

A vertical decorative bar on the left side of the page, composed of several thin, parallel lines in various colors (red, orange, yellow, green, blue, purple) that create a rainbow-like effect.

PRESS RELEASE

For immediate distribution

SOLLUM TECHNOLOGIES ENHANCES GROWER CONTROL WITH NEW SUN AS A SERVICE® FEATURES.

SOLLUM'S PROPRIETARY SUN AS A SERVICE® PLATFORM BOOSTS GROWER CONTROL OVER ENERGY MANAGEMENT —AMONG THE TOP COST CONCERNS FOR GREENHOUSE GROWERS —WITH ENHANCED POWER MANAGEMENT TOOLS AND RECIPE MANAGER.

Montréal, Québec, Canada, April 16, 2024 – Sollum Technologies, the leader in dynamic LED lighting solution, is pleased to announce the latest enhancements to its groundbreaking SUN as a Service (SUNaaS®) cloud platform.

The SUNaaS platform is at the heart of Sollum's revolution in greenhouse lighting. Reproducing and modulating natural sunlight with unparalleled precision, it manages its unique dynamic/adaptive, fully programmable LED lighting in a way that meets the specific needs of any crop, at every stage of growth. This innovation enhances crop yield and quality, and by significantly reducing energy consumption, it offers a cost-effective and sustainable solution that addresses key challenges of modern greenhouse cultivation.

Designed with precision in mind, these enhancements to the SUNaaS platform bring an increased level of control and efficiency to greenhouse operations, reinforcing Sollum's commitment to helping growers optimize their operations through 100% adaptable lighting technology.

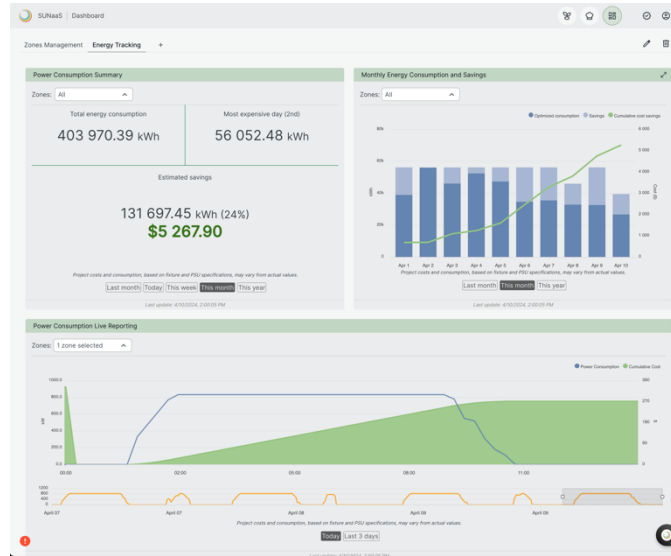
What's new:

POWER MANAGEMENT: Advanced controls provide a comprehensive overview of a greenhouse's lighting environment, adding to the flexibility of the solution to adapt to crop and business needs.

- **SUNaaS monitoring:** Tracking the electricity usage of each fixture, each zone or the entire greenhouse allows growers to assess the impact of supplemental



light on each crop's productivity and implement strategic adjustments to the light recipe in order to conserve energy.



- **Energy cost controls:** The SUNaaS platform enables the implementation of an electricity cap to mitigate the impact of “load shedding”. This proactive measure helps manage both peak consumption and high-cost periods more efficiently. Given the particular challenges load shedding presents to greenhouse growers, who require consistent energy use to maintain optimal growing conditions, this cap offers a dynamic control over energy expenditure. The flexibility to modify the cap at any time ensures that growers can adjust their energy use in response to both planned and unexpected load-shedding events, minimizing their impact on operations.

The screenshot shows the SUNaaS Settings page, specifically the 'Power settings' section. It includes the following fields and options:

- Power limit type:** A dropdown menu with 'Percentage (%)' selected and 'Kilowatt (KW)' as an alternative.
- Power limit:** A table for setting limits by date range and intensity.
- Cost Estimation rates:** A text input field for an average rate per kWh, currently set to 0.06.

