

# THE BEER BOAT

All electric supply vessel



Gemeente Utrecht

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# UTRECHT

Heart of the Netherlands



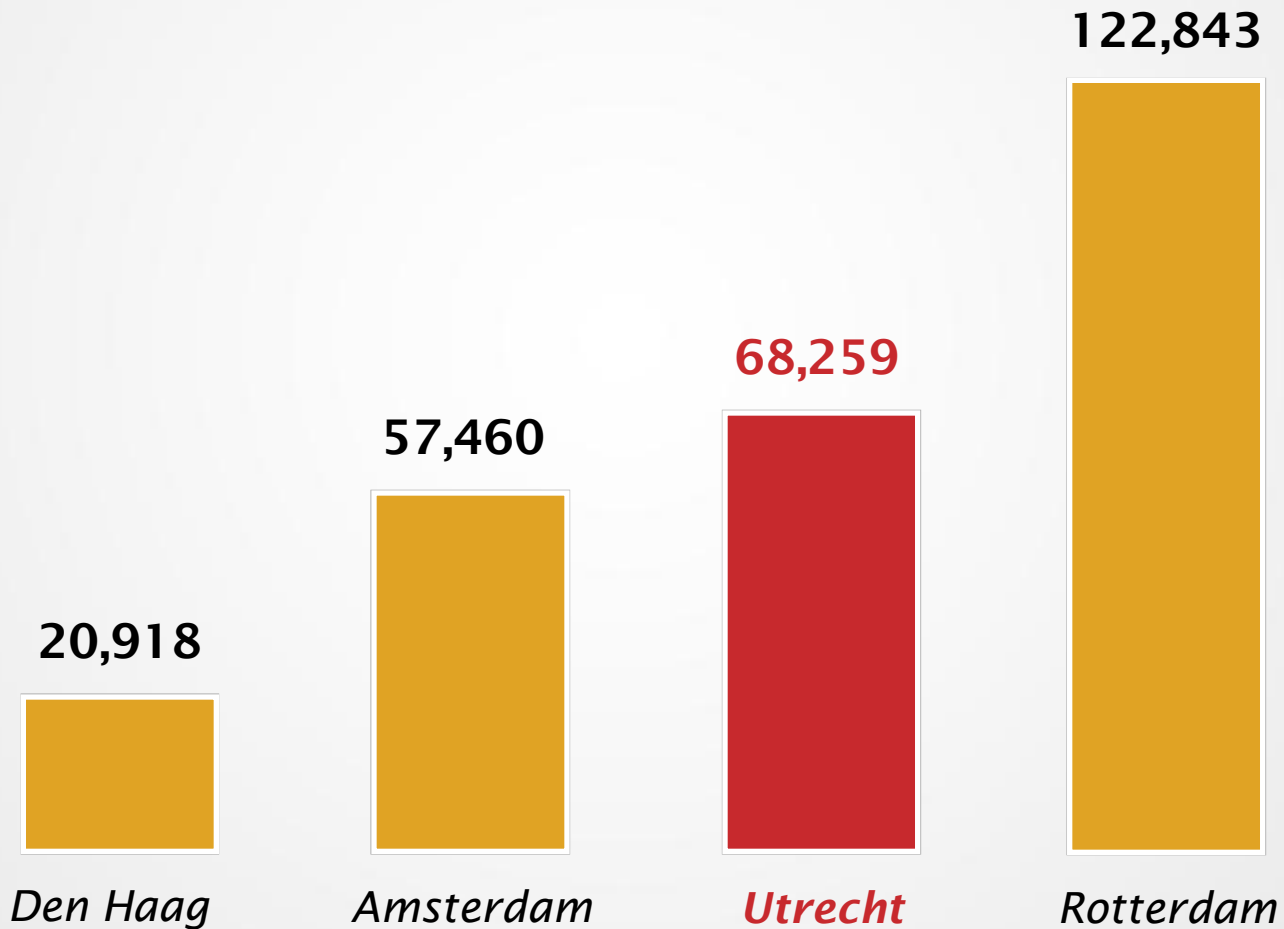
# UTRECHT

In the Netherlands

- More than 10% of internal transport
- Largest inland port
- Annual cargo handling:  
*6 mln tons*

