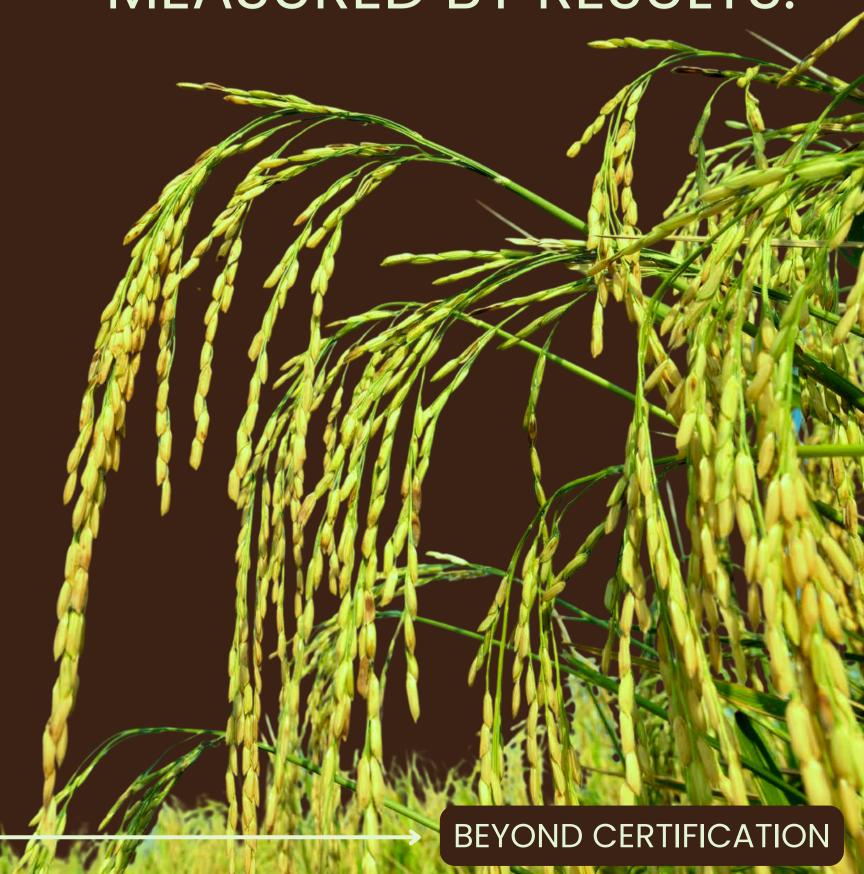


Verified
Low-Carbon
Insetting
Rice Project
2025



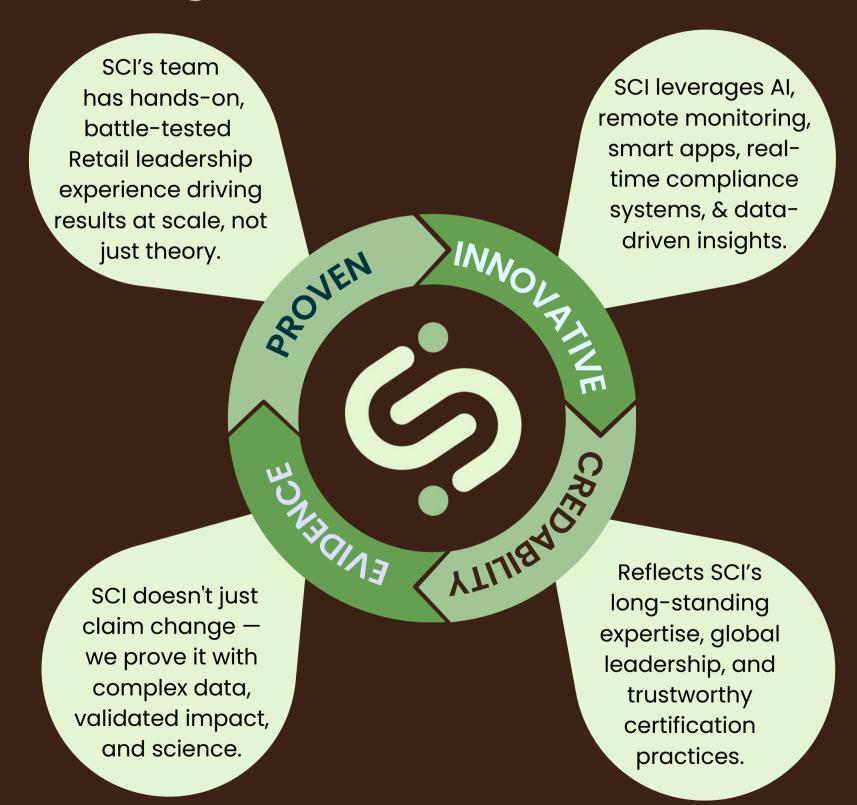


CREATING SOLUTIONSNot Just Measuring Risk

Unlike traditional Assurance, Testing,
Inspection, and Certification companies,
SCI goes beyond risk measurement to create
real, scalable solutions that
transform supply chains.

