



Supporting the Sustainability goals of the Food & Beverage industry

Building a sustainable, resilient and credible Value Chain with EcoStruxure for Food & Beverage

Life Is On

Schneider
Electric



**Our mission is to be
your digital partner for Sustainability and Efficiency**



**Rethinking next generation industries:
business resilience and sustainability performance
for lifecycle integrated management**

We help on every step of the value chain

Efficient facilities

Safer, more available,
and greener resources

Agile manufacturing

Boost manufacturing
flexibility & efficiency

Resilient supply chain

Manage complexity and
improve visibility

... enabled by transversal digital transformation capabilities

Food Safety & Traceability

Ensure compliance and increase trust across the whole value chain

Energy & Sustainability

Reduce environmental footprint and meet sustainability goals

Asset Performance

Maximize return on asset investment

Workforce Empowerment

Take teams efficiency to the next level

Digital Engineering

Cut time, cost and risks of capital project engineering

**Empower all to make the most of
our energy and resources, bridging
progress and sustainability for all.**

Our difference

**Leading
by example in
our ecosystem**



**Being part of
the solution for
our customers**



Most Sustainable Corporations in the World

GLOBAL100

#1

Our journey to making a better world

Sustainability everywhere

SCHNEIDER
SUSTAINABILITY
IMPACT

Our DNA

MEANINGFUL INCLUSIVE EMPOWERED

Our business

EcoStruxure, Green Premium, Energy and Sustainability Services

Our incentives

Sustainability components incorporated since 2011 (STIP)

Our commitments

Schneider Sustainability Impact program

Our journey to making a better world

2018-2050 engagements

2018
-'20

Design New *Principles of Responsibility*

SCHNEIDER
SUSTAINABILITY
IMPACT

FRENCH BUSINESS CLIMATE PLEDGE
LES ENTREPRISES FRANCAISES S'ENGAGENT POUR LE CLIMAT !

act4nature

BUSINESS AMBITION FOR **1.5°C**   OUR ONLY FUTURE

2025



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

SCIENCE
BASED
TARGETS

- **Carbon neutrality**
- Phase out SF₆
- Invest €10bn in R&D
- Train 1m people
- Energy access 50m people
- Support 10,000 entrepreneurs

2030

SUSTAINABLE DEVELOPMENT GOALS

- **Sc 1+2 – Net-zero**
- **Sc 3 – -35%**
- 100% renewable electricity
- 2x energy productivity (vs 2005)
- 100% EV

RE 100 EP 100 EV 100
by THE CLIMATE GROUP

2050



Global Compact
LEAD

Net-zero supply chain

2020, a historical year for ESG rankings and awards

#1 Most Sustainable Corporation + SSERI = 100%



10th year in a row

(obtained by 271 companies among 9,500+ participants)



10th year in a row

(only competitor with same rating is Vestas)



#1/26 in industry



#1st among peers with \$37.3-\$70.8 bn billion market cap,
2/159 in the industry group (Low Risk)



Platinum rating, Top 1% among 50,000 companies assessed



#2 in industry after Siemens Gamesa, Member of the Euronext Vigeo Eiris World 120, Europe 120, Eurozone 120 and France 20 indices.



#1 most sustainable corporation

100 MtCO₂ saved for our customers (2018-2020)

A unique methodology, designed to become an industry standard

Our ambition is to prove **‘More
Schneider is a better climate’**:

120 MTCO₂
saved through our
EcoStruxure offers
from 2018 to 2020

Customers are increasingly taking C-level commitments on climate; energy and CO₂ efficiency are becoming a business differentiator

In 2018, we launched a new indicator in **Schneider Sustainability Impact** to quantify CO₂ savings delivered to our customers

This **innovative** methodology is **rigorous, conservative and transparent** ; it is designed to become an industry standard



