TRANSFORM YOUR BUSINESS SUSTAINABLY
TRANSFORM YOUR BUSINESS SUSTAINABLY

Which of the below is the biggest sustainability challenge or opportunity for your business today? Click to explore how we can help:

- **REFINE YOUR OPERATIONS SUSTAINABLY**
  Reduce energy, waste and your carbon footprint by driving efficiencies throughout your production and supply chain.

- **MEET YOUR SUSTAINABILITY TARGETS**
  Navigate regulatory requirements and strive to push beyond your environmental and climate goals.

- **PIONEER SUSTAINABLE INNOVATION**
  Leverage consumer environmental demands with sustainable packaging and product innovation.

- **BUILD A SUSTAINABLE REPUTATION**
  Gain a competitive edge and demonstrate your sustainability leadership through environmental branding.
REFINE YOUR OPERATIONS SUSTAINABLY
Reduce energy, waste, and your carbon footprint by driving efficiencies throughout your production and supply chain

WHERE DO YOU NEED SUPPORT?
Click to explore how we can help:

- **REDUCE RESOURCE USE**
  Reduce water and energy consumption with advanced automation, processing solutions, and smart services

- **REDUCE FOOD WASTE**
  Reduce food waste with smart packaging and highly precise and efficient technology and equipment

- **IMPROVE PRODUCT YIELD**
  Advanced insights and equipment help you get more from your raw material

- **WHOLE SUPPLY CHAIN IMPROVEMENT**
  Take a holistic overview to identify opportunities to improve efficiency

- **LIGHTER LOGISTICS**
  Lightweight packaging optimized for transport, distribution and space efficiency

- **IMPROVE PRODUCTION EFFICIENCY**
  Produce more with less through highly efficient operations and advanced automation

**FIND OUT MORE**
Contact your account manager or email us: environmentaloffer@tetrapak.com
REFINE YOUR OPERATIONS SUSTAINABLY

REDUCE RESOURCE USE - Reduce water and energy consumption with advanced automation, processing solutions, and smart services

EXAMPLES OF HOW WE CAN HELP YOU REDUCE RESOURCE USE

+ Tetra Pak® Separators with Encapt™ technology
  Our AirTight technology means more than 20% less energy consumption. Adding Encapt™ technology can cut that by up to a further 20% compared to other separators.

+ Juice, Nectar, Still Drinks Line Architecture
  Reduces overall energy costs by about 67% and water used in cleaning in place and sterilization in place by about 50%.

+ Tetra Pak® High Shear Mixer
  Vacuum system consumes 20% less water and 30% less energy than competing models.

+ Tetra Pak® PlantMaster
  Reduce time losses, downtime and waste to cut operational costs and environmental impact.

+ Water and Chemical Recovery Systems
  Reduce overall energy costs by about 67% and water used in cleaning in place and sterilization in place by about 50%.

+ eBeam technology
  In field tests, eBeam has delivered energy savings of up to one third by eliminating the need to heat and dry hydrogen peroxide.

+ Environmental Opportunity Analysis
  Savings in customer case: 3.5 tons CO₂ (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.

+ Homogenization
  Patented design uses up to 30% lower pressure and 30% lower energy consumption with consistently high product quality compared to traditional homogenizers.

+ One Step technology
  Cuts down the number of processing steps in the dairy, thereby reducing your operational costs by 30–50%.

+ CIP optimisation
  Minimises water and detergent consumption and saves time.

+ Tetra Pak® Tubular Heat Exchanger
  50% more energy-efficient compared to product-to-water alternatives.

+ Inline blending with carbonization
  Reduces water consumption.

+ Coiled Heat Exchanger
  Cut energy consumption by up to 47%.

+ Dry Lubrication
  An improved environmental footprint, saving an average of 35,000 litres of water per filling line each year and reduced electricity costs compared to wet lubrication.

PROOF AT A GLANCE:

<table>
<thead>
<tr>
<th>TETRA PAK® SEPARATORS WITH ENCAP™ TECHNOLOGY</th>
<th>JUICE, NECTAR, STILL DRINKS LINE ARCHITECTURE</th>
<th>TETRA PAK® HIGH SHEAR MIXER</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% More than 20% less energy consumption</td>
<td>67% Reduction in energy costs</td>
<td>50% Less water than competing models</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TETRA PAK® PLANTMASTER</th>
<th>WATER AND CHEMICAL RECOVERY SYSTEMS</th>
<th>EBEAM TECHNOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>90% Reduce time losses, downtime and waste</td>
<td>1/3 Up to 90% regeneration of spent lye</td>
<td>1/3 Up to 1/3 energy savings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL OPPORTUNITY ANALYSIS</th>
<th>HOMOGENIZATION</th>
<th>ONE STEP TECHNOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>30% 20% reduction in CO₂ in customer case</td>
<td>30% 30% lower pressure and 30% lower energy consumption</td>
<td>30-50% Reduction in operational costs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CIP OPTIMISATION</th>
<th>TETRA PAK® TUBULAR HEAT EXCHANGER</th>
<th>INLINE BLENDING WITH CARBONIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% Minimises water and detergent consumption and saves time</td>
<td>47% More Energy-Efficient</td>
<td>35,000 Litres of water per filling line saved each year</td>
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<table>
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<th>COILED HEAT EXCHANGER</th>
<th>DRY LUBRICATION</th>
</tr>
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<tbody>
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<td>47% Up to 47% reduced</td>
<td>35,000 litres of water per filling line saved each year</td>
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REFINE YOUR OPERATIONS SUSTAINABLY
REDUCE FOOD WASTE - Reduce food waste with smart packaging and highly precise and efficient technology and equipment

