GreenState
Smart Modular & Vertical Farming

GreenState Digital Solution

Full Cycle Cloud Solution

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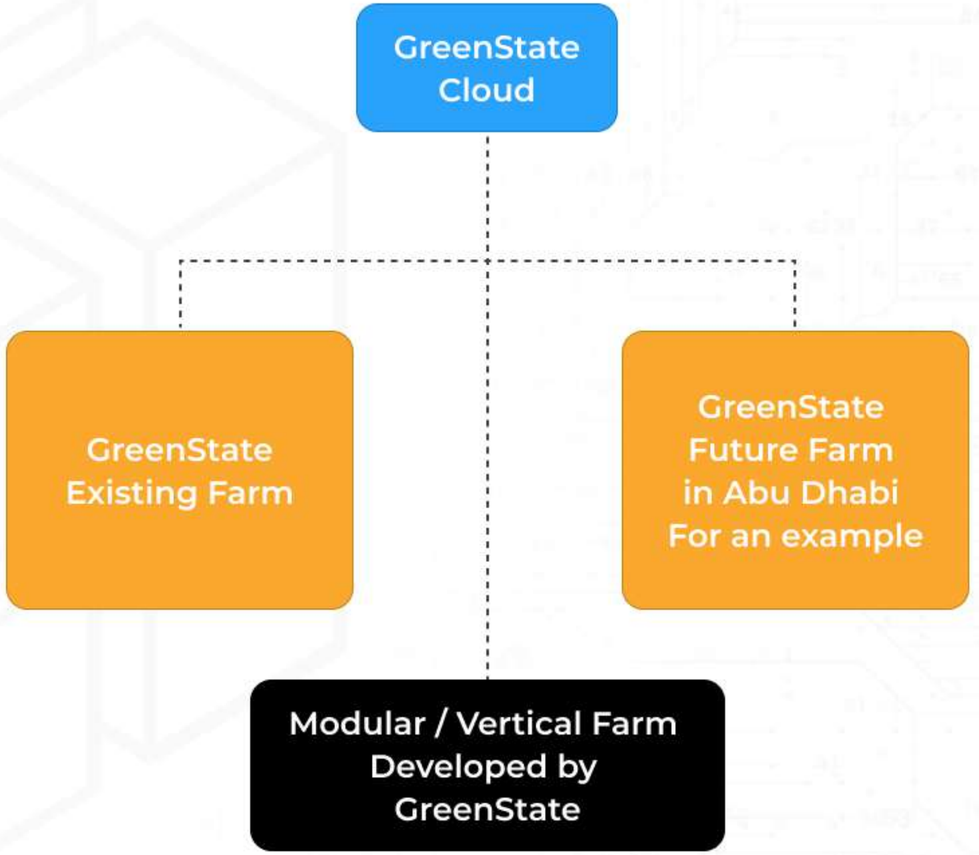
GreenState
Smart Modular & Vertical Farming

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.