6 long-term commitments

- 1. Act for a **climate** positive world**
by continuously investing in and developing innovative solutions that deliver immediate and lasting decarbonization in line with our Carbon pledge.
- 2. Be efficient with **resources****
by behaving responsibly and making the most of digital technology to preserve our planet.
- 3. Live up to our Principles of **trust****
by upholding ourselves and all around us to high social, governance and ethical standards.
- 4. Create **equal** opportunities**
by ensuring all employees are uniquely valued and work in an inclusive environment to develop and contribute their best.
- 5. Harness the power of all **generations****
by fostering learning, upskilling and development for each generation, paving the way for the next.
- 6. Empower **local** communities**
by promoting local initiatives and enabling individuals and partners to make sustainability a reality for all.



6 long-term commitments 11 + 1 targets for 2021 – 2025



CLIMATE

- 1 Grow our **green revenues to 80%**
- 2 Deliver **800 million tons of saved and avoided CO₂ emissions** to our customers
- 3 Reduce **CO₂ emissions from top 1000 suppliers' operations** by 50%



RESOURCES

- 4 Increase **green material content** in our products **to 50%**
- 5 100% of our primary and secondary **packaging** is **free from single-use plastic** and uses **recycled cardboard**



TRUST

- 6 **100%** of our **strategic suppliers** provide **decent work** to their employees
- 7 Measure the **level of confidence** of our employees to report behaviors against our Principles of Trust



EQUAL

- 8 Increase **gender diversity**, from **hiring** to **front-line managers** and **leadership** teams **(50/40/30)**
- 9 Provide **access to green electricity to 50 million people**



GENERATIONS

- 10 **Create opportunities for the next generation** – 2X number of opportunities for interns, apprentices, and fresh graduate hires
- 11 **Train 1 million underprivileged people** in energy management



LOCAL

- +1** 100% of Country and Zone Presidents define **3 local commitments** that impact their communities in line with our sustainability transformations

Watch the new sustainability video



empower all to make the most of our energy and resources

Watch the video

An aerial photograph of a wind farm at sunset. The sun is low on the horizon, casting a warm, golden glow over the landscape. Several wind turbines are visible, with the one in the foreground being the most prominent. The turbines have white towers and blades with red and blue accents. The ground is a mix of green fields and brown earth, with a road or path winding through the landscape. The sky is filled with soft, wispy clouds.