EXAMPLES OF HOW WE CAN HELP YOU REDUCE FOOD WASTE

+ Tetra Pak® PlantMaster Production Control
  Reduce time losses, downtime and waste to cut operational costs and environmental impact.

+ Aseptic dosing for beverages
  Much less hardware needed for the in-line solution: no need for a thermizer/pasteurizer and no need for the intermediate storage tanks.

+ Aseptic packaging
  Our aseptic processes allow liquid food to retain colour, texture, natural taste and nutritional value for up to 12 months, without the need for preservatives or refrigeration.

+ Tetra Pak® Ice Cream Filler A3
  Saves up to 9 kilograms of chocolate per hour.

+ Tetra Pak® Extrusion Wheel
  Accurate placement on tray enables 98% line yield and eliminates labour costs for monitoring and product adjustment.

+ Environmental Opportunity Analysis
  Savings in customer case: 3.3 tonnes CO₂ (30% reduction) and 2.7 M litres water (30% reduction) 0.5 M€.

+ Tetra Recart®
  Tetra Recart® carton packages are a more environmentally sound alternative to steel cans and glass jars.

+ Tetra Pak® In-line Blender B
  Multiple recovery system minimizes product waste.

+ One Step technology
  Reduces production losses by as much as a third.

PROOF AT A GLANCE:

- **TETRA PAK® PLANTMASTER PRODUCTION CONTROL**
  Reduce time losses, downtime and waste

- **ASEPTIC DOSING FOR BEVERAGES**
  Much less hardware needed for the in-line solution

- **ASEPTIC PACKAGING**
  Up to 12 months without refrigeration

- **TETRA PAK® ICE CREAM FILLER A3**
  Saves up to 9 kilograms of chocolate per hour

- **TETRA PAK® EXTRUSION WHEEL**
  Line yield

- **TETRA PAK® IN-LINE BLENDER B**
  Better alternative to cans and glass jars

- **TETRA RECART®**
  Minimizes product waste

- **ONE STEP TECHNOLOGY**
  Reduction in production losses

- **ENVIRONMENTAL OPPORTUNITY ANALYSIS**
  20% reduction in CO₂ in customer case

- **12m**
  CO₂ savings in customer case: 3.3 tonnes (30% reduction)
REFINE YOUR OPERATIONS SUSTAINABLY

IMPROVE PRODUCT YIELD - Advanced insights and equipment help you get more from your raw material

EXAMPLES OF HOW WE CAN HELP YOU IMPROVE PRODUCT YIELD

- **Standardization**
  Minimize cream giveaway with world-class precision.

- **Environmental Opportunity Analysis**
  Savings in customer case: 3.5 tons CO₂ (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.

- **Tetra Pak® PlantMaster Batch and Recipe Execution**
  Secure consistent product quality and full control of food safety.

- **Aseptic dosing for beverages**
  Much less hardware needed for the in-line solution: no need for a thermizer/pasteurizer and no need for the intermediate storage tanks.

- **Tetra Pak® Ice Cream Filler A3**
  Saves up to 9 kilograms of chocolate per hour.

- **Tetra Pak® Extrusion Wheel**
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**Proof At A Glance:**

- **Standardization**
  Minimize cream giveaway with world-class precision.

- **Environmental Opportunity Analysis**
  20% reduction in CO₂ in customer case

- **Tetra Pak® PlantMaster Batch and Recipe Execution**
  Secure consistent product quality

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  Much less hardware needed for the in-line solution

- **Tetra Pak® Ice Cream Filler A3**
  Saves up to 9 kilograms of chocolate per hour

- **Tetra Pak® Extrusion Wheel**
  98% Line yield
REFINE YOUR OPERATIONS SUSTAINABLY

WHOLE SUPPLY CHAIN IMPROVEMENT - Take a holistic overview and identify risks and opportunities to improve efficiency

EXAMPLES OF HOW WE CAN HELP YOU WITH WHOLE SUPPLY CHAIN IMPROVEMENT

- Remote support with experts on demand
  24/7 remote support, continuous troubleshooting, and life cycle support for uninterrupted production.

- Tetra Pak® PlantMaster
  Create full end-to-end traceability from raw material to consumer.

