

The background of the image is a close-up, high-angle view of the ocean's surface. The water is a vibrant teal or turquoise color, with numerous small, rhythmic waves and ripples creating a textured, undulating pattern. The lighting is bright, highlighting the crests of the waves and casting soft shadows in the troughs, which adds depth and movement to the scene.

OMPECO



THE GOAL:
0%
WASTE

CONVERTER[®] NV

TREATING WASTE
DIRECTLY ON
BOARD

+ **CERTIFICATIONS**
ISO 9001NATO AH649
RINA
M.O.G.C. 231
APHIS
APHA





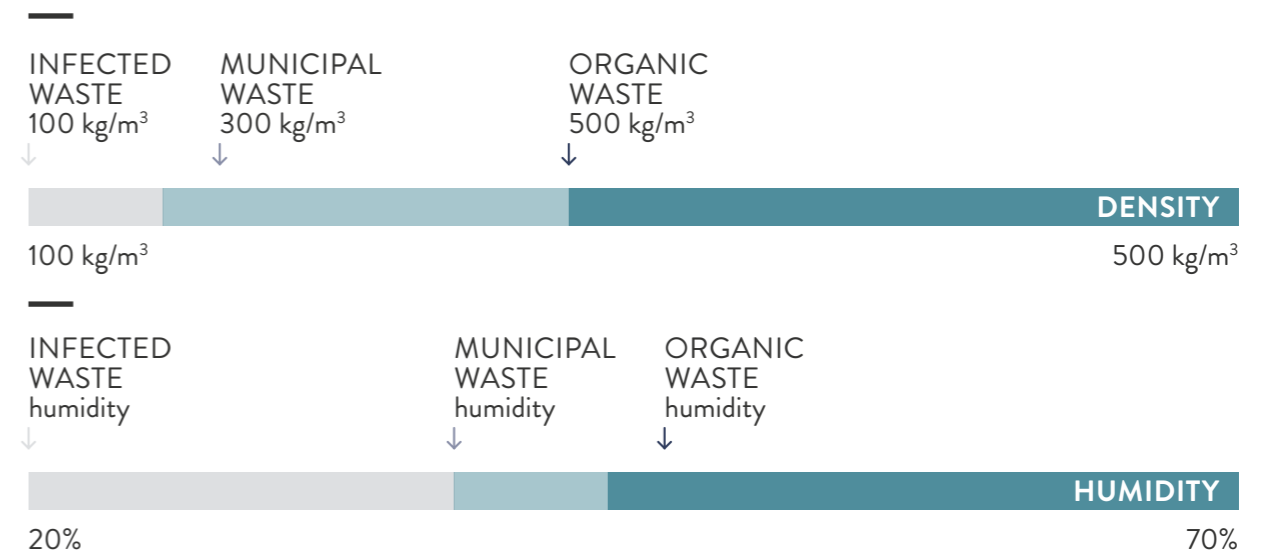
APPLICATIONS

- _PRIVATE YACHTS
- _OFFSHORE PLATFORMS
- _MERCHANT VESSELS
- _CRUISE SHIPS
- _TANKERS
- _FERRY BOATS



Transform unsorted
waste into a dry,
stable product.

WASTE CHARACTERISTICS



HOW IT WORKS WORKING PRINCIPLES



SAFETY
Flame free!



SAFETY
The system does
not work under pressure!

1.

WARM-UP
FRICTION



2.

EVAPORATION
BOILING



3.

HEATING
HIGH TEMPERATURE MOIST HEAT



THE PROCESS

SEVEN STEPS 30 MINUTES ONLY

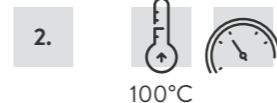


Converter® equipment is authorized to treat waste through physical modification, reduction of volume, dehydration and reduction of weight.