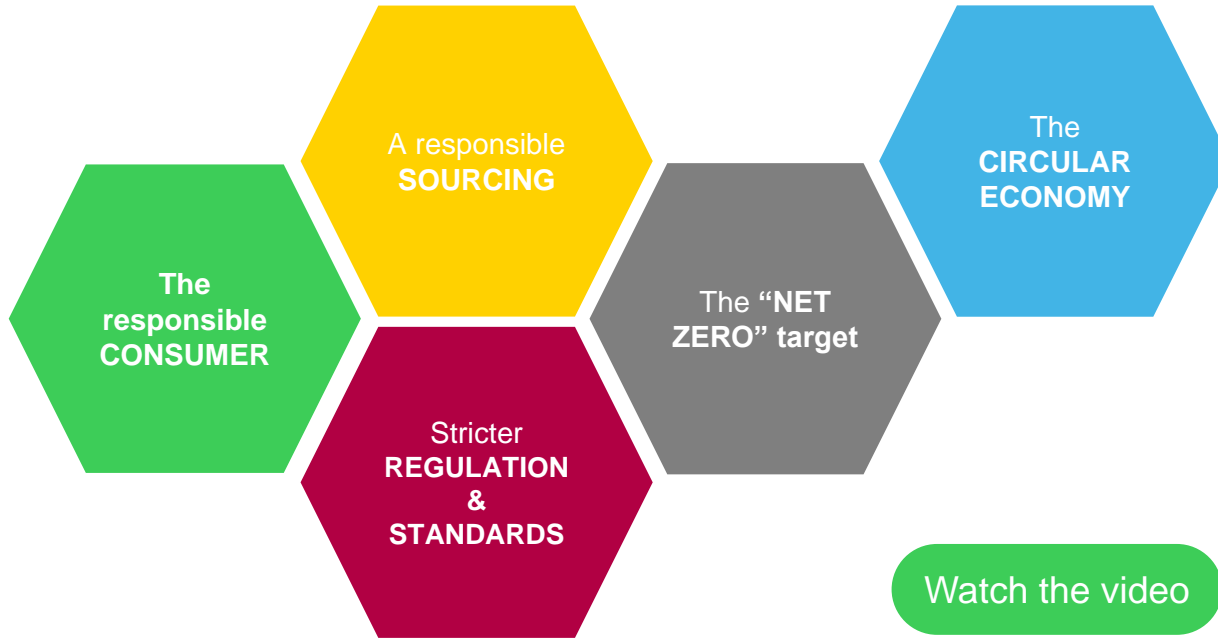
The Food & Beverage Ecosystem Reality

Market Outlook and Manufacturers' Challenges

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The Food & Beverage Ecosystem Reality



“ We urgently need to change the way we produce and consume food so we can feed everyone in the world while raising incomes, improving health and nutrition and protecting the planet. ”

Laura Tuck Vice-President,
Sustainable Development,
The World Bank

Climate Change listed now as
Top 10
Business risk

Nearly
one-third
of the food produced
each year is uneaten

Watch the video

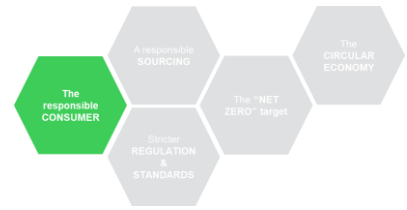
Learn more

Sources:

- [Allianz Risk Barometer 2020](#);
- [Which50, 2020](#);
- [Incentivizing Food Systems Transformation, WEF, Jan 2020](#)
- Schneider Electric Perspectives, 2020.
- [Food industry failing to address supply chain emissions: 'Engagement is relatively shallow, Food Navigator, Dec 2020](#)

The Food & Beverage Ecosystem Reality

End-consumers turn to more sustainable brands



Market Outlook

- End consumers asking for more information on «how sustainable brands and products are».
- CSR = key market differentiator for businesses as more consumers look to purchase products from companies that «act responsibly»

Manufacturers' Challenges

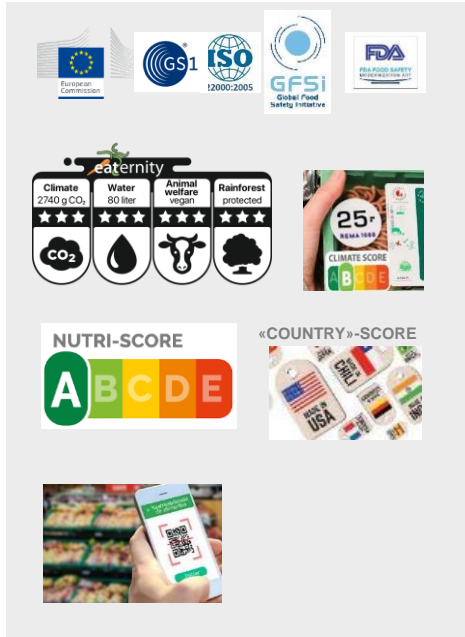
- Prove with real tangible results the achievements of the brand commitments
- As sustainability is directly linked to End-to-End traceability, gain more insights, to design and improve operating practices to build a **sustainable and credible supply chain** from source to store



Source: [IBM Research Insights, May 2020](#)

The Food & Beverage Ecosystem Reality

More complex and stricter regulation & standards, accelerated by the COVID-19 pandemic



Market Outlook

- EU Green Deal – Farm to Fork Strategy for a healthier and more sustainable EU food system
- ISO 20400 - world's first international standard for sustainable procurement
- Towards a mandatory EU system of due diligence for supply chains
- Evolving labeling rules (e.g. Nutriscore, Country-score, climate/eco/carbon score, Animal welfare,.....)