- Tetra Pak® Line Controller
  Handles the configuration of the entire line and controls it during production. Also serves as the integrating point of single lines into plant automation systems.

- Environmental Opportunity Analysis
  Savings in customer case: 3.2 tons CO₂ (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.

- Production and distribution simulations
  Planning can be improved by using advanced simulation tools, integrating plans across the entire organisation and by connecting the manufacturer’s systems with their customers’ and suppliers’ networks.

- Connected Package Platform
  Track and trace the history and location of any product, making it possible to monitor for market performance and any potential issues.

PROOF AT A GLANCE:

- Remote support with experts on demand
  24/7 remote support

- Tetra Pak® PlantMaster
  Create full end-to-end traceability

- Tetra Pak® Line Controller
  Integrate lines into plant automation systems

- Environmental Opportunity Analysis
  20% reduction in CO₂ in customer case

- Production and distribution simulations
  Connect manufacturer systems with customer and supplier networks

- Connected Package Platform
  Track and trace the history and location of any product
REFINE YOUR OPERATIONS SUSTAINABLY

LIGHTER LOGISTICS - Lightweight packaging optimized for transport, distribution and space efficiency

EXAMPLES OF HOW WE CAN HELP YOU WITH LIGHTER LOGISTICS

+ Tetra Brik® Aseptic 1000 Ultra Edge
  Using no unnecessary material, weight, space or energy, its rectangular package shape stacks neatly. Tetra Brik® Aseptic 1000 Ultra Edge package enabled up to 25% more packages per pallet (compared to TBA 1000 Slim as a benchmark).

+ Lightweight packaging portfolio
  Our packages are made with lighter but robust materials, to keep protecting what’s good for you and for the planet.

+ Tetra Recart®
  Pallet efficiency, shelf space efficiency, transport efficiency, lightweighting, flat inbound shipping, resilient.

PROOF AT A GLANCE:

<table>
<thead>
<tr>
<th>TETRA BRIK® ASEPTIC 1000 ULTRA EDGE</th>
<th>LIGHTWEIGHT PACKAGING PORTFOLIO</th>
<th>TETRA RECARD®</th>
</tr>
</thead>
<tbody>
<tr>
<td>25%</td>
<td>Made with lighter but robust materials</td>
<td>Efficient, lightweight, and brilliant</td>
</tr>
</tbody>
</table>

More packages per pallet
REFINE YOUR OPERATIONS SUSTAINABLY

IMPROVE PRODUCTION EFFICIENCY - Produce more with less through highly efficient operations and advanced automation

EXAMPLES OF HOW WE CAN HELP YOU IMPROVE PRODUCTION EFFICIENCY

+ Remote support with experts on demand
  24/7 remote support, continuous troubleshooting, and life cycle support for uninterrupted production.
+ Tetra Pak® PlantMaster
  Get total control of your operations and maximize the value of your production.
+ Tetra Pak® Line Controller
  Handles the configuration of the entire line and controls it during production.
+ Environmental Opportunity Analysis
  Savings in customer case: 3.5 tons CO2 (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.
+ Production and distribution simulations
  Optimize machine settings for the next product run, model different ways to cater for a rush order, and work out the best way to minimize the disruption caused by an unplanned machine stop.
+ Connected Package Platform
  End-to-end traceability to improve production efficiency, increase quality control and transparency.
+ Complete Line Solutions
  When we integrate and manage the whole value chain, we’re able to help you optimise operations to the fullest.
+ Genuine parts from Tetra Pak®
  Tetra Pak® genuine parts are designed and tested for the best performance in the food manufacturing industry. With 500,000 parts available in our assortment, we cover the full need of your equipment. Making sure you have the right parts to remain efficient and safe.

PROOF AT A GLANCE:

- Remote Support with Experts on Demand
- 24/7 remote support
- Tetra Pak® PlantMaster
- Maximizes the value of your production
- Tetra Pak® Line Controller
- Handles the configuration of the entire line
- Environmental Opportunity Analysis
- Reduction in water use in customer case: 30%
- Production and Distribution Simulations
- Optimizes machine settings for the next product run
- Connected Package Platform
- Increase quality control
- Complete Line Solutions
- Optimizes operations to the fullest
- Genuine Parts from Tetra Pak®
- 500,000 parts available in our assortment
MEET YOUR SUSTAINABILITY TARGETS
Navigate regulatory requirements and strive to push beyond your environmental and climate goals

WHERE DO YOU NEED SUPPORT?
Click to explore how we can help:

- **RENEWABLE AND RESPONSIBLE PACKAGING**
  Meet sustainable packaging targets with responsibly-sourced, certified, plant-based packaging

- **REDUCE YOUR CLIMATE IMPACT**
  Reduce your energy and carbon emissions with highly efficient processing, services, and automation solutions

- **SAVE WATER**
  Achieve your water saving targets with advanced insights and solutions

- **PREVENT FOOD WASTE**
  Use advanced processing and packaging solutions throughout your supply chain to reduce food waste

**IMPROVE RECYCLING**
We’re on the road to increasing carton recycling and collection rates around the globe through partnerships and product innovation

**FIND OUT MORE**
Contact your account manager or email us: environmentaloffer@tetrapak.com
# MEET YOUR SUSTAINABILITY TARGETS

## RENEWABLE & RESPONSIBLE PACKAGING – Meet sustainable packaging targets with responsibly-sourced, certified, plant-based packaging

### EXAMPLES OF HOW WE CAN HELP YOU WITH RENEWABLE AND RESPONSIBLE PACKAGING

- **Tetra Rex® Bio-based**
  World's first fully renewable package available globally.

