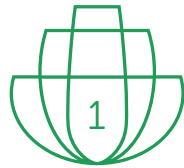


THE ARC GROUP'S ENVIRONMENTAL TRANSFORMATION

PRESS KIT



Innovative glass for a better world



An accelerating transformation

For many years, the Arc Group, the world leader in tableware, has been committed to an approach designed to reduce its environmental impact. Some landmark examples include the development of new, more durable materials, the creation of product ranges designed for new modes of consumption, as well as the recycling of production waste.

In 2020, the Arc Group made significant progress in this approach with the launch of the Arc Responsible program. This is a real, France-wide *in vivo* laboratory designed to test major developments in terms of product design, production, supply chain, energy and recycling under real conditions. Once tested, these changes are intended to be rolled out or adapted to other Group sites according to their specific situations.

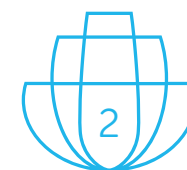
2020

launch of the
Arc Responsible program
across Europe

2021

Arc becomes a member of the Ellen MacArthur
Foundation whose mission is to accelerate the
transition to a circular economy





The development of new, more durable materials

At Arc we are innovating new and ever more resistant materials in order to increase product durability. Created in 2018 by Arc researchers, culinary opal is three times more shock-resistant than conventional materials designed for ovens. This innovation gave rise to the Smart Cuisine cookware collection (voted 2019 'Product of the Year' in France), which provides great durability.

The Group's laboratories have also developed integrally colored opal glass tableware. It has remarkable properties, including excellent mechanical shock resistance, and it is chip-proof and dishwasher-proof, which greatly improves its durability.

Another example is Krysta, a material with unique properties, specifically designed to meet the needs of catering, wine and hotel professionals. 30% more resistant than standard crystalline glass, Krysta® withstands intensive use while maintaining its sparkle, its shine and its transparency.



x3

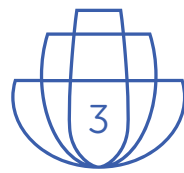
culinary opal
3 times more resistant
than standard material

x3

colored opal
3 times more resistant
to mechanical shock
and chipping

+30%

Krysta
30% more resistant
than classic crystalline



Ecodesigned products

Initiated in 2020 as part of the Arc Responsible program's implementation, eco-design consists of taking into account the environmental impact of a product from very early on, during the design stage. During the development phase of a new product, the R&D, design, marketing, production and sustainable development teams work hand in hand to minimize its environmental impact throughout its whole life cycle.

The first of 2021's eco-designed products will be released in 2023, and from 2025, 100% of new products manufactured in France will follow the eco-design principles. To this end, we are undertaking a true cultural and organizational transformation which will be accompanied by changes to our materials and our technologies.

This pilot project is supported by the French Ecological Transition Agency (ADEME).





New modes of consumption

Several notable changes in consumption have emerged in recent years. Firstly, there's the rise in the sale of bulk products. In many countries, legislation has supported and amplified this phenomenon, for example by requiring supermarkets to sell products in bulk. Arc has been able to anticipate and support this new mode of consumption and conservation with our ranges of specially-designed glass containers, in particular under the Luminarc® brand with its Pure Jar collection. In this way we are helping to reduce the amount of disposable packaging by providing a healthy, practical and aesthetic solution.

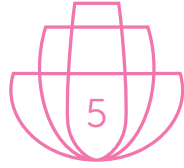
Another example is the resurgence of the deposit scheme, where containers are returned in exchange for payment. According to some studies, reusing a container reduces its environmental impact by more than 65%. Arc supports these behavioral changes by offering reusable and returnable glass solutions.

50%
packaging
represents
50% of all
household waste
(Zerowaste France)

30%
packaging
represents 30%
of the weight of
household waste
(Zerowaste France)

40%
of French people
have already
bought bulk
products
(Niels 2020)

85%
Deposit schemes
reduce packaging's
overall environmental
impact by up to 85%
(ADEME)



Glass as an alternative to disposables

Single-use plastic containers will soon be banned in many countries (Egalim law in France). To support these changes, the Arc Group's marketing and R&D teams at the have developed the So Urban range (Arcoroc®), which invites people to consume in a more considered way. It offers durable, reusable and returnable glass containers specifically designed for catering, take-out and delivery.

In addition to being made of glass, which is a healthy material guaranteeing organoleptic quality and hygienic safety, these containers provide many benefits and features designed for catering professionals, such as durability, light weight and stackability.

2022

At least 50% sustainable
containers for
institutional catering

2025

Bans on plastic containers
in school, university
and nursery catering





Optimizing the whole supply chain

In order to make our production more responsible, our entire supply chain has been redesigned. We are opting for local producers and low-impact transportation methods to limit the carbon footprint created by deliveries. At Arc France, 80% of our purchases are ordered from suppliers based less than 500 km from our production site, and 72% of our raw materials are transported by waterways. Another example is that 70% of our shipments to Italy are now made by rail rather than by road.

In terms of packaging, we systematically favor more sustainable solutions: 100% of our packaging cardboard is FSC-certified (the Forest Stewardship Council's® environmental label), which guarantees that they come from sustainably managed forests.

80%	70%	72%	100%
of supplies are less than 500 km from our factory in France	of shipments to Italy made by rail	of raw materials transported by waterway	of packaging cardboard is FSC-certified®



The enormous energy challenge

As the world's leader in tableware, our energy requirements to ensure the production of glass are considerable. At our historic production site in Arques, in the north of France, the furnaces operate 24/7 and are heated to 1,600°C. Although the furnaces are equipped with regenerators that recover some of the calories created by gas combustion, energy remains a crucial issue in terms of reducing our environmental impact.

