

**TOWER**

**CtrlFlow** 

this changes everything

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## Welcome to the future

Companies purchase thousands of products to be used to clean and disinfect their working environments. Many are synthetically manufactured chemicals with a high carbon footprint. This is due to the manufacturing process, transport distribution, and plastic containers.

Our goal is to help our partners reduce the sourcing, storing, and use of chemicals by offering an environmentally friendly and sustainable alternative. That's why we developed CtrlFlow ECA: an innovative, simple, and effective cleaning solution and disinfectant.

ECA water is activated by electrolysis turning salt and water into a deceptively powerful, completely hypoallergenic liquid. Tests have shown ECA water to be 100 times more effective than standard bleach, and safe to use on any surface that needs cleaning.

The benefits of installing a CtrlFlow ECA system are endless. Each system produces an infinite supply of ECA solution and makes a bold statement to customers: that your company is committed to enhancing their environmental commitments and credentials.

CtrlFlow ECA also reduces plastics, costs, logistics, transport, replaces 90% of cleaning and disinfectant products, protects surfaces, fabrics, and textiles, and eliminates any employee exposure to highly concentrated packaged chemicals.

That's why we believe that CtrlFlow ECA solution has the power to completely transform cleaning, disinfecting, and sanitising in countless working environments around the world.

A background image showing a close-up of water with numerous small, clear bubbles of varying sizes. The lighting creates highlights on the bubbles, giving them a three-dimensional appearance. The overall color palette is light blue and grey.

400 million tonnes of hazardous waste is produced globally every year and over 200 million tonnes of toxic waste is poured into the sea.

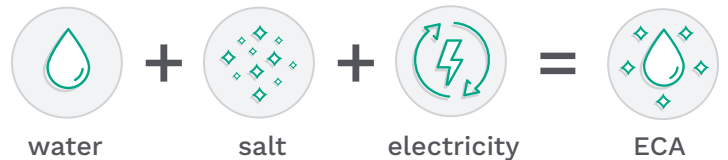
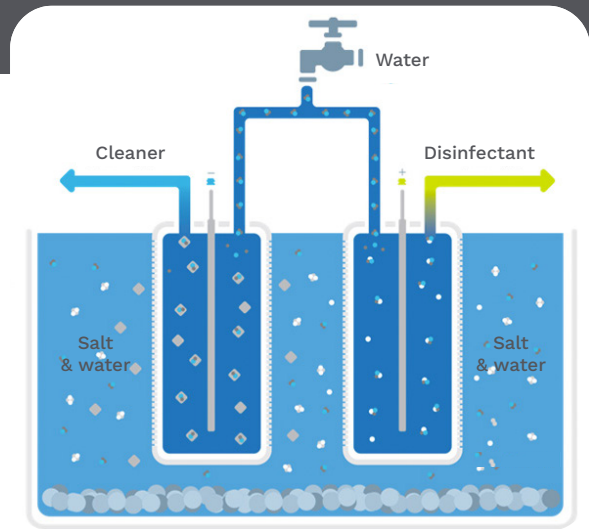
## How does it work?

The activation process is a form of electrolysis that uses ordinary water and dissolved salt. The process combines the chlorine in the salt (NaCl) with the hydrogen and oxygen in the water (H<sub>2</sub>O) to create hypochlorous acid (HOCl) and sodium hydroxide (NaOH) in a combined solution on demand.

This makes a potent, naturally occurring disinfectant, cleaner and sanitiser that's safe, non-toxic, non-allergenic, environmentally friendly, and low cost, suitable for most daily tasks.

The system can be easily situated on several different floors of a building or ship, to provide on-demand generation of a safe, effective, and environmentally friendly cleaning and disinfectant solution.

A game-changing solution that's easy to adopt and make at any time of day. All that's needed is to install a machine with electricity, water and salt. It's that simple.



## How is it used?



A disinfectant – CtrlFlow ECA disinfects all hard surfaces, fabrics, and water supplies with a very high level of efficacy. It also kills all forms of bacteria, viruses, spores, fungi, and moulds.



A cleaner – CtrlFlow ECA is a non-aggressive cleaner with a neutral PH range, making it able to clean polished surfaces to a smear and residue-free clean without the need for chemicals.



A deodoriser – CtrlFlow ECA solution is a natural deodoriser, reducing and eliminating odours created in kitchens, washrooms and on fabrics by killing odour-creating bacteria.