With deep expertise and innovative strategies, we help businesses ensure compliance, enhance sustainability, reduce carbon emissions, and drive lasting impact.

By leveraging intelligent solutions and datadriven insights, we empower companies to meet standards and lead in efficiency, environmental responsibility, and long-term success.





PARTNERS IN SUSTAINABLE SOLUTIONS

"A reliable partner for today, an innovative partner for tomorrow."

2025

Our experienced and diverse team excels in delivering innovative, technology-driven services with meticulous attention to standards and governance.











"Since partnering with SCI in 2023, their professionalism and expertise in safety & legal solutions have been invaluable. Operating across 11 jurisdictions, we needed a seamless global approach—SCI has become a fundamental part of our project's success."

Noel Birchall Director Global Sourcing ~ ALDI SÜD



THE GLOBAL OPPORTUNITY

"OFFSETTING REDUCES EMISSIONS ELSEWHERE

— INSETTING TRANSFORMS YOUR OWN SUPPLY CHAIN."

THE WORLD'S LARGEST 2000 COMPANIES,

based on rankings like the Forbes Global 2000, which includes companies with the highest revenues, profits, assets, and market value.

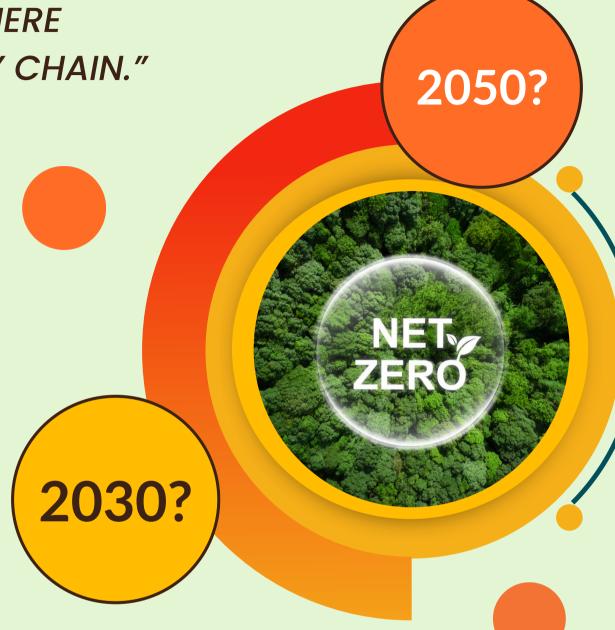
ARE COVERED BY NET ZERO TARGETS,

these companies have pledged to reduce their greenhouse gas emissions to near zero. However, only 1.3% achieved reductions across all three scopes. (1, 2 & 3), with any remaining emissions offset by carbon removal or reforestation, typically by a specific deadline (e.g., 2030 or 2050).

WITH THESE IMPLICATIONS:

- Economic Impact: A significant share of global commerce aligns with sustainability goals.
- Industry Leadership: Large corporations are driving the transition to lower-carbon economies.

 Potential Accountability: These companies must measure and report progress, which could influence regulations, investments, and consumer expectations.



THERE IS A MAJOR SHIFT IN CORPORATE RESPONSIBILITY TOWARD COMBATING CLIMATE CHANGE HOWEVER...



YOUR OPPORTUNITY



FOOD INDUSTRIES GAS EMISSIONS, THAN THE AVIATION

ICCT, IPCC, Our World in Data

ACCOUNT FOR 30% OF TOTAL GREENHOUSE SIGNIFICANTLY MORE INDUSTRY (2.5%)



ICCT, IPCC, Our World in Data

AMONG THE 20 LARGEST GLOBAL FOOD RETAILERS, ONLY 6 HAVE **SCOPE 3 EMISSIONS TARGETS, AND NONE** HAVE SET SPECIFIC GOALS FOR METHANE REDUCTION -DESPITE ITS MAJOR ROLE IN FOOD SECTOR EMISSIONS.