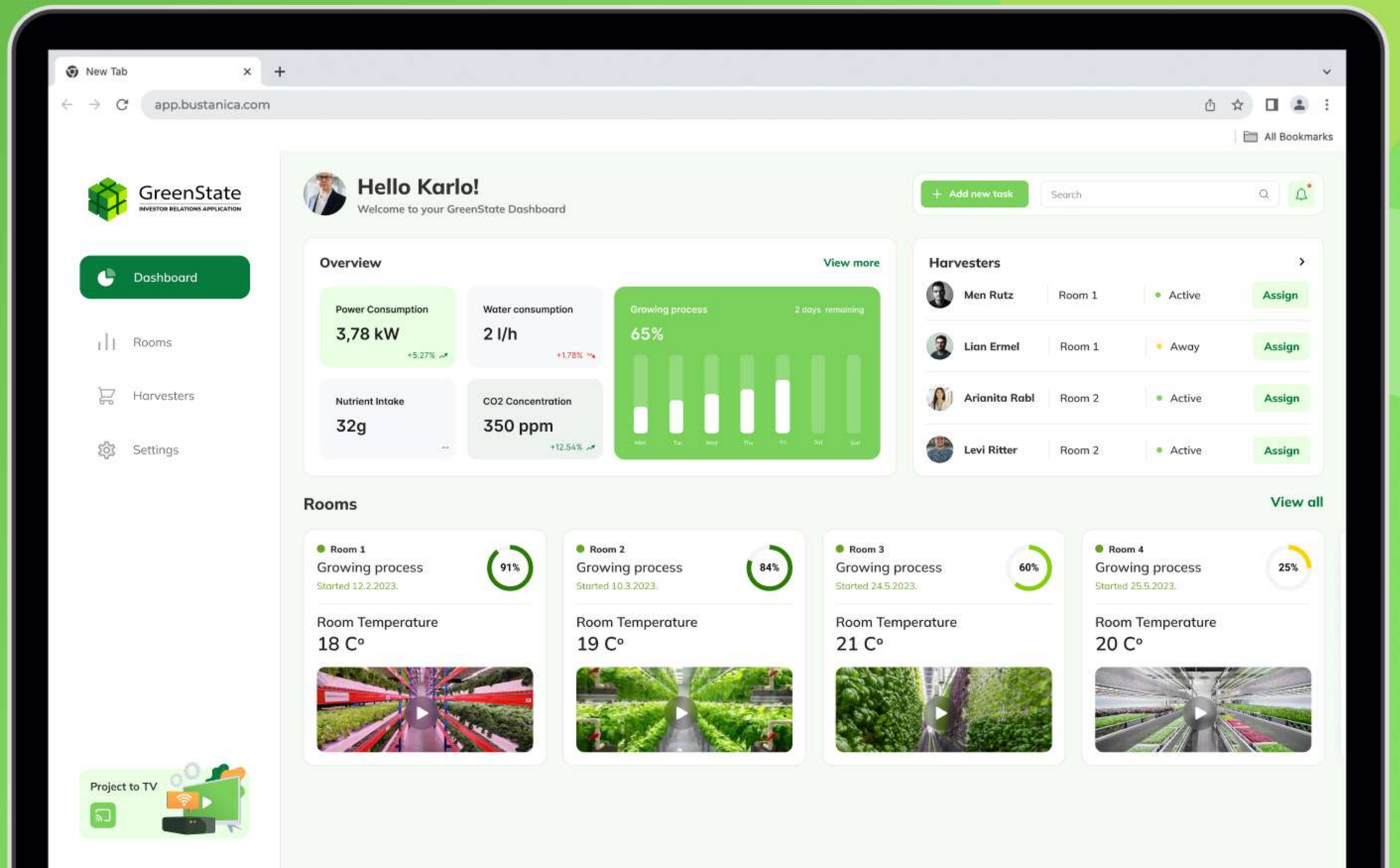
3 Cloud SCADA System (Web & Mobile)