- **Tetra Top® 500 Midi with Bio-based Eifel™ C38 (for water)**
  Up to 74% reduction in CO₂ emissions over the lifecycle compared to its next alternative*.

- **Tetra Brik® Aseptic 1000 Edge with Bio-based LightCap™ 30**
  Up to 23% reduction in CO₂ emissions compared to a standard Tetra Brik® Aseptic package**.

- **Tetra Prisma® Aseptic 1000 Sq Bio-based HeliCap™ 27 featuring Tetra Pak® Craft™**
  Carrying the highest class of certification from TÜV for its use of renewable materials. Add Tetra Pak® Craft plus biobased lamination for an even better environmental profile.

- **Tetra Brik® Aseptic 200 Base with paper straw and Bio-based lamination**
  Increased renewable content and reduced environmental impact, thanks to the use of plant-based polymers in the packaging material, combined with a paper straw.

- **Tetra Recart®**
  Carbon emissions from Tetra Recart® over the lifetime of the package are 81% lower than those of steel cans and glass jars.

- **Third party certifications**
  TÜV Austria, Forest Stewardship Council™, The Carbon Trust, CDP Forest A-List, Bonsucro.

- **Bio-based plastic coating across the portfolio**
  We are the first in the carton packaging industry to use bio-based High Density Poly Ethylene.

### PROOF AT A GLANCE:

<table>
<thead>
<tr>
<th><strong>TETRA REX® BIO-BASED</strong></th>
<th><strong>TETRA TOP® 500 MIDI</strong></th>
<th><strong>TETRA BRIK® ASEPTIC 1000 EDGE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>74%</td>
<td>23%</td>
</tr>
<tr>
<td>World's first fully renewable package</td>
<td>Reduction in CO₂ emissions</td>
<td>Reduction in CO₂ emissions</td>
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<tr>
<th><strong>TETRA PRISMA® ASEPTIC 1000</strong></th>
<th><strong>TETRA BRIK® ASEPTIC 200 BASE</strong></th>
<th><strong>TETRA RECARD®</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3rd</strong></td>
<td><strong>1st</strong></td>
<td><strong>81%</strong></td>
</tr>
<tr>
<td>Party recognitions and certifications</td>
<td>Increased renewable content and reduced environmental impact</td>
<td>Reduction in CO₂ emissions</td>
</tr>
</tbody>
</table>

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* Source: Data is intended as Carbon Footprint Reduction, excluding dLUC Credit, comparing PET bottles with Tetra Top for water with bioHDPE cap and top. Data is sourced from the US LCA by Franklin Associates, a Division of ERG, 2014 and later updated in January 2016. Peer-reviewed study commissioned by Tetra Pak. PET bottle for water: High-weight: 25.1g ; Mid-weight: 18.3g.

** Source: Life Cycle Analysis study conducted by WFL for Nordic and Germany.
PROOF AT A GLANCE:

Tetra Pak® Separators with Encapt™ technology
Our AirTight technology means more than 20% less energy consumption. Adding Encapt™ technology can cut that by up to a further 20% compared to other separators.

Juice, Nectar, Still Drinks Line Architecture
Greatly cut down energy-consuming heat treatments and reduce overall energy costs by about 67%.

Tetra Pak® High Shear Mixer
Vacuum system consumes 70% less energy than competing models.

Tetra Pak® PlantMaster Environmental Report
Reduce time losses, downtime and waste to cut operational costs and environmental impact.

Tetra Brik® Aseptic 1000 Ultra Edge
Using no unnecessary material, weight, space or energy, its rectangular package shape stacks neatly. Tetra Brik® Aseptic 1000 Ultra Edge package enabled up to 25% more packages per pallet (compared to TBA 1000 Slim as a benchmark).

Environmental Opportunity Analysis
Savings in customer case: 3.5 tons CO₂ (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.

Homogenization
Patented design uses up to 30% lower pressure and 30% lower energy consumption with consistently high product quality compared to traditional homogenizers.

Tetra Pak® Tubular Heat Exchanger
50% more energy-efficient compared to product-to-water alternatives.

Tetra Recart®
Carbon emissions from Tetra Recart® over the lifetime of the package are 81% lower than those of steel cans and glass jars.

CIP Optimisation
A juice producer in North America achieved a 20% CO₂ reduction.