Manufacturers' Challenges

- Integrate a “holistic” sustainability approach into procurement
- Deal with all different regulations & standard requirements in different countries
- Engage the entire ecosystem



“At the heart of the Green Deal the Biodiversity and Farm to Fork strategies point to a new and better balance of nature, food systems and biodiversity; to protect our people’s health and well-being, and at the same time to increase the EU’s competitiveness and resilience.”

Frans Timmermans, Executive Vice-President of the European Commission

Sources:

- [EITfood, 2020; From Farm to Fork Strategy, 2020](#)
- [EU Green Deal/Farm to Fork, 2020](#)

The Food & Beverage Ecosystem Reality

Supply Chain credibility and responsible sourcing



MEMBER OF
Dow Jones Sustainability Indices
In collaboration with **SAM**

Certified
B
Corporation

SUSTAINABLE DEVELOPMENT GOALS

WORLD ECONOMIC FORUM

“Supply chain improvements, like traceability, contribute to the advancement of the Sustainable Development Goals (SDGs).”

Market Outlook

- Increasing number of Indexes and Standards: Dow Jones Sustainability Index, B-Corp certification for Sustainable Sourcing & ISO 20400 for Sustainable Procurement
- Investors are starting to link sustainability to Valuation: social responsibility, sustainability, product origin, ethical trading, animal welfare

Manufacturer's Challenges

- Gain more insights on the full supplier's network
- Engage and onboard the entire suppliers' ecosystem into the journey

Sources:

- [Gartner on sustainability in supply chain; Lumina intelligence report, 2020](#);
- [Innovation with a Purpose: Improving Traceability in Food Value Chains through Technology Innovations, 2019, World Economic Forum in collaboration with McKinsey](#)
- [Sustainable Supply Chain Initiative \(Consumer Goods Forum\)](#)
- [Due diligence, Modern Slavery Act](#)

90%

of all disclosed emissions in the food sector come from supply chains

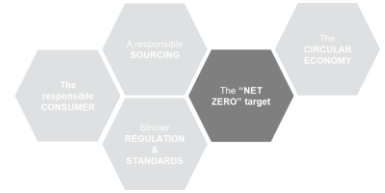
Total global GHG emissions directly related to agricultural production

24%

Learn more

The Food & Beverage Ecosystem Reality

“Net Zero” target and carbon neutral commitments

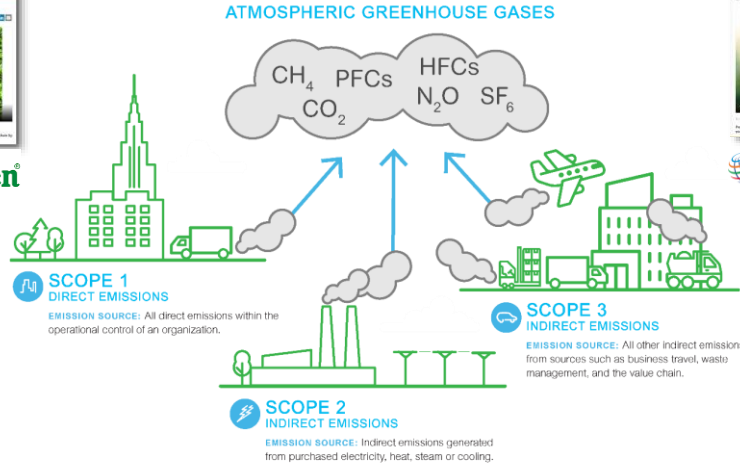


Only **16%** of food companies have targets that address supplier emissions

79% consumers include sustainable packaging in their purchasing decisions (83% in Millennials)

Sources:

