



VIVE
SUSTAINABLE SUPPLY
PROGRAMME

VIVE is a leading voluntary sustainability programme, generating positive social and environmental impact in ingredient and energy supply chains.

About VIVE

At the heart of the VIVE programme lies its vision to drive continuous improvement in sustainability supply chain performance, while ensuring its participants gain commercial advantage.

Managed by supply chain services provider, Czarnikow (CZ), and agricultural assessment experts, Intellync, VIVE combines commercial pragmatism with sustainable expertise.

VIVE aims to develop a standardised approach to sustainability reporting in line with the United Nations Sustainable Development Goals.



Connecting and improving global supply chains

ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) TRENDS

To stay ahead of complex, changing ESG reporting trends VIVE acts as an ‘umbrella programme’, benchmarked to other leading global sustainability standards. This reduces audit fatigue and aims to create a standardised multi-commodity sustainability offering.



SUSTAINABLE COOPERATION

VIVE continues to gain traction and evolve, expanding into new product and geographic areas, and staying relevant to industry needs. Through cooperation with VIVE participants and key stakeholders, we are creating mutual commercial, reputational and employee benefits across our sustainable food, beverage, energy and packaging supply chains.

OUR BENCHMARKING PARTNERS

We work directly with our participants – food and beverage processors, traders and logistics organisations – and have developed mutually beneficial relations and platforms with other stakeholders. Combined, VIVE connects and improves the sustainability of global supply chains from farm to financing.



BUYERS SUPPORTING VIVE (BSV)

KEY DEVELOPMENTS

1st

World-first end-to-end sustainable sugar.

+120%

Increase in VIVE-verified sugar sales from 2017-2021.

81

Members of Buyers Supporting VIVE (BSV).

4

Sustainability benchmark partners under the VIVE ‘umbrella’.

77,643

Metric tonnes of VIVE-verified sugar traded in 2021.

Continuous improvement and growth

The VIVE programme has expanded considerably since its inception in 2015, passing a milestone in 2020 when the programme created the world's first end-to-end, sustainable sugar supply chain. We continue to grow our global coverage and services.

PROGRESS AND EXPANSION



Traded volumes of VIVE-verified sugar have increased significantly, and reached over 274k metric tonnes in 2020 – a result of the growing number of participating producers and pull-through from increased consumer demand for sustainable products. We aim to further increase global volumes of VIVE-verified products – in both sugar and new product areas – as we expand our global coverage and services in the following areas:

Buyers Supporting VIVE (BSV)

BSV is a free platform that enables buyers from food and beverage companies to become sustainability influencers in their own supply chains by widening their access to VIVE participants and sustainable procurement opportunities. BSV participation increased to over 80 members in 2021 our aim is to encourage BSV participants to strengthen this growing network.

Focus on green finance partners

We see green finance as a fundamental instrument to incentivise participants commercially to engage in best sustainable business practices.

We continue to collaborate with our banking partners – notably Rabobank and OCBC – and aim to expand our engagement with the financial community to encourage more sustainably-financed projects.

Continuous improvement

We continue to revise and develop our VIVE offer. We acknowledge the variety of risks across different supply chains and have developed a multi-commodity framework that enables standardised sustainability reporting across a variety of supply chains. In 2021 for example, we expanded our programme to include participants' involvement in green energy supply chains.

AVAILABLE VIVE-VERIFIED TONNAGES, MT

Refined (white) sugar	689,141.55
Unrefined (raw) sugar	1,193,472.11
Molasses	994.7
Bagasse	877,299.21

