



cleanea



# Main streams in Facilities Management ?

**Innovation**

Ease of use

**Low carbon Impact**

Employee Health

**Cost effective**

**Plastic reduction**



Single Use cleaning


**Sustainable**

Efficiency

**Timeliness**

**Waste Water  
management**

Respect of the materials



# Our Solution Produce on Site

When water becomes detergent





Produce your own  
detergents

One  
machine

TWO  
products



Water becomes detergents and  
replaces up to 80% of the  
traditionally used products



## SUSTAINABLE DEVELOPMENT

Reducing pollutant waste

Limiting the use of toxic chemicals  
And Plastics Containers

Breaking the supply chain and  
haulage requirement

No VOC  
improvement of air quality

# OUR COMMITMENTS

## ECONOMIC

Differentiation and innovation  
compared to your competitors

Cost reductions

Efficiency of the products



## WORKING CONDITIONS

No health danger for staff

Reduced risk in case of misuse

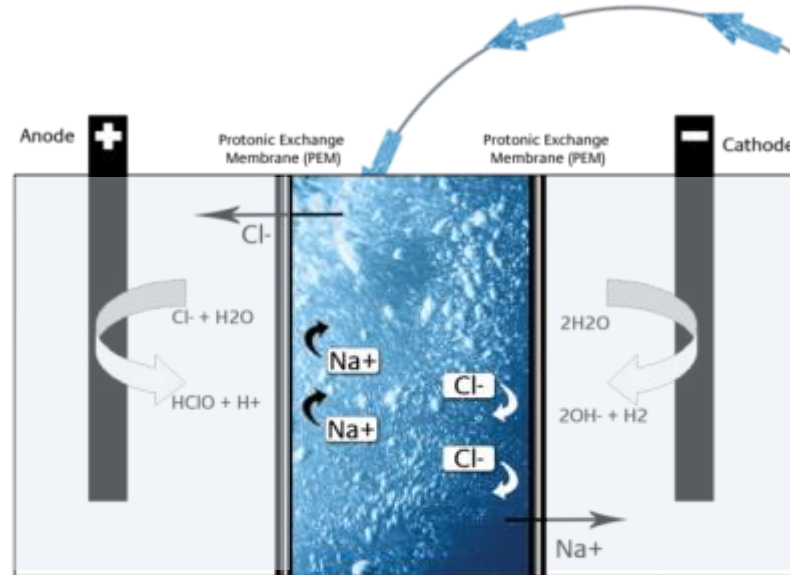
Easier and faster staff training

Easy-to-use products

# HOW DOES IT WORK ?

Electrolysis is a well-known technology.

Yet our breakthrough consists in introducing a new technology, so that every chemical product can be isolated.



Anionic disinfectant red solution  
 $\text{HClO} + \text{H}^+ + \text{Cl}^-$

Cationic cleaning blue solution NaOH

That is why Cleanea's final products **contain much less salt** than products obtained with traditional electrolysis.

Thanks to this brand new technology, the salt ratios in our products remain very low, close to the drinking water quality.



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Red solution - Disinfectant

Acid solution for sanitizing compliant with European Norms EN 1275, EN 1276 and EN 1040 for hygiene and sanitization.

It destroys all types of bacteria such as Listeria, HIV, E-coli, Salmonella. It shines stainless steel and anodizes aluminum, painted surfaces, glass surfaces, mirrors...

## A RED SOLUTION DISINFECTANT



## A BLUE SOLUTION DEGREASER



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Blue Solution – Degreaser

Alkaline solution which cleans and degreases all sanitary and kitchen ware, all type of surfaces as ceramics, chrome, stainless steel, carpets and fabrics, as well as most of materials for homes, hotels , hospitals and offices



# FOR EACH PRODUCT

# SEVERAL USES

No dilution

Can be used with all types of equipments  
(scrubber-dryer, single-disc machines...)





EUROPEAN NORM



Standards' compliance controlled  
by the IRM, COFRAC certified

A fungicidal, virucidal and highly  
bactericidal activity for the red  
solution



## STANDARDIZED PRODUCTS

EN 1276  
EN 1275  
EN 13624  
EN 13697  
EN 13727  
EN 14476  
EN 1650

Eliminates Ecoli, Aeruginosa,  
Hirae, S Aureus, Niger, Albicans,  
Coronavirus, Clostridium Difficile



No hazard pictograms

Compliance with Biocide  
regulation and REACH



# FLEXIBLE SOLUTION

Remote product distribution

External tank for scrubber-dryer

Clean Mop in textile machine

Possibility to add smell, foam...

scrubber dryer



Feeding Mop WashMachine





## FINANCE

Investment ~ 10 000 €  
Maintenance 150€ / month  
Or

Renting Full service 450€/month

Versus

chemicals 2 % of cleaning fees

# KEY FIGURES

## PRODUCTION

Simultaneous production of 2 solutions :  
50 liters/h of each solution

Water supply : Between 2 and 7 bar, temperature between 5 and 25°C

Water treatment : Filter and softener to get Th<10



## CONSUMPTION



100W/hour



1 kg = 1 to 3 months



1L = 0,5L of each solution



TF1



The French National Library



Generali Saint Denis

# An attractive offer for Green Buildings



The Ministry of Finance



Louis Vuitton Foundation



Orange Stadium



Defense Tower

# Facility Management



And much more...