- Perspectives [Carbon neutrality](#)
- [EITfood, 2020](#);
- [CDP Global Supply Chain Report 2020, Feb 2021](#)
- [Crippa, M., Solazzo, E., Guizzardi, D. et al. Food systems are responsible for a third of global anthropogenic GHG emissions. Nat Food](#)



The Food & Beverage Ecosystem Reality

The product life cycle End-to-End

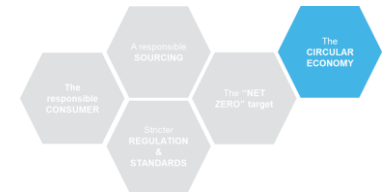


Market Outlook

- Plastic Packaging contributes around 1.8 Billion tonnes of carbon emissions!
- Food Waste: more than 30% of all food produced is thrown away!
- **Green and Digital product passport** with standardized and trustworthy information on the circularity of a product

Manufacturer's Challenges

- Engage a complex ecosystem to manage End-to-End product life cycle: from agriculture to packaging recycling
- No standardized information flow
- Information unavailable, confidential or lost



“
Traceability and transparency are crucial to getting a clear understanding of the environmental impact of a company's supply chain.”

Dexter Galvin, Global Director of Corporations & Supply Chains at CDP



Sources:

- [IBM Research Insights, May 2020](#)
- [Circularity datasheet, Luxembourg](#)
- [4 lessons from nature to build a circular economy](#), WE Forum
- [This is how social innovators are leading the race to zero emissions](#), WE Forum
- [How Food & Drink businesses are creating a circular economy](#), April 2021

The Food & Beverage Ecosystem Reality

How to build a more sustainable Value Chain?



Digital Technologies are the most robust solution to the recovery and transformation of the food system in order to build a **resilient, credible and sustainable Supply Chain**

“New technologies are creating a more diverse food ecosystem. This ranges from new food manufacturers to the rise of technology enabled platforms which connect food businesses to consumers, and online-only players offering convenient food at lower prices”



Sources:

- [Incentivizing Food Systems Transformation, 2020](#)
- [2020 Digital supply chain survey- Grant Thornton](#)

Reduce your environmental footprint and meet your sustainability goals



End to End Decarbonization

Tackle your energy challenges by creating an optimized way to access reliable, green, and resilient energy. Reduce GHG emission, scope 1, 2, 3 to address climate change

Towards **Net Zero emissions**



Efficient and sustainable operations

Meet your energy and sustainability goals and reduce costs with smart energy, water and waste management at your facilities

Up to **30%** energy cost reduction



Minimize footprint on environment

Reduce impact on the planet by helping farmers improving productivity and better managing the usage of resources. Protect agriculture and ecosystems.