Tetra Pak® packaging
On average more than 20 percent of a Tetra Pak® carton by weight is paperboard. We are increasing the use of renewable content in our products to reach the long term ambition to deliver a fully renewable package.

MEET YOUR SUSTAINABILITY TARGETS
REDUCE YOUR CLIMATE IMPACT - Reduce your energy and carbon emissions with highly efficient processing, services, and automation solutions

EXAMPLES OF HOW WE CAN HELP YOU REDUCE YOUR CLIMATE IMPACT

+ Tetra Pak® Separators with Encapt™ technology
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+ Juice, Nectar, Still Drinks Line Architecture
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PROOF AT A GLANCE:

TETRA PAK® SEPARATORS WITH ENCAPT™ TECHNOLOGY
20%
Less energy consumption

JUICE, NECTAR, STILL DRINKS LINE ARCHITECTURE
67%
Up to 67% reduced energy consumption

TETRA PAK® HIGH SHEAR MIXER
70%
Less energy than competing models

TETRA PAK® PLANTMASTER ENVIRONMENTAL REPORT
25%
Reduce time losses, downtime and waste

TETRA BRIK® ASEPTIC 1000 ULTRA EDGE
20%
More packages per pallet

ENVIRONMENTAL OPPORTUNITY ANALYSIS
50%
Lower energy consumption

HOMOGENIZATION
30%
Reduced energy consumption

TETRA PAK® TUBULAR HEAT EXCHANGERS
81%
Reduction in CO₂ emissions

CIP OPTIMISATION
20%
CO₂ reduction

TETRA PAK® PACKAGING
+70%
Of a Tetra Pak® carton is paperboard on average
MEET YOUR SUSTAINABILITY TARGETS

WATER SAVINGS - Achieve your water saving targets with advanced insights and solutions

EXAMPLES OF HOW WE CAN HELP YOU WITH WATER SAVINGS

- Water Filtering Station
  Can help cut the total amount of water used by as much as 95%, supporting sustainability targets while delivering substantial savings on operating costs.
- CIP Optimisation
  A juice producer in North America achieved a 30% reduction in water consumption.
- Customised Water Saving Solutions
  One Egyptian dairy achieved savings of 600,000 litres of water per day.
- Juice, Nectar, Still Drinks Line Architecture
  Reduces water used in cleaning in place and sterilization in place by about 50%.
- Tetra Pak® High Shear Mixer
  Vacuum system consumes 50% less water and 70% less energy than competing models.

PROOF AT A GLANCE:

<table>
<thead>
<tr>
<th>WATER FILTERING STATION</th>
<th>CIP OPTIMISATION</th>
<th>CUSTOMISED WATER SAVING SOLUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>95%</td>
<td>30%</td>
<td>600,000</td>
</tr>
<tr>
<td>Reduced water consumption</td>
<td>Reduced water consumption</td>
<td>Litres of water saved per day</td>
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<th>TETRA PAK® HIGH SHEAR MIXER</th>
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<td>50% Less water than competing models</td>
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MEET YOUR SUSTAINABILITY TARGETS
PREVENT FOOD WASTE - Use advanced processing and packaging solutions throughout your supply chain to reduce food waste

EXAMPLES OF HOW WE CAN HELP YOU PREVENT FOOD WASTE

+ **Product Recovery System**
  No waste of product and short payback period.

+ **Tetra Pak® In-line Blender B**
  Product recovery system minimizes product waste.

+ **Tetra Pak® PlantMaster**
  Secure consistent product quality and full control of food safety.

+ **Aseptic dosing for beverage**
  Much less hardware needed for the in-line solution: no need for a thermizer/pasteurizer and no need for the intermediate storage tanks.

+ **Aseptic packaging**
  Our aseptic processes allow liquid food to retain colour, texture, natural taste and nutritional value for up to 12 months, without the need for preservatives or refrigeration.

+ **Tetra Pak® Ice Cream Filler A3**
  Saves up to 9 kilograms of chocolate per hour.

+ **Tetra Pak® Extrusion Wheel**
  Accurate placement on tray enables line yield and eliminates labour costs for monitoring and product adjustment.

+ **Environmental Opportunity Analysis**
  Savings in customer case: 3.5 tons CO₂ (20% reduction) and 27 M litres water (30% reduction) 0.5 M€.

+ **Tetra Recart®**
  Tetra Recart® carton packages are a more environmentally sound alternative to steel cans and glass jars.

