



# new Climate Savers members





**CLIMATE SAVERS**

碳减排先锋

DEFENSORES DO CLIMA

クライメート・セイバーズ

A WWF GLOBAL INITIATIVE WITH BUSINESS

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## Extending resource efficiency of plant-based foods to the rest of the value chain

Alpro is the pan-European pioneer and market leader in soyfoods, active in the market of plant-based dairy and meat alternatives.



### **How Alpro has promised to fight climate change**

Alpro's Climate Savers commitment is to keep its plants' CO2 emissions by 2013 below 2008 levels, despite an expected one third growth in volumes. This is equivalent to emitting 42.000 tons less CO2 than in a business as usual case.

“Alpro is also committed to evaluating concrete ways to further reduce the emissions which are not under its direct control, such as packaging and transport emissions (so-called indirect or Scope 3 emissions). This will a.o. include a feasibility study on intermodal transport and a pilot case on horizontal logistics collaboration.”

Finally, Alpro will actively promote WWF's Renewable Energy Vision, a.o. by becoming a WWF Clean Energy Ambassador, and leverage the value chain business case, in close collaboration with other Climate Savers companies.

### **Alpro's achievement**

Between 2008 and 2010, absolute CO2 emissions from Alpro's plants decreased by 11%, despite a production volume uplift of more than 11%, resulting in a combined 22% improvement over a 2 year time period, well ahead of the Climate Savers plan.

**“Resource efficiency is at the heart of our company, starting with our plant-based products themselves: They use less land, less water and emit less CO2 than dairy and meat products. Becoming a WWF Climate Savers company reflects our sustainable development commitment to extend our product leadership to the rest of our value chain.” Bernard Deryckere, CEO Alpro**



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## **When people, planet and profit go hand in hand**

Profitable growth and improved environmental performance go hand-in-hand at Alpro, thanks to the commitment and active collaboration of the entire organisation. Over the last years, Alpro has invested more than 4 million euros in close to 30 energy saving and optimisation projects.

## **Mobilising people across the organisation for energy efficiency**

A key success factor in Alpro’s achievements so far has been the active mobilization of the organisation, from top management to workers on the factory floor:

- Alpro’s Executive-level balanced scorecard, includes specific environmental KPIs
- Eco-indicators, including energy consumption, are discussed by the supply chain team regularly
- Energy consumption has become a key evaluation criterium for new investments in production assets

## **How changes in diet can reduce the impact on the environment and lower CO2 emissions**

Alpro produces and commercializes plant-based foods from soy. In addition to health benefits, soy foods have proven (based on in-depth LCA analyses in close collaboration with consultant Ecofys and WWF) to have significant environmental advantages over their reference products meat and dairy:

- One litre of soy drink uses 3 times less land, 2,5 times less water and emits 5 times less CO2 than one litre of cow’s milk
- A soy burger needs 45 times less land, 20 times less water and emits 10 times less CO2 than a beef burger

CO2 savings due to consuming Alpro products rather than similar animal-based products amount to 1.7 million tons over the 2008-2013 period, which is significantly higher than the cumulative CO2 emissions linked to the overall business of Alpro (approximately 0.7 million tons) over the same period.



## Shaping the paper industry

Arjowiggins Graphic delivers the most extensive collection of paper on the European market and has established its position as the must-have reference for both printing and publishing professionals.



Greenfield deinked pulp Mill in France

### **How Arjowiggins Graphic has promised to fight climate change**

Arjowiggins Graphic's Climate Savers commitment is to achieve a 23% reduction of its GHG absolute emissions by 2014 on the basis of 2007 levels while sales volumes are expected to stabilize on that period (a sub-target of 10% reduction for each ton of paper has also been set).

Arjowiggins Graphic will also actively promote WWF's Renewable Energy Vision by supporting a biomass production installation and by encouraging its stakeholders to use recycled paper as part of CO<sub>2</sub> reduction efforts.

Finally, Arjowiggins Graphic will participate in joint advocacy campaigns with WWF regarding EU emissions reduction target, environmental profiling of products as well as positions on wood resource and paper.