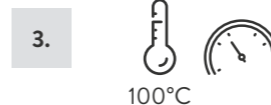
WASTE LOADING

The waste is loaded inside the chamber by hand in plastic bags and the lid is closed.



CRUSHING

The rotor starts and accelerates gradually, as the material is finely ground and the temperature rises quickly to about 100 °C.



EVAPORATION

The heat generated by friction in the material causes the evaporation of the waste moisture and the temperature remains firm at around 100°C.



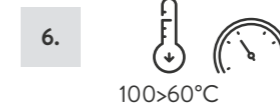
SUPERHEATING

Once all the moisture has been eliminated, the frictional heat causes the temperature of the material to increase to 151°C.



STERILIZATION OR PASTEURIZATION

The temperature of the material is held firm at 151°C for 3 minutes, under moist heat conditions through controlled water dosage.



COOLING DOWN

The waste is sprinkled with water in order to lower the temperature of the material to about 100°C. A vacuum pump then lowers the temperature further down to 60°C adiabatically.



UNLOADING IN VACUUM BAG

The treated material is unloaded by centrifugal force through the opening of a servo-operated valve positioned at the bottom of the treatment chamber.

THE RESULT LIGHT AND DRY

WASTE BIN IS AN IDEAL BACTERIAL CULTURE

Microorganism proliferation and spreading is the common problem connected to the management of the waste because it directly affect the human health.

1 bacteria today → 5×10^{86} in 4 days

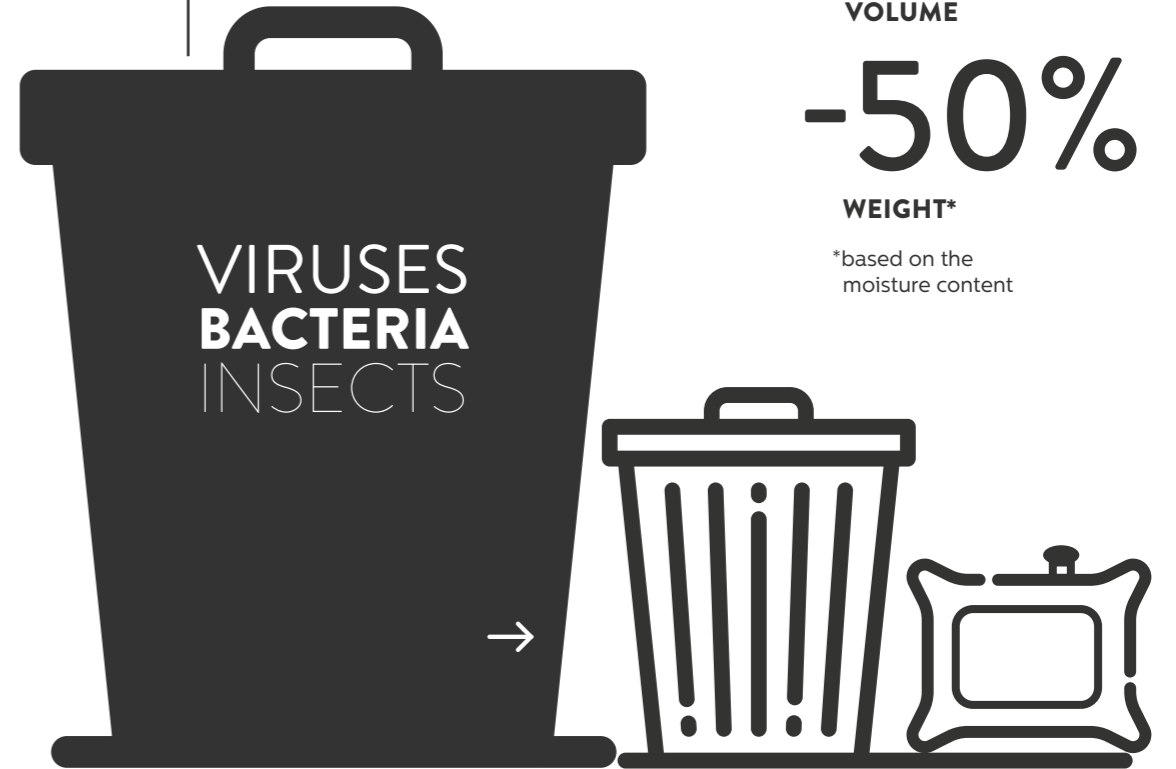


At the end of the treatment with the converter NV the final product is a completely unrecognizable, odorless and sterile flock or “fluff”.

