

EMPOWERING CLIMATE INNOVATION WORLDWIDE

Industry

Telco, Maritime & ESG

Location

Global

We're working with ClimateForce to pioneer new ways of thriving on our planet



Together with ClimateForce, we're working at the forefront of initiatives that align with our purpose: doing the extraordinary in space to deliver amazing experiences on Earth.

Situated on a 372-acre pilot property in Far North Queensland, Australia, Tropical ReGen aims to regenerate a rainforest corridor in the Daintree, the oldest rainforest system in the world.

At the intersection of environmental conservation and technological innovation, SES has forged impactful collaborations with ClimateForce, contributing to transformative initiatives that range from reforestation efforts to facilitating crucial connectivity in challenging environments. The success of these endeavours not only propels us as a leader in the satellite industry, but also underscores the positive impact that can be achieved through purpose-driven collaboration and innovation.

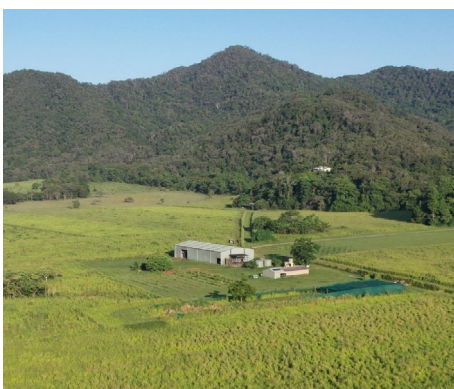
Driving climate technology innovation for reforestation

Together with ClimateForce, SES is contributing to the co-creation of organic reforestation methodologies through the pilot project Tropical ReGen. The goal: to develop economically self-sustaining practices that not only restore the environment, but also foster global innovation in climate technology.



Situated on a 372-acre pilot property in Far North Queensland, Australia, Tropical ReGen aims to regenerate a rainforest corridor in the Daintree, the oldest rainforest system in the world. The farm, functioning entirely off-grid, serves as a relevant model for circularity and sustainable practices, managing its water, energy, and waste.

The farm borders two diverse ecosystems: pristine rainforest and mangroves. To restore the landscape to its original state, Tropical ReGen pioneers innovation in the regeneration sector, using cutting-edge techniques, technologies, and data collection methods. This includes drone scans equipped with Light Detection and Ranging (LiDar) capabilities, alongside research into virtual reality and spatial mapping.



In support of these operations, we provide satellite connectivity services through SKALA and empower SES employees to actively participate in tree planting on the farm, fostering a tangible connection to SES's environmental initiatives.

As SES continues to develop its sustainable practices, Tropical ReGen stands as a valuable model for learning and inspiration. The success of this pilot project holds the potential to catalyse larger regeneration efforts throughout Australia, covering thousands of hectares.

We acknowledge the significance of restoring the planet and exploring innovative ways to coexist with it. Recognising the telecommunications industry's contribution to carbon emissions, we are proud to support projects like Tropical ReGen, dedicated to driving climate technology innovation for biodiversity regeneration, sustainable farming practices, and the rural development of communities.

Powering 2041 Foundation's live stream from Antarctica

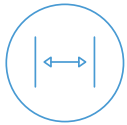
In collaboration with ClimateForce, SES played a pivotal role in bringing dedicated connectivity onboard the 2041 Foundation's 2022 expedition to Antarctica. This voyage, led by environmental activist Robert Swan, raised awareness about climate change and the critical need for global action.

Antarctica, known for its harsh conditions, presented unique challenges in terms of connectivity. Working with partner Speedcast, we provided the managed service for the expedition. Our space segment capacity, combined with Speedcast's expertise, ensured seamless

Powering broadband connection for the voyage:



36MHz of C-band capacity on SES-6



Increased throughput to 50/13Mbps



Internet supply to 80 crew members and staff

connectivity for passengers and crew on board the ship Ocean Victory.

Before SES’s intervention, live streaming in HD from such a remote location would have been impossible. In response to Robert Swan’s request in December 2021, we allocated 36MHz of C-band capacity on SES-6, located at 40.5°W. This upgrade increased the throughput to 50/13Mbps, enabling not only HD video streaming but also reserved internet capacity for the crew and official feeds for various organisations.

Recognising the critical nature of this connectivity solution, we collaborated with Speedcast to design, test, and implement the solution well in advance of the expedition. Three weeks prior to departure, we connected the vessel to SES-6, conducting thorough tests from Ushuaia, Argentina. This proactive approach aimed to ensure the system’s reliability throughout the expedition.

Gez Draycott, VP of Sales Engineering at SES, personally supported all live feeds on board, underscoring SES’s dedication to providing on-the-ground support even in the most remote locations. The team implemented a static route configuration, ensuring a stable connection for live

feeds, contributing to the success of the historic live stream from Antarctica.

Our ESG strategy was realised not only through technological contributions, but also through our commitment to environmental awareness. With our robust connectivity support, 2041 Foundation successfully told the story of Antarctica to a global audience, inspiring viewers to act in preserving this vital part of the planet. The live stream garnered attention from 1,500 schools and over 30,000 school children, who joined via Oddizzi, further amplifying the impact of the expedition.

Our collaboration with ClimateForce in both reforestation initiatives and our pivotal role in enabling connectivity for the 2041 Foundation’s expedition to Antarctica showcase a holistic approach to environmental and social responsibility. Through these initiatives, we not only contributed to climate action and sustainability, but also actively engaged our employees and the global community in these efforts. Our journey exemplifies the positive impact that can be achieved when a leading satellite operator aligns its mission with the broader goals of environmental conservation and global connectivity.



“The whole SES team has been working hard to make sure we get our message back to the real world and challenge people to act.”

ROBERT SWAN

Officer of the Order of the British Empire,
Fellow of the Royal Geographical Society,
Founder at 2041 Foundation



Learn more about
our ESG strategy at
www.ses.com

SES HEADQUARTERS

Château de Betzdorf
L-6815 Betzdorf
Luxembourg

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