### **When a climate policy can go hand in hand with economic constraints**

Arjowiggins Graphic's activity has contracted since 2007 and is now due to stabilize until 2014 (due to the development of digital communication and more recently the economic downturn). This context led the company to re-think its activity towards an innovative and leading business model based on the following:

- 1) High quality recycled paper products manufactured in company owned mill for recycled pulp with 50% of their volume production in 2011 (leader on the European market);



**“Acting as a responsible paper and recycled paper producer, we are focusing day after day on the reduction of our natural resources consumption, on being exemplary in the management of our environmental impact. And we are proudly supporting our stakeholders in achieving their own CSR commitments. Energy efficiency management and greenhouse gas emission reduction are fundamental to our future and fully part of our company strategy. We see the partnership with Climate Savers as a very good opportunity to leverage experience and knowledge with the best in class worldwide companies truly engaged in a low carbon economy.”**

**Agnès ROGER,  
General Director**

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- 2) Innovative solutions to reduce carbon emissions (biomass production, natural binders);
- 3) Increased communication on environmental performance and benefits of products (environmental product declaration based on Life Cycle assessment methodology); and
- 4) The involvement of a range of stakeholders through common projects and advocacy to share expertise.

### **An innovative energy mix**

Arjowiggins Graphic uses biomass composed of forest residues (wood shavings) since 2006 at its Dalum production site in Denmark. This project positively contributes towards GHG emissions reductions. The project replaces the use of natural gas and coal with a reduction of 85% in 2010. Overcapacity is redistributed to the local community (7 000 households deserved in 2010 avoiding fuel energy consumption). It also represents a consistent action regarding logging industry development in Denmark. The model is due to be extended to a production site in France.

### **An innovative virtuous circle of recycling paper**

Arjowiggins Graphic aims to develop recycled paper on applications usually reserved for products based on virgin fibers. The company intends to increase the volume production of recycled paper by 65 000T in 2014 and progressively implementing a substitute for replacing synthetic binders with natural based products (which corresponds to a reduction of 14 245 Tons Eq. CO<sub>2</sub>).

Arjowiggins Graphic is also developing a close loop project named “POP” (Paper office Program) on a larger scale which aims to collect waste paper from users to recycle them in one integrated mill and deliver new paper products to the same customer. In France, only 20% of office paper are collected and recycled so the economic and environmental potential is there.



# ICT driving greenhouse gas abatement across society

KPN is a leading international provider of telecommunications and other ICT services.



## 100% green power

From 2011 KPN is using green power sourced from regional renewable energy facilities for its own electricity consumption in The Netherlands and Belgium.

## How KPN has promised to fight climate change

KPN's Climate Savers commitments include:

- Net zero CO<sub>2</sub> emissions by 2020
- 100% green power
- 20% reduction in energy use in telecommunications network in 2020 compared to 2010
- Promote 'The New Way of Working'

## How KPN plans to do this

KPN is a relatively large electricity consumer, using about 1% of all power generated in the Netherlands. As part of its Climate Savers agreement with WWF KPN committed to switching to 100% 'dark' green power, i.e. electricity generated from sustainable energy sources in the Netherlands, e.g. windpower. KPN also committed to implement technical innovations leading to a 20% reduction in energy consumption by its fixed and mobile infrastructure by 2020 compared to 2010. This means an annual reduction in electricity usage of 130 GWh, which is equivalent to the annual electricity use of the city of Delft, which has 97,000 households.



**“ICT is a key element of the energy efficient society of the future. WWF and KPN are working together to help shape this future. We started within our own operations, because we are convinced that corporate social responsibility will bring lasting business benefits. Given the scale at which we operate, we are able to make a real difference”.**

**Baptiest Coopmans** Board  
Member KPN

### **ICT enabling an energy efficient society**

Globally the ICT sector is responsible for 2% of annual CO<sub>2</sub> emissions, which is about equal to the emissions of the aviation sector. With its Climate Savers commitments KPN aims to inspire its own sector as well as other industries to reduce their energy consumption. KPN will request its suppliers to also switch to renewable energy. KPN will encourage its customers to reduce their energy consumption by using innovative ICT solutions.

### **‘The New Way of Working’ and energy savings**

ICT solutions can drive substantial reduction in energy consumption across society. KPN will develop more initiatives to mainstream ‘the new way of working’. By this KPN means: working whenever and wherever you find suitable. Examples include conference calls, video conferencing and working from home. This may help improve the balance between work and private life and reduce emissions from commuting.

In the coming years KPN will make substantial investments in research of new methods and products to reduce commuting by enabling ‘the new way of working’ across the Netherlands. WWF and KPN will jointly quantify the greenhouse gas savings resulting from ‘the new way of working’ to demonstrate the energy savings potential of this approach for different types of organisations.



# Resolute in Fighting Climate Change

Resolute Forest Products is a global leader in the forest products industry with a diverse range of products, including newsprint, commercial printing papers, market pulp and wood products.