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<th><strong>TETRA PAK® IN-LINE BLENDER B</strong></th>
<th><strong>TETRA PAK® PLANTMASTER</strong></th>
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<td>No waste of product</td>
<td>Minimizes product waste</td>
<td>Full control</td>
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**ASEPTIC DOSING FOR BEVERAGE**

- No need for a thermizer/pasteurizer or storage tanks

**ASEPTIC PACKAGING**

- Up to 12 months without refrigeration
- Saves 9kg chocolate/hr

**ENVIRONMENTAL OPPORTUNITY ANALYSIS**

- 20% reduction in CO₂ in customer case

**TETRA PAK® EXTRUSION WHEEL**

- Accurate placement on tray enables line yield

**TETRA RECART®**

- Environmentally sound alternative to cans and glass jars

**EXAMPLES OF HOW WE CAN HELP YOU**

- **PREVENT FOOD WASTE**

- **MEET YOUR SUSTAINABILITY TARGETS**

PLANET POSITIVE
MAKE A GOOD IMPACT
MEET YOUR SUSTAINABILITY TARGETS

IMPROVE RECYCLING - We’re on the road to increasing carton recycling and collection rates around the globe through partnerships and product innovation.

EXAMPLES OF HOW WE CAN HELP YOU IMPROVE RECYCLING

+ Improving carton recyclability worldwide
  We’re working on everything from consumer awareness, collection and sorting infrastructure, expanding market opportunities for recycled materials and boosting business opportunities for recycling entrepreneurs.

+ Connected Package Platform
  New ways to interact with each other and understand how products are produced, distributed, consumed and recycled.

+ New products with better lifecycle analysis
  The findings of an independent study show that compared to other types of canned food packaging, Tetra Recart® has by far the smallest carbon footprint.

PROOF AT A GLANCE:

IMPROVING CARTON RECYCLABILITY WORLDWIDE
Awareness, collection, market opportunities, collaboration

CONNECTED PACKAGE PLATFORM
Understand how products are recycled

NEW PRODUCTS WITH BETTER LIFECYCLE ANALYSIS
Smallest carbon footprint
PIONEER SUSTAINABLE INNOVATION
Leverage consumer environmental demands with sustainable packaging and product innovation

WHERE DO YOU NEED SUPPORT?
Click to explore how we can help:

- **TAP INTO TRENDS**
  Strengthen your existing product portfolio by tapping into sustainability trends

- **EXPAND YOUR PRODUCT OFFERING**
  Expand your portfolio into growing sustainability-driven markets

- **STAND OUT ON THE SHELF**
  Complement your eco-products with unique and innovative packaging formats

- **INCREASE RENEWABLE CONTENT**
  Complement your eco-products with packages with increased renewable, plant-based materials

- **CERTIFIED SUSTAINABLE PACKAGING**
  Give your new eco-products third party certified & recognized sustainable packaging

- **LEADING THE RECYCLING ROADMAP**
  Partner with the industry leader responsible for expanding carton recycling and collection worldwide

**FIND OUT MORE**
Contact your account manager or email us: environmentaloffer@tetrapak.com
EXAMPLES OF HOW WE CAN HELP YOU TAP INTO TRENDS

+ Product Development Centres
  Located in the US, Sweden, Singapore, China, Japan, India and Brazil, our Product Development Centres (PDC’s) are a great resource for developing into new products and categories.

+ Marketing Services
  Helps brands fast-track food and beverage product innovation.

+ Processing bookstore
  We believe in sharing the unique processing expertise we have accumulated over more than 60 years in the industry.

+ Juice, Nectar, Still Drinks Line Architecture
  Redefining JNSD beverage line architecture with filtration and UV.

+ Complete Line Solutions
  When we integrate and manage the whole value chain, we’re able to help you optimise operations to the fullest.

+ Tetra Pak® Extraction unit
  We have a vast bank of knowledge in soya protein extraction. At the Soya & Tea Centre in Singapore, we share this knowledge with our customers.

+ Production of beverages based on rice, nuts, grains and soybeans
  These are among the fastest growing in many markets today. It means new challenges for the lab, for example when it comes to assessing shelf life stability of these products.

PROOF AT A GLANCE:

PRODUCT DEVELOPMENT CENTRES
Develop into new products and categories

MARKETING SERVICES
Fast-track food and beverage product innovation

PROCESSING BOOKSTORE
60 years of industry expertise

JUICE, NECTAR, STILL DRINKS LINE ARCHITECTURE
Redefining JNSD beverage line architecture

COMPLETE LINE SOLUTIONS
Integrate and manage the whole value chain

TETRA PAK® EXTRACTION UNIT
Vast knowledge in soya protein extraction.

PRODUCTION OF BEVERAGES BASED ON RICE, NUTS, GRAINS & SOYBEANS
Fastest growing in many markets today
PIioneer Sustainable Innovation

Expand Your Product Offering - Expand your portfolio into growing sustainability-driven markets

Examples of How We Can Help You Expand Your Product Offering

- Juice, Nectar, Still Drinks Line Architecture
  Redefining JNSD beverage line architecture with filtration and UV.
- Complete Line Solutions
  When we integrate and manage the whole value chain, we're able to help you optimise operations to the fullest.
- Customized Solutions
  From a best-practice line or from a single equipment module, you get guaranteed performance.
- Product Development Centres
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Proof at a Glance:

- Juice, Nectar, Still Drinks Line Architecture
  Redefining JNSD beverage line architecture
- Complete Line Solutions
  Optimize operations to the fullest
- Customized Solutions
  Guaranteed performance
- Product Development Centres
  Develop into new products and categories
- Marketing Services
  Fast-track food and beverage product innovation
- Processing Bookstore
  60 years of expertise
PIioneer Sustainable Innovation

Stand Out on the shelf - Complement your eco-products with unique and innovative packaging formats.

