

VINYLPUS AT A GLANCE

THE EUROPEAN PVC
INDUSTRY'S COMMITMENT TO
SUSTAINABLE DEVELOPMENT



vinyl ^{plus}
COMMITTED TO
SUSTAINABLE DEVELOPMENT

VINYLPLUS' CHALLENGE 1 CONTRIBUTES TO SDGs:



TARGET 9.5



TARGET 12.5



TARGET 13.1



“

We stand ready to help business in this endeavour and commend initiatives such as VinylPlus for its leadership in the areas of recycling and addressing sector challenges, in particular by working with partners along the value chain.

NILGÜN TAS
UNIDO

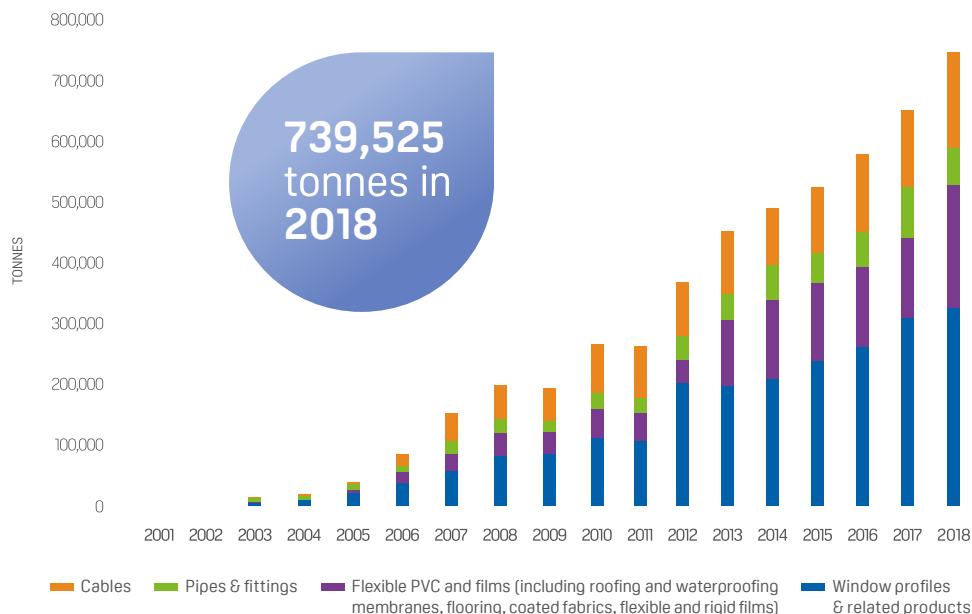
Madrid, May 2018

2018 HIGHLIGHTS

CONTROLLED-LOOP MANAGEMENT

- 739,525 tonnes of PVC recycled within the VinylPlus® framework.
- In September, VinylPlus backed the European Commission's pledging call to increase recycling of plastics by committing to recycle at least 900,000 tonnes of PVC per year into new products by 2025 and a minimum of one million tonnes per year by 2030.
- Cooperation with EU authorities continued to address the issue of legacy additives (substances that are no longer used in new PVC products but that can be present in recycled PVC).

PVC RECYCLED WITHIN THE VINYL 2010 AND VINYLPLUS FRAMEWORKS



5 million tonnes of PVC
recycled since 2000



10 million tonnes of CO₂
saved since 2000

VINYLPLUS' CHALLENGE 2 CONTRIBUTES TO SDGs:



TARGET 1.5



TARGET 3.9



TARGET 8.8



TARGET 9.4



TARGET 12.4

VINYLPLUS' CHALLENGE 3 CONTRIBUTES TO SDGs:



TARGET 6.3



TARGET 12.4

PVC is one of the most widely used polymers in the world. PVC continues to make life safer and more comfortable through its use in construction, water distribution, automobiles, cabling, smart & credit cards, packaging, fashion & design, agriculture, telecommunications, medical devices and a wide array of other areas and products.

PVC is intrinsically a 'low carbon' plastic, and is extremely durable and cost-efficient. PVC helps preserve resources and energy, and, at the end of its life, it can be recycled without losing essential qualities.