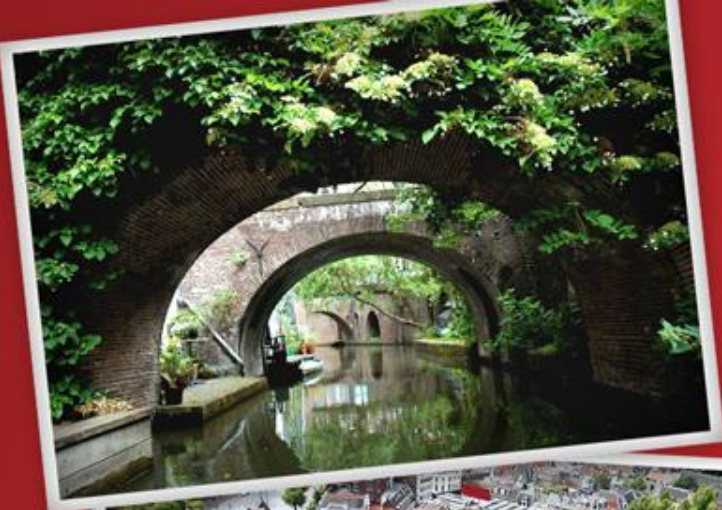
# INTERNAL TRANSPORT IN THE NETHERLANDS

From/to G4 cities (x1,000 tons)



# UTRECHT

The city centre



- Medieval city centre
- Several canals
- Problem and solution



# THE BEER BOAT



“ CLEAN,  
EFFICIENT  
AND SILENT  
DELIVERY ”

# THE CONCEPT

- Supplying catering facilities
- Replacing trucks and vans
- Environment friendly



# USERS

- 4 breweries
- A catering industry wholesaler
- Serving 65 clients



# CARGO

## Specifications

- 40 – 48 containers
- Cargo load: 18 tons
- Electric hydraulic crane
- Length: 18.80 meters
- Width: 4.26 meters



# BENEFITS

- No two-tons axis load restrictions
- No time windows
- No one way traffic
- No congestion