Examples of how we help you stand out on the shelf:

+ Tetra Rex® Bio-based featuring Tetra Pak® Craft
  World's first fully renewable package available globally.
+ Tetra Top® 500 Midi with Bio-based Eifel™ C38 (for water)
  Up to 74% reduction in CO₂ emissions over the lifecycle compared to its next alternative*.
+ Tetra Brik® Aseptic 1000 Edge with Bio-based LightCap™ 30 featuring Tetra Pak® Craft
  Up to 23% reduction in CO₂ emissions compared to a standard Tetra Brik® Aseptic package**.
+ Tetra Prisma® Aseptic 1000 Sq Bio-based HeliCap™ 27 featuring Tetra Pak® Craft
  Carrying the highest class of certification from TÜV for its use of renewable materials.
  Add Tetra Pak® Craft plus biobased lamination for an even better environmental profile.
+ Tetra Brik® Aseptic 200 Base with paper straw and Bio-based lamination
  Increased renewable content and reduced environmental impact, thanks to the use of plant-based polymers in the packaging material, combined with a paper straw.
+ Tetra Recart®
  Carbon emissions from Tetra Recart® over the lifetime of the package are 81% lower than those of steel cans and glass jars.
+ Tetra Pak® Craft
  Quickly communicates your brand values with this authentic-looking packaging material.

Proof at a glance:

<table>
<thead>
<tr>
<th>Product</th>
<th>1st</th>
<th>74%</th>
<th>23%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetra Rex® Bio-based</td>
<td>World's first fully renewable package</td>
<td>Reduction in CO₂ emissions</td>
<td>Reduction in CO₂ emissions</td>
</tr>
<tr>
<td>Tetra Top® 500 Midi</td>
<td>74%</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>Tetra Recart®</td>
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** Source: Life Cycle Analysis study conducted by W1 2016 for Nordic and Germany.
PIioneer Sustainable Innovation
Increase Renewable Content - Complement your eco-products with packages with increased renewable, plant-based materials.

Examples of How We Can Help You Increase Renewable Content

- Tetra Rex® Bio-based
  World's first fully renewable package available globally.
- Tetra Top® 500 Midi with Bio-based Eifel™ C38 (for water)
  Up to 74% reduction in CO₂ emissions over the lifecycle compared to its next alternative*.
- Tetra Brik® Aseptic 1000 Edge with Bio-based LightCap™ 30
  Up to 23% reduction in CO₂ emissions compared to a standard Tetra Brik® Aseptic package**.
- Tetra Prisma® Aseptic 1000 Sq Bio-based HeliCap™ 27 featuring Tetra Pak® Craft
  Carrying the highest class of certification from TÜV for its use of renewable materials.
  Add Tetra Pak® Craft plus biobased lamination for an even better environmental profile.
- Tetra Brik® Aseptic 200 Base with paper straw and Bio-based lamination
  Increased renewable content and reduced environmental impact, thanks to the use of plant-based polymers in the packaging material, combined with a paper straw.
- Tetra Recart®
  Carbon emissions from Tetra Recart® over the lifetime of the package are 81% lower than those of steel cans and glass jars.

Proof at a Glance:

<table>
<thead>
<tr>
<th>Package</th>
<th>Renewable Content</th>
<th>Reduction in CO₂ emissions</th>
</tr>
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<tbody>
<tr>
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EXAMPLES OF HOW WE CAN HELP YOU WITH CERTIFIED SUSTAINABLE PACKAGING

- Forest Stewardship Council™
  100% of the paperboard in our packages comes from FSC™ certified forests and other controlled sources.
- Bonsucro
  We are members of Bonsucro, the global sugarcane platform.
- TÜV Austria
  Certification body that is world-recognised for assessing the renewable content of packaging products.
- The Carbon Trust
  Use our online Carbon Calculator to calculate the carbon emissions for a Tetra Pak® carton.
- CDP A-List Forests Programme
  During 2019, we were 1 of only 6 companies, from out of total 455 companies, to be identified as a global leader in tackling deforestation in our supply chain.

PROOF AT A GLANCE:

<table>
<thead>
<tr>
<th>Certification Body</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forest Stewardship Council™</td>
<td>100%</td>
</tr>
<tr>
<td>Bonsucro</td>
<td>Members</td>
</tr>
<tr>
<td>TÜV Austria</td>
<td>Renewable content of packaging products</td>
</tr>
<tr>
<td>The Carbon Trust</td>
<td>Calculate the carbon emissions for a Tetra Pak carton</td>
</tr>
<tr>
<td>CDP A-List Forests Programme</td>
<td>1/455</td>
</tr>
</tbody>
</table>

From FSC™ certified forests and other controlled sources

1 of 6 companies, out of 455 total, identified as a global leader in tackling deforestation.
Improving carton recyclability worldwide
We’re working on everything from consumer awareness, collection and sorting infrastructure, expanding market opportunities for recycled materials and boosting business opportunities for recycling entrepreneurs.