FOODNAVIGATOR.COM

APPROXIMATELY 44.2% OF FOOD **COMPANIES REPORTING SCOPE 3 EMISSIONS NOTED REDUCTIONS** IN THEIR SUPPLY CHAIN EMISSIONS. HOWEVER, ONLY 1.3% ACHIEVED **REDUCTIONS** ACROSS ALL THREE SCOPES. (1, 2 & 3)



CARBONCLOUD

RETAIL IS STARTING TO MOVE FORWARD: A CERES BENCHMARK REVEALED THAT OUT OF 12 MAJOR FOOD RETAILERS ASSESSED,

ONLY 4 HAD DISCLOSED THEIR SUPPLY CHAIN EMISSIONS AND SET REDUCTION TARGETS.



DFI LOW-CARBON RICE PILOT PROGRAMME NA/by/ Dicoo

Why Rice?

CONTEXT & SIGNIFICANCE

DFI 2030 CLIMATE & CARBON REDUCTION CHALLENGE



VISION STATEMENT

"TO LEAD THE FOOD RETAIL SECTOR IN ASIA IN MEASURABLE, SCIENCE-BASED REDUCTIONS OF **SCOPE 3 EMISSIONS** BY TRANSFORMING HIGH-IMPACT COMMODITY SOURCING—BEGINNING WITH RICE—

INTO A VERIFIABLE, LOW-CARBON SUPPLY CHAIN."

RICE = MAJOR EMISSION SOURCE:

- ACCOUNTS FOR ~6% OF DFI'S SCOPE 3 EMISSIONS (2023)
- GLOBALLY, RICE CONTRIBUTES 22% OF AGRICULTURAL METHANE EMISSIONS
- AND 11% OF NITROUS OXIDE.

THAILAND AS A FOCUS:

- 6TH LARGEST RICE PRODUCER GLOBALLY
- JASMINE RICE IS A KEY EXPORT AND A DFI PRIVATE-LABEL PRODUCT.

STRATEGIC FIT:

- RICE OFFERS THE HIGHEST EMISSIONS REDUCTION POTENTIAL (UP TO 48%) AMONG AGRI-SECTORS,
- MAKING IT IDEAL FOR LOW-CARBON TRANSFORMATION



THE DFI RICE USE CASE

Project Summary



Challenges

To reduce the impact of emissions on growing rice.

- To do so without impacting crop yield.
- Not impacting margins.
- To educate and achieve 100%
 compliance from a group of farmers.



Objective

Reduce greenhouse gas emissions by 30/40%.

- No drop in yield because of the changes made.
- Measure and manage the optimal use of fertilizer.



Projected Results

To attain +90% Farm compliance, document real CO2 impact.

- To have zero impact on yield from the changes introduced.
- Prove the optimal amount of fertilizer
- Prove that our methodology was the fastest way to implement and achieve the desired verified results.

THE POWER OF INSETTING...

• INVESTING IN YOUR **OWN** ECOSYSTEM TO CHANGE PRACTICES AND LOWER EMISSIONS.





STAGE 1 Research / Design



STAGE 2
Training / Implementation



STAGE 3
Data Assessment



STAGE 4
Data Monitoring



STAGE 5
Remote/Field Monitoring



- Focus on in-depth academic research to uncover the key challenges in rice farming.
- Identified critical changes
 needed to reduce environmental
 and operational impact.
- Established a strong foundation for credible, independent assessments by trusted industry auditors.
- Informed the development of innovative processes that drive measurable, sustainable outcomes.

- Trained farmers on best practices to boost yields and understand the impact of sustainable process changes.
- Delivered accessible education
 using visual tools, local languages
 & mobile-friendly support.
- Encouraged peer-to-peer learning through community forums & shared success stories.
- Fostered ongoing social engagement, promoting collaboration & farmer-led innovation.

- Farmers, producers, and harvesters are trained to use the proprietary SCI App.
- The app enables real-time input and monitoring of critical tracking events.
- Ensures alignment with compliance requirements throughout the supply chain.
- Designed with intuitive UI/UX for seamless adaptability and operational efficiency.

- We leverage AI tools to automate compliance assessments using real-time data from the SCI App.
- Submitted data is analyzed instantly to evaluate SCI compliance levels.
- Timely data capture provides a critical advantage in responding to weather-related impacts.

- An integrated online database enables seamless image uploads and response tracking.
- Supported by an Al-powered
 dashboard for enhanced visibility
 and control.
- Real-time updates provide precise, immutable compliance measurements.
- **Delivers predictive insights** to substantiate emission reduction claims for stakeholders.





SCI "DFI"
-Scope 3RICE
Insetting
Method

ENGAGE

ENGAGED RICE
FARMERS IN
COMPLIANCE,
PRODUCTIVITY, AND
INCENTIVE-DRIVEN
REWARDS

EDUCATE

PROVIDED INITIAL
AND ONGOING
TRAINING TO
FARMERS FOR
EFFECTIVE SYSTEM
UTILIZATION.