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



4 ERP, Task Manager & CRM Software System

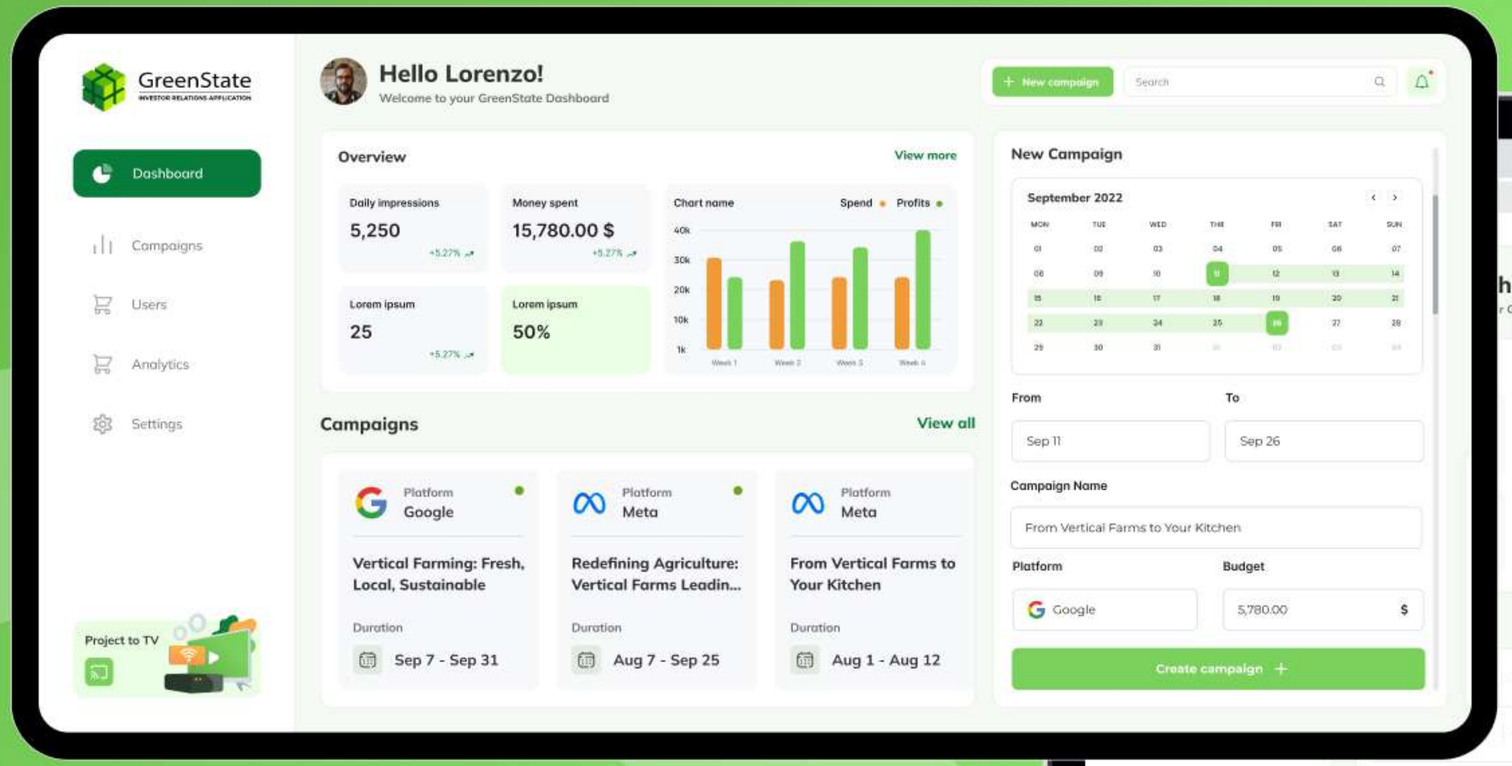
Brand identification is important not only for external activities, but also for internal