# BENEFITS

- Positive working conditions
- More comfort
- Faster
- Extra cargo handling



# TECHNICAL

## Specifications

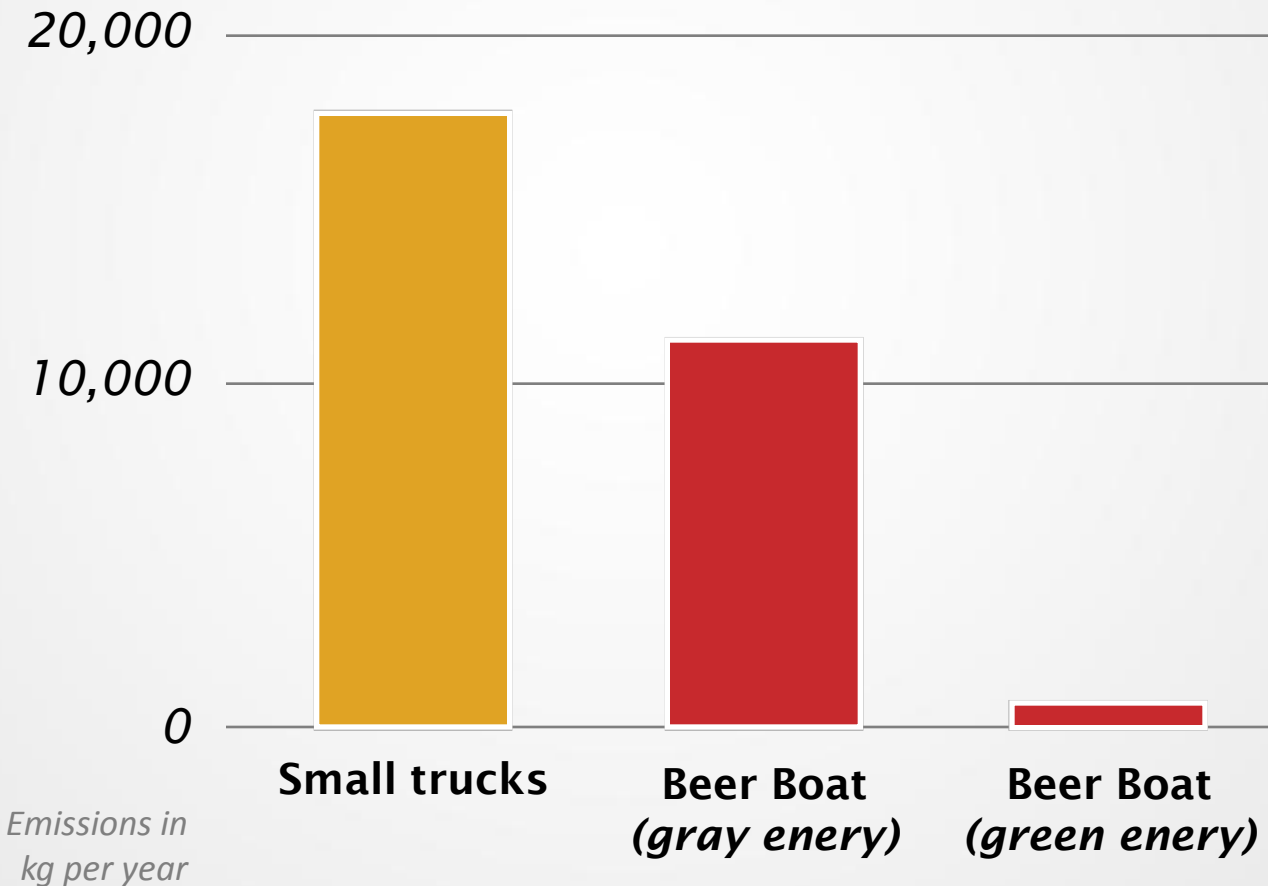


- Propellor drive:  
400-V AC electric motor  
of 55-kW
- Batteries are charged  
during nighttime
- 12-kW bow thruster
- 4 sets batteries supplying  
480-V DC

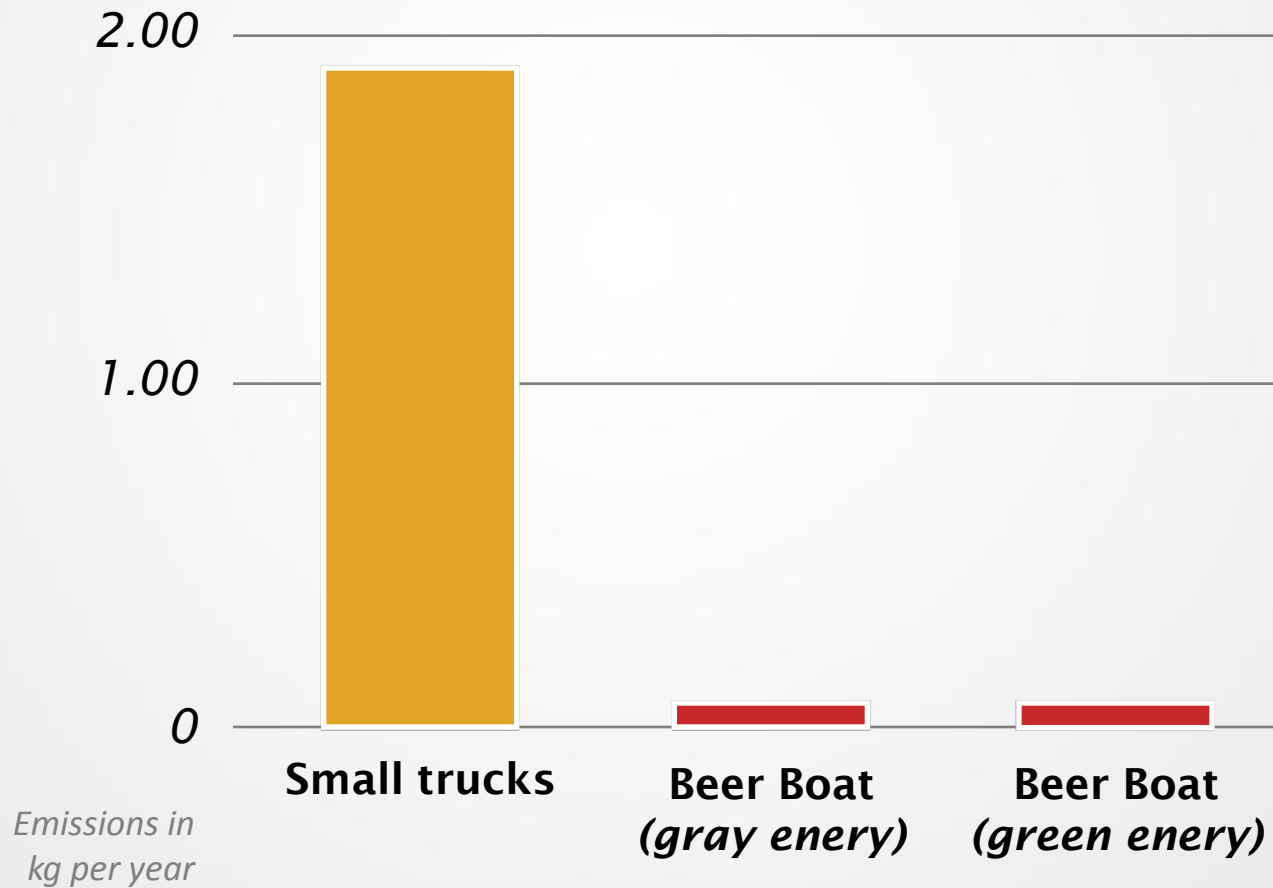


“ THE ELECTRIC BEER BOAT  
LEADS TO A SIGNIFICANT  
EMISSION REDUCTION ”

