

Giftmakers to the Earth

Sumba Moves to Clean Energy

Brings a new chapter in
sustainability from organic waste



From seedling to
coffee cup



Seeing water in
a different way



SU-re.co
Sustainability & Resilience



Research-driven climate enterprise

su-re.co, which stands for Sustainability and Resilience, is an environmental "Think-Do-Be" tank based in Bali, Indonesia. Founded by Prof. Dr. Takeshi Takama, the organization focuses on innovative research, practical solutions, and inclusive learning to address climate change and sustainability issues.



THINK



DO



BE

Our research helps public and private sectors work together to tackle climate change. Synergized with the think-tank, the do-tank combines strategic planning and local action on the ground in rural areas. We work on coffee and chocolate production, clean energy (biogas), and create sustainable and circular businesses. The be-tank shares our knowledge through educational programs, continuously improve our eco-friendly office, "Dojo," and foster a transparent culture.

Bali



Japan



Dear everyone

Greeting from Bali, Indonesia and Japan

Founded in Bali in 2014, we marked our 10th anniversary with an expansion to Japan. By linking Bali's on-the-ground projects with Japan's creative networks, we aim to create a positive spiral of collaboration, co-creating solutions that benefit both local communities and the global climate.

From Bali and Japan, let's co-create a positive spiral of sustainability.

Giftmakers.

CEO:
Dr. Takeshi Takama

Office Manager:
Ruth Aprilia

Researcher:
Fabian Peri Wiropnato
Moch Risqi Graha

Forestry Officer:
Ditro Wibisono Wardi Parikesit

Engineering Officer:
Bianca Angelique

Business Operation and Development Officer:
Fathia Aufa Syahidah

Sustainability Training Officer:
Kadek Cyntia Cahya Wirayani

Communication Officer:
Ratu Ayu Allysia Luna Sita Manik Mas

Administrative Assistant:
Made Mika Cahyani Dewi
Helena Hegi Parascati

Business and Event Mentee:
Kahoko Shibasaki

Engineering Mentee:
Clara Gloge

Business and Engineering Mentee:
Sacha Lepers
Louane Gilleron

OPERATIONAL OFFICE

Jalan Dalem Gede No 25, Banjar Jempinis,
Pererenan, Mengwi, Badung, Bali, Indonesia

info@su-re.co

+62 8123831727

su-re.co

www.su-re.co

su-re.co

su_re.co





Table of Content

Month's Spotlight	6
Think-Tank	11
Do-Tank	12
Be-Tank	14
Climate-smart Product	18



This Month's Spotlight

A Week in Sumba

In mid-November, su-re.co ventured to a village in Sumba, East Indonesia. Through ASEAN SEDP and IKI Small Grants Program, we carried out two initiatives designed to empower the local community, creating small but meaningful steps toward a more sustainable future, in our way.



First Flame in Sumba

su-re.co has successfully installed its first biogas digester in Sumba, marking a significant milestone in our biogas journey on the island. This achievement also serves as the first concrete step toward the broader implementation of the ASEAN SEDP program. Developed in collaboration with local youth and women leaders, the biogas system converts daily organic waste into clean cooking gas and nutrient-rich

bioslurry. This innovation reduces reliance on firewood, improves indoor air quality, and supports a more circular and sustainable local economy. As part of the upcoming workshop series, we will conduct a cooking demonstration using the newly installed digester. Participants will be able to observe the complete biogas cycle in practice.



waste input → gas production → cooking → bioslurry application

Our Energy: Youth & Women Action for Clean Solutions

After the first flame, in the early week of this month su-re.co held a two-day workshop in Kadaghu Tana Village, located in North Kodi District, Southwest Sumba Regency, East Nusa Tenggara. Under the ASEAN SEDP project collaborating with YPK Donders, the program brought together farmers, youth, and local partners to explore biogas, sustainable farming, and climate-smart practices. The activities aimed to turn community insights into actionable solutions for clean energy access and improved livelihoods.

On the first day, throughout the workshop, participants engaged in focused group discussions, exchanged perspectives, and deepened their understanding of how biogas can strengthen agricultural resilience while providing affordable, clean energy for daily needs. On the second day, the learning experience became more hands-on. su-re.co facilitated a live biogas cooking demonstration and a practical digester installation, giving participants the chance to see and experience how the system works in real life.

The workshop concluded with renewed enthusiasm from the community and marked another step toward empowering local households with sustainable, climate-smart solutions.