Resolute's Align paper grades have a smaller carbon footprint than the average freesheet paper.

## Resolute has promised to fight climate change

As a global leader in the forest products industry, Resolute Forest Products strengthened its existing commitment to sustainability by joining Climate Savers in November 2011, committing to several ambitious goals, including:

- A 65% reduction in absolute scope 1 and 2 greenhouse gas (GHG) emissions by 2015 vs. a 2000 baseline, which represents an estimated reduction of 7,157,071 tonnes of CO<sub>2</sub>, or the equivalent of taking 1,276,000 cars<sup>1</sup> off the road;
- Full Scope 3 (indirect) GHG emissions reporting by 2015, by implementing the GHG Protocol Corporate Value Chain Accounting and Reporting Standard;
- Working with suppliers and customers to reduce Scope 3 emissions; and
- Supporting WWF's Energy Vision by collaborating on joint advocacy on renewable energy.

## Energy blitzes and investments

To reduce its scope 1 and 2 emissions, Resolute actively seeks out and implements GHG abatement measures, such as improved energy efficiency and switching to lower carbon-emitting energy sources. For example, an energy blitz at one of its mills in 2010 resulted in a 59% absolute reduction of GHG emissions compared to 2008.

## Reducing emissions upstream and downstream

Resolute is working throughout its value chain with suppliers and customers to stimulate broad scope 3 emission reductions, while simultaneously embedding sustainability in its culture.

Resolute will evaluate and prioritize its suppliers for engagement activities and will work with ten of its most significant suppliers by 2015. This will allow the company to:

- Start a climate change dialogue with its suppliers;
- Identify the relevant information that will be required from suppliers to improve Resolute's inventory;
- Find ways to assist and challenge suppliers to develop their own inventory and GHG emissions reduction objectives; and,
- Develop an approach to incorporate this information within Resolute's inventory.

<sup>1</sup> Source: U.S. Environmental Protection Agency <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

**“Resolute wanted to make a bold statement to our employees, our business partners and the market that we take our responsibility for preventing climate change seriously. Delivering on the commitments made through this partnership will be challenging, but will also make us a cleaner and more efficient company – focused on a balanced approach to the environmental, social and economic triple bottom line.”**

**Richard Garneau,  
President and  
Chief Executive Officer**

### **Offering products that have a smaller carbon footprint**

Furthermore, Resolute has committed to working downstream with its customers, encouraging them to reduce their GHG emissions. The Company recently launched the Align™ family of papers and commissioned a full life cycle assessment (LCA) to compare the Align grades to alternative grades on the market.

Results show the Align grades offer a smaller carbon footprint than comparable products (up to 85% smaller over the product life cycle), as well as using less energy during production.

For example, every 100 tonnes of Align uncoated paper used in place of the average uncoated freesheet equates to removing the annual greenhouse gas emissions of 22 passenger cars<sup>2</sup> and saves the annual average energy use of 63 U.S. households.<sup>3</sup>

### **Raising the bar in sustainable forest management**

Sustainably managed forests help mitigate climate change, and Resolute has committed to implementing Forest Stewardship Council (FSC) chain of custody certification at all its pulp and paper mills and increasing FSC forest certification of its managed forests from 18% to 80% by 2015.

### **Making the most of by-products**

Resolute is also focused on reducing waste and increasing efficiency in its manufacturing processes, while at the same time seeking to efficiently manage the by-products derived from its operations. For example, re-manufacturing production waste into bio-based chemicals or alternative products, or diverting paper mill sludge from landfills to other beneficial uses, like compost and mine tailing remediation.

Resolute supports WWF's energy vision. To this end, and given its strategic expertise in responsible forest harvesting and access to forest biomass, Resolute is investigating various technologies that would bring biofuels to commercial production.

### **Taking sustainability further**

To drive sustainability internally, Resolute has formed a Sustainability Committee, which will refine the existing sustainability approach and more clearly articulate the Company's sustainability strategy.

It plays an active role on the climate change committees of associations such as the American Forest & Paper Association, the Forest Products Association of Canada, and the Conseil de l'industrie forestière du Québec. As a signatory to the Canadian Boreal Forest Agreement, Resolute is a member of the "Goal 4 Working Group," which seeks to reduce greenhouse gas emissions along the full life cycle from forest to end of product life.

