HEINEKEN Nederland Supply

ON OUR WAY
TO A CLIMATE NEUTRAL
SUPPLY CHAIN

Jan Kempers
Program Manager Sustainable Development
HEINEKEN Nederland Supply







HNS MISSION

we are...



Proud brewer for the Dutch market



The Undisputed worldwide exporter



Always ready to serve our portfolio of brands



The innovation partner

The Breweries of HEINEKEN Nederland Supply



HEINEKEN Brewery Zoeterwoude

The Flexible Global Brewery

- 12 million HI
- Cost efficient for global brands and large product innovations
- Buffer for the world
- 800 FTE



HEINEKEN Brewery Den Bosch

The Innovation Brewery

- 6,2 million HL
- Flexibility for local and global innovations
- 400 FTE



Brand Brewery

The Craft Brewer

- Craft- brewery for ultimate brewing capabilities (yeasts, hops)
- 0,5 million HL
- 45 FTE





HNS

DESIGNED FOR EXPORT

- Export to over 150 countries
- 17.5 Mhl a year
- 65.000 containers by sea
- 15.000 truckloads



CLIMATE CHANGE WILL HAVE AN IMPACT ON OUR MARKETS

- Extreme weather events in US and Asia
 (hurricane areas) will raise climate awareness
- Material scarcity and legislation will push producers towards recycling and renewable resources
- ◆ COP21 will change energy use worldwide
- ◆ Local brewers are perceived to be sustainable by default
- Consumer awareness is likely to influence product preference in our most important markets





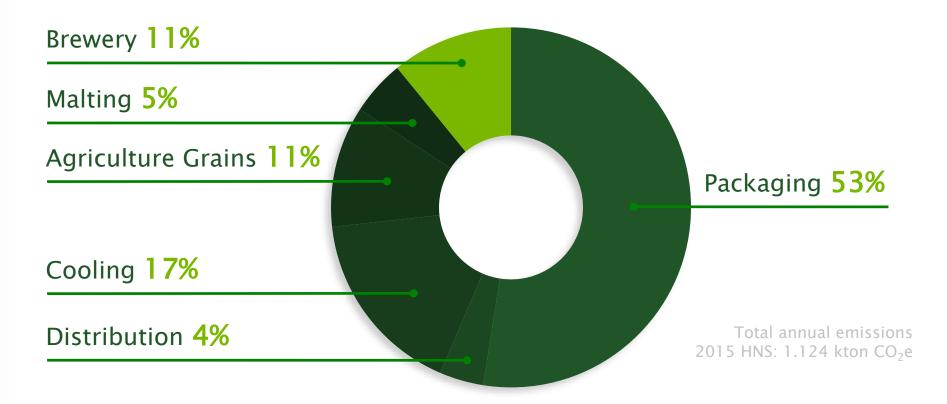
HEINEKEN NETHERLANDS SUPPLY | SERVES THE WORLD



ON THE WAY TO A
CLIMATE NEUTRAL SUPPLY CHAIN



HEINEKEN NETHERLANDS SUPPLY | CARBON FOOTPRINT





HEINEKEN NETHERLANDS SUPPLY | CARBON FOOTPRINT

Brewery 11%

SUPPLY CHAIN COLLABORATION IS KEY FOR SUCCESS

89% OF CF-REDUCTION HAS TO BE REALISED BY OUR SUPPLY CHAIN PARTNERS





HEINEKEN







Rijnland



GREEN CIRCLES | AMBITION

- A climate neutral HEINEKEN Brewery in a climate neutral supply chain
- A sustainable economy
- A pleasant living environment
- To develop knowledge for a climate neutral society



GREEN CIRCLES | THEMES

Promoting sustainable energy and reducing greenhouse gas emissions

Ensuring sufficient good drinking water

Completing raw material cycles

Developing sustainable mobility and logistics

 Improving the living environment and strengthening biodiversity





GREEN CORRIDOR

Gouwenaar 2.zero

transformation to zero emission





Exploration of two electric chains:

1. Battery - electric

sustainable generation battery electric propulsion ING, Engie, Eneco, Havenbedrijf Rotterdam, Wärtsilä, Nedcargo, RVO, Heineken

2. Hydrogen - electric

sustainable generation \implies H₂/fuel cell /battery \implies electric propulsion Siemens, ING, Damen Shipyards, BCTN, TNO, Havenbedrijf Rotterdam, Nedcargo, Heineken

Work towards an illustration of the advantages, disadvantages and a business-economic comparison

The pilot with Gouwenaar 2 is only the beginning...

After the pilot we will scale up:

- 'Gouwenaar' class
- Ships of BCTN (HEINEKEN Den Bosch)
- Ships of NPRC (inbound malt)
- product/market combinations for European inland waterway transport

decarbonisation of ocean shipping would be a logical next step





ING
RVO
Engie,
Eneco
Wärtsilä
Heineken
Nedcargo
Havenbedrijf Rotterdam

TNO BCTN Siemens Heineken Nedcargo Damen Shipyards Havenbedrijf Rotterdam

HEINEKEN