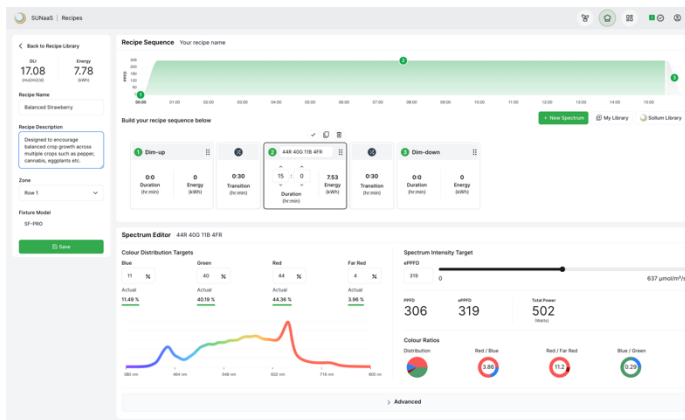
Date Range	Intensity (%)
Apr 10, 2024 - Apr 30, 2024	80 %
May 01, 2024 - May 31, 2024	60 %
Jun 01, 2024 - Jun 30, 2024	25 %
Jul 01, 2024	20 %



- **Enhanced lighting control:** Multi-target PPFD (Photosynthetic Photon Flux Density) and DLI (Daily Light Integral) data provide additional control to help maximize the use of natural sunlight. The data serves to adjust the light quantity to meet the plants' varying needs throughout the day, and ensures that crops receive the exact amount of light necessary for optimal growth.

Rectification Targets	
Intensity (PPFD)	Accumulation (DLI)
350	up to: 15
275	up to: 17
250	up to: 20
550	18
Multi 350, 275, 250	Multi 10, 12, 15

ENHANCED RECIPE MANAGER: Empowering growers to take charge, our recipe manager allows for the creation of their own light recipes—either independently or with the assistance of Sollum’s 24/7 Smart Support team. Recipe ownership remains with the growers, fostering innovation and real-time optimization.



The screenshot shows a dialog box titled 'Import spectra from Sollum Library'. It features a search bar and three options: 'Compact - SF-ONE model', 'Elongation - all models except SF-ONE', and 'Elongation - SF-ONE model'. The 'Elongation - SF-ONE model' option is selected, showing a description: 'The high far-red output is designed to cause a moderate level of stretching to improve canopy openness and airflow. Well adapted to cucumbers, strawberries, tomatoes, etc.' Below the description are two checked items: 'Dim-up 1' and '71R 12G 9B 8FR 2'. At the bottom, there are 'Close' and 'Import' buttons.



Additionally, growers can select and customize recipes developed by Sollum in its extensive library. The latest update includes detailed recipe information such as R/G/B/FR distribution, colour ratios, and power usage at any given time of day, alongside total energy consumption over selected periods. This level of detail extends to the comprehensive spectral composition, ensuring that growers have all the information to make informed decisions.

Finally, clients who invested in Sollum's dynamic solution will benefit from the latest features, keeping their operations at the forefront of agricultural technology.

"These new features are more than significant improvements to the SUNaaS cloud platform," says Vice President [Marco Lafond](#), Product Development at Sollum. "We're transforming the way growers interact with the technology, ensuring that their crops achieve unparalleled results. These advances reflect our unwavering commitment to providing an innovative and user-centric solution that meets the immediate needs of today's growers and prepares them for tomorrow's challenges, especially as it relates to the cost efficiency of energy management," he adds.

This first delivery of additional functionalities signals the start of a dynamic period of innovation and growth. Sollum is already looking ahead with a series of transformative features to be announced later this year—each one carefully designed to provide greenhouse growers with the most advanced tools supporting the efficiency and control of their operations.

To learn more about how Sollum's dynamic lighting solution can empower a greenhouse operation, contact the [Sollum Sales team](#) or visit sollum.tech.

About Sollum Technologies

Sollum Technologies designed the only 100% dynamic LED lighting solution that modulates the full spectrum of the Sun's natural light to illuminate closed environments such as greenhouses, research centers and laboratories. Sollum's award-winning, turnkey solution consists of internet of things, AI-powered light fixtures that are controlled by Sollum's proprietary SUN as a Service® cloud platform. Sollum's distinctive proposition is a fully scalable cleantech solution that evolves with business needs and multi-zone light management, with each zone benefiting from automatic dimming of an unlimited number of light recipes; this is why it provides unparalleled



value in terms of energy savings and, additionally for greenhouse growers, increased productivity, and superior produce quality.

Founded in 2015, the company is headquartered in Montréal (Québec, Canada), where its design, development, and manufacturing activities are concentrated, and has a representative office in Leamington (Ontario, Canada). For more information, visit sollum.tech.

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Sources

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