Supporting Community Development Through Practical Census Training in Southwest Sumba

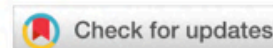


After finished with ASEAN SEDP project, su-re.co continued activity with community as part of IKI Small Grants project. We conducted a hands-on census training in the same village. This session collaborated with Jaringan Humba Hammu, aimed to equip local community with the skills needed to collect accurate and meaningful village data.

The training introduced a comprehensive household questionnaire developed with Galang Data Nusantara, covering key aspects of daily life such as energy use, cookstoves, fuel needs, water access, and financial literacy. By strengthening local capacity to gather these insights, the census becomes an important foundation for designing solutions that truly match community needs.

The data collected will help identify households that could benefit from biogas solutions, while also revealing other areas where additional support may be valuable, such as financial literacy programs or future capacity-building activities in Kadaghutana Village.





RESEARCH ARTICLE

Stakeholder perceptions of Nature-based Solutions (NbS): potential, risks and ways forward

[version 1; peer review: awaiting peer review]

Carlos Picon ¹, Eise Spijker ¹, Luis Virila², Moritz Laub ³, Siti N. Indriani ⁴, Takeshi Takama ⁴, Mohamed Ahmed⁵, Eric Rahn⁶, Bibiana Bilbao⁷, Thao Pham⁶, Markus Donat ⁸

¹JIN Climate and Sustainability, Groningen, The Netherlands

²Technische Universiteit Delft, Delft, South Holland, The Netherlands

³ETH Zurich Institute for Atmospheric and Climate Science, Zürich, Zurich, Switzerland

⁴SU-RE-CO, Canggu, Indonesia

⁵eLEAF, Amersfoort, The Netherlands

⁶Alliance of Bioversity International and the International Center for Tropical Agriculture - Asia Hub, Hanoi, Hanoi, Vietnam

⁷COBRA Collective, London, UK

⁸Barcelona Supercomputing Center (BSC), Barcelona, Spain

THINK-TANK

su-re.co in Advancing Climate Action Research

We are pleased to announce the publication of a new journal article under the European Commission featuring contributions from su-re.co. The paper highlights the role of land-based Nature-based Solutions (NbS) in achieving the 2015 Paris Agreement targets.

To limit global warming to below 2°C, the world must reduce greenhouse gas emissions and deploy Carbon Dioxide Removals (CDRs). More than half of the climate scenarios in the IPCC AR6 report rely on large-scale CDRs. Land-based NbS, such as improved land management and ecosystem restoration, offer a mitigation potential of more than 10 GtCO₂ per year.

However, relying on NbS without understanding their true environmental and social impacts poses risks. The article addresses these challenges by evaluating NbS effectiveness and gathering insights from practitioners.

su-re.co's involvement reflects our commitment to advancing climate-smart solutions through science and community-driven action. This publication reinforces our mission to contribute to global climate efforts from Bali to the international stage.



Explore the full
article here!



DO-TANK

From Seedlings to Coffee Cup

su-re.co is steadily building its long-term vision for regenerative ecosystems in Bali, starting with a 20-hectare restoration pilot in Northeast Bali's Social Forests. In Wanagiri, our work centers on agroforestry, where coffee grows alongside shade trees to create a healthier, more resilient landscape. This harmony of plants nurtures biodiversity, enriches the soil, stabilizes microclimates, and supports farmers with more reliable yields.

As part of this journey, this vision came to life again in October, when we welcomed trainees from Daiki Axis for a day of learning and planting. Together, we explored how restoration efforts in the upstream areas ripple down to benefit communities in the downstream. The experience wrapped up with a warm coffee cupping session hosted by our farmer, Pak Made, bringing participants full circle from planting young seedlings to savoring the final cup.





DO - TANK

Bringing Bali's Climate-Smart Solutions to the Heart of Tokyo

su-re.co successfully participated in Tiger Festival 2025, hosted by Tigermov, bringing climate-smart innovations from Bali to Tokyo.

At the event, we presented our signature climate-smart coffee, produced in collaboration with Balinese farmers, along with our Kenari nuts and other sustainable products. Visitors had the chance to learn how these products support climate resilience, empower local communities, and promote sustainable agriculture in Bali.

A special highlight of the festival was the presence of students who previously joined su-re.co's training program in Bali. They stood at the booth throughout the day, sharing what they learned during their field experience and telling the story behind our coffee—from Bali's farming communities to the final cup enjoyed by visitors in Tokyo.

Stories of Transition from Bali to Denmark at Kyoto University

In October, su-re.co took part in a seminar hosted by Kyoto University on the theme of Energy and Social Transitions. Dr. Takeshi Takama, CEO of su-re.co, joined Prof. Diana Mangalagiu from the University of Oxford to discuss how different regions approach change through complex systems science.