## Where is it used?

*Kitchens & restaurants*

to keep areas clean and entirely safe

*Washrooms & toilets*

to clean ceramics, chrome, and stainless steel

*Public areas*

to keep the fabrics and textiles in busy areas pristine

*Rooms & cabins*

to keep rooms always looking spotless

# Sustainability Report

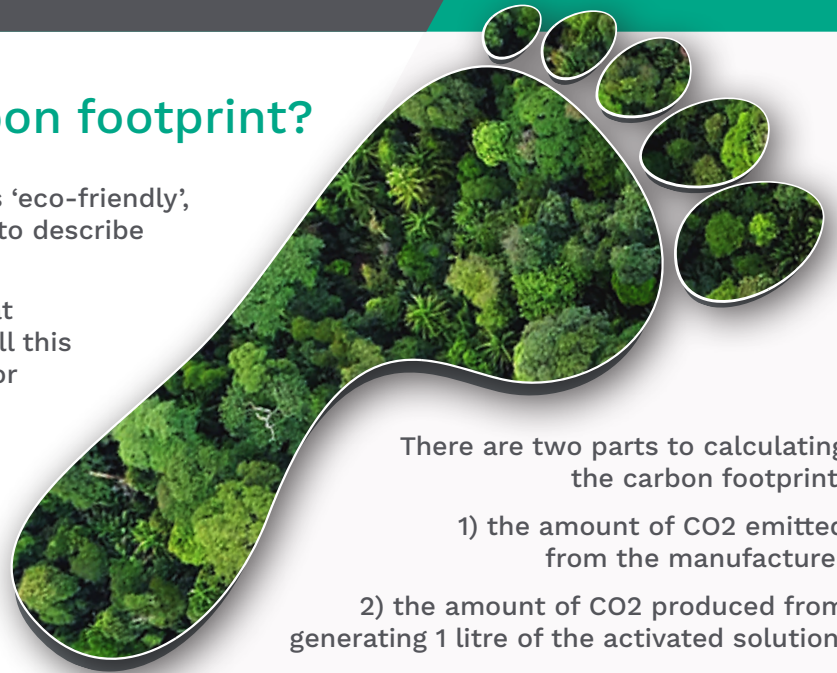
## What is CtrlFlow's carbon footprint?

Companies will often use phrases such as 'eco-friendly', 'green', and 'environmentally sustainable' to describe their products.

But rarely do they specify or quantify what exactly these expressions mean. Some call this greenwashing, others simply misleading, or making false or exaggerated claims.

We believe in proving our environmental credentials. And we want to be clear about the impact, and especially the carbon footprint, of our CtrlFlow ECA solution.

The best way to measure the environmental impact of a product is to calculate the carbon emissions footprint throughout its expected lifespan.



There are two parts to calculating the carbon footprint:

- 1) the amount of CO<sub>2</sub> emitted from the manufacturer
- 2) the amount of CO<sub>2</sub> produced from generating 1 litre of the activated solution.

Calculating both is complicated and takes a lot of work. But knowing the true impact gives clients transparency and the power to show customers their commitments and credentials.



1 litre of CtrlFlow's activated solution generates 1.84 grams of CO<sub>2</sub>. And 8 litres of CtrlFlow's ECA activated solution has the same carbon footprint as boiling a kettle to make tea.



1 litre of CtrlFlow's ready-to-use activated solution with a dilution ratio of 2:1 generates 3.07 grams CO<sub>2</sub> equivalent.

The CO<sub>2</sub> emissions to manufacture the CtrlFlow system and get it installed is 263kg CO<sub>2</sub> equivalent.



What goes into the machine is natural, naturally sustainable, and emits very low CO<sub>2</sub> levels (water and salt). Only very small electric power input is used to activate the solutions.



The emissions and environmental impact of adopting and using the systems to generate cleaning and disinfection solutions are extremely small if compared to synthetic chemicals.