Committed to a Low Carbon Circular Economy
We are committed to a low-carbon circular economy in which the entire value chain has minimal climate impact.

Connected Package Platform
New ways to interact with each other and understand how products are produced, distributed, consumed and recycled.
BUILD A SUSTAINABLE REPUTATION
Gain a competitive edge and demonstrate your sustainability leadership through environmental branding

WHERE DO YOU NEED SUPPORT?
Click to explore how we can help:

EXPAND YOUR PRODUCT OFFERING
Expand your portfolio into growing sustainability-driven markets

ENHANCE YOUR SUSTAINABLE PRODUCTS
Showcase your sustainable products in sustainable packages

SUSTAINABLE CONSUMER BRANDING
Appeal to consumers with packaging that’s perceived as more sustainable

ACTIVELY CONTRIBUTE TO THE RECYCLING AGENDA
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+ **Processing bookstore**
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+ **Customized Solutions**
  From a Best-practice line or from a single equipment module, you get guaranteed performance.

+ **Juice, Nectar, Still Drinks Line Architecture**
  Redefining JNSD beverage line architecture with filtration and UV.

+ **Complete Line Solutions**
  When we integrate and manage the whole value chain, we’re able to help you optimise operations to the fullest.

PROOF AT A GLANCE:

- **PRODUCT DEVELOPMENT CENTRES**
  Develop into new products and categories

- **MARKETING SERVICES**
  Fast-track food and beverage product innovation

- **CUSTOMIZED SOLUTIONS**
  You get guaranteed performance

- **JUICE, NECTAR, STILL DRINKS LINE ARCHITECTURE**
  Redefining JNSD beverage line architecture

- **COMPLETE LINE SOLUTIONS**
  We integrate and manage the whole value chain

60 years of industry expertise
BUILD A SUSTAINABLE REPUTATION
ENHANCE YOUR SUSTAINABLE PRODUCTS - Showcase your sustainable products in sustainable packages

EXAMPLES OF HOW WE CAN HELP YOU ENHANCE YOUR SUSTAINABLE PRODUCTS

+ Tetra Rex® Bio-based
  World’s first fully renewable package available globally.
+ Tetra Top® 500 Midi with Bio-based Eifel™ C38 (for water)
  Up to 74% reduction in CO₂ emissions over the lifecycle compared to its next alternative*.
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+ Tetra Prisma® Aseptic 1000 Sq Bio-based HeliCap™ 27 featuring Tetra Pak® Craft
  Carrying the highest class of certification from TÜV for its use of renewable materials.
  Add Tetra Pak® Craft plus biobased lamination for an even better environmental profile.
+ Tetra Brik® Aseptic 200 Base with paper straw and Bio-based lamination
  Increased renewable content and reduced environmental impact, thanks to the use of plant-based polymers in the packaging material, combined with a paper straw.
+ Tetra Recart®
  Carbon emissions from Tetra Recart® over the lifetime of the package are 81% lower than those of steel cans and glass jars.
+ Bio-based caps
  Made from renewable HDPE (High Density Poly Ethylene) derived from sugar cane.
+ Tetra Pak® Craft
  Quickly communicates your brand values with this authentic-looking packaging material.

PROOF AT A GLANCE:

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<tr>
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BUILD A SUSTAINABLE REPUTATION

SUSTAINABLE CONSUMER BRANDING - Appeal to consumers with packaging that’s perceived as more sustainable

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BUILD A SUSTAINABLE REPUTATION

ACTIVELY CONTRIBUTE TO THE RECYCLING AGENDA - Partner with the industry leader responsible for expanding carton recycling and collection worldwide

EXAMPLES OF HOW WE CAN HELP YOU ACTIVELY CONTRIBUTE TO THE RECYCLING AGENDA

+ Improving carton recyclability worldwide
  We’re working on everything from consumer awareness, collection and sorting infrastructure, expanding market opportunities for recycled materials and boosting business opportunities for recycling entrepreneurs.

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  We are committed to a low-carbon circular economy in which the entire value chain has minimal climate impact.

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  New ways to interact with each other and understand how products are produced, distributed, consumed and recycled.

PROOF AT A GLANCE:

- Improving carton recyclability worldwide
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<th>BONSUCRO</th>
<th>TÜV AUSTRIA</th>
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<tbody>
<tr>
<td>100%</td>
<td>We are members of Bonsucro</td>
<td>Renewable content of packaging products</td>
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<td>From FSC™ certified forests and other controlled sources</td>
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<tr>
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<td>CDP A-LIST FORESTS PROGRAMME</td>
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