The session brought together experiences from Europe and Indonesia, including Denmark's renewable energy journey and su-re.co's biogas and composting initiatives in Bali. The discussion emphasized that successful energy transitions are shaped not only by technology, but also by culture, policy, and community involvement.

A key takeaway from the seminar was clear. The future of energy transition begins with people and the communities who live and shape the change every day.





BE-TANK

Continuing the Dialogue, su-re.co Shares Insights at Tohoku University

On October 10, su-re.co joined a lecture at Tohoku University that explored Prof. Diana Mangalagiu's Positive Tipping Points and the Nexus Approach, featuring an engaging presentation by Dr. Takeshi Takama. The session explored how su-re.co is transforming sustainability concepts into real, measurable action across Indonesia.

Dr. Takama highlighted several ongoing initiatives, including biogas development, agroforestry, climate education, and regenerative waste management. These projects demonstrate how integrated local solutions can influence larger systems within the food-water-climate nexus and inspire wider global change.

The lecture also shed light on the shift from a traditional circular economy toward a regenerative economy, one that focuses not just on reducing waste, but on restoring ecosystems and strengthening community resilience. Dr. Takama emphasized that education, youth participation, and community empowerment are essential to achieving these long-term positive tipping points.



CROSS-ASIA PATHWAYS FOR CLIMATE INNOVATION

Organized by the Food and Agriculture Organization (FAO) of the United Nations



At the Bioeconomy Innovations and Investment Forum hosted by FAO in Bangkok on 25-27 November 2025, su-re.co continued to advance climate-smart innovation on the global stage.

During the forum, CEO Takeshi Takama delivered a business pitch showcasing su-re.co's integrated climate-smart products—ranging from sustainable coffee to regenerative environmental solutions. These innovations align closely with the event's mission to address food loss, waste, and unsustainable agrifood systems across the Asia-Pacific region.

A meaningful moment took place when Dr. Takama presented su-re.co coffee to Dr. Alue Dohong, Assistant Director-General and Regional Representative for Asia and the Pacific at FAO, and former Vice Minister of Environment and Forestry of Indonesia (2019-2024). This gesture symbolized su-re.co's commitment to promoting sustainable, climate-smart agriculture and strengthening collaboration within the region.

BE-TANK

Seeing Water in a Different Way



Over six immersive and inspiring days, su-re.co had the pleasure of hosting new trainees from Daiki Axis Japan as they explored Bali's most pressing water and sanitation challenges. The program introduced participants to real-world issues—from wastewater management to broader sanitation concerns—while highlighting opportunities to turn technology and innovation into sustainable business models for Bali's future.

Throughout the week, alongside technical discussions and problem-mapping sessions, the trainees also participated in a team action activity focused on the potential application of Johkasou systems in Bali. This helped them understand how decentralized wastewater treatment could support the island's environmental needs. They also learned how oil waste from households and industries can significantly impact Bali's water quality.

Beyond the technical learning, the trainees experienced the richness of Balinese culture, shared meaningful conversations, and found fresh inspiration through their interactions with local communities and the su-re.co team. Bali has a special way of opening minds, and we're grateful to be part of their journey.

Bajawa & Wanagiri Coffee

Make your days special with our coffee from Bajawa, Flores and Wanagiri, Bali that cultivated on climate-resilient farms through agroforestry. Each cup offers a rich, subtly sweet, and refreshingly bright taste.



Chocolate Bar

Enjoy your day with a blend of 55% Tabanan cacao and our crushed Bajawa coffee, creating a flavor that reflects the richness of Indonesia's landscapes and the resilience of its farmers. Take a bite to feel the refreshing, crunchy, and dairy-free melt.



Vanilla Beans from Sulawesi

Experience Sulawesi Bourbon vanilla with rich notes of caramel, dried fruit, and warm spices, cured to perfection for a refined flavor. Our vanilla is sustainably grown with care and aged through a traditional two-stage fermentation process for enhanced flavor.



Kenari Nuts from Maluku

Rich in protein and nutrients, kenari nuts are gaining recognition as a new “superfood” with a creamy, buttery flavor. Harvested from the biodiverse forests of the Maluku Islands, in order to support forest conservation and local livelihoods.





SU-re.CO

Sustainability & Resilience

Established in 2014, su-re.co (Sustainability and Resilience) is an environmental Think-Do-Be-Tank based in Bali. Our vision is to be the giftmaker for the earth. To achieve this vision, we set a mission. We deliver well-thought outcomes because we need scientifically proven sustainable and resilient solutions. We work on think, do, be activities together.

Bali, 2025