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<sup>2</sup> Source: U.S. Environmental Protection Agency <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

<sup>3</sup> Source: U.S. Department of Energy / US Energy Information Administration <http://205.254.135.7/consumption/residential/data/2005/c&e/summary/pdf/alltables1-15.pdf>



## Providing solutions for a low-carbon future

SKF is a leading global supplier of bearings, seals, mechatronics, lubrication systems, and services. SKF Knowledge Engineering products, solutions and services help customers improve performance, reduce energy use and lower total costs.

SKF is represented in more than 130 countries with sales offices, more than 100 manufacturing sites and technical centres, and is supported by around 15,000 distributor locations worldwide.



### How SKF aims to fight climate change

SKF's Climate Savers commitment consists of the following targets:

- **Scope 1 and 2 emissions:** Reduce the annual energy use for the SKF Group by 5% below 2006 levels in absolute terms by 2016 irrespective of volume growth and reduce the energy use per production output by 5% year-on-year.
- **Scope 3 emissions:**
  - Promote effective energy management in our supply chain by requiring ISO 50001 Energy Management Standard certification for 100% of our energy intensive suppliers by 2016, including steel suppliers, forging and casting companies, etc.
  - Reduce CO<sub>2</sub> emissions per tonne-km generated by transports managed by SKF Logistics Services by 30% below 2011 levels by 2016.
- **Scope 4:** Accelerate innovation and product development of low carbon solutions through the SKF BeyondZero portfolio, our solutions with significant and documented environmental benefits. SKF commits to a target of quadrupling the revenue from the SKF BeyondZero portfolio from SEK 2.5 billion in 2011 to SEK 10 billion in 2016.

### BeyondZero™ and climate change

BeyondZero is SKF's objective to continuously minimise the negative environmental impacts deriving from its operations and at the same time increase the positive contribution provided by its products and solutions, helping customers to lower their carbon impact and provide innovative low-carbon solutions. The SKF BeyondZero portfolio contains solutions such as the rotor positioning bearing for start-stop systems in cars and the electromechanical actuators that reduce energy requirements by up to 90% compared to conventional actuators. Solutions from the portfolio will enable significant greenhouse gas reductions. The avoided emissions will be reported retrospectively on an annual basis, verified by a third party.

Productive partnerships are the key to drive change. SKF collaborates with industry peers and has recently inaugurated the SKF-Chalmers University Technology Centre for Sustainability, with the aim to deliver groundbreaking, industry-focused research on sustainability.

*“SKF is in a good position to significantly mitigate climate change through the products and solutions we provide. We will use SKF Knowledge Engineering to help drive the change we want to see – driving BeyondZero for a more sustainable future.”*

Tom Johnstone  
President and CEO

## Accelerating energy efficiency of SKF operations

Internally, SKF raises the bar, by aiming for Group certification in the ISO 50001 Energy Management Standard by 2014, building new facilities according to the LEED standard, collaborating with machine suppliers, etc. to reach the aggressive targets set and still have room for significant growth.

## Driving change beyond SKF’s own borders

### **Supporting low-carbon steel manufacturing**

SKF will support cooperative research and development initiatives aiming at enabling significant reduction of CO<sub>2</sub> emissions from steel production with SKF’s knowledge and expertise.

### **Innovative logistics caring for our climate**

The aggressive reduction target for transport requires successful cooperation across the supply chain and beyond, changing behaviour and finding new solutions through SKF Logistics Services and joint initiatives such as the Clean Shipping Network and KNEG, climate-neutral road transports.

### **Setting new standards for scope 4 reporting**

SKF is breaking new ground with its SKF BeyondZero portfolio in applying systematic and transparent approaches to calculating and communicating environmental claims. As part of the Climate Savers commitment SKF will also take the lead in the establishment of standards for calculating the savings in carbon emissions enabled by a solution, also referred to as scope 4 emissions.

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## Driving climate protection through the network and beyond

Sprint is a major US telecommunications provider, bringing the freedom of mobility to over 50 million customers.

### How Sprint has promised to fight climate change

Sprint's Climate Savers commitments include:

- Reducing CO2 emissions 20% below 2007 emissions by the year 2017.
- Partnering with device manufacturers and suppliers to measure, report and reduce their emissions.
- Identifying opportunities to reduce emissions associated with customers charging their mobile devices.
- Identifying opportunities for Sprint to help other companies reduce their emissions, particularly through machine-to-machine partnerships.

