





# LET'S FUEL

## A BETTER FUTURE

OG is the clean fuels supplier and exclusively supplies 100% green fuels. We produce our own clean fuels and build filling stations exclusively with alternative fuels.

The fuels are always produced sustainably and as locally as possible. In this way, OG contributes to a sustainable, local and circular economy. And to the climate objectives for reducing CO2 emissions at both national and European level.

With the mix of clean fuels from OG everyone can drive clean.



# INTERNATIONAL NETWORK



## OG NETHERLANDS

- 86 Bio-CNG stations
- 20 EV super chargers
- 3 Hydrogen stations
- 1 liquid CO2 station
- 6 LNG-stations (cooperation with DCB Energy)
- Network of +10 HVO 100 stations (OG and partnerships)



## OG GERMANY

- 123 Bio-CNG-stations
- Building phase of LNG-station
- Plans for EV super chargers
- Partnership with Verbio for Bio-CNG



## OG SWEDEN

- 9 CBG-stations (CNG)
- 2 EV super chargers
- Klimatklivet requested for 8 CBG/LBG locations
- Building CBG-station
- Building 5 Dream Stations with Klimatklivet subsidies



## OG ITALY



## OG UK



# WHERE DO YOU FIND US?

## Offices:

- Heerenveen (HQ)
- Amsterdam (NL)
- Verden (DE)
- Göteborg (SE)
- Helsingborg (SE)



# PRODUCTION LOCATIONS



Beverwijk (Bio-CNG)



Mijdrecht (Bio-CNG)



Amsterdam (Bio-CNG)



Oosterwolde (Hydrogen)

## Bio-CNG

In the process of water purification, sludge is the residual product. Biogas is released from sludge. OG upgrades this to the right quality and then injects it into the gas network. OG is in the process of building a third biogas production location in the Netherlands





OUR AMBITION



BECOME THE **BIGGEST**  
INDEPENDANT SUPPLIER OF  
**CLEAN** FUELS IN EUROPE



# OG DREAM VISION

Energy resources

Production

Distribution

Fueling

Vehicles



Sun



Wind



Landfill  
biogas



Sewage



Waste



'...' waste

Electricity

Electricity  
grid



H<sub>2</sub>

CO<sub>2</sub>  
(liquid)

Bio-CNG

O<sub>2</sub>

Bio-LNG



Electricity



H<sub>2</sub>



CO<sub>2</sub>



Biogas  
(CNG)



LNG





MISSION



MAKING CLEAN DRIVING AVAILABLE  
AND AFFORDABLE FOR EVERYONE  
THERE IS ALWAYS A SUITABLE  
GREEN FUEL.

# CLEAN FUELS



CBG



Market leader in NL and DE. Combined sales budget of more than 32 million kg biogas in 2021.



LBG



6 locations in DE. Plans to build in SE..



SUPER CHARGERS



17 superchargers in NL and SE. Including one of the largest EV super- and fast charging locations in the Netherlands next to Schiphol Airport.



HVO 100



More than 10 HVO locations. Exploratory phase in Sweden.



HYDROGEN



Three operational hydrogen stations in The Hague, Assen and Amsterdam. In Sweden, with support from Klimatklivet. Exploratory phase in Germany.





# CBG

- 100% CBG
- 90% CO2-reduction
- Filling up takes only 5 minutes
- The range is 230 km to 600 km
- One of the cleanest fuels in terms of well-to-wheel
- Passenger car, delivery van, truck



# LBG

- Mainly used for heavy transport, marine and off-grid applications.
- Range up to 1500 km
- Only 15 minutes refuelling for a large truck
- LBG engines produce 50% less noise than diesel engines
- CO2 emissions can be reduced by almost 100% throughout the entire chain





# ELECTRIC

- 100% green electricity
- Generated by wind farms in the Netherlands
- Works on building its own solar parks
- Electric vehicles are quiet and clean
- Range is 80 km to 640 km
- Electric cars are emission free



# HVO 100

- The sustainable version of diesel
- Produced from renewable, sustainable raw materials
- Mainly used for trucks, buses and coaches
- Made from residual materials, such as vegetable fats
- Can be used in an existing Euro 5/Euro 6 truck without modification
- Reduces CO2 emissions by almost 90%



# HYDROGEN

- An energy carrier, not a fuel to be burned
- The only waste product is water
- For passenger cars (700 Bar) and large vehicles (350 Bar)
- Very clean and quiet
- Filling takes only 5 minutes
- Lower tax on benefits in kind
- The tank-to-wheel emissions of a hydrogen car are zero



# DEVELOPMENT OF HYDROGEN



HYDROGEN





# CHALLENGES

- (Non) excising rules and regulations, or a lot of uncertainties
- Availability of vehicles
- Pricing of the hydrogen
- Supply chain
- Technic
- Business Case
- Delivery time of stations
- Increasing prices of raw minerals



# TOPICS

- What does OG Cleanfuels see as primary obstacles for the development of hydrogen filling stations, infrastructure and Hydrogen Fuel Cell Vehicles in the Nordic Market?
- Would OG Cleanfuels say that the local production of hydrogen at filling stations will be a preferred option for the supply or that hydrogen will be distributed in MEG-Containers/Swap bodies in the short to medium term?
- What does OG Cleanfuels think of the availability and need of liquefied hydrogen in heavy duty vehicles, the development of the infrastructure and what will be the primary obstacle of this development?









# THANK YOU FOR YOUR ATTENTION

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