

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<sup>®</sup> NV

TREATING WASTE  
DIRECTLY ON  
BOARD

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





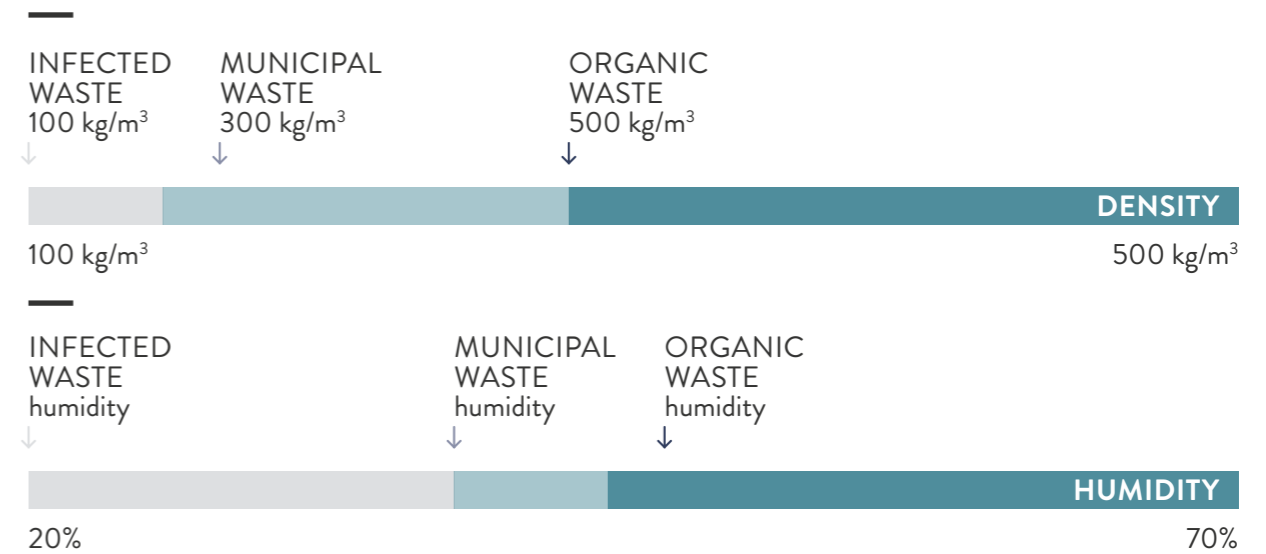
# APPLICATIONS

- \_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

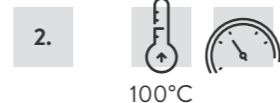


Converter® equipment is authorized to treat waste through physical modification, reduction of volume, dehydration and reduction of weight.



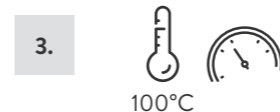
## WASTE LOADING

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.



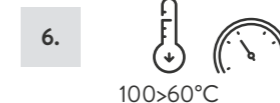
## SUPERHEATING

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 →  $5 \times 10^{86}$  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.