ENACT

30 LOW-CARBON FARMERS COMMITMENT TO VERIFIABLE SUSTAINABLE PRACTICES











SCI "DFI"
-Scope 3RICE
Insetting
Method

EVALUATE

FARMERS MAINTAIN
DETAILED LOGS TO
RECORD FIELD WATER
LEVELS, FUEL USAGE,
AND CHEMICAL
APPLICATIONS.

EXAMINE

FARMERS UPLOAD
IMAGES OF
CRITICAL CONTROL
POINTS TO SUPPORT
COMPLIANCE
VERIFICATION.

EXECUTE

CONDUCTED
COMPLIANCE AUDITS
& GAS SAMPLING
TO SUBSTANTIATE
GHG EMISSION
REDUCTION CLAIMS.









110,000 kg

THE DFI RICE USE CASE

Verified Results

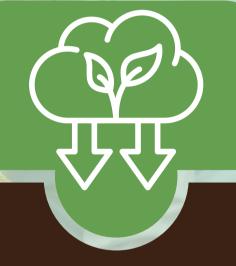
2024



COMPLIANCE

95%

THIRTY ENGAGED
FARMERS
INCREASED
COMPLIANCE FROM
10% TO 95%.



REDUCTION

236%

CARBON IMPACT
REDUCED BY 30-50%
ACROSS 30 FARM
WITHOUT
COMPROMISING
CROP YIELD.



YIELD LOSS

0%

SCI METHODOLOGY
SHOWS THAT
ADDITIONAL
FERTILIZER DOES NOT
INCREASE YIELD.



200,000 kg



DFI LOW-CARBON RICE PILOT Programme Results

DFI 2030 CLIMATE & CARBON REDUCTION ROADMAP



VISION STATEMENT

"TO LEAD THE FOOD RETAIL SECTOR IN ASIA IN MEASURABLE, SCIENCE-BASED REDUCTIONS OF **SCOPE 3 EMISSIONS** BY TRANSFORMING HIGH-IMPACT COMMODITY SOURCING— BEGINNING WITH RICE—

INTO A VERIFIABLE, LOW-CARBON SUPPLY CHAIN."

40.5 TONNES GHG SAVED!

110,000 kg low-carbon rice, 36% GHG reduction, 30 farmers trained

GHGs* AVG. PER HECTARE

EXISTING METHOD = 3.75 TONNES

SCI - METHOD = 2.40 TONNES

GHGs* 30 HECTARES

EXISTING METHOD = 112.5 TONNES SCI - METHOD

= 72.0 TONNES

(*including CH₄, N₂O, and CO₂ from energy use)



SUCCESSFUL CARBON FOOTPRINT REDUCTION



Planet-Fo
Initiatives Planet-Focused









BEYOND CERTIFICATION



DFI PROGRESSIVE TARGETS

(2024-2030)







Creating sustainable value and impact
Full adoption of low-carbon practices in

Full adoption of low-carbon practices in top Scope 3 categories; validated 30–40% emission reduction per product unit.

FY 2028-2029



Address Consumer Cost Barriers

Transition 50% of all private-label rice to low-carbon verified supply

FY 2026-2027



Develop Focused Transition Plans

Expand to 3 more commodities (e.g., shrimp, salmon, apparel); develop a full digital dashboard

FY 2025



Double Low-Carbon Rice Output

200,000 kg target under Yu Pin King brand; 1,000 farmers onboarded

Q4 - 2024



Initial Low Carbon Rice Pilot

110,000 kg of low-carbon rice, 36% GHG reduction, 30 farmers trained



SOURCE: DFI SUSTAINABILITY REPORT 2024



WHY SCI?

<u>Trusted Innovation That Delivers for You</u>



We implemented it in This is a real-world impact, not a theory. weeks, not months. SCI helped DFI cut rice Our mobile-first tech emissions by 36% and AI tools mean across all farms, which compliance is was verified through monitored daily, not gas sampling and annually. This is how independent audits, 1,000+ farmers will be onboarded in 2025. with zero yield loss.

FAST EFFICIENT

sci combines battletested retail leaders,
cutting-edge tools &
remote monitoring to
reduce time, cost, and
friction in complex
supply chains.
You get scalable
compliance — fast.

MARKETABLE

Our clients don't just meet ESG targets—
they lead the conversation.
Verified success stories become podiums, publications, and career-defining.



TRUSTED

With global credibility
in governance and
certification, and a
unique model that
fuses science with
scalable technology,
SCI isn't just your
partner — we're your
proof point.



LET'S TALK TO CREATE SOLUTIONS!



- Call / Text+44 20 3835 5101
- Global Reach info@scinsites.com

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Our SClcast