ORGANOCHLORINE EMISSIONS

- No transport accidents in Europe with VCM release.
- PVC resin producers are committed to achieving full compliance with the ECVM Industry Charters by 2020. The final compliance audit will include additional parameters in relation to the Operation Clean Sweep® (www.opcleansweep.org) programme that all ECVM member companies have adopted.



PHOTO: COURTESY OF RENOLIT

PVC sheets act as protection from the rain in architectural structures: public and private, industrial, sport or farming buildings.

SUSTAINABLE USE OF ADDITIVES

- The ASF (Additives Sustainability Footprint, a methodology to evaluate the use of additives in PVC products) underwent a critical review by the University of Manchester, UK.
- Through ongoing research and innovation, the plasticisers industry continues to adapt to market and regulatory demands, while keeping its commitment to safe products and their sustainable use.



PHOTO: COURTESY OF NOLECOR

VINYLPLUS' CHALLENGE 4 CONTRIBUTES TO SDGs:



TARGET 7.3



TARGET 8.4



TARGET 12.2



TARGET 13.1

VINYLPLUS' CHALLENGE 5 CONTRIBUTES TO SDGs:



TARGET 3.9



TARGET 4.4
TARGET 4.7



TARGET 5.1



TARGET 8.8



TARGET 12.6
TARGET 12.7
TARGET 12.8
TARGET 12.a



TARGET 17.7
TARGET 17.16
TARGET 17.17

SUSTAINABLE USE OF ENERGY AND RAW MATERIALS

- Verification of ECVM members' energy consumption data for 2015-2016 showed that the energy needed to produce one tonne of PVC decreased by an average of 9.5% compared to the baseline period 2007-2008. In the same period, CO₂ emissions were reduced by 14.4% for the average PVC production, including VCM.
- The evaluation continued of the data available for each EuPC sector group to assess PVC converters' energy consumption.

SUSTAINABILITY AWARENESS

- With the theme *Meeting Societal Needs*, the 6th VinylPlus Sustainability Forum, in Madrid, Spain, explored how the vinyl sector and its products can provide concrete and sustainable solutions to help meet the wide-ranging challenges of providing essential services for a growing global population.
- The VinylPlus® Product Label (productlabel.vinylplus.eu) was officially launched in March 2018. To date, eight profile manufacturers have been awarded the label for 43 profile systems manufactured at 13 European sites.
- Concrete initiatives and action plans for workers' safety and the digitalisation of SMEs were defined with the Social Partners of the European Chemical Sectoral Social Dialogue Committee in the framework of the Cooperation Agreement signed.
- VinylPlus is registered as a SMART partnership on the UN Partnerships for the SDGs (Sustainable Development Goals) platform.



More information can be found in the VinylPlus Progress Report 2019, downloadable from www.vinylplus.eu.

All the information reported has been independently audited and verified by third parties.



VINYLPLUS

VinylPlus is the 10-year Voluntary Commitment to sustainable development of the European PVC industry. The VinylPlus programme was developed through open dialogue with stakeholders, including industry, NGOs, regulators, civil society representatives and PVC users. Five key challenges have been identified for PVC on the basis of **The Natural Step** System Conditions for a Sustainable Society.

The regional scope of the programme is the EU-28 plus Norway and Switzerland.

Through the VinylPlus initiative, the European PVC industry is creating a long-term sustainability framework for the entire PVC value chain. It aims to:

- recycle 800,000 tonnes of PVC per year by 2020, at least 900,000 tonnes by 2025 and a minimum of one million tonnes by 2030
- promote a sustainable use of additives
- improve PVC products sustainability and their contribution to sustainable development
- reduce progressively GHG (greenhouse gas) emissions as well as energy and resource consumption along the entire production chain
- move towards a low-carbon circular economy
- build sustainability awareness along the value chain and among stakeholders.