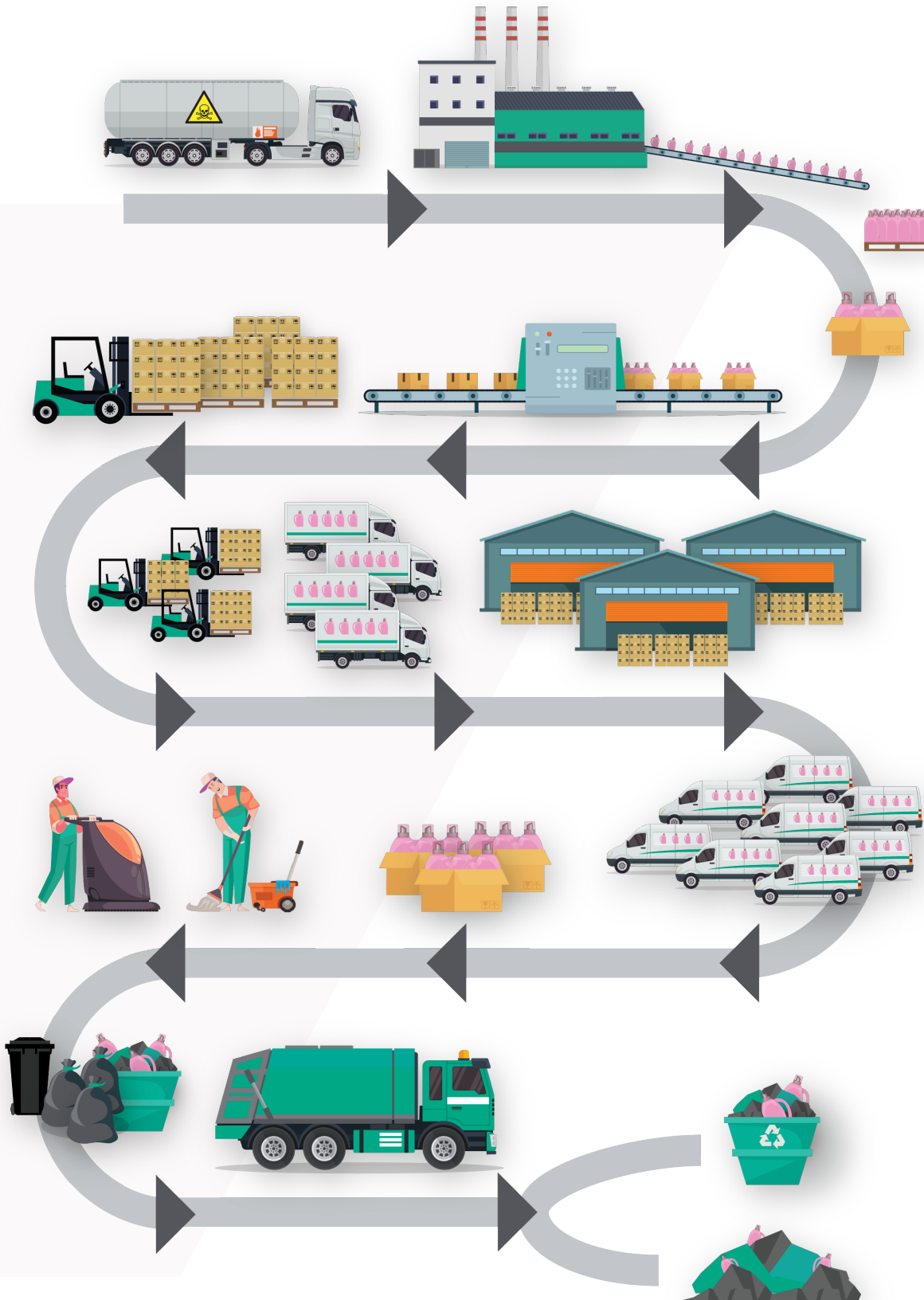


Other than the transport of the system, there is no on-going transport carbon emissions, no packaging disposal, and no ongoing plastic containerisation and plastic disposal.