The weight is reduced by 50%, and the volume by 80%. If vacuum packed the volume is reduced further and the brickets can be stored for long periods, with no odour, dust or need to refrigerate.

WASTE MATERIAL

includes several hazardous substances which can be eliminated only through thermal processes.



-80%

VOLUME

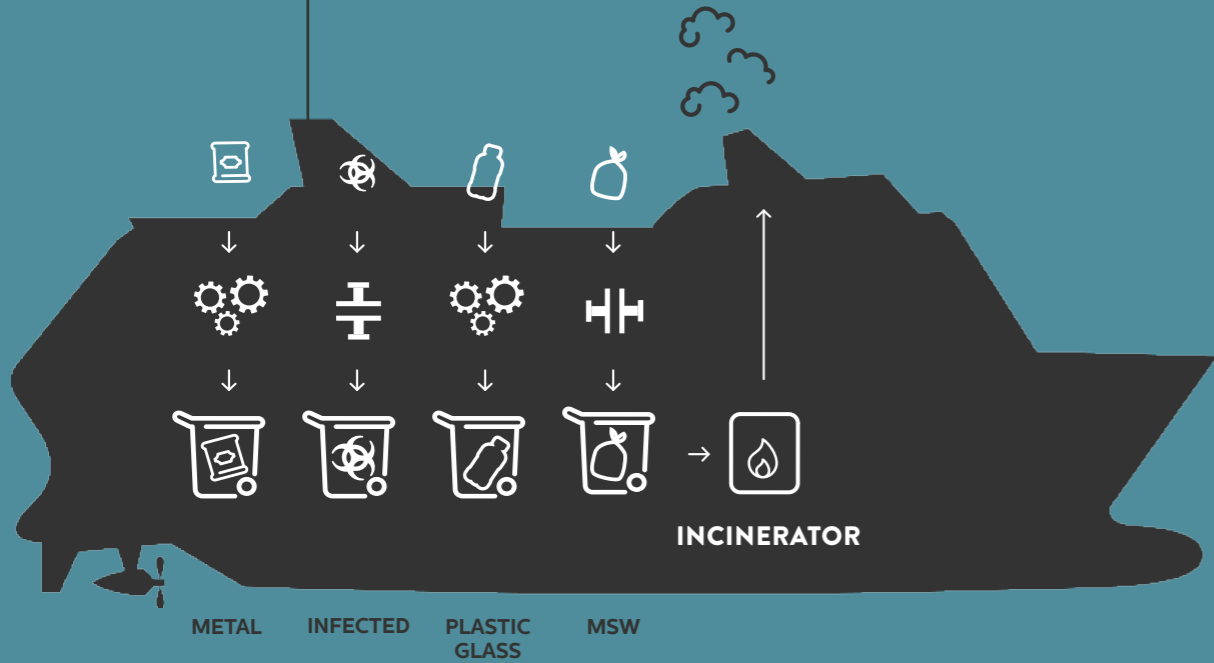
-50%

WEIGHT*

*based on the
moisture content

WITHOUT CONVERTER

Usually there are several systems to manage the different waste streams

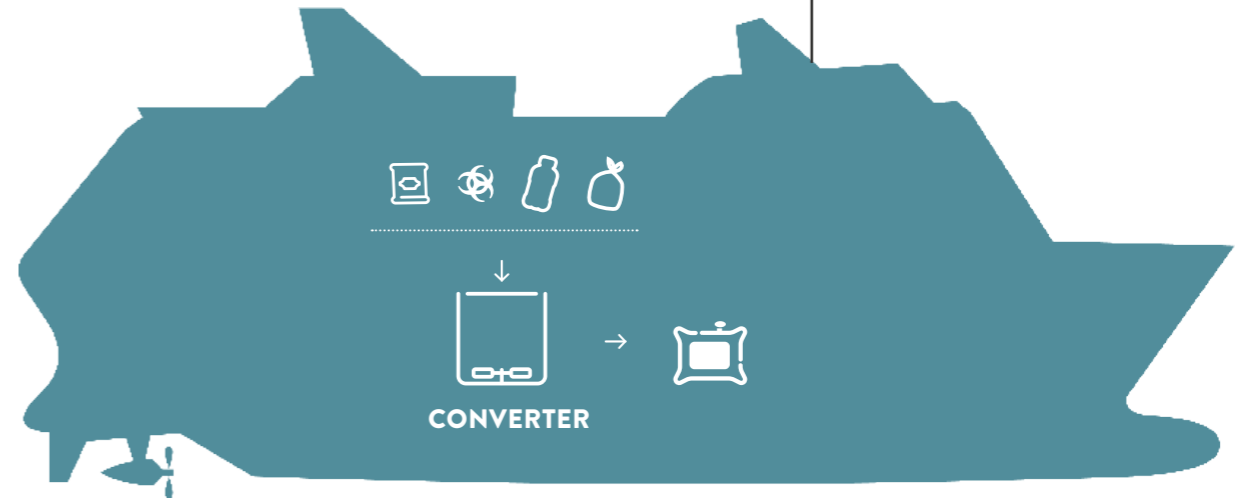


EASY WASTE MANAGEMENT

NO POLLUTION - ON BOARD STORAGE

WITH CONVERTER

It is not necessary to do separate waste collection



UNRECOGNIZABLE ODORLESS AND PASTEURIZED

90 DAYS

The waste can be kept
without emitting odors
for up to 90 days.



↓
FLUFF



RDF

3.5 ÷ 4.5 MWh/t*

* nominal value

↓
AUTOMATIC VACUUM



**NO ODORS
NO LEACHATE**



**NO WASTE
MANAGEMENT**



**NO WASTE STORAGE
EASY FLOCK
LESS SPACE REQUIRED**



NO REFRIGERATION



Converter® **NV 200**
Converter® **NV 100**
Converter® **NV 60**
Converter® **NV 30**
Converter® **NV 10**

CONVERTER® NV200



TECHNICAL DETAILS

400 liters waste

organic → 60 to 80 kg/h
municipal → 100 to 150 kg/h

Specification

treatment chamber volume [lt]	400
machine dry weight [Kg]	2200
machine footprint [mm - h]	2300x1500-1800
electric cabinet weight [Kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [KW]	100
nominal motor power [KW]	85
nominal current [A]	120
peak current [A]	150
electrical consumption [KW/Kg]	0,4-0,6

CONVERTER[®] NV100



↓
TECHNICAL DETAILS

200 liters waste

organic → 30 to 40 kg/h
municipal → 40 to 80 kg/h

Specification

treatment chamber volume [lt]	200
machine dry weight [Kg]	1500
machine footprint [mm - h]	1950x1200-1400
electric cabinet weight [Kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [KW]	65
nominal motor power [KW]	60
nominal current [A]	95
peack current [A]	120
electrical consumption [KW/Kg]	0,4 - 0,6