stakeholders, shareholders, and employees.

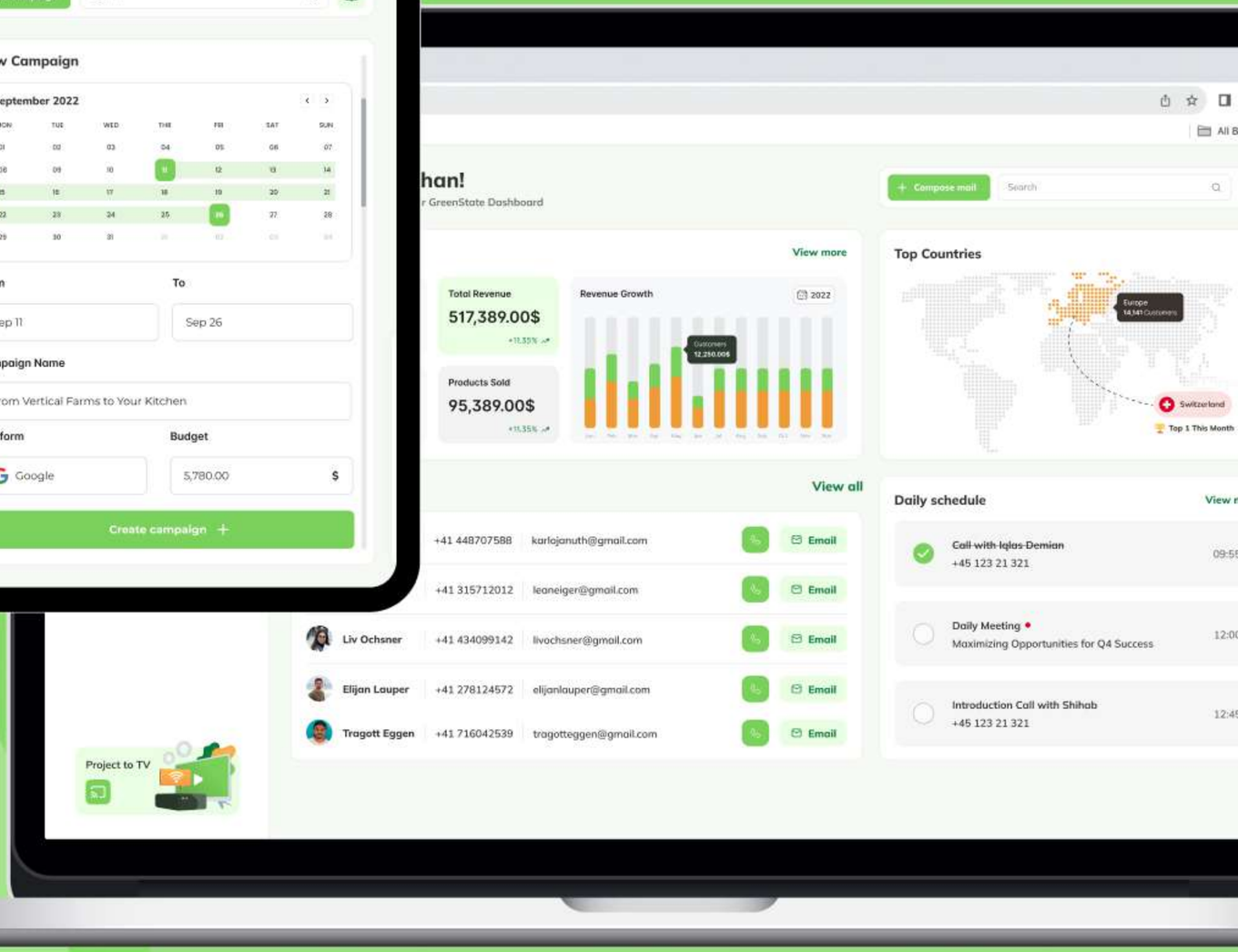
GreenState AG is offering a custom-made solution where an **ERP, Task Manager**, and **CRM Software System** will be integrated into one cloud solution.