## Environmental Impact

## Synthetic Chemicals

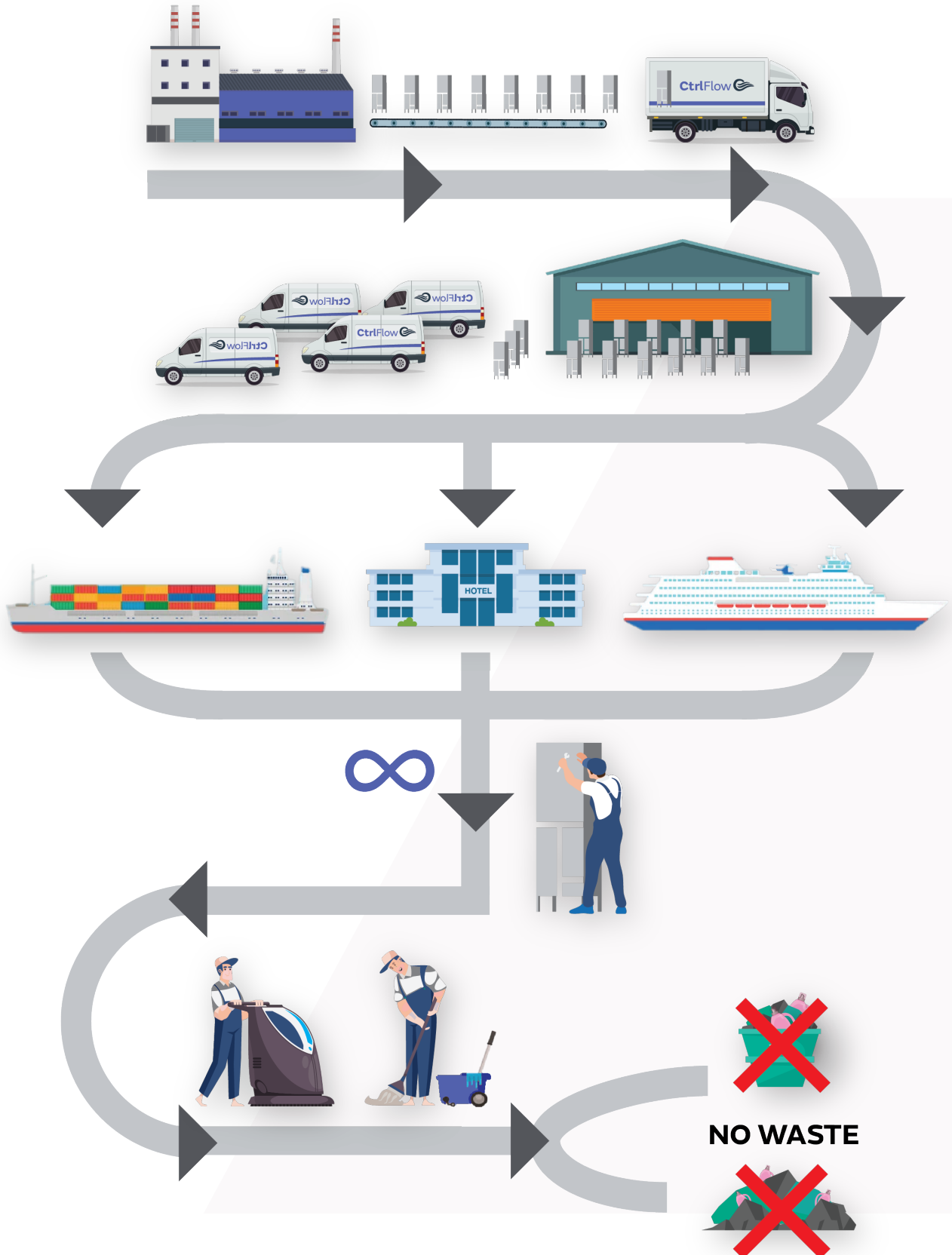
Synthetic Chemical journey every month



vs CtrlFlow

Environmental Impact

CtrlFlow journey every 8 years



## Customer Success Story

### How CtrlFlow ECA water solution completely transformed cleaning and disinfecting for P&O Cruises



When we approached P&O Cruises with an ECA water solution that we said would replace 90% of their cleaning and disinfectant products, they didn't believe it could be true.

But once we started demonstrating how simple and powerful the ECA solution was, they were completely onboard.

#### **The perfect cruise solution**

One of the most important concerns for P&O Cruises was any physical impact that our ECA solution would have on the ship and its crew. As the CtrlFlow ECA solution was hypoallergenic and non-corrosive, we were able to reassure our client that the solution was completely safe.

Testing had also shown that our solution was just as effective as the products it was replacing, and in many cases more effective. This meant that our client could rely on the ECA solution not impacting the incredible customer experience of being onboard a prestigious and pristine P&O cruise ship.

### Countless client benefits

P&O Cruises found the benefits of CtrlFlow ECA could go far beyond just replacing products and reducing costs. As CtrlFlow ECA can be produced easily and endlessly on board the cruise ships, it makes it especially ideal for cruise clients when at sea.

Being able to produce the solution onboard also eliminated the need for ordering and logistics. CtrlFlow is easily accessible and produces an endless supply. And as it replaces cleaning chemicals, there are less COSHH considerations and environmental management of products on board.





## Multiple uses onboard

P&O Cruises have been using CtrlFlow ECA as both a disinfectant and cleaning solution onboard all their ships. It has replaced most of their cleaning products, and their plans are to now use CtrlFlow ECA as an alternative for other products, including those found at their onboard laundries.

Our client found the CtrlFlow ECA solution was also instantly suitable to use in electrostatic sprayers as it wasn't corrosive on surfaces and served as a highly effective disinfectant. P&O Cruises now only need one product for the whole cleaning and disinfection process when in port and at sea.



## Sustainable innovation

As CtrlFlow ECA is non-toxic there is no need for harsh disinfectants onboard ships, which immediately supports P&O Cruises in their environmental goals. There's also now no need to freight products to the ships, and the solution helps reduce packaging and use of plastic containers.

P&O Cruises immediately found CtrlFlow ECA to be the way forward for cleaning and disinfecting onboard cruise ships. The benefits are endless for P&O Cruises and Ctrl Flow ECA replaces most products. It simply solves many client problems in one easy to use and sustainable solution.

We all need to drastically reduce the use of harmful chemicals and greatly lessen our reliance on plastics.

## CtrlFlow Overview





The background of the entire page is a close-up photograph of water with many small, clear bubbles. The water has a blue-green tint. In the lower right quadrant, there is a large, solid teal-colored triangle pointing towards the bottom right corner.

# TOWER



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