CONVERTER® NV60



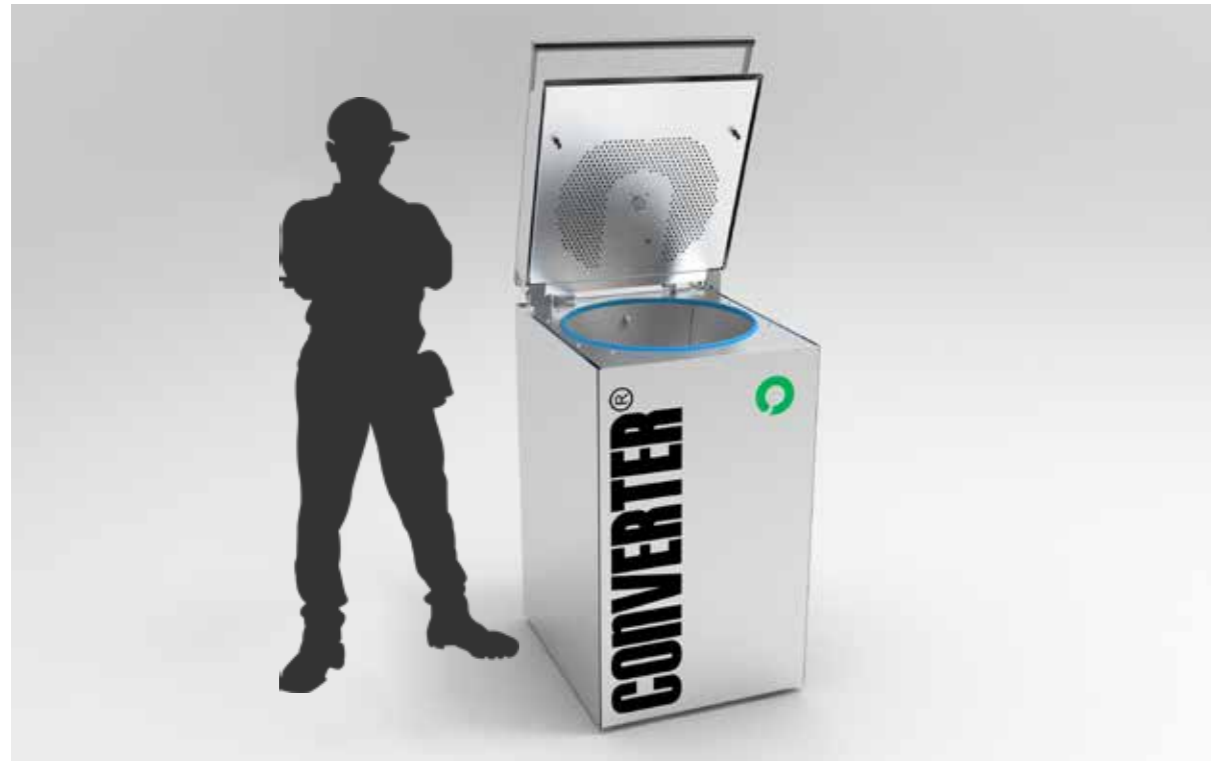
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TECHNICAL DETAILS

100 liters waste
organic → 15 to 20 kg/h
municipal → 20 to 40 kg/h

Specification	
treatment chamber volume [lt]	100
machine dry weight [Kg]	1100
machine footprint [mm - h]	1500x1100-1400
electric cabinet weight [Kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [KW]	55
nominal motor power [KW]	50
nominal current [A]	70
peak current [A]	80
electrical consumption [KW/Kg]	0,4 - 0,6

CONVERTER[®]

NV30_NV10



TECHNICAL DETAILS

NV30

Specification

treatment chamber volume [lt]	50
machine dry weight [Kg]	250
machine footprint [mm - h]	700x700-1100
total installed power [Kw]	10
waste [Kg/h]	8-12

NV10

Specification

treatment chamber volume [lt]	25
machine dry weight [Kg]	110
machine footprint [mm - h]	700x600-900
total installed power [KW]	2,8
waste [Kg/h]	4-6