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

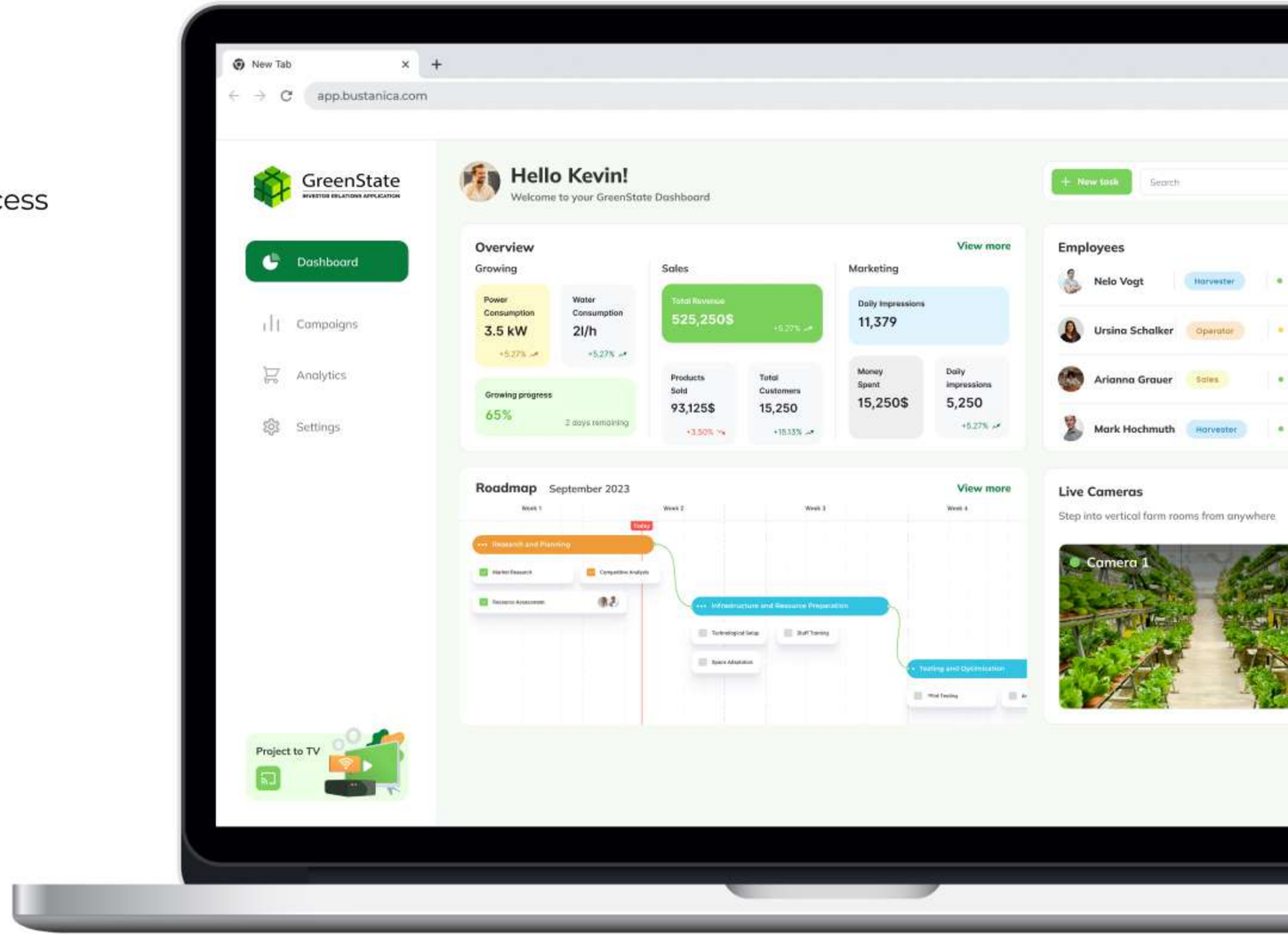




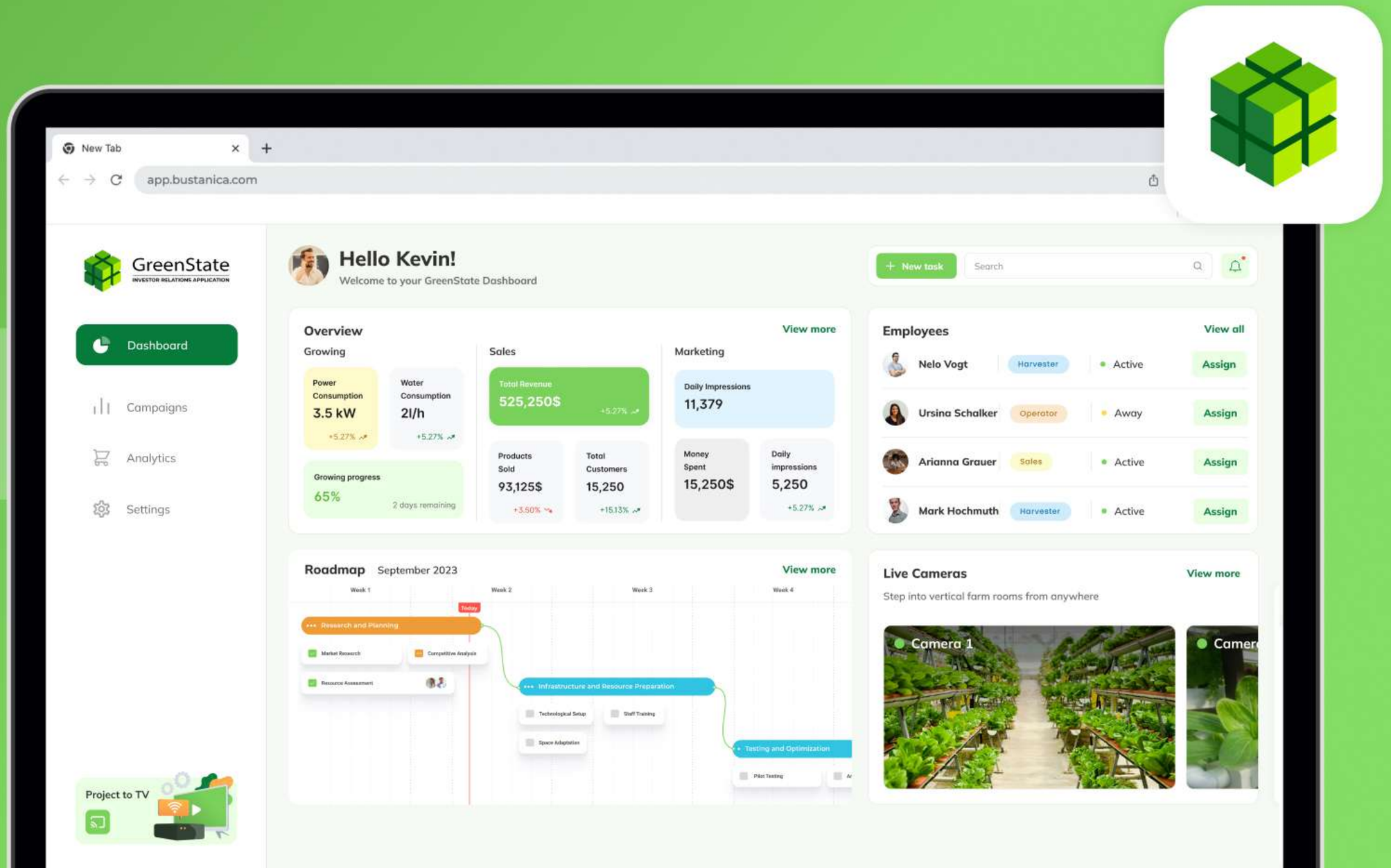
5 Full Cycle Dashboard Solution

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