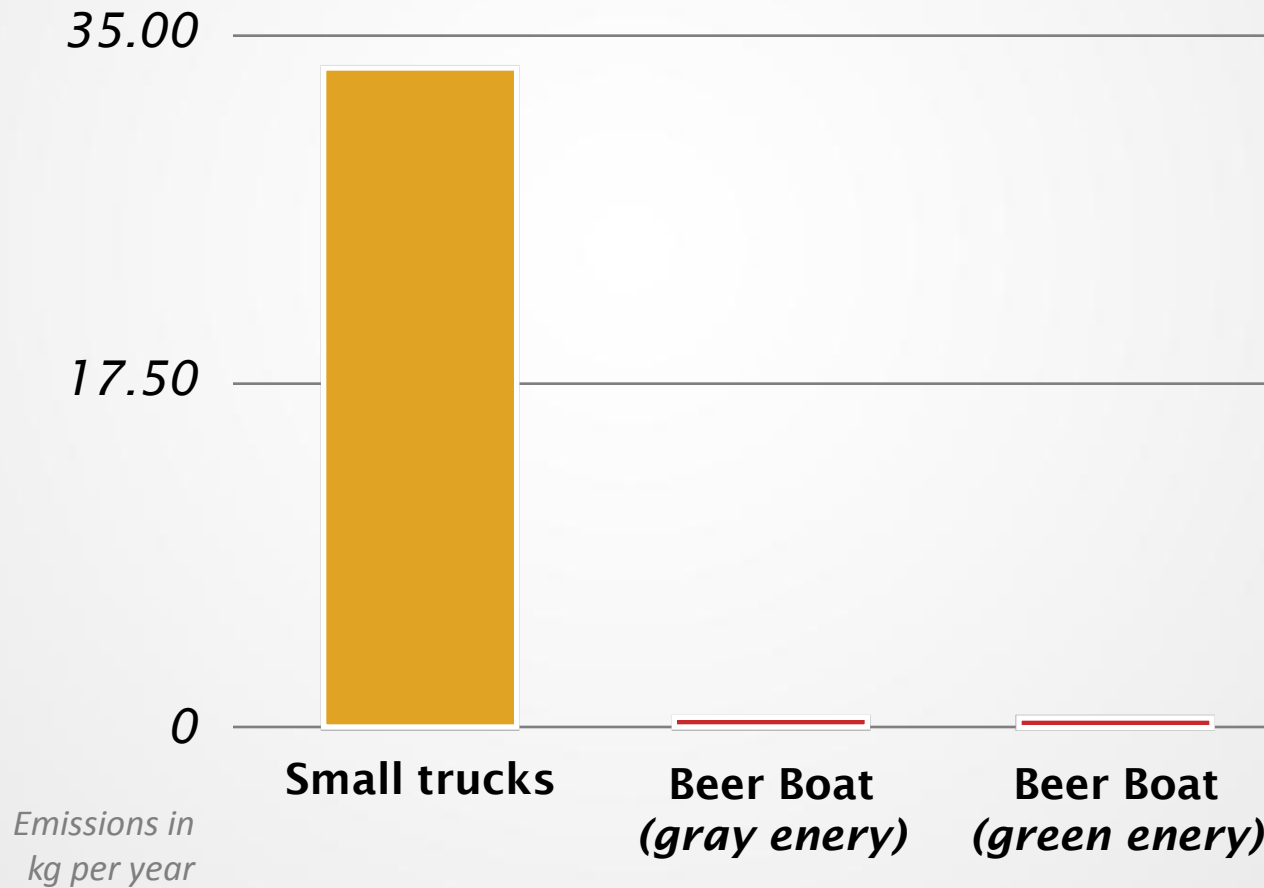
# CO<sub>2</sub> KG/YEAR



# PM10 KG/YEAR



# NO<sub>x</sub> KG/YEAR



# ELECTRIC POWERED

The benefits of green energy



- Efficient
- Clean
- Silent



“ CO<sub>2</sub> REDUCTION  
IS EQUIVALENT TO  
11 SOCCER FIELDS  
OF FORREST ”

# THANK YOU

for your attention



Gemeente Utrecht