VINYLPLUS FOUNDING MEMBERS ARE:

- the European Council of Vinyl Manufacturers – **ECVM**
- the European Plastics Converters – **EuPC**
- the European Stabiliser Producers Association – **ESPA**
- **European Plasticisers** (formerly ECPI)



Involvement of the entire value chain, 200 partners across Europe



Concrete and measurable targets and deadlines



Research and innovation



Strong governance and accountability



Stakeholder engagement, transparency and dialogue



Close to €110 million industry investment in sustainability in the EU since 2000

VINYLPUS PARTNERS

IN 2018, THE CONTRIBUTORS WERE:

CONVERTERS:

A. Kolckmann GmbH (Germany)
Alfatherm SpA (Italy)
Allaxis Group (Belgium)
Alkor Draka SAS (France)
Altro (UK)
Altro Debolon Dessauer Bodenbeläge GmbH & Co. KG (Germany)
alfer® aluminium GmbH (Germany)
aluplast Austria GmbH (Austria)
aluplast GmbH (Germany)
alwitra GmbH & Co (Germany)
AMS Kunststofftechnik GmbH & Co. KG (Germany)
Amtico International (UK)
Avery Dennison Materials Europe BV (Netherlands)
Beaulieu International Group (Belgium)
Berry Plastics (Germany)
Bilcare Research (Germany)
BM S.L. (Spain)
BT Bautechnik Impex GmbH & Co. KG (Germany)
BTH Fitting Kft. (Hungary)
CF Kunststoffprofilen (Netherlands)
Chieftain Fabrics (Ireland)
CIFRA (France)
Coveris Rigid Hungary Ltd (Hungary)
Danosa (Spain)
Deceuninck Ltd (UK)
Deceuninck NV (Belgium)
Deceuninck SAS (France)
Dekura GmbH (Germany)
DHM (UK)
Dickson Saint Clair (France)
Draka Polymer Films BV (Netherlands)
Dyka BV (Netherlands)
Dyka Plastics NV (Belgium)
Dyka Polska Sp. z o.o. (Poland)
Dyka SAS, former SOTRA-SEPEREF SAS (France)
Elbtal Plastics GmbH & Co. KG (Germany)
Epwin Window Systems (UK)
Ergis SA (Poland)
FDT FlachdachTechnologie GmbH & Co. KG (Germany)
Finstrel AG (Italy)
FIP (Italy)
Gealan Fenster-Systeme GmbH (Germany)
Georg Fischer Deka GmbH (Germany)
Gerflor Mipolam GmbH (Germany)
Gerflor SAS (France)
Gerflor Tarare (France)
Gernord Ltd (Ireland)
Girpi (France)
Griffine Enduction (France)
Gruppo Fabbri (Svizzera) S. A. (Switzerland)
Gruppo Fabbri Vignola SpA (Italy)
H Producter AS (Norway)
Heytex Bramsche GmbH (Germany)
Heytex Neugersdorf GmbH (Germany)
Holland Colours NV (Netherlands)
Icopal Kunststoffverarbeitungs GmbH (Germany)
IKA Innovative Kunststoffaufbereitung GmbH & Co. KG (Germany)
Imerys (UK)
Imperbel NV (Belgium)
Inoutic/Deceuninck GmbH (Germany)
Inoutic/Deceuninck Sp. z o.o. (Poland)