NO POLLUTANT EMISSIONS

Liquids present in the waste are separated and condensed



NO WATER CONSUMPTION

Can be reduced down to zero



SAFE STOCK

No dust
No odor
No fermentation



EASY TO USE

No special license is needed to operate



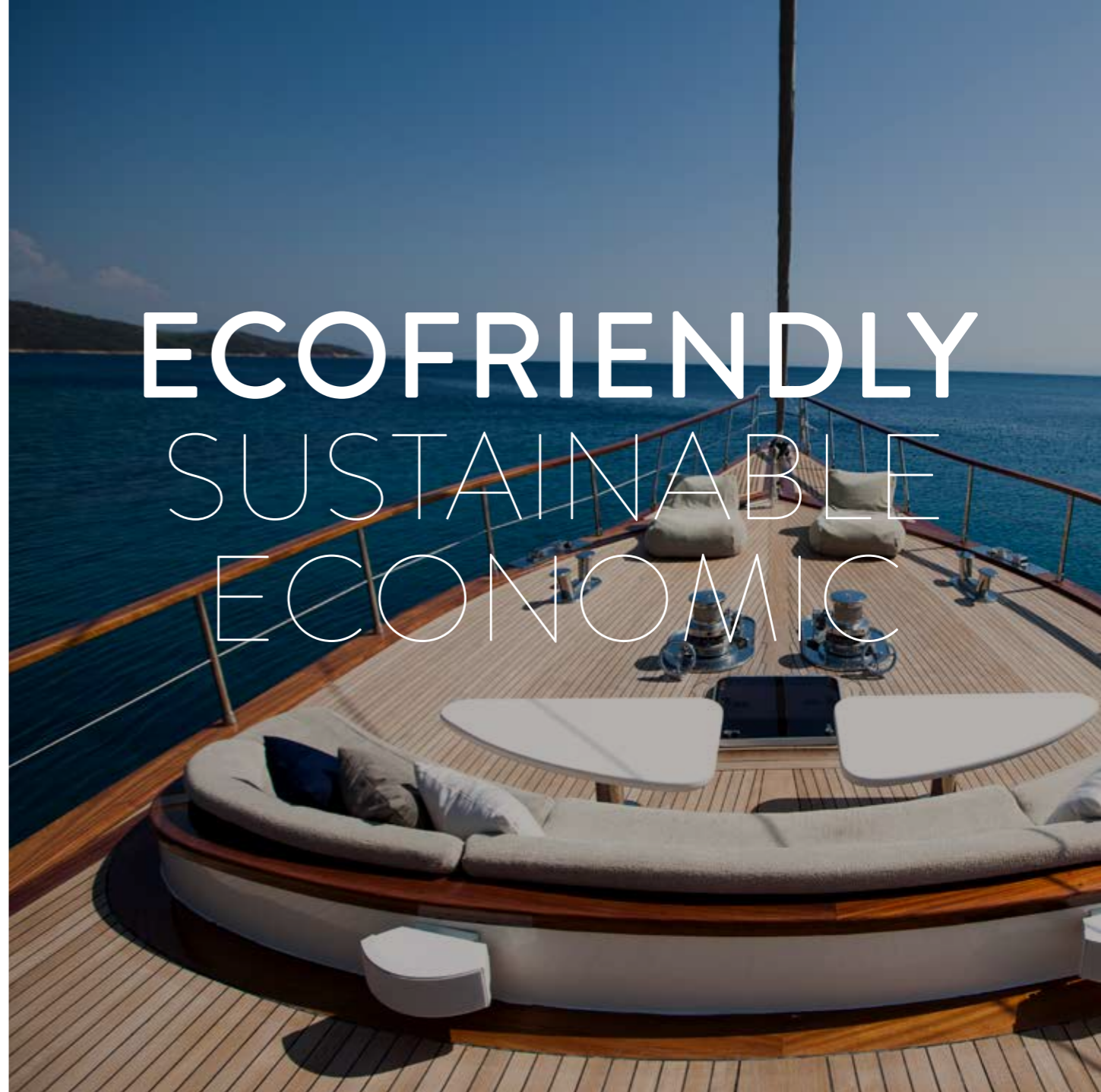
NO WASTE SEGREGATION

Time saving



LOW ENERGY CONSUMPTION

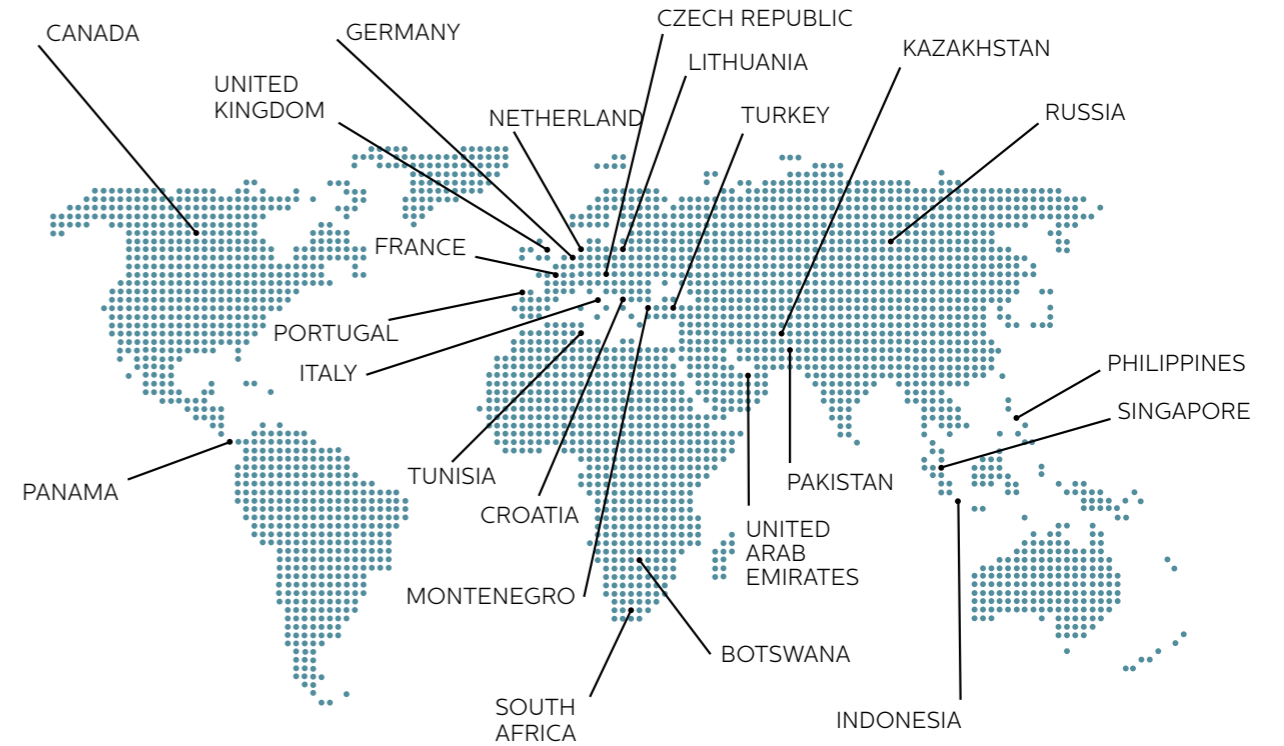
ECOFRIENDLY SUSTAINABLE ECONOMIC



CONVERTER[®] IN THE WORLD

25 COUNTRIES

- Our brokers are present worldwide;
- Several local distributors operate exclusively in their territories;
- Among our clients there are the 5 most important NATO Navies and manufactures of large luxury Yachts.





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Certified
Swiss
Quality

ISO 9001