For a **better future** from agriculture to packaging



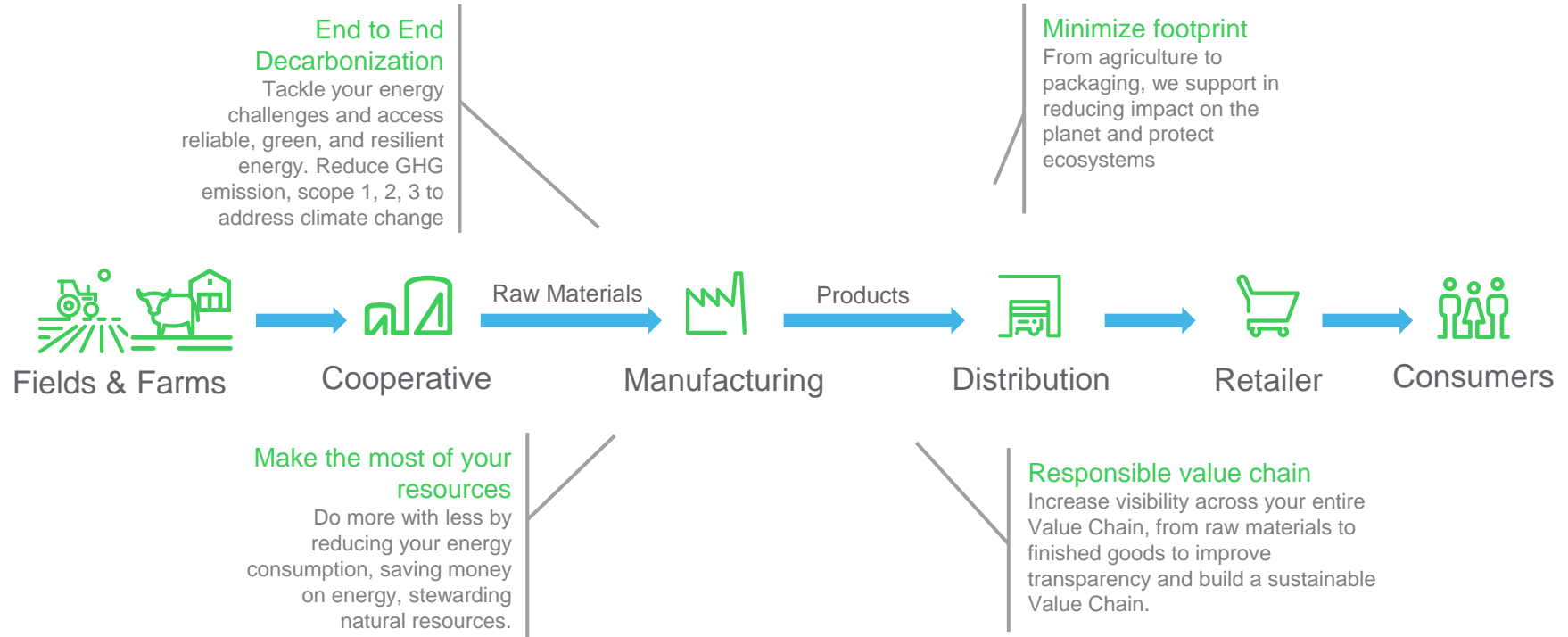
Responsible Value Chain, end to end

Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and build a sustainable Value Chain.

Build a **sustainable** Value Chain

Energy & Sustainability

Reduce your environmental footprint and meet your sustainability goals



Reduce your environmental footprint and meet your sustainability goals

Let's engage in this journey!

- Towards **Net Zero**
- **Doing more with less**
- **Minimizing impact on environment** from agriculture to packaging
- Building a **responsible and sustainable Value Chain**, end to end
- Communicating sustainability goals, projects and achievements with all company **stakeholders**.



Up to **50%**
energy cost savings

Up to **-5%**
of OpEx savings

Up to **40%**
CO₂ footprint reduction.