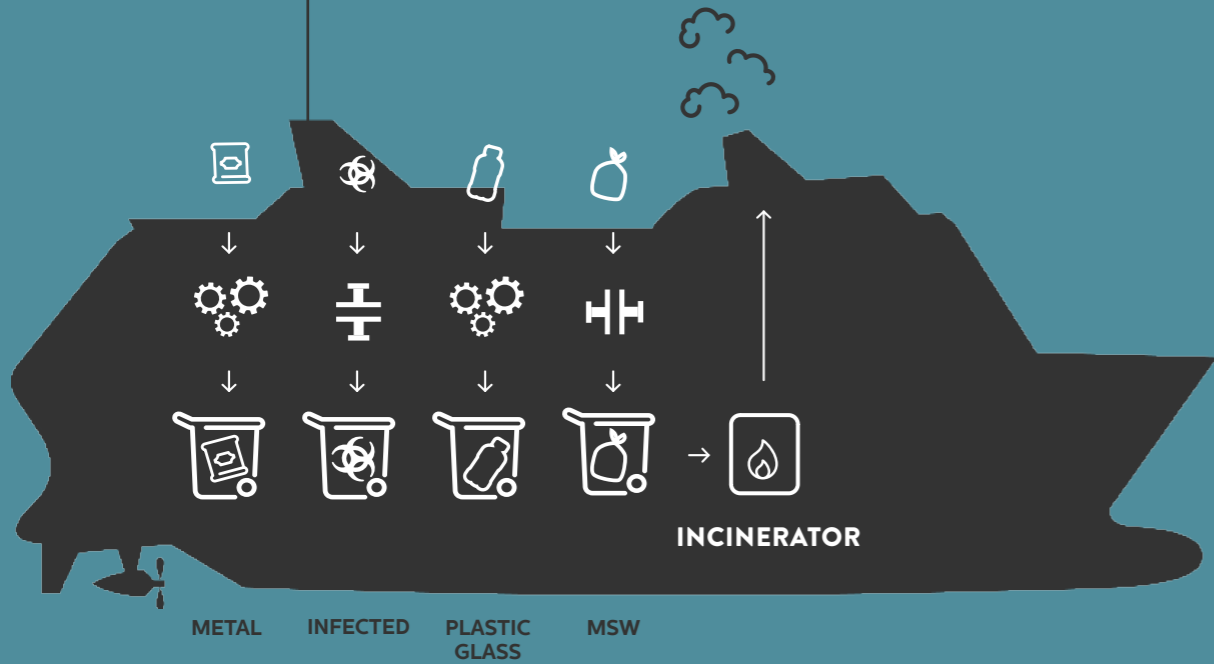
## WASTE MATERIAL

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



**WITHOUT CONVERTER**

Usually there are several systems to manage the different waste streams

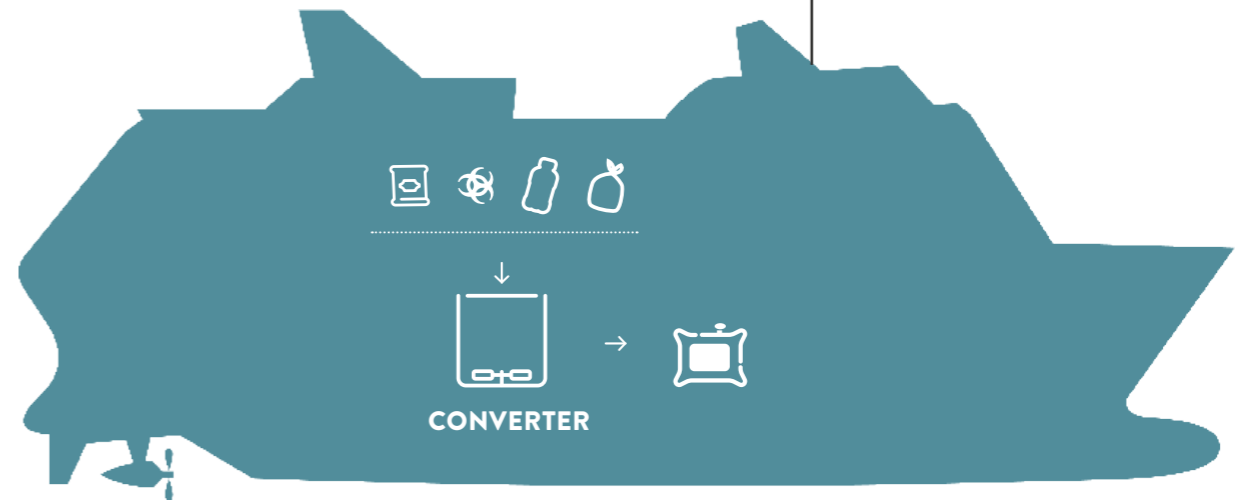


# EASY WASTE MANAGEMENT

**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® 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<sup>®</sup> 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<sup>®</sup> NV60