Internorm Bauelemente GmbH (Austria)
IVC BVBA (Belgium)
Jimten (Spain)
Kalan (France)
Konrad Hornschuch AG (Germany)
LINPAC Packaging PONTIVY (France)
Low & Bonar GmbH (Germany)
Manufacturas JBA (Spain)
Marley Deutschland (Germany)
Marley Hungária (Hungary)
MKF-Ergis GmbH (Germany)
MKF-Ergis Sp. z o.o. (Poland)
Molecor (Spain)
Mondoplastico SpA (Italy)
Nicolli (France)
Nicolli Italy (Italy)
Nordisk Wavin AS (Denmark)
Norsk Wavin AS (Norway)
Novafloor (France)
NYLOPLAST EUROPE BV (Netherlands)
Omya International AG (Switzerland)
Perlen Packaging (Switzerland)
Pipelife Austria (Austria)
Pipelife Belgium NV (Belgium)
Pipelife Czech s.r.o (Czech Republic)
Pipelife Deutschland GmbH (Germany)
Pipelife Eesti AS (Estonia)
Pipelife Finland Oy (Finland)
Pipelife France (France)
Pipelife Hellas S.A. (Greece)
Pipelife Hungária Kft. (Hungary)
Pipelife Nederland BV (Netherlands)
Pipelife Norge AS (Norway)*
Pipelife Polska SA (Poland)
Pipelife Sverige AB (Sweden)
Poliplast (Poland)
Poloplast GmbH & Co. KG (Austria)
Polyflor (UK)
Polymer-Chemie GmbH (Germany)
Protan AS (Norway)
Redi (Italy)
REHAU AG & Co (Germany)
REHAU GmbH (Austria)
REHAU Ltd (UK)
REHAU SA (France)
REHAU Sp. z o.o. (Poland)
REHAU Industrias SA (Spain)
RENOLIT Belgium NV (Belgium)
RENOLIT Cramlington Ltd (UK)
RENOLIT Hispania SA (Spain)
RENOLIT Ibérica SA (Spain)
RENOLIT Milano Srl (Italy)
RENOLIT Nederland BV (Netherlands)
RENOLIT Ondex SAS (France)
RENOLIT SE (Germany)
Resysta International GmbH (Germany)
Riuvert (Spain)
Roechling Engineering Plastics KG (Germany)
Salamander Industrie Produkte GmbH (Germany)
Sattler PRO-TEX GmbH (Austria)
Schüco Polymer Technologies KG (Germany)
Serge Ferrari SAS (France)
Sika Services AG (Switzerland)
Sika Trocal GmbH (Germany)
SIMONA AG (Germany)
Sioen Industries (Belgium)
SKZ-Testing GmbH (Germany)
Solvay SA – Foaming Solutions (Belgium)*
Soprema Srl (Italy)
Stöckel GmbH (Germany)

Tarkett AB (Sweden)
Tarkett France (France)
Tarkett GDL SA (Luxembourg)
Tarkett Holding GmbH (Germany)
Tarkett Limited (UK)
Thomson Research Associates Inc. (UK)
TMG Automotive (Portugal)
Tönsmeier Kunststoffe GmbH & Co. KG (Germany)
Uponor Infra Oy (Finland)
Veka AG (Germany)
Veka Ibérica (Spain)
Veka Plc (UK)
Veka Polska (Poland)
Veka SAS (France)
Verseidag-Indutex GmbH (Germany)
Vescom BV (Netherlands)
Vulcaflex SpA (Italy)
Wavin Baltic (Lithuania)
Wavin Belgium BV (Belgium)
Wavin BV (Netherlands)
Wavin France SAS (France)
Wavin GmbH (Germany)
Wavin Hungary (Hungary)
Wavin Ireland Ltd (Ireland)
Wavin Metalplast (Poland)
Wavin Nederland BV (Netherlands)
Wavin Plastics Ltd (UK)

PVC RESIN PRODUCERS:

Ercros (Spain)
INOVYN (Belgium, France, Germany, Italy, Norway, Spain, Sweden, UK)
Shin-Etsu PVC (Netherlands, Portugal)
VESTOLIT GmbH (Germany)
Vinnolit GmbH & Co. KG (Germany, UK)
Vynova Group (Belgium, France, Germany, Netherlands, UK)

PVC STABILISER PRODUCERS:

Akdeniz Kimya A.S.
Asua Products SA
Baerlocher GmbH
Chemson Polymer-Additive AG
Galata Chemicals
IKA GmbH & Co. KG
LANXESS Deutschland GmbH
PMC Group
Reagens SpA
Valtris Specialty Chemicals

PVC PLASTICISER PRODUCERS:

BASF SE
DEZA a.s.
Evonik Performance Materials GmbH
ExxonMobil Chemical Europe Inc.
Grupa Azoty ZAK SA
LANXESS Deutschland GmbH
Perstorp Oxo AB
Proviron

ASSOCIATE MEMBERS:

AGPU – Arbeitsgemeinschaft PVC und Umwelt e.V. (Germany)
British Plastics Federation (BPF) VinylPlus UK
PVC Forum Italia (Italy)

* Companies that joined VinylPlus in 2018



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