### How Sprint plans to do this

Even as Sprint expects a significant increase in data traffic, the company will be reducing its electricity usage by 20% below 2007 levels by 2017. This translates to an energy intensity improvement that is anticipated to exceed 70%. Sprint will implement its innovative Network Vision plan -- allowing it to replace multiple networks with a single more energy efficient network over the next four years. This plan will allow Sprint to dramatically increase the coverage and capacity of its network and to decommission its energy intensive legacy iDEN system. Sprint will also work with Network Vision partners to identify additional technology solutions that can be implemented to further improve energy efficiency. Sprint's renewable energy strategy includes wind, solar, hydrogen fuel cells and geothermal power. The company is in the process of developing a formal plan to secure 10% of its electrical energy from renewable sources by 2017.



**“We believe every business has a duty to conduct operations in a socially and environmentally responsible manner.”**

**Dan Hesse  
CEO, Sprint**

While Sprint’s commitment to reduce its own footprint is bold, the company is also demonstrating leadership by piloting innovative GHG-reduction strategies upstream and downstream with their partners. Sprint will work with device manufacturers and print vendors to track, report and publish their 2012 greenhouse gas emissions (Scope 1 and 2) and set a goal to reduce their GHG emissions by the end of 2013. Sprint will measure its Scope 3 GHG emissions from product use and identify the major opportunities for absolute emissions reductions. Sprint will then work with a stakeholder group including device and charger manufacturers and behavioral experts to develop a 2017 reduction target. The target will be developed by the end of 2012.

### **Enabling GHG reductions across society**

It has been estimated that the telecom and information technology sectors are responsible for 2% of global emissions and could drive a reduction of up to 15% of global emissions. With this potential in mind, WWF and Sprint will partner in furthering the development of innovative product and service solutions that enable GHG reduction in all sectors. Sprint and WWF will jointly develop a robust methodology to evaluate the GHG-reducing benefits of different product and service solutions. The partners will create a rating system for products and services based on their GHG-reducing potential by the end of 2012 that will help publicize and generate support for tactics that significantly reduce emissions.

### **Leading the Industry**

Sprint is responsibly setting a reduction goal for the footprint of the company’s operations, while also demonstrating leadership by tackling emissions both upstream and downstream. Given that the telecom industry tends to quickly adopt innovative practices that make a difference, Sprint’s multi-faceted strategy can lead U.S. wireless providers, and potentially global providers, down a more aggressive path for reducing emissions and enabling emissions cuts in other sectors.

<sup>1</sup> Global eSustainability Initiative (GeSI) “Smart 2020: Enabling the low carbon economy

# WWF in numbers

100%  
RECYCLED

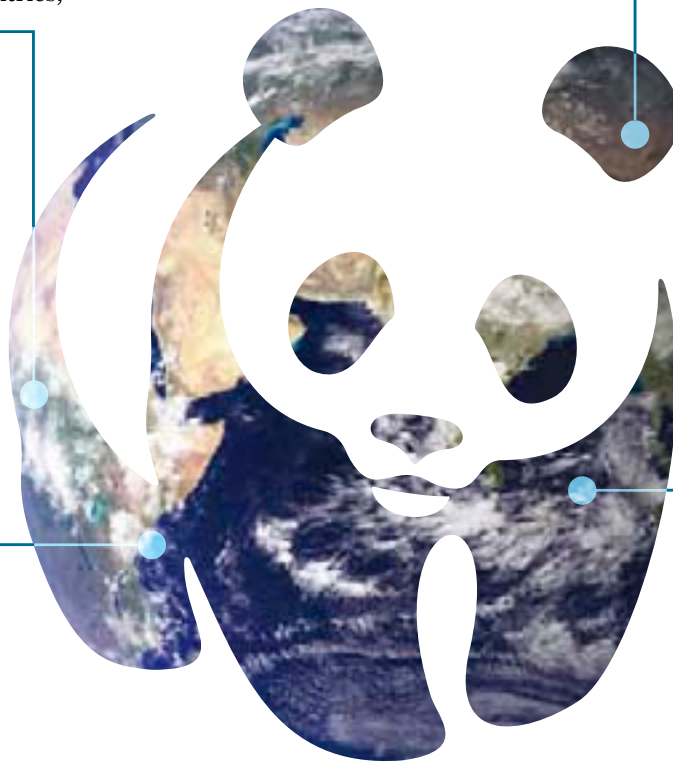


1961

WWF was founded in 1961

+100

WWF is in over 100 countries,  
on 5 continents



+5M

WWF has over 5 million  
supporters

+5,000

WWF has over 5,000  
staff worldwide



**Why we are here**

To stop the degradation of the planet's natural environment and  
to build a future in which humans live in harmony with nature.

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