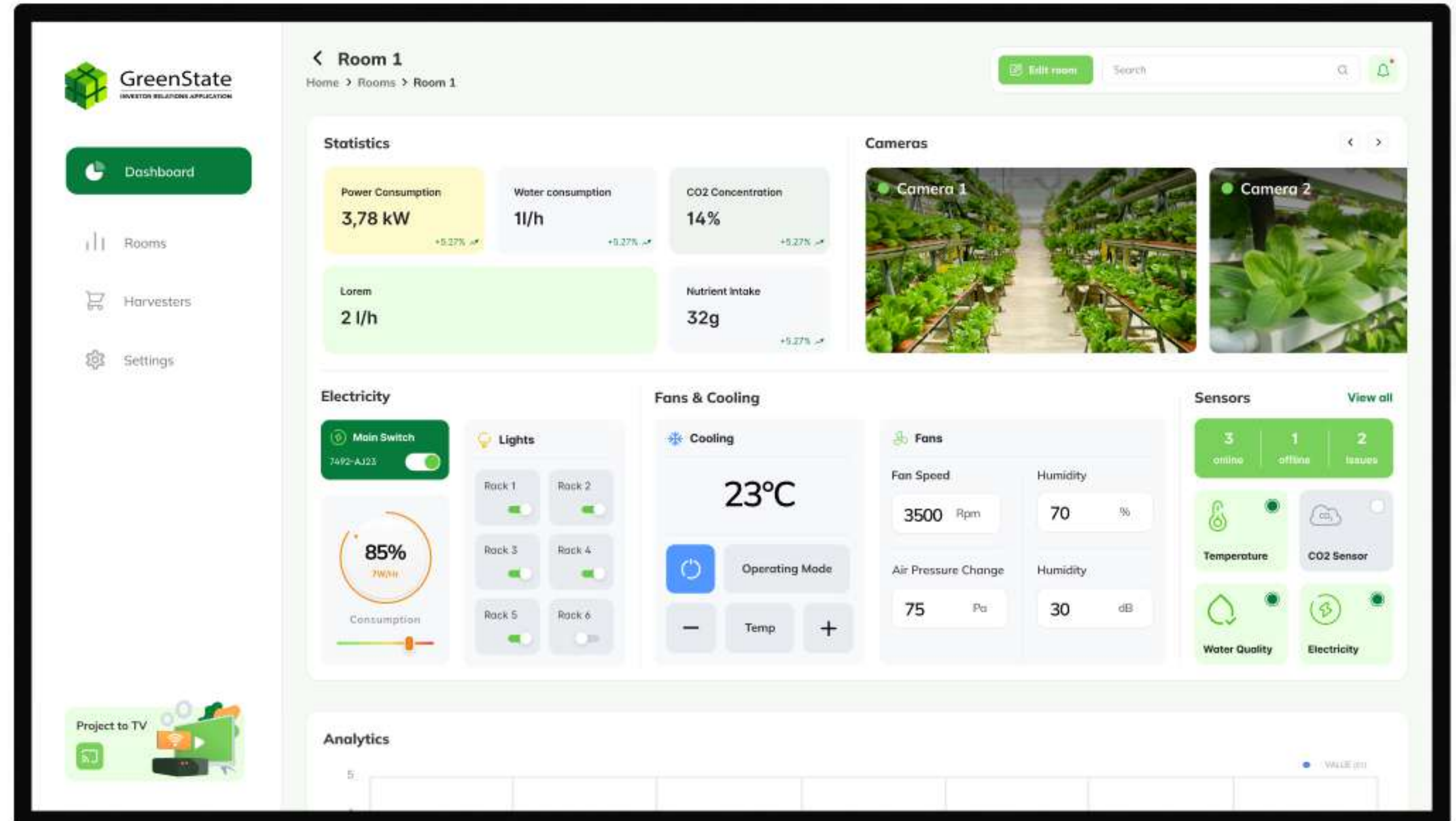
- Task Headline:** A text input field containing "Check Lighting System".
- Role:** A dropdown menu with "Harvesters" selected.
- Task Description:** A large text area with the placeholder text "What is the task?".
- Assign task to:** A dropdown menu with "Lian Ermel" selected.
- Deadline:** A date picker showing "23/11/2023".

At the bottom of the modal is a green button labeled "Create task +".

The background dashboard includes a sidebar with navigation options: Dashboard, Rooms, Harvesters, and Settings. The main content area shows a "Hello Karlo!" greeting, a "Welcome to your GreenState Dashboard" message, and a list of rooms with status indicators (Active, Away) and "Assign" buttons. A "Project to TV" icon is visible in the bottom left corner of the dashboard.

7 Sustainability transparency

No more **"green washing"** and full transparency with electricity usage. By using **GreenState** hardware and software equipment, you will be able to live measure electricity spending, upload data to the cloud, make predictions and charts of past and future prognosis, show live data on their website, and compare the amount of electricity coming from sustainable resources versus on-grid resources once a sustainable electricity solution is implemented.



8 Contact

Headquarters:

GreenState AG
Marktgasse 1
8400 Winterthur
Switzerland
+41 (0) 52 208 94 01
info@greenstate.ch
www.greenstate.ch

Production:

GreenState AG
Badstrasse 21c
8212 Neuhausen am Rheinfall
Switzerland
+41 (0) 52 208 94 01
info@greenstate.ch
www.greenstate.ch