6 Mobile App

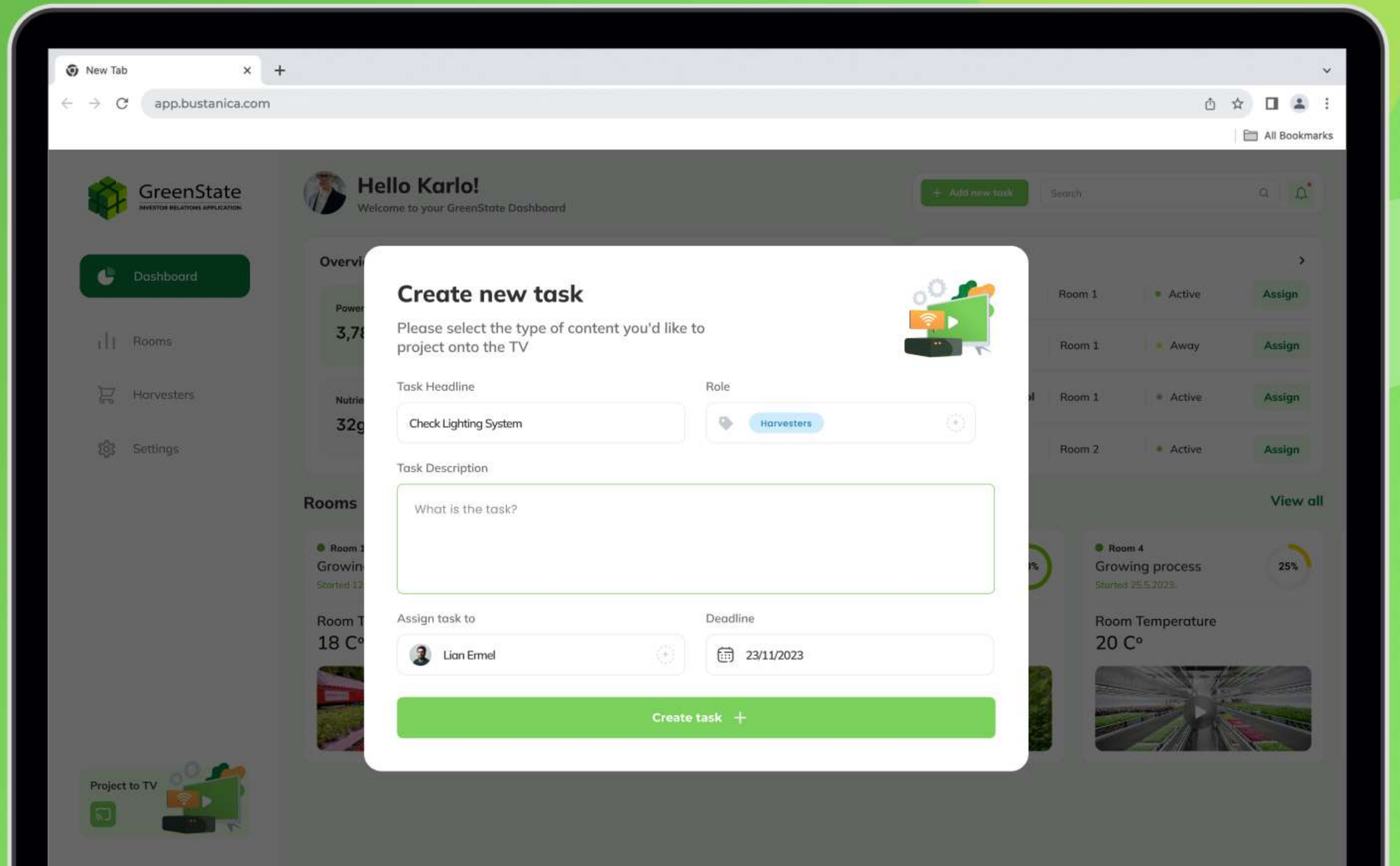
As we harness the benefits of vertical farming, this innovative tool empowers every team member, from harvester to manager.