# AN ATTRACTIVE OFFER

European distributors' network

# Health and Hospitality





## Awards and Grants



- 2019 – One of 1000 solutions for the Planet by Solar Impulse
- 2017 - Gold winner Night of the collaborative and circular economy
- 2016 - Purchasing Trophy, Silver Medal
- 2015 - FHP Sustainable Health Award Winner
- 2015 - Gold Medal of the Salon invention of Geneva
- 2015 - Winner of the eco solution innovative for water
- 2014 - Nominated for the Pierre Potier Prize of Sustainable Chemistry

## About CLEANEA

- 2013 - Innovation Award at Europropre
- 2012 - Finalist of the Grand Prix de innovation of the city of Paris
- 2011 - Sanofi contest winner
- 2011 - ARSEG sustainable development award Winner
- 2011 – Laureate at the Eco-innovative Society prize in Pollutec
- 2010 - Laureate at Scientipole Initiative



**The electrolysis chamber**  
Developed and patented with the laboratory CERAMHYD

**The machine**  
Developed with ARTS, the laboratory of Arts and Crafts Paris TECH

**The brand**  
Registered trademark in more than 60 countries - Madrid System





GO GREEN



# FOR MORE INFORMATION

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GO GREEN



# Appendix



**Cleanea, is one of 1000 solutions to change the World  
by Solar Impulse**



To address environmental challenges while enabling economic growth, Bertrand Piccard has launched, through the Solar Impulse Foundation, the challenge to select 1000 solutions, that can protect the environment in a profitable way and present them to decision-makers to fast-track their implementation.

Assessed by independent experts, the Solar Impulse Efficient Solution label, serves as a credible marker of quality to decision-makers in business and governments.

Cleanea is proud to benefit from that label focused on both environment and profitability.

Cleanea produce professional ecological detergents on Site, thanks to a simple solution: electrolysis!

Water, salt and electricity and you get a cleaner and disinfectant that replaces up to 80% of conventional detergents.

No plastic, No waste water, Lower carbon impact and less chemicals.

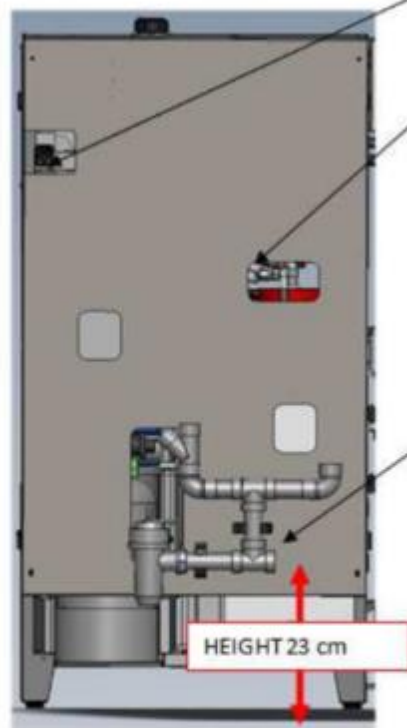
#1000solutions

@solarimpulse

www.cleanea.com

<https://solarimpulse.com/companies/cleanea/>





ELECTRICAL CONNECTION  
(PROTECTED BY A 30mA differential)

COLD WATER SYSTEM CONNECTION  
(3/4"): HOSE PROVIDED

OUTPUT TO CONNECT TO THE  
SEWAGE OUTLET (EN PVC DE  
DIAMETER 40mm)

HEIGHT 23 cm



# Weekly quality control

document indice B

Contrôle HEBDOMADAIRE des solutions



Date	Sel Electrolyse *1	Sel Adoucisseur *2	Mesure du KH ° *5	SOLUTION ROUGE					SOLUTION BLEUE					Nom et Signature					
				Mesure du pH					Taux de chlore en ppm						Mesure du pH				
				3.0	4.0	5.0	6.0	7.0	25	50	100	150	200		9.0	10.0	11.0	11.4	≥11.5
	OK	OK	OK			OK	OK	OK	OK		OK	OK	OK						
1/7/2019	OK	OK	/							X				X		Zilvite			
8/07/2019	OK	OK	/							X				X					
15/07/2019	OK	OK	/							X				X					

\*1 : Niveau de sel dans le réservoir de saumure : voir fiche de maintenance hebdomadaire  
 \*2 : Niveau de sel dans le bac de l'adoucisseur : voir fiche de maintenance hebdomadaire  
 \*3 : CORROSIF/IRRITANT  
 \*4 : En-deçà de 50 ppm de chlore et en dehors des plages de pH recommandées l'efficacité des solutions n'est plus garantie  
 \*5 : le KH (dureté carbonatée) doit être supérieur à 8  
 OK : Solutions conformes