While Arc has used electric melting for many years to produce fluosilicate (opal) glass, we are undertaking intense research to apply it to the melting of soda-lime (clear) glass, which is proving much more complex. Our long-term ambition is to switch the majority of the French site's furnaces to electric. This switch to electric melting furnaces aims to achieve a 37% reduction in CO₂ emissions across the Arques site.

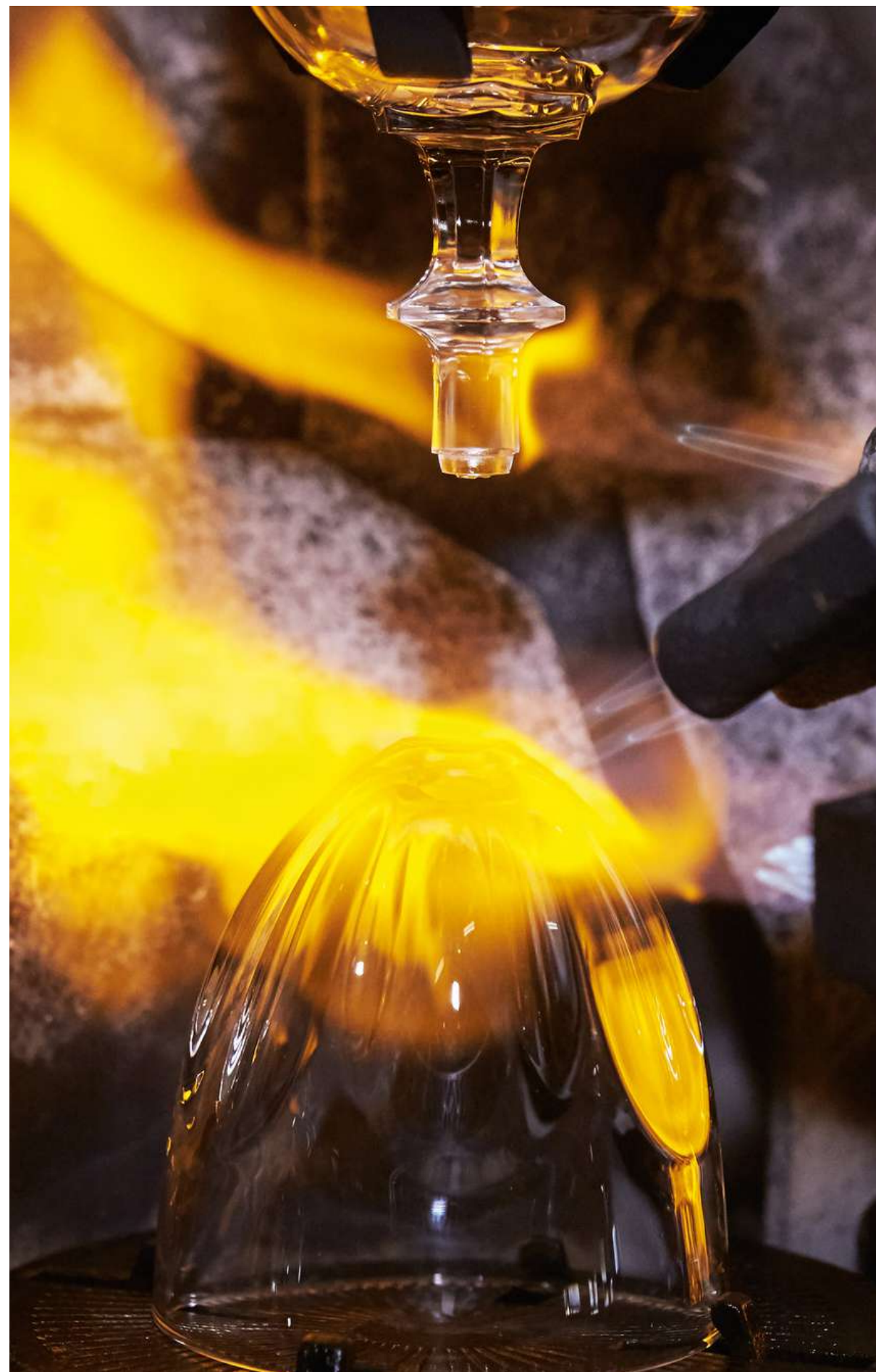
Arc France has also taken steps towards being fully powered by renewable electricity.

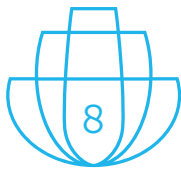
100%

renewable electricity
in Europe by 2030

37%

reduction in CO₂
emissions by 2030





Recycling

For many years, almost all of the glass rejected during production and quality control phases has been recovered in the form of so-called internal cullet, which is then automatically incorporated into the manufacturing process. In addition, Arc has developed 'black glass' made up of 75% cullet recycled in-house and then remelted. This material is durable and very popular for decorating tables, and it retains all the properties of glass.

Today, Arc is going much further by testing the incorporation in our manufacturing of glass collected from households (glass cullet). This ambitious program, supported by the French Agency for Ecological Transition (ADEME), aims to replace some raw carbonate materials with this glass cullet and with new materials that emit less CO₂.

Thanks to these investments, Arc France will reduce its greenhouse gas emissions by the equivalent of approximately 20,000 tonnes of CO₂ per year, i.e. around 8.2% of the site's emissions.

100%

of waste recycled with 92%
used to produce new glass

50%

recycled content*
by 2025

*internal and external



The Arc Group,
the world leader in tableware

7,500

permanent
employees

4,1 M

items
produced every day

4

production sites
worldwide

160

present in
over 160 countries

12

patent applications
each year

€740 M

revenue
in 2021

€74 M

invested
in 2021





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Innovative glass for a better world

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