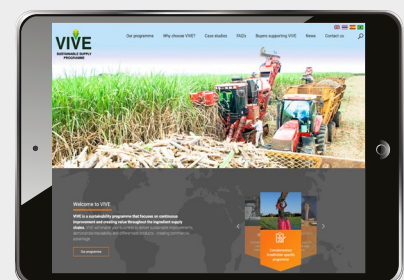
183,762.56

Available VIVE-verified energy, MWh Energy

ONLINE UPDATES

Please refer to our website for updates on our global growth initiatives

> www.viveprogramme.com

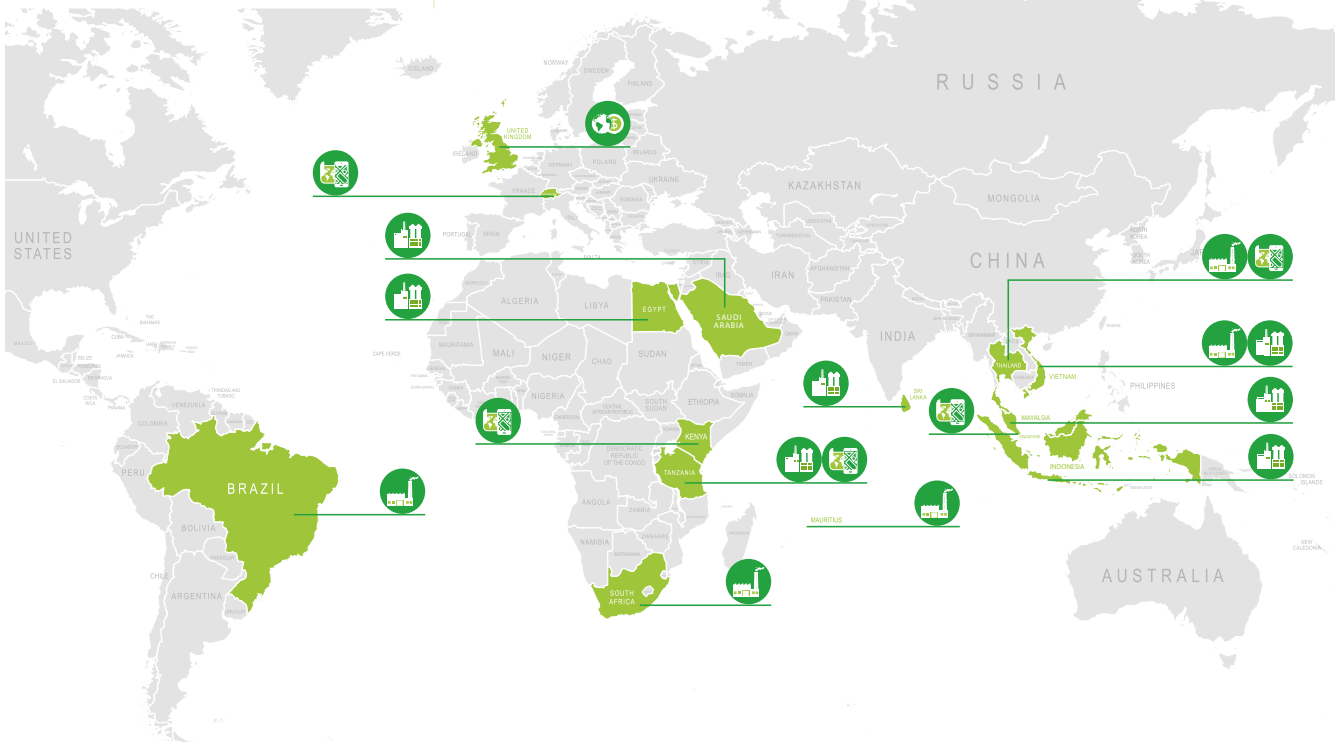


Expanding our global reach and supply chains

VIVE PARTICIPANT BY SUPPLY CHAIN STAGE



24
Participants in
14 countries.



KEY TO VIVE PARTICIPANTS

- Primary processors
- Secondary processors
- Traders
- Logistics

Please note some organisations have more than one participant in the programme.

CORE VIVE MODULES



Farm
Mills/factories provide data on the farms from which they receive crops for processing.



Facilities
Mills/factories and stand-alone refineries provide data on their own activities.



Chain of custody
Covers entities engaged in land transport, storage or forwarding and traders.



Shipping
Covers entities engaged in water transport and will include both bulk and container ships.