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.

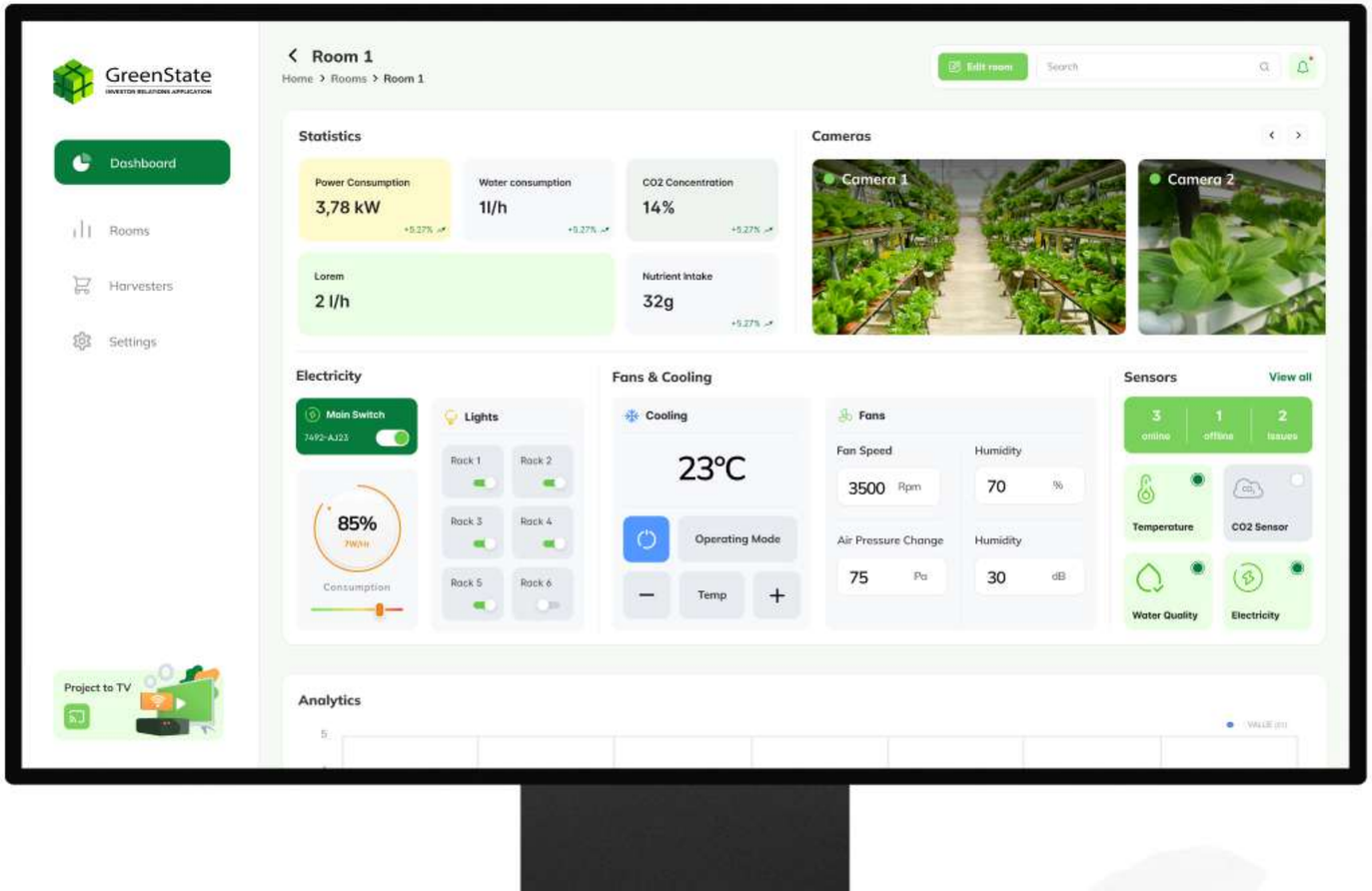
This mobile app is not just a tool, it's the heart of our efficient vertical farm operations ushering in a brighter and more sustainable future for farming.

Task Creation



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

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