## 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<sup>®</sup>

## NV30



### 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



**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



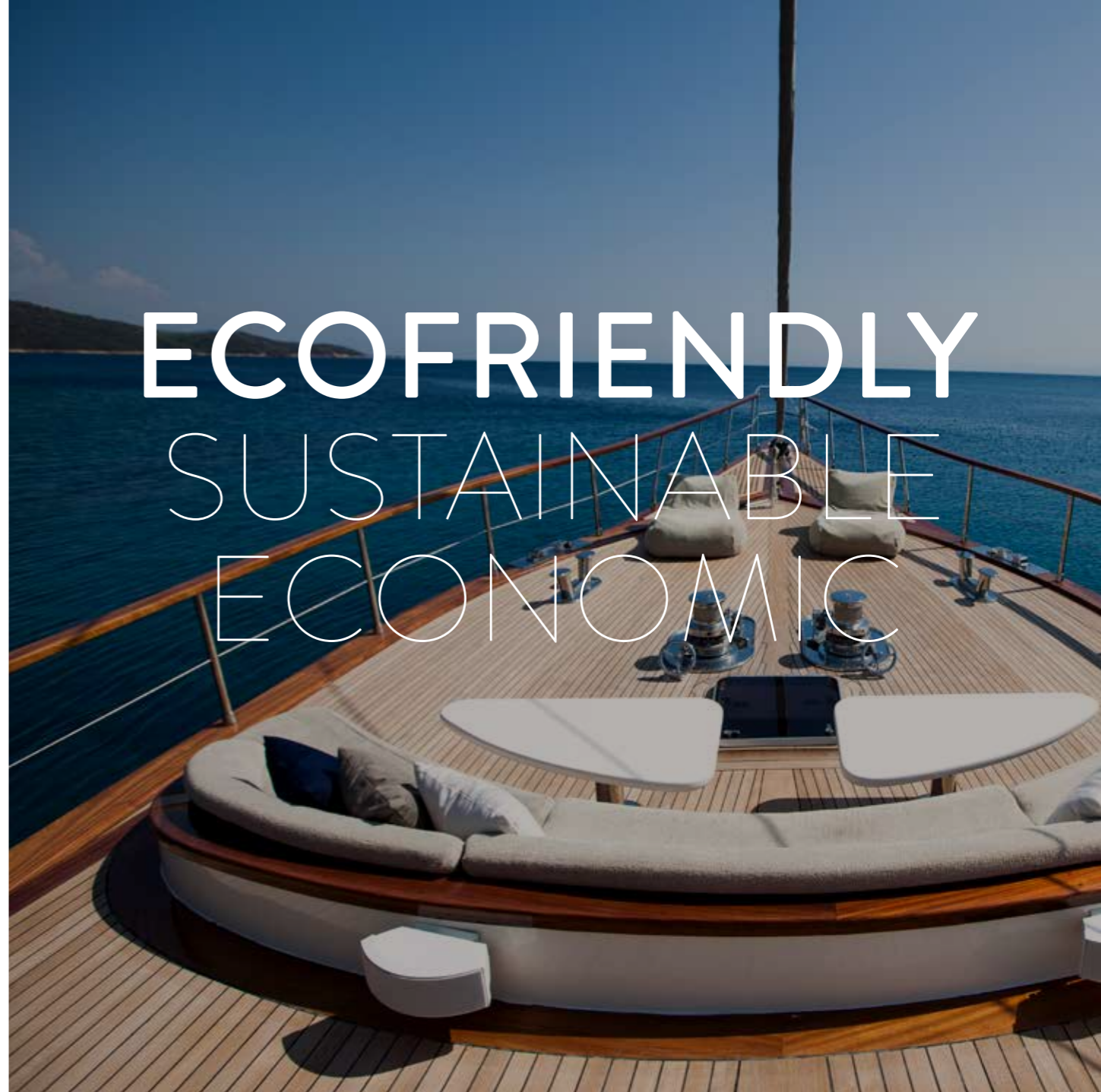
**NO WASTE SEGREGATION**

Time saving



**LOW ENERGY CONSUMPTION**

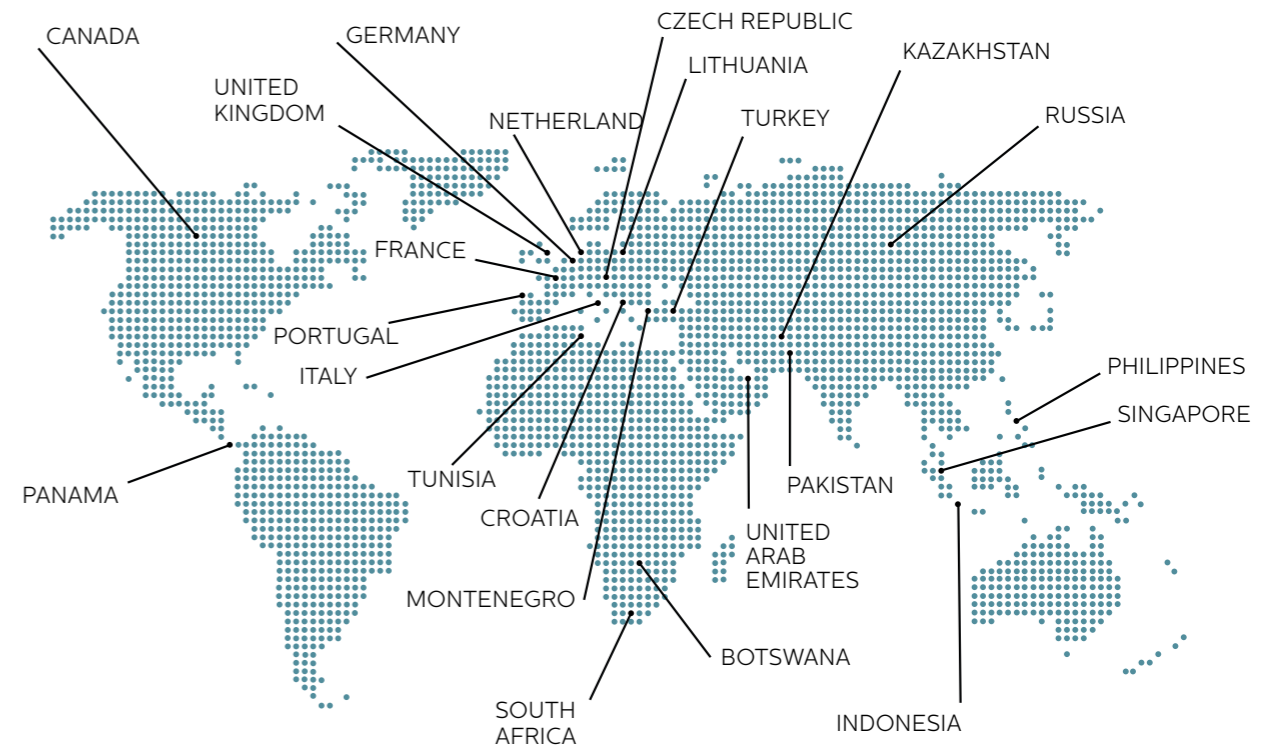
# ECOFRIENDLY SUSTAINABLE ECONOMIC



# CONVERTER<sup>®</sup> 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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Quality

**ISO 9001**