VIVE's modular approach covers all activities that have a bearing on sustainability, from farm to final sale, and provides increased traceability and assurance. For more information on VIVE modules, visit:

> www.viveprogramme.com/our-programme

Benefiting from active engagement

VIVE participants and stakeholders benefit from cooperating in a globally recognised and expanding continuous improvement sustainability programme. Mutual opportunities include cost-saving, product differentiation and corporate reputation.

BRAND AND PRODUCT DIFFERENTIATION



Consumers are demanding more information about what goes into their products and how they are made, including greater insight into associated environmental and social impacts. With access to instant online information and opinions, consumers can make or break reputations and brands. Through VIVE's robust traceability and tracking, sustainable claims and endorsements can be made with confidence to provide valuable product and brand differentiation.

PROOF OF CORPORATE COMMITMENT



By demonstrating sustainable practices, businesses are generating longer-term benefits in other areas: employee recruitment, supplier retention, community reputation and access to capital. With increased focus on non-financial reporting such as ESG credentials and the importance of corporate purpose, being a VIVE participant and/or working with VIVE participants can back up public-facing corporate ESG commitments.

INCREASED BUSINESS EFFICIENCIES



VIVE encourages and trains participants to apply good sustainable practices and improve on them. Through these actions, operational costs can be reduced by more efficient use of scarce resources, for example water and energy, and the optimisation of logistics. VIVE's 'umbrella' benchmarking approach and provision of marketing services and advice also relieves administrative costs and time, allowing participants to focus on their core business.

UP-TO-DATE AND PRESTIGIOUS BENCHMARKING



VIVE's management is attuned to latest ESG reporting requirements and trends, incorporating the most meaningful and relevant developments and measurements to make sure VIVE stays up to date and fit for purpose. VIVE works with some of the world's most respected benchmark partners and has recently mapped its reporting approach against the United Nations Sustainable Development Goals.

ACCESS TO PREFERENTIAL GREEN FINANCING RATES



VIVE's strengthening partnership with green finance providers has led to the creation of bespoke, preferential discounted financing rates for VIVE participants who achieve compliance with VIVE Claim Levels. To encourage continuous improvement, further discounted finance is available for high-achieving participants who meet VIVE Excellence Level. VIVE can also advise on applications for specific sustainable funds and projects.



BUYERS
SUPPORTING
VIVE

Global commercial opportunities

VIVE's complimentary Buyers Supporting VIVE (BSV) programme formally recognises and publicises the involvement of end-users in the VIVE programme and, importantly, links them up with leading VIVE participants. This valuable commercial 'pull-through' unlocks business opportunities and promotes organisations both upstream and downstream.

BENEFITS

Has been developed specifically to assist buyers and their teams in proactively engaging their own supply chains to enhance sustainability credentials.

Allows members to exert their buying power in a positive way by accelerating continuous improvement along their supply chains.

Widens access to a growing pool of more cost-effective sustainable procurement opportunities.

Generates positive publicity through sign-up to a communal code of conduct.

Links participants' names and corporate reputations to a globally recognised and growing programme.

Is free to join.



Case studies: Sustainable outcomes and actions

The VIVE programme is committed to promoting positive ESG impacts and mitigating sustainability risks across its supply chains. Examples of ESG improvements made by VIVE participants are shared below.

ENVIRONMENTAL IMPROVEMENTS



Renewable energy

A VIVE participant sugar mill installed solar panels, demonstrating its commitment to promoting and monitoring the use of renewable energy. At least one farm supplying the mill has followed its lead. To counter concerns around investment costs, the sugar mill is educating farmers on the longer-term benefits of using renewable energy.

Waste management

An assessment of a VIVE Shipping participant identified the need to improve data collection procedures to support its waste reduction activities. A standard operating procedure was implemented to promote the re-use and recycling of waste, and waste reduction targets were set.

Water efficiency

Additional water- and cost-saving practices identified through a VIVE Farm module assessment are being implemented, rolled out and monitored across 16 farms. All VIVE participants must now establish a direct relationship with supplying farms to implement and maintain water-saving practices.

Greenhouse gas emissions

VIVE's work with a participant to move towards carbon neutrality has already led to a 75% year-on-year improvement

against VIVE's performance indicators. This was achieved by implementing mechanisms to identify, record and reduce greenhouse gas emissions, as suggested by the VIVE team. Targets for emission reductions have now been set, giving the participant a clear pathway to a carbon neutral future.