Reduce your environmental footprint and meet your sustainability goals



End to End Decarbonization

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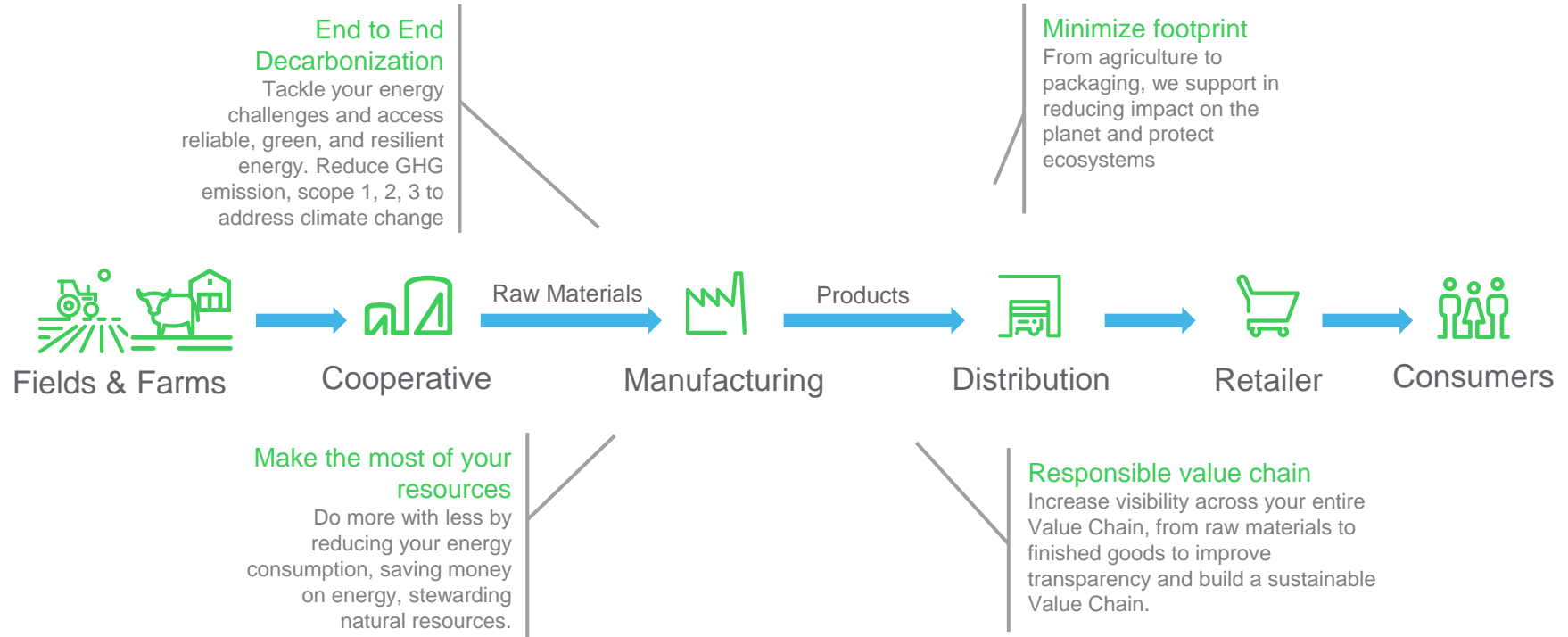
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Energy & Sustainability

Reduce your environmental footprint and meet your sustainability goals



EcoStruxure for Food & Beverage / CPG

Agile manufacturing
Boost manufacturing flexibility and efficiency

- Manufacturing Operation Management
- Industrial Information Management
- Process Control System
- HMI and data Integration
- Process Automation
- Packaging Automation

Efficient facilities
Safer, more available, and greener resources

- Smart Building Management
- Power Safety & Availability
- Power Quality & efficiency
- Renewable Energy & Microgrids
- IT Infrastructure Management

Resilient supply chain
Manage complexity and reduce logistics costs

- Agriculture Efficiency & Sustainability
- Suppliers Management
- Supply Chain Optimization
- Cold Chain Monitoring
- Product Information Management

Food Safety & Traceability Ensure compliance and trust across the product life cycle	Energy & Sustainability Reduce footprint and meet sustainability goals	Asset Performance Maximize return on capital expenditure	Workforce Empowerment Improve staff knowledge, productivity and collaboration	Digital Engineering Cut time, cost and risks of capital project engineering
Food Defense	Sustainability Consulting	Assessment and Consulting	Operator Training Simulator	Electrical CAD
Cybersecurity Services	Energy Demand Services	Enterprise Asset Management	Augmented & Virtual Reality	Building Information Modelling
Digital Calibration	Strategic Energy Sourcing	Condition Monitoring	Workflow Management	Integrated Engineering-Design
Raw material traceability	Enterprise data management	Predictive Analytics	Staff Schedule Management	Digital Asset Visualization
Production traceability	Energy as a Service	Line & Process Optimization	Operator Knowledge Sharing	
Product Identification & Tracking		Modernization services		

Let's talk about

EcoEtruxure™

Innovation At Every Level

for Food & Beverage

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