SOCIAL IMPROVEMENTS



Employment contracts

During an on-site VIVE assessment, it was identified that third-party contractors did not have written contracts of employment. As a result, due diligence mechanisms were put in place to improve worker rights, by establishing clear, fair contracts that meet VIVE programme requirements. Another VIVE participant has plugged gaps in its employee contracts by updating them to include monthly payment terms.

Child labour

A VIVE refinery participant did not state the minimum age of hiring to be 18 in its prevention of child labour policy. Positively, no incidents of child labour were found at the facility; the policy and its implementation has since been tightened and will be reviewed at the next assessment.

Workplace noise

In response to the identification of a workplace noise issue, hearing protection that meets noise reduction rating (NRR) standards has been provided. As a next step, the participant has been encouraged to resolve noise issues at source, and to use personal protective equipment as a last resort.

Training, handling and personal protective equipment

To improve on-farm handling, storage and use of agrochemicals, one VIVE participant set up personal protective equipment (PPE) training, and introduced a plan to increase future use of PPE. At another participant's site, footwear was provided for employees working in the chemical storage area to improve health and safety.

GOVERNANCE IMPROVEMENTS



Environmental risk mitigation and reduction

Information on water management, soil management, pollution control, fuel efficiency, GHG reduction, biodiversity and new farmland was not accounted for by one VIVE participant. The remediation process led to a risk assessment which included process analysis, resource identification and impact, and a full environmental impact assessment. Actions plans for the missing assessment areas were identified, with timelines and targets set for risk mitigation and reduction.

Risk assessment and monitoring

A VIVE mill tackled potential risks associated with agrochemicals and fertilisers by undertaking an assessment of farming activities led by a safety professional, and implementing an improvement plan, including a risk monitoring checklist.



Easing the burden through technology

Our aim is to make it as easy as possible for VIVE participants and partners to automate ‘back-end’ processes so they can focus efforts and resources on continuous improvement. At VIVE, we continue to research and invest in leading-edge technology to benefit the VIVE programme.

ONLINE MASS BALANCE TRACKING SYSTEM



Our ultimate ambition is that every single crop and product that passes through VIVE supply chains is included in the VIVE programme. In reality it will take time to achieve this goal, so until then we operate a mass balance and product traceability system which we are automating.

Mass balance methodology allows VIVE products to be physically comingled with non-VIVE products to meet the same specification. However, VIVE tonnage must be tracked in a separate administrative process to ensure there is no inadvertent over-claiming of tonnage assigned to VIVE products. For each VIVE module, mass balance mechanisms are carefully detailed, and compliance with VIVE’s strict mass balance rules is mandatory.

These provide additional checks and balances by defining the exact quantities of unprocessed crops that may be assigned to finished products, restricting products to single supply chain steps, preventing short administrative positions from being taken and mandating timely audits of physical and administrative VIVE mass balance stocks.

To help VIVE participants keep track of their mass balance and to promote supply chain transparency and

traceability, VIVE has created a ‘live’ online mass balance system – managed by CZ – which automatically updates movements of VIVE-assigned products around the world. It can also track: product assessment dates, VIVE verification expiry dates, tonnages, product type, counterparties involved, port entries, carriers and planned destinations.

An amalgamation of this data enables the VIVE team to track in its entirety the tonnage, location and shelf-life of unprocessed and processed VIVE-verified product at any given time.

Looking for sustainable solutions? Get in touch.



VIVE is jointly owned by CZ and Intellync.

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CZ is a supply chain services company operating in the sugar, food and beverage, energy and packaging industries. With over 160 years of experience in the sugar market, it brings a wealth of experience to VIVE. CZ operates from 11 global offices, is represented in another five countries, and employees around 230 people.

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Intellync is part of AB Agri Ltd, the agricultural division of Associated British Foods PLC, a diversified international food, ingredients and retail group operating in 53 countries, and a FTSE 100 company listed on